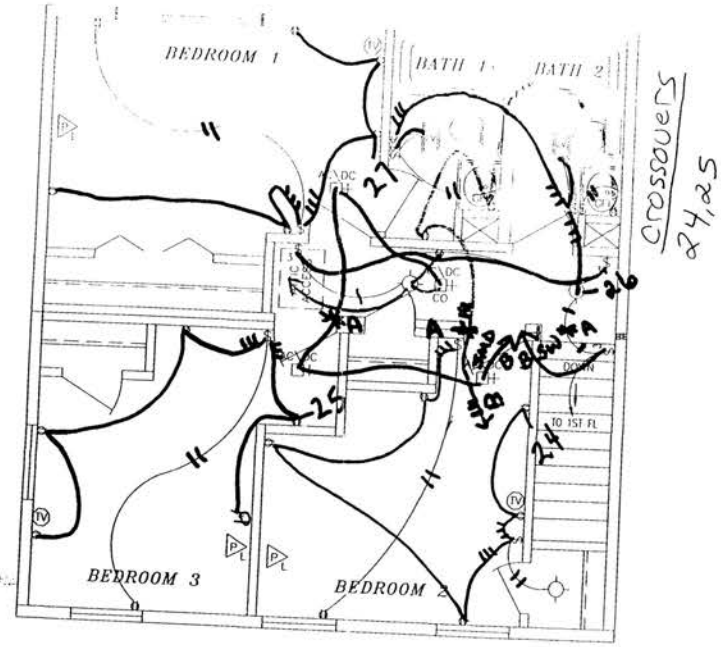


FRONT

"C"-HALF

"D"-HALF

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Zoning Review Branch
Zoning Division

SECOND FLOOR
REVERSED FLOOR PLAN

CREST HOMES

INTERNAL TRACKING NUMBERS
N/A

CUSTOMER/PROJECT
LILLENFIELD
2818 K STREET
WASHINGTON, D.C. 20007

BUILDER
B & F BUILDERS
10038 CHARTWELL MANOR COURT
POTOMAC, MD. 20854

REVISIONS
BY

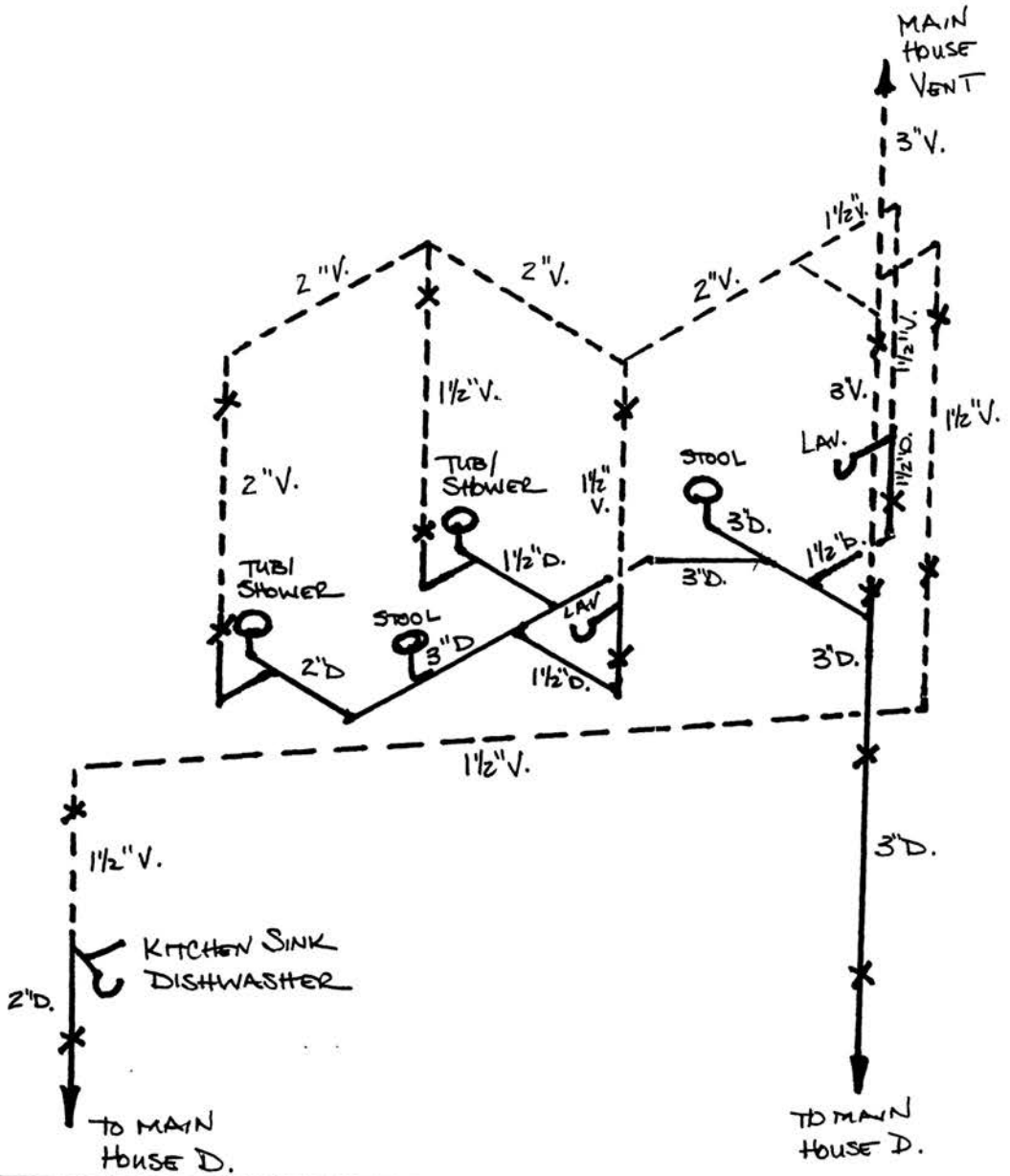
SCALE
3/16" = 1'-0"

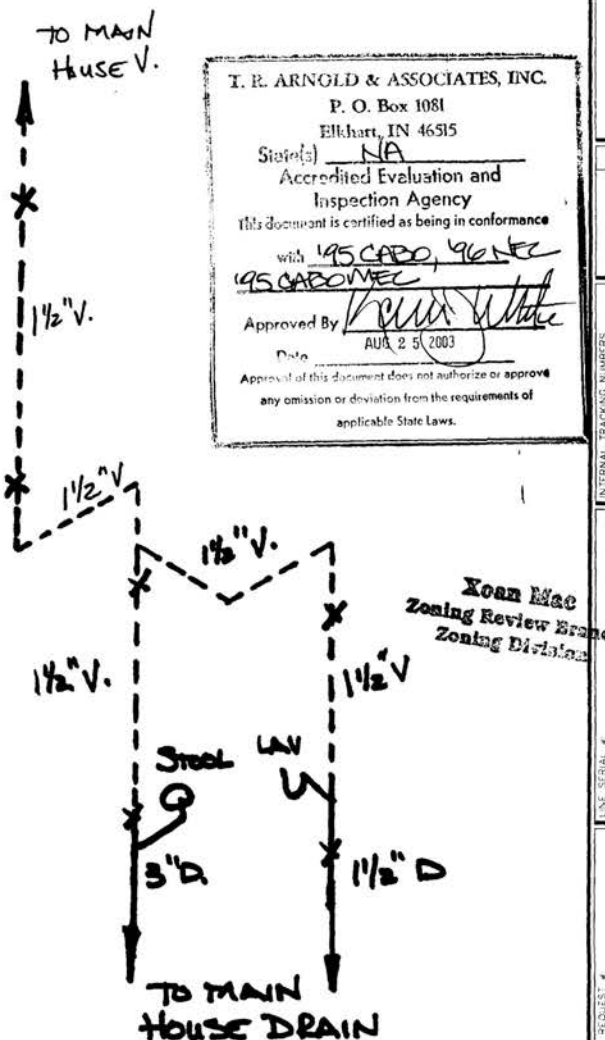
N/A

EN03-282

CASE NO. : 17236
EXHIBIT NO. : 7

Board of Zoning Adjustment
District of Columbia
CASE NO. 17236





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Joan Mac
Zoning Review Branch
Zoning Division

CREST HOMES
DIVISION OF [illegible] MANUFACTURING P [illegible]
[illegible] INDUSTRIAL PARK
MILTON, PA 17847
PHONE # (570) 742 - [illegible] FAX # (570) 742 - 3351

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CUSTOMER/PROJECT:
LILLENFIELD
2828 R STREET
WASHINGTON, D.C. 20007

BUILDER
B & F BUILDERS
10038 CHARTWELL MANOR COURT
POTOMAC, MD. 20854

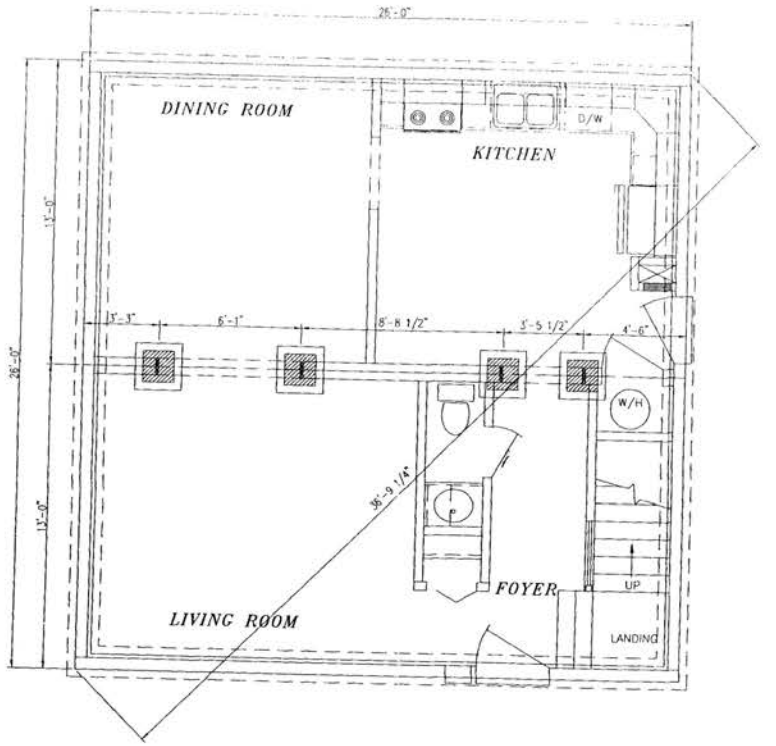
LINE SERIAL #
N/A

REV#	DATE	REVISIONS	BY

DRAWN BY: SAR
DATE: 8/20/03
SCALE: 3/16" = 1'-0"

E-REQUEST #
EN03-282

SQ.FT. 6/6
TYPE TWO STORY
MODEL 2626 2013
DRAWING PLUMBING SCHEMATIC
SHEET 2D



"A"-HALF

"B"-HALF

FRONT

THIS FOUNDATION PLAN IS FOR DIMENSIONS ONLY. FOUNDATION WALLS, FOOTINGS, COLUMNS, PIERS, AND SLAB TO BE DESIGNED BY OTHERS TO MEET STATE AND/OR LOCAL CODES USING EXISTING SOIL ANALYSIS. MANUFACTURER ASSUMES NO RESPONSIBILITY FOR ERRORS IN THE CONSTRUCTION OF THE FOUNDATION. ANY AND ALL DIMENSIONS ARE TO BE CHECKED AND VERIFIED (AGAINST THE FLOOR PLAN "BUILDER COPY") BY BUILDER/DEALER PRIOR TO FOUNDATION CONSTRUCTION. THE BUILDER/DEALER MUST CONTACT MANUFACTURER WITH ANY DISCREPANCIES PRIOR TO THE START OF CONSTRUCTION.

- MANUFACTURER WILL NOT ASSUME ANY RESPONSIBILITY IF BUILDER/DEALER/OWNER EXCEEDS MAXIMUM SPACING OF SUPPORTS AS SHOWN ON THIS DRAWING.
- WINDOW CENTER LINE LOCATIONS FOR RAISED RANCH AND/OR SPLIT-LEVEL MODELS TO BE OBTAINED FROM "BUILDER COPY" DRAWINGS.

COLUMN SPACING HAS BEEN DERIVED USING CHART ON PG. 30 OF THE SYSTEM PACKAGE USED (6) 2x10 SPF #2 W/ 45 PSF GROUND SNOW LOAD TO CALCULATE.

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FIRST FLOOR
REVERSED FLOOR PLAN
108" CEILING HEIGHT

CREST HOMES
DIVISION OF [illegible]
[illegible]
MILTON, PA 17847
PHONE # (570) 742 - 8521 FAX # (570) 742 - 0351

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INTERNAL TRACKING NUMBERS
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CUSTOMER/PROJECT
LILLENFIELD
2828 R STREET
WASHINGTON, D.C. 20007

BUILDER
B & F BUILDERS
10038 CHARTWELL MANOR COURT
POTOMAC, MD. 20854

REV#	DATE	REVISIONS	BY

DRAWN BY: KHH
DATE: 6-3-03
SCALE: 3/16" = 1'-0"

LINE SERIAL #: N/A

REQUEST #: EN03-282

SQ.FT.: 676
TYPE: TWO STORY
MODEL: 2626 2010
DRAWING: FOUNDATION
SHEET: 3

CONSTRUCTION SECTION

FLOOR BEAM CONFIGURATION	UNIT TYPE	ROOF LIVE LOAD				
		UNIT WIDTH	0 PSF SEE NOTE 2	45 psf Ground Snow	65 psf Ground Snow	85 psf Ground Snow
(4) 2x8 #2 SPF SEE NOTE 3	RANCH	24"	8'-5"	5'-0"	4'-6"	4'-1"
	CAPE COD	24"	5'-9"	4'-1"	3'-11"	3'-9"
(4) 2x8 #2 SYP SEE NOTE 4	RANCH	24"	9'-0"	6'-0"	5'-5"	4'-11"
	CAPE COD	24"	6'-6"	4'-11"	4'-8"	4'-5"
(4) 2x10 #2 SPF SEE NOTE 5	RANCH	24"	10-4"	6'-4"	5'-9"	5'-3"
		26"	9'-11"	5'-11"	5'-5"	5'-0"
		28"	9'-6"	5'-8"	5'-2"	4'-9"
		30"	9'-3"	5'-5"	4'-11"	4'-6"
		32"	8'-11"	5'-2"	4'-5"	4'-4"
(4) 2x10 #2 SPF SEE NOTE 5	CAPE COD	24"	6'-10"	5'-3"	5'-0"	4'-9"
		26"	6'-5"	4'-11"	4'-9"	4'-6"
		28"	6'-1"	4'-9"	4'-5"	4'-3"
		30"	5'-9"	4'-5"	4'-3"	4'-1"
		32"	5'-7"	4-'3"	4'-1"	3'-11"
(6) 2x10 #2 SPF SEE NOTE 5	RANCH	24"	12'-9"	8'-9"	7'-10"	7'-1"
		26"	12'-5"	8'-2"	7'-4"	6'-8"
		28"	12'-1"	7'-8"	6'-11"	6'-4"
		30"	11'-10"	7'-3"	6'-7"	6'-0"
		32"	11'-7"	6'-11"	6'-4"	5'-9"
	CAPE COD 1ST FLOOR TWO STORY	24"	7'-10"	6'-0"	5'-7"	5'-4"
		26"	7'-4"	5'-8"	5'-4"	5'-0"
		28"	7'-0"	5'-4"	5'-0"	4'-9"
		30"	6'-7"	5'-1"	4'-9"	4'-7"
		32"	6'-3"	4'-10"	4'-7"	4'-5"

NOTES:

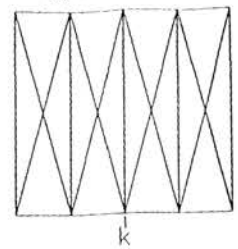
1. ROOF LIVE LOADS REFLECT TOTAL ROOF SNOW LOADS.
2. THE 0 PSF COLUMN IS FOR OPEN CLEAR SPAN AREAS IN THE MATING LINE. USE OF THIS COLUMN REQUIRES A SUPPORT AT EACH END OF THE OPENING, AND RIDGE BEAM IN ROOF.
3. 2x8 #2 SPF = #2 SPRUCE/PINE/FIR NORTH 1991 NDS
4. 2x8 #2 SYP = #2 SOUTHERN YELLOW PINE 1991 NDS
5. 2x10 #2 SPF = #2 SPRUCE/PINE/FIR NORTH 1991 NDS

FIRST FLOOR (40 PSF)					
FLOOR JOIST	24W	26W	28W	30W	32W
2x8 #2 SPF	16"	N.A.	N.A.	N.A.	N.A.
2x8 #2 SYP	16"	16"	N.A.	N.A.	N.A.
2x10 #2 SPF	16"	16"	16"	16"	16"
SECOND FLOOR (30 PSF)					
FLOOR JOIST	24W	26W	28W	30W	32W
2x8 #2 SPF	16"	N.A.	N.A.	N.A.	N.A.
2x8 #2 SYP	16"	16"	N.A.	N.A.	N.A.
2x10 #2 SPF	16"	16"	16"	16"	16"

NOTES:

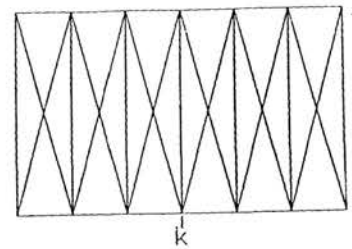
1. N.A.= NOT APPLICABLE

(4) 2x8 #2 SPF
(4) 2x8 #2 SYP — SEE CHART FOR USAGE
(4) 2x10 #2 SPF



(4) MEMBERS

(6) 2x10 #2 SPF
SEE CHART FOR USAGE



(6) MEMBERS

STATE APPROVAL STAMP SPACE

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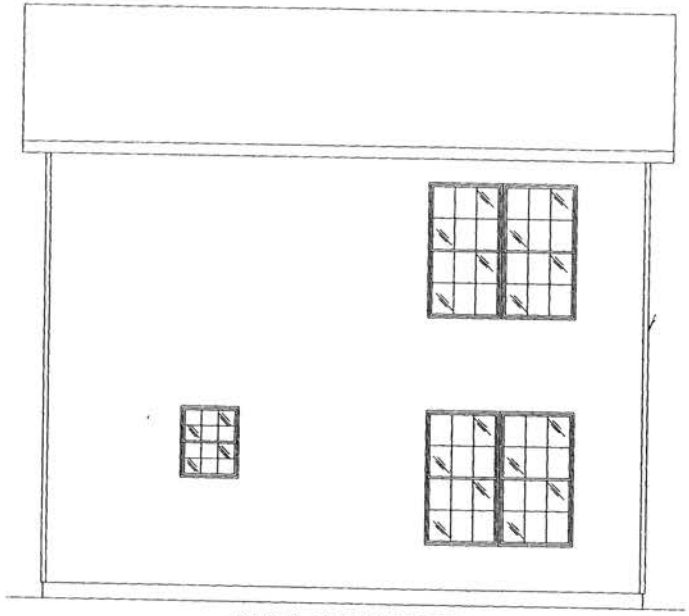
Zoning Review
Zoning Division

3A

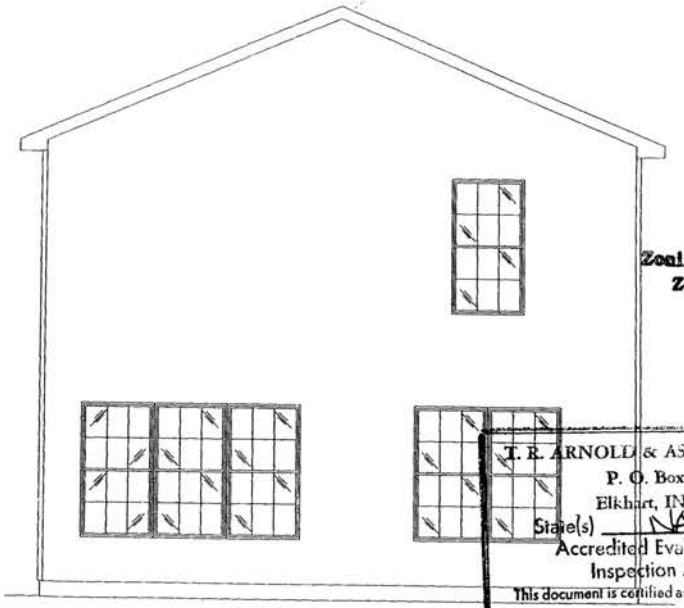
CREST HOMES

REV	DESCRIPTION	DATE	BY

TITLE: FLOOR JOIST/BEAM USAGE
SERIES: [redacted]
SCALE: -
DRWN. BY: T.C.
DATE: 10-15-98
HHM PG:



REAR ELEVATION



LEFT ELEVATION

Xeam Lee
Zoning Review Branch
Zoning Division

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NOTES:
1. HANDRAILS, STOOPS, DOWNSPOUTS AND GUTTERS ARE FURNISHED AND INSTALLED BY OTHERS IN ACCORDANCE WITH ALL STATE AND LOCAL CODES.
2. TERMINATION HEIGHT OF METAL CHIMNEYS WILL BE A MINIMUM OF 3'-0" ABOVE THE HIGHEST POINT WHERE THEY PASS THRU THE ROOF AND A MINIMUM OF 2'-0" HIGHER THAN ANY PORTION OF A BUILDING WITHIN 10'-0". (CHIMNEY WILL BE INSTALLED BY OTHERS ON SITE.)

FIELD NOTES:
1. ALL NOTES STATING "IN FIELD" OR "BY OWNER" ARE OBLIGATIONS PERTAINING TO THE DEALER AND/OR BUILDER.
2. GUTTERS AND LEADERS BY OWNER.
3. SHUTTERS ARE OPTIONAL.
4. BASEMENT WINDOWS BY OWNER.
5. ALL EXTERIOR LIGHTS ARE FACTORY SUPPLIED AND FIELD INSTALLED.
6. VINYL OR ALUMINUM SIDING FOR RIGHT AND LEFT ENDS IS SHIPPED LOOSE FOR FIELD INSTALLATION.
7. THE BOTTOM ROW OF LAP SIDING ON THE FRONT AND REAR IS SHIPPED LOOSE ALONG WITH STARTER STRIP FOR FIELD INSTALLATION AFTER SECURING FLOOR TO FOUNDATION SILL PLATE.
8. HINGED ROOF SYSTEM (4/12 MIN.) REQUIRING FIELD COMPLETION, NOMINAL 3/12 ROOF COMPLETED AT FACTORY.
9. FOOTINGS, FOUNDATION AND STEPS ARE FIELD OBLIGATION.
10. UPPER HINGED PORTION OF ROOF COMPLETED ON SITE BY CONTRACTOR.
11. SIDING TO BE INSTALLED A MINIMUM OF 8" ABOVE GRADE.

CREST HOMES
DIVISION OF HBOS MANUFACTURING LP
30 NORTH INDUSTRIAL PARK
MILTON, PA 17847
PHONE # (570) 742 - 8521 / Fax # (570) 742 - 0351

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INTERNAL TRACKING NUMBERS: N/A

CUSTOMER/PROJECT: LILLENFIELD, 2828 R STREET, WASHINGTON, D.C. 20007

BUILDER: B & F BUILDERS, 10038 CHARTWELL MANOR COURT, POTOMAC, MD. 20854

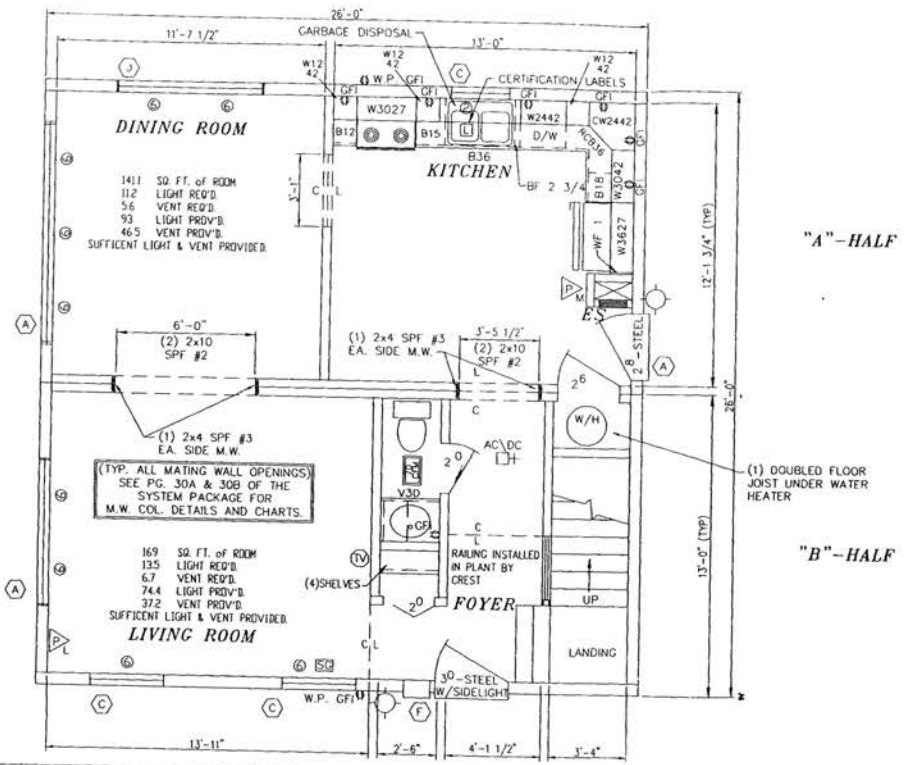
LINE SERIAL #: N/A

REV#	DATE	REVISIONS	BY

DRAWN BY: KHH
DATE: 6-3-03
SCALE: 3/16" = 1'-0"

E REQUEST #: EN03-282

SQ.FT.: 676
TYPE: TWO STORY
MODEL: 2626-2010
DRAWING: ELEVATION
SHEET: 1A



(TYP. ALL WINDOWS AND DOORS THIS PLAN)
SEE PG. 15.1 OF THE SYSTEM PACKAGE
FOR WINDOW AND DOOR HEADER SCHEDULE &
CHART FOR HEADER SPANS FOR SINGLE JACK STUD

STRUCTURAL TEST PRESSURE FOR
PHILIPS MODEL 800 SERIES WINDOWS
IS +37.5 PSF.

WINDOWS

PHILLIPS MODEL 810 VINYL SINGLE HUNG WINDOWS (U=.31(.40)CW ⊡)

SYMBOL	WIDTH	HEIGHT	TYPE	ROUGH OPEN SIZE	TYPE	MIN. LIGHT	MIN. VENT	EGRESS	NET CLEAR AREA
1	26.00	35.75	VINYL	26.5x35.5	SINGLE HUNG	4.3	2.1	NO	52.50
2	30.00	35.75	VINYL	29.5x35.5	SINGLE HUNG	5.1	2.6	NO	63.75
3	38.00	35.75	VINYL	37.5x35.5	SINGLE HUNG	6.8	3.3	NO	82.5
4	38.00	59.75	VINYL	37.5x59.5	SINGLE HUNG	12.2	6.2	YES	152.5
5	38.00	71.75	VINYL	37.5x71.5	SINGLE HUNG	15.1	7.7	YES	190.00
7	24.00	24.00	WOOD	2020	OCTOGON	----	----	----	----
8	30.00	59.75	VINYL	29.5x59.5	SINGLE HUNG	9.3	4.8	NO	116.25

STRUCTURAL TEST PRESSURE FOR
THERMA-TRU STEEL DOOR SYSTEM IS
POSSITIVE PRESSURE +73.4 PSF @ 171 MPH
NEGATIVE PRESSURE -96.0 PSF @ 196 MPH

DOORS

SYMBOL	CASE WIDTH	CASE HEIGHT	THICK	TYPE	MATL.	SCREEN	FINISH	LIGHT
1	2'-0"	6'-8"	1 3/8"	HOLLOW CORE	WOOD	NO	PREFIN.	
2	2'-6"	6'-8"	1 3/8"	HOLLOW CORE	WOOD	NO	PREFIN.	
3	2'-8"	6'-8"	1 3/4"	INSULATED	STEEL	NO	PAINT	19.4
4	3'-0"	6'-8"	1 3/4"	INSULATED	STEEL	NO	PAINT	21.6
5	6'-0"	6'-8"	N/A	SLIDING GLASS	METAL	YES	GALV	42.1
6	6'-0"	6'-8"	N/A	SLIDING GLASS	WOOD	YES	PAINT	42.1
7	6'-0"	6'-8"	N/A	HINGED GLASS	WOOD	YES	PAINT	42.1

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Elkhart, IN 46515
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Xoan Mac
Zoning Review Branch
Zoning Division

FIRST FLOOR
REVERSED FLOOR PLAN
108" CEILING HEIGHT

CREST HOMES
DIVISION OF HBOS MANUFACTURING LP
30 NORTH INDUSTRIAL PARK
MILTON, PA 17847
PHONE # (570) 742 - 8531 / Fax # (570) 742 - 0351

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INTERNAL TRACKING NUMBERS
N/A

CUSTOMER/PROJECT:
LILLENFIELD
2828 R STREET
WASHINGTON, D.C. 20007

BUILDER:
B & F BUILDERS
10038 CHARTWELL MANOR COURT
POTOMAC, MD. 20854

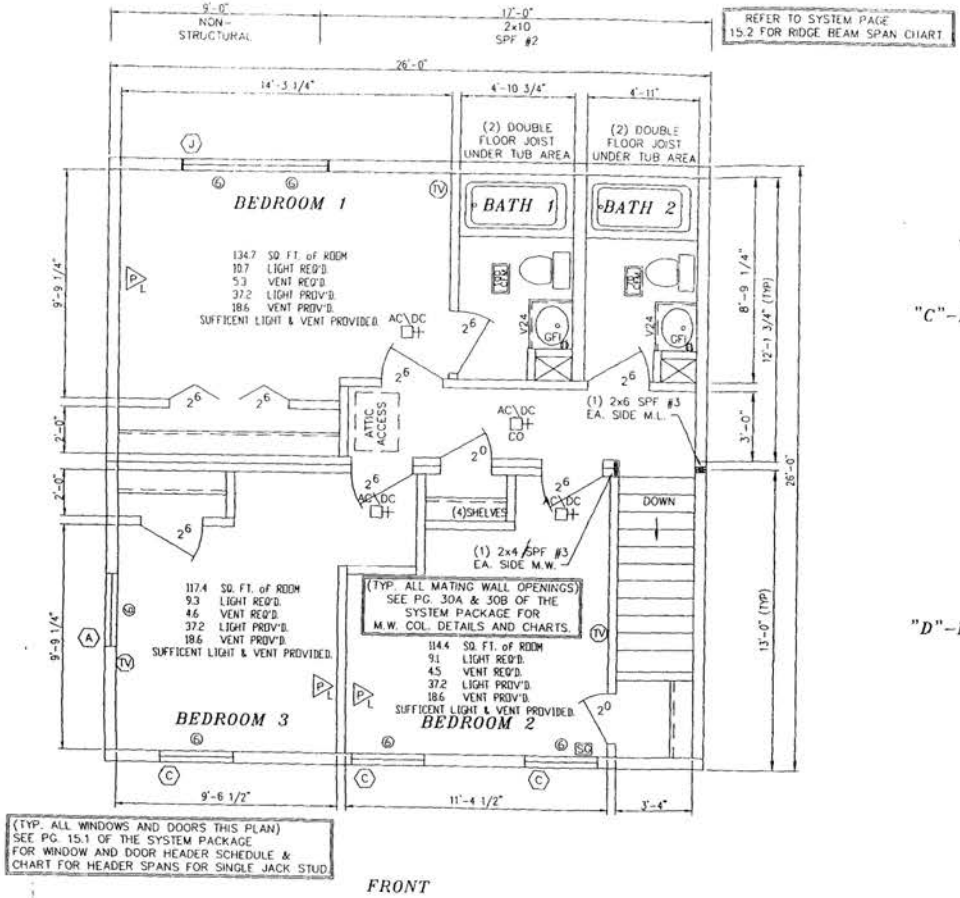
LINE SERIAL #: N/A

REV#	DATE	REVISIONS	BY
A	7-23-03	ADDED STAMP INFORMATION	SEES
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-	-	-	-
-	-	-	-

DRAWN BY: KHH
DATE: 6-3-03
SCALE: 3/16" = 1'-0"

E REQUEST #: EN03-282

SQ.FT.: 676
TYPE: TWO STORY
MODEL: 2626-2010
DRAWING: FLOOR PLAN
SHEET: 2



(TYP. ALL WINDOWS AND DOORS THIS PLAN) SEE PG. 15.1 OF THE SYSTEM PACKAGE FOR WINDOW AND DOOR HEADER SCHEDULE & CHART FOR HEADER SPANS FOR SINGLE JACK STUD.

FRONT

"C"-HALF

"D"-HALF

SECOND FLOOR

REVERSED FLOOR PLAN

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Elkhart, IN 46515
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Approved By
Date AUG 2 6 2003
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Xuan Hao
Zoning Review Branch
Zoning Division

STRUCTURAL TEST PRESSURE FOR PHILIPS MODEL 800 SERIES WINDOWS IS +37.5 PSF.

STRUCTURAL TEST PRESSURE FOR THERMA-TRU STEEL DOOR SYSTEM IS POSSITIVE PRESSURE +73.4 PSF @ 171 MPH NEGATIVE PRESSURE -96.0 PSF @ 196 MPH

WINDOWS

PHILLIPS MODEL 810 VINYL SINGLE HUNG WINDOWS (U= 51/ HOLOW C)

SYMBOL	WIDTH	HEIGHT	TYPE	APPX. CALL SIZE	TYPE	MIN. LIGHT	MIN. VENT	EGRESS	MFR. PLANN (AS)
(1)	26.00	35.75	VINYL	25.5x35.5	SINGLE HUNG	4.3	2.1	NO	52.50
(2)	30.00	35.75	VINYL	29.5x35.5	SINGLE HUNG	5.1	2.6	NO	63.75
(3)	38.00	35.75	VINYL	37.5x35.5	SINGLE HUNG	6.8	3.3	NO	82.5
(4)	38.00	59.75	VINYL	37.5x59.5	SINGLE HUNG	12.2	6.2	YES	152.5
(5)	38.90	71.75	VINYL	37.5x71.5	SINGLE HUNG	15.1	7.7	YES	190.00
(7)	24.00	24.00	WOOD	2020	OCTOGON	----	----	----	------
(8)	30.00	59.75	VINYL	29.5x59.5	SINGLE HUNG	9.3	4.8	NO	116.25

DOORS

SYMBOL	FULL WIDTH	FULL HEIGHT	THICK	TYPE	MATL	SCREEN	FINISH	LIGHT
◇	2'-0"	6'-8"	1 3/8"	HOLLOW CORE	WOOD	NO	PREFIN.	
◇	2'-6"	6'-8"	1 3/8"	HOLLOW CORE	WOOD	NO	PREFIN.	
◇	2'-8"	6'-8"	1 3/4"	INSULATED	STEEL	NO	PAINT	19.4
◇	3'-0"	6'-8"	1 3/4"	INSULATED	STEEL	NO	PAINT	21.6
◇	6'-0"	6'-8"	N/A	SLIDING GLASS	METAL	YES	CALY	42.1
◇	6'-0"	6'-8"	N/A	SLIDING GLASS	WOOD	YES	PAINT	42.1
◇	6'-0"	6'-8"	N/A	HINGED GLASS	WOOD	YES	PAINT	42.1

CREST HOMES
DIVISION OF HBOS MANUFACTURING LP
30 NORTH INDUSTRIAL PARK
MILTON, PA 17847
PHONE # (570) 742 - 8521 / Fax # (570) 742 - 0351

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INTERNAL TRACKING NUMBERS: N/A

CUSTOMER/PROJECT: LILLENFIELD, 2828 R STREET, WASHINGTON, D.C. 20007

BUILDER: B & F BUILDERS, 10038 CHARTWELL MANOR COURT, POTOMAC, MD. 20854

LINE SERIAL #: N/A

REV#	DATE	REVISIONS	BY
A	7-23-03	ADDED STAMP INFORMATION	SEES

DRAWN BY: KHH | DATE: 6-3-03 | SCALE: 3/16" = 1'-0"

SQ.FT.: 676

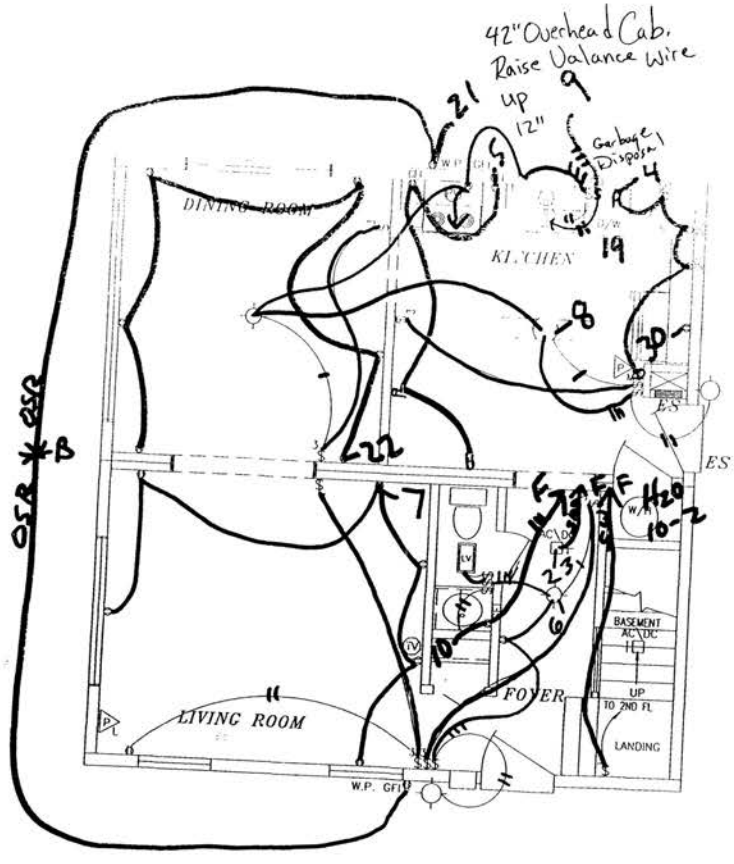
TYPE: TWO STORY

MODEL: 2626-2010

DRAWING: FLOOR PLAN

SHEET: 2A

E REQUEST # EN03-282



FRONT

"A"–HALF

"B"–HALF

Crawlspace
White Rangehood
Dishwasher
Garbage Disposal
Elect. H2O
Gas Range
Door Chime
Phone
42" Overhead Cab.

Xoan Mao
Zoning Review Branch
Zoning Division

T. R. ARNOLD & ASSOCIATES, INC.
P. O. Box 1081
Elkhart, IN 46515
State(s) N/A
Accredited Evaluation and Inspection Agency
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95 CABO MEC
Approved By
Date AUG 25 2003
Approval of this document does not authorize or approve any omission or deviation from the requirements of applicable State Laws.

FIRST FLOOR
REVERSED FLOOR PLAN
108" CEILING HEIGHT

CREST HOMES

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INTERNAL TRACKING NUMBERS
N/A

CUSTOMER/PROJECT
LILLENFIELD
2828 R STREET
WASHINGTON, D.C. 20007

BUILDER:
B & F BUILDERS
10038 CHARTWELL MANOR COURT
POTOMAC, MD. 20854

LOT SERIAL #
N/A

REVISIONS | BY | DATE
DRAWN BY | DATE | SCALE
6-3-03 | 3/16" = 1'-0"

REQUEST #
EN03-282

PLAN
TWO STORY
MODEL
2626 2010

DRAWING
ELECTRICAL

SHEET
20

FOUNDATIONS

FOUNDATION SECTION

FULL BASEMENT NOTES:

1.) FOUNDATIONS MUST BE DESIGNED AND BUILT TO LOCAL CODES AND ORDINANCES AND MUST BE APPROVED AND INSPECTED BY LOCAL BUILDING OFFICIALS

2.) BASEMENT STAIRS MUST MEET ALL LOCAL CODE REQUIREMENTS

3.) SNOW LOAD ZONES 45, 65, AND 85
SNOW LOAD MUST BE VERIFIED PER LOCALITY

4.) FOUNDATION STEEL SUPPORTS PROVIDED BY ON SITE CONTRACTOR AND SHALL HAVE A PROTECTIVE COATING BY ON SITE CONTRACTOR

5.) FOUNDATION VENT REQUIRED: USE MINIMUM PER CODE ENFORCED 8"x16" VENTS WITH RODENT SCREEN AND OPERABLE DAMPER TO PROVIDE A MINIMUM 96 SQ IN FREE AREA EACH (MIN OF 2/3 SQ FT FREE AREA FULLY OPEN) RODENT SCREEN MESH SHALL BE A CORROSION RESISTANT WIRE MESH NOT GREATER THAN 1/2" NOR LESS THAN 1/4 IN ANY DIRECTION.

6.) FOOTERS EXTEND TO BELOW FROST LINE.

7.) RESERVED

CRAWLSPACE NOTES:

1.) THE FOUNDATION MUST BE DESIGNED AND BUILT TO LOCAL CODES AND ORDINANCES AND MUST BE APPROVED AND INSPECTED BY LOCAL BUILDING OFFICALS.

2.) AN ACCESS CRAWL HOLE 18"x24" MIN. SHALL BE PROVIDED TO THE CRAWL SPACE.

3.) SNOW LOAD ZONES 45, 65, AND 85.
SNOW LOAD MUST BE VERIFIED PER LOCALITY.

4.) FOUNDATION STEEL SUPPORTS PROVIDED BY ON SITE CONTRACTOR AND SHALL HAVE A PROTECTIVE COATING BY ON SITE CONTRACTOR

5.) MINIMUM CRAWL SPACE VENTILATION REQUIRED:
a. 1/150 OF CRAWL SPACE AREA
b. MUST MEET LOCAL CODE REQUIREMENTS

6.) FOOTERS EXTEND TO BELOW FROST LINE.

7.) RESERVED

ALL CONCRETE USED IN THE CONSTRUCTION OF FOUNDATION WALLS SHALL MEET THE FOLLOWING REQUIREMENTS:

ACI-318-89	BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (REVISED NOV 1,1993).
	BUILDING CODE REQUIREMENTS FOR STRUCTURE PLAIN CONCRETE.
ACI-530-92	BUILDING CODE REQUIREMENTS
ACI-530.1-92	FOR CONCRETE MASONRY STRUCTURES. (REVISED 1993)

ALL MASONRY USED IN THE CONSTRUCTION OF FOUNDATION WALLS SHALL MEET THE FOLLOWING REQUIREMENTS:

ACI-530-1992	BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY STRUCTURES

ANCHOR SPECIFICATIONS:

LOCATION	1 FOOT MAXIMUM FROM EACH CORNER 6 FEET MAXIMUM ON CENTERS MINIMUM OF TWO ANCHOR BOLTS IN EACH SILL PIECE
	HUD MPS REQUIREMENTS 1 FOOT MAXIMUM FROM EACH CORNER 2' 5" (29") MAXIMUM ON CENTERS MINIMUM OF TWO ANCHOR BOLTS IN EACH SILL PIECE
SIZE	MINIMUM 1/2 INCH ROUND STOCK OR BOLTS MINIMUM 1/2 INCH IN DIAMETER
EMBEDMENT	MINIMUM 7 INCHES IN CAST IN PLACE CONCRETE 15 INCHES IN UNIT MASONRY IN CELLS AND SPACES FILLED WITH CONCRETE
TYPES	ANCHORS MAY BE HOOKED, PLATE OR EYE AND PIN TYPE
ALTERNATES	SYSTEMS DESIGNED TO EQUIVALENT LOADS ARE ACCEPTABLE

GENERAL NOTES:

1. All notes stating "in field" or "by owner" are obligations pertaining to dealer and/or builder

2. Complete foundation by owner, including footing drains, vapor barrier, 2x6 sill plate, 1/2"x15" anchor bolts, stair area slab and footing reinforcement along with waterproofing, backfill, and all finish work.

3. Install 8"x16" pilasters, 12'-0" apart When unbalanced fill exceeds 4'-0" or as required by local code.

4. This foundation design is recomended for soil bearing no less than 2000 psf.

5. Tie porch foundation into house foundation.

6. The foundation walls must be altered accordingly if a stone or brick veneer is used.

7. Lighting and receptacles in basement are responsibility of owner.

8. Field installed wiring in basement is subject to local inspection.

9. Foundation and porch locations will vary according to individual floor plans.

10. Large clear spans along the mating wall require an adjustable column or pier at each end. See floor plan for additional column requirements.

11. Install sill sealer between sill plate and foundation wall.

12. Brace foundation walls before backfilling.

13. All site work including foundations usually fall under the jurisdiction of local authorities. Information on foundation work contained in these drawings represents the minimum requirements and may not meet local requirements.

14. Foundation design as shown is only suggestive. Actual foundation design shall be based on local soil conditions.

15. Solid cap block or cement fill required at top courses.

16. In a basement, habitable spaces and recreation rooms shall have emergency use openings of a minimum of 5.7 sq. ft. with a minimum clear dimension of 20 in. and a maximum sill height of 44" (R310).

STATE APPROVAL STAMP SPACE

T. R. ARNOLD & ASSOCIATES, INC.
P. O. Box 1081
LaPorte, IN 46515
Site(s) NA
Accepted By Inspection and Inspection Agency
This document is certified as being in conformance with 95 CABO 96 NEC 95 CABO MEC
Approved By
Date AUG 25 2003
Approval of this document does not authorize or approve any omission or deviation from the requirements of applicable State Laws.

Joan Mac
Zoning Review Branch
Zoning Divisi...

38

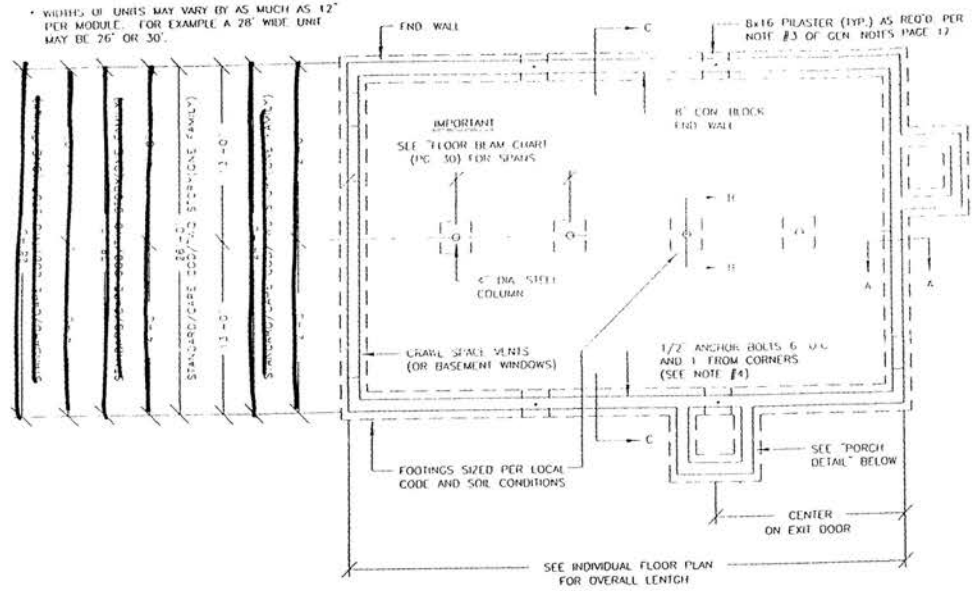
CREST HOMES

REV	DESCRIPTION	DATE	BY
A	UPDATED TO 2000 IRC	9/9/02	LJ
B	UPDATED TO N.Y. 2002 CODE	1/10/03	CC

TITLE: FOUNDATION NOTES
SERIES:
SCALE: N/A
DRAWN BY:
DATE: 10-25-02
DWG NO:

FOUNDATI
SECTION

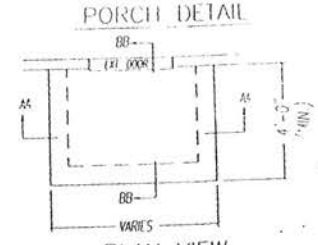
* WIDTHS OF UNITS MAY VARY BY AS MUCH AS 12" PER MODULE. FOR EXAMPLE A 28' WIDE UNIT MAY BE 26" OR 30".



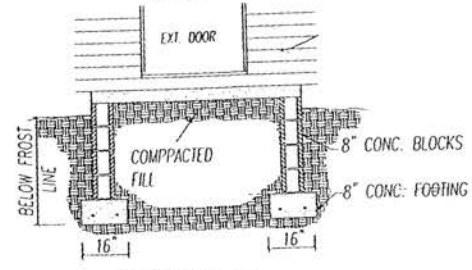
FOUNDATION PLAN
NO SCALE

FOUNDATIONS MUST BE BUILT TO MATCH THE SIZES OF THE INDIVIDUAL HOME. ADDITIONAL MODULES WILL CHANGE WIDTH OF FOUNDATION BY THE WIDTH OF THAT ADDED MODULE.

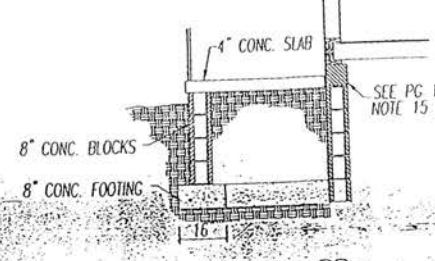
NOTES:
1) SEE PAGE 17 FOR REQUIREMENTS.
2) SEE PAGE 30 FOR FLOOR BEAM AND JOIST USAGE.
3) THE ENGINEER HAS ASSUMED 2000 PSF MINIMUM SOIL BEARING. SOME SOILS HAVE HIGH EXPANSION CHARACTERISTICS OR HAVE LOW SUPPORT CAPABILITIES. THEREFORE THE CERTIFYING ENGINEER SHALL BE FURNISHED WITH A SOIL REPORT BY A LOCAL CERTIFIED SOILS ENG. SHOWING THAT SOIL BEARING MEETS THE MINIMUM REQ'S.
4) FOR 90MPH WIND LOAD REQUIRES ANCHOR BOLT SPACING OF 2'-5" (2'-6") STARTING 1'-11" FROM CORNERS.
5) FOUNDATION DIMENSIONS DO NOT INCLUDE BRICK LEDGE UNLESS NOTED. REFER TO NOTE #6 OF GEN. NOTES PAGE 17.



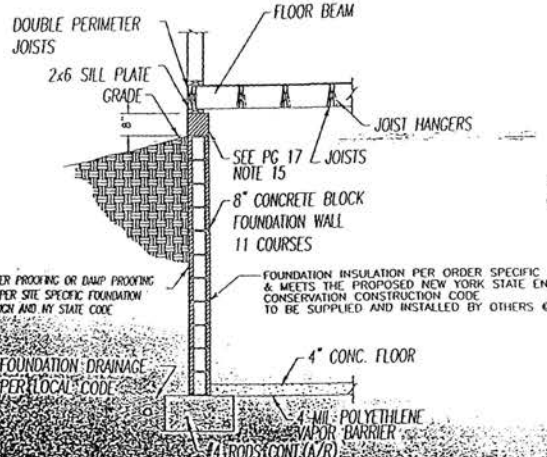
PLAN VIEW
NO SCALE



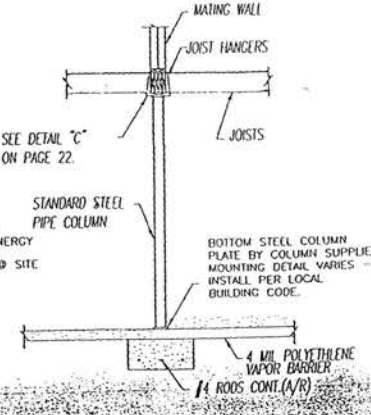
SECTION AA



SECTION BB



SECTION A-A



SECTION B-B

T. R. ARNOLD & ASSOCIATES, INC.
P. O. Box 1081
Elkhart, IN 46515
Seal(s) NA
Accredited Evaluation and Inspection Agency
This document is certified as being in conformance with: 95 CABO 96 NEC
95 CABO MEC
Approved By
Date AUG 2 5 2003
Approval of this document does not authorize or approve any omission or deviation from the requirements of applicable State Laws.

STATE APPROVAL STAMP SPACE

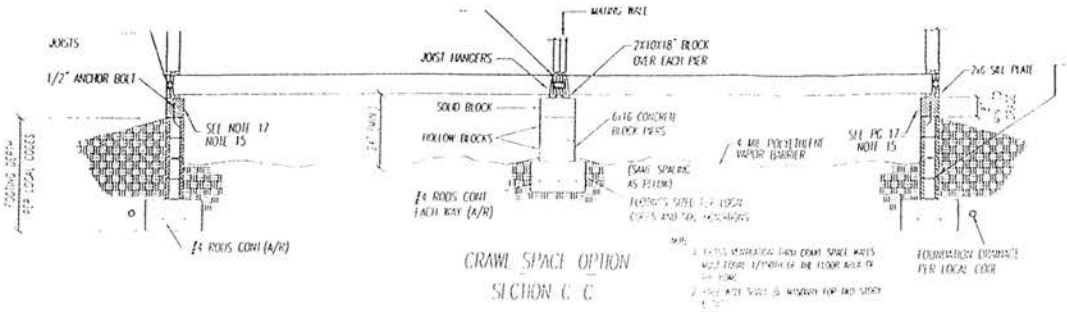
Mike Mac
Zoning Review Board
Zoning Advisor

3C

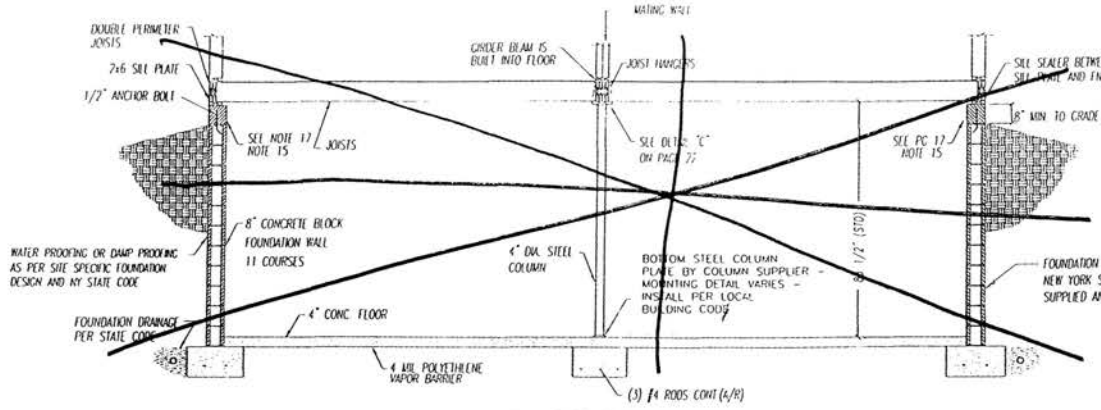
CREST HOMES

REV.	DESCRIPTION	DATE	BY
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B	UPDATED TO N.Y. 2002 CODE	1/13/03	CC

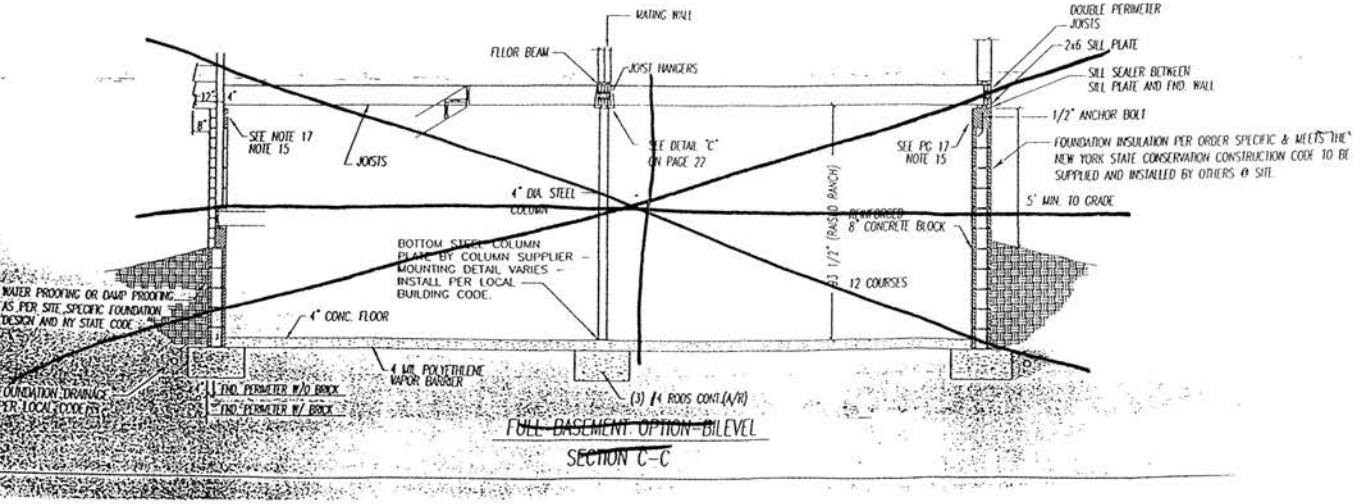
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SERIES:
SCALE: 1/4"=1'-0" DRAWN BY:
ID:



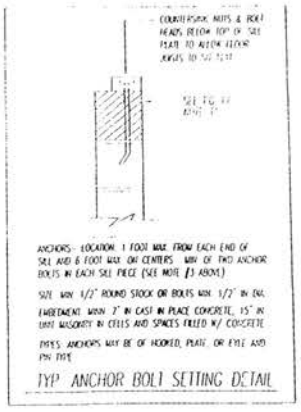
CRAWL SPACE OPTION
SECTION C C



FULL BASEMENT OPTION



FULL BASEMENT OPTION-BILEVEL
SECTION C-C



TYP ANCHOR BOLT SETTING DETAIL

FOUNDATION SECTION

NOTES

1) SEE PAGE [illegible] FOR GENERAL REQUIREMENTS.
2) THE CONCRETE [illegible] ACHIEVED 2000 PSI MINIMUM [illegible] BEARING [illegible] HIGH EXPANSIVE CLAYS, BENCHES, OR [illegible] SUFFICIENT CAPABILITIES, THEREFORE THE [illegible] SHALL BE ENGAGED WITH A [illegible] CERTIFIED [illegible] SUITABLE [illegible] MEETS THE MINIMUM NEEDS.
3) USE MIN. [illegible] ANCHOR BOLT SPACING [illegible] CORNERS.

STATE APPROVAL STAMP SPACE

T. R. ARNOLD & ASSOCIATES, INC.
P. O. Box 1081
[illegible], IN 46515
Re: (1) NA
Area [illegible] Jurisdiction and Inspection Agency
We have found the document is [illegible] to be in conformance with 1995 CABO, 1996 NEC, 1995 CABO MEC
Approved By: [signature]
Date: AUG 2 5 2003
Approval of this document does not authorize or approve any omission or deviation from the requirements of applicable State Laws.

Xoan Mac
Zoning Review Branch
Zoning Division

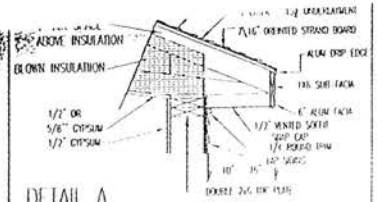
3D

CREST HOMES

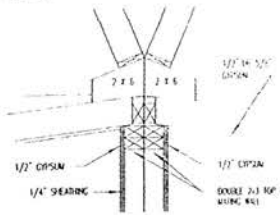
REV	DESCRIPTION	DATE	BY
A	UPDATED TO N.Y. 2002 CODE	1/13/03	CC

TITLE: RANCH/CAPE COD/2-STORY
SERIES: [illegible]
SCALE: N/A DRWN KBY
DATE: 4-10-15-98 HM PC
ENG: NO

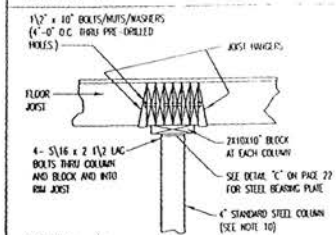
CONSTRUCTION SECTION



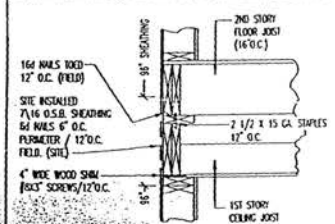
DETAIL A



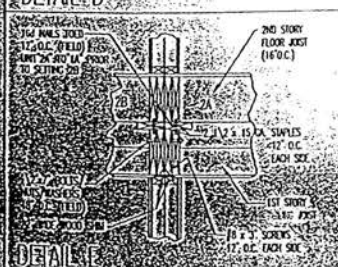
DETAIL B



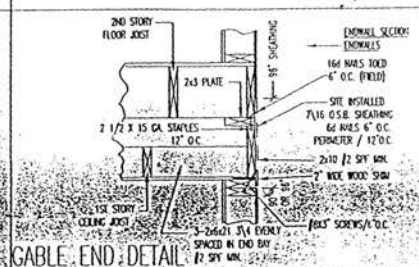
DETAIL C



DETAIL D



DETAIL E



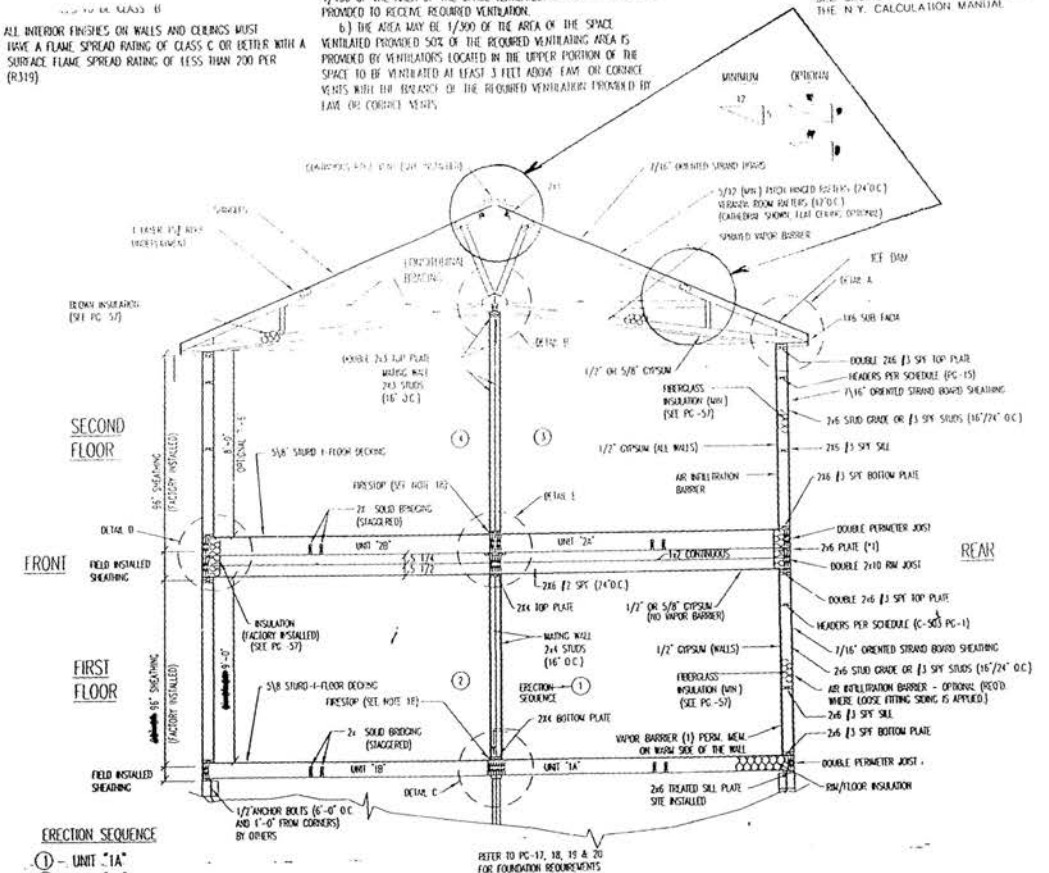
GABLE END DETAIL

2. ALL INTERIOR FINISHES OR WALLS AND CEILINGS MUST HAVE A FLAME SPREAD RATING OF CLASS C OR BETTER WITH A SURFACE FLAME SPREAD RATING OF LESS THAN 200 PER (R319)

1/150 OF THE AREA OF THE SPACE VENTILATED. STATIC VENTS MUST BE PROVIDED TO RECEIVE REQUIRED VENTILATION.

b.) THE AREA MAY BE 1/300 OF THE AREA OF THE SPACE VENTILATED PROVIDED 50% OF THE REQUIRED VENTILATING AREA IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED AT LEAST 3 FEET ABOVE EAVE OR CORNICE VENTS WITH THE BALANCE OF THE REQUIRED VENTILATION PROVIDED BY EAVE OR CORNICE VENTS.

SEE SECTION 10 PAGE 2 & 3 OF 16 OF THE N.Y. CALCULATION MANUAL



ERECTION SEQUENCE

① - UNIT "1A"
② - UNIT "1B"
③ - UNIT "2A"
④ - UNIT "2B"
(*1) 2x6 PLATE (SIDEWALL/MATING WALL
2x3 PLATE (END WALLS)

2●/26/●/● WIDE CROSS SECTION

NOTES

1. All notes stating "in field" or "by owner" are obligations pertaining to dealer and/or builder.
2. All materials for basement stair areas are provided and installed by owner in the field.
3. Roof shingles are factory installed except at ridge and hinge point, which is factory furnished and field installed.
4. All models are manufactured under the same quality control manual.
5. Specifications are available from the manufacturer on request.
6. Any holes, openings, or access provisions for completion or installation of equipment may be made in the field if done without affecting the integrity of the structure.
7. Before joining the two halves of home together, install 1" sill sealer insulation (or equal) along floor line and endwalls of one half only, to seal end modules together.
8. Firestop compound shall be used around all plumbing openings where the floor and ceiling line to provide for firestopping. Other similar openings are to be firestopped also (wiring holes are exempt).
9. Furnace and water heater flues are to be firestopped using metal firestop at floor and ceiling lines per local codes.
10. Not used.
11. Installation of gas vents shall be in accordance with NFPA 211-1992 & NFPA 54-1992.
12. Fireplaces shall be installed in accordance with their listing manufacturers instructions and NFPA 211-1992.
13. Designed for 45# snow zone with trussser at 24" o.c.. Designed for 65# snow zone with trussser at 16" o.c..
14. All interior wall studs and plates are of 2x3 #3 or stud grade SPF 16 inches on center (minimum).
15. Top and bottom chords of trusses shall be of 2x4 #3 SPF material (min).
16. Refer to pg. 57 for insulation requirements.
17. See calculation manual for pre-engineered purchased truss design.
18. Firestopping shall be provided as per section (R321)

STATE APPROVAL STAMP SPACE

T. R. ARNOLD & ASSOCIATES, INC.
P. O. Box 1081
[illegible], IN 4635
Job # NA
Approved Building Evaluation and Inspection Agency
This design is certified as being in conformance with: 95 CABO 96 NEC
95 CABO MEC
Approved By [signature]
Date AUG 2 5 2003
Approval shall not extend to and is void or approve any omission or deviation from the requirements of applicable State Laws.

Xoan Mac
Zoning Review Branch
Zoning Division

4

REV	DESCRIPTION ALL MODELS	DATE	BY
A	UPDATED 30" 2000 IRC	9/9/02	TJ

CREST HOMES

TITLE: TWO STORY SECTION
SERIES: [redacted]
SCALE: VARIES DRWN BY: JSB
DATE: 10-15-98 THIMPC
DWG. NO [redacted]

T. R. ARNOLD & ASSOCIATES, INC.
P. O. Box 1081
Elkhart, IN 46515

Sample) NA
Accepted Evaluation and
Inspection Agency
This document is certified as being in conformance
with 45 CABO WENTC
95 CABO MEC
Approved By [signature]
Date AUG 2 5 2003
Approval of this document does not authorize or approve
any omission or deviation from the requirements of
applicable State Laws.

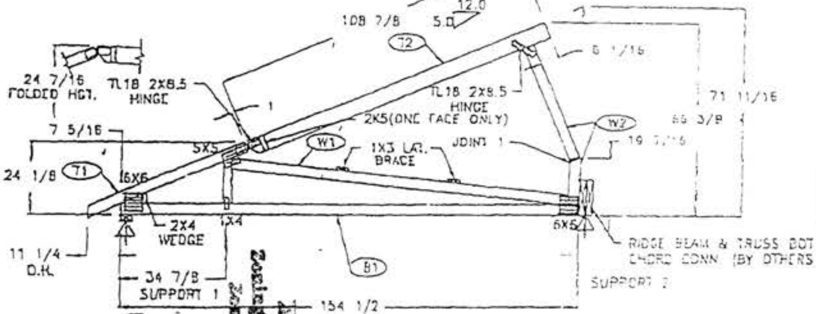
26 W 5/12 ...

NOTES:

1) ALL DIMENSIONS IN INCHES UNLESS NOTED OTHERWISE
2) ALL CONNECTOR PLATES ARE TO BE INSTALLED ON BOTH SIDES UNLESS OTHERWISE INDICATED
3) ALL PLATES TO BE PLACED SYMMETRICALLY ON JOINTS UNLESS NOTED OTHERWISE.
4) PLACE PLATE SO THAT ELONGATED PUNCH HOLES ARE PARALLEL WITH LINES INDICATED ON DRAWING.
5) BEARING ARROW INDICATES 2-1/2" BEARING UNLESS OTHERWISE INDICATED.
6) TOP CHORD OVERHANG AND/OR BOTH ... BACK TO THE HEEL OF THE TRUSS. OVERHANG MAY BE ATTD. AT ANY LENGTH UP TO THE MAXIMUM SHOWN
7) THIS DESIGN ASSUMES THE TOP & BOTTOM CHORDS ARE CONTINUOUSLY BRACED BY PROPERLY APPLIED RIGID SHEATHING (PLYWOOD DECKING OR DRYWALL).
8) TRUSS MEMBERS SHALL NOT BE CUT, DRILLED, SLOTTED, NOTCHED OR OTHERWISE ALTERED WITHOUT WRITTEN APPROVAL OF THE DESIGN ENGINEER
9) INDICATED TRUSS PITCH IS APPROXIMATE. ALWAYS REFER TO THE ACTUAL DIMENSIONS BEFORE CUTTING.
10) PROVISIONS MUST BE MADE TO PREVENT LATERAL MOVEMENT OF THE TOP CHORD DURING TRANSPORTATION. EXTREME CARE MUST BE UTILIZED ROTATING THE TOP CHORD INTO PLACE. TAKE PRECAUTION TO KEEP THE CHORDS IN PLANE. ANY BENDING OR TWISTING OF THE HINGE PLATE MUST BE REPAIRED BEFORE THE BUILDING IS PUT INTO SERVICE
11) TRUSS PRODUCTION MUST BE CONDUCTED UNDER A QUALITY CONTROL PROGRAM ADMINISTERED BY AN INDEPENDENT THIRD PARTY INSPECTION AGENCY.
12) FOR PROPER PERFORMANCE, BUILDER MUST PROVIDE ADEQUATE FIELD CONNECTIONS. SIZE CONNECTIONS TO RESIST THE FORCES SHOWN IN CHARTS AND OR A MINIMUM OF 200# AXIAL FORCE AND SHEAR
13) TRUSSES SHALL BE BRACED ACCORDING TO TPI'S HIB-91. HANDLING, INSTALLING, AND BRACING METAL PLATE CONNECTED WOOD TRUSSES
14) FOR MONO-SLOPED DESIGNS, THE UNBALANCED LOADING CONDITION ASSUMES AN IDENTICAL DESIGN MIRRORED ABOUT THE CENTERLINE TO CREATE A SYMMETRICAL TRUSS.
15) NO SPLITS ALLOWED IN T1
16) KNEE WALL NOT DESIGNED FOR EXPOSURE TO WIND

ASCE 7-98 ... Zone,90 mph,I=1.0,Z=25ft,Exp.C, Enc.Shape,LM. ... Encl. Enclosed
Snow: Ce=1.0, Ct=1.0, I=1.0, Cat. II Bldg.





THIS TRUSS WAS DESIGNED IN ACCORDANCE WITH
1) 1997 NDS & TPI 1-1995
2) 2000 IBC Section 2303.10.7.1;2000 IRC R802.10
3) Sect. 2305.15, 1999 BOCA National Building Code
4)
5)

LUMBER COMPONENTS				MARK
TOP CHD	2X4	NO 2	SPF	(T1)
TOP CHD	2X6	NO 2	SPF	(T2)
BOT CHD	2X4	2100F-1.8E	SPF	(B1)
BOT CHD				(B2)
WEBS	2X4	NO. 2	SPF	(W1)
WEBS	2X4	STUD	SPF	(W2)
WEBS				(W3)
WEBS	2X3	STUD	SPF	OTHERS

GRAVITY LOADS		
	...	15
	45.0	67.5
	7.0	10.5
	20.0	30.0
BOT TC	10.0	15.0

CHART #	AXIAL COMP.	AXIAL TENSION	SHEAR
JOINT 1	572	200	--
JOINT 2	--	--	--
JOINT 3	--	--	--
JOINT 4	--	--	--

CHART B	VERT.	HORIZ.	UPLIFT
SUPPORT 1	1202	200	200
SUPPORT 2	1054	--	200

HUD/IRC BOCA
DATE DRAWN 2/26/02
DRAWN BY TB
SCALE 1/2=1

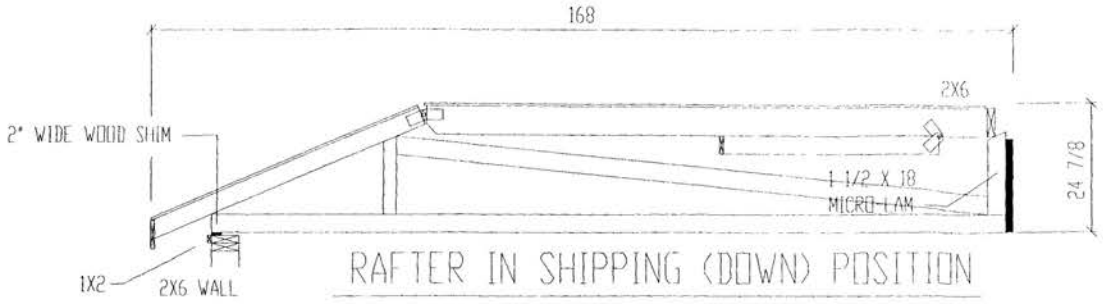
UNIVERSAL FOREST PRODUCTS, INC.
CORPORATE ENGINEERING

DRAWN FOR SCHULT
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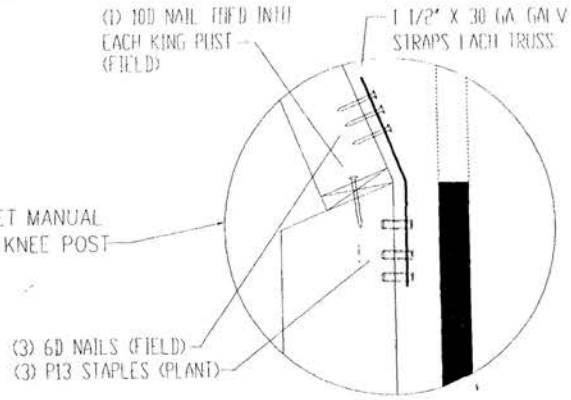
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4

25.89
Replaces HM234BR02
HM44B-205
26 Wide 5/12 Flat



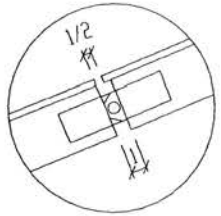
RAFTER IN SHIPPING (DOWN) POSITION



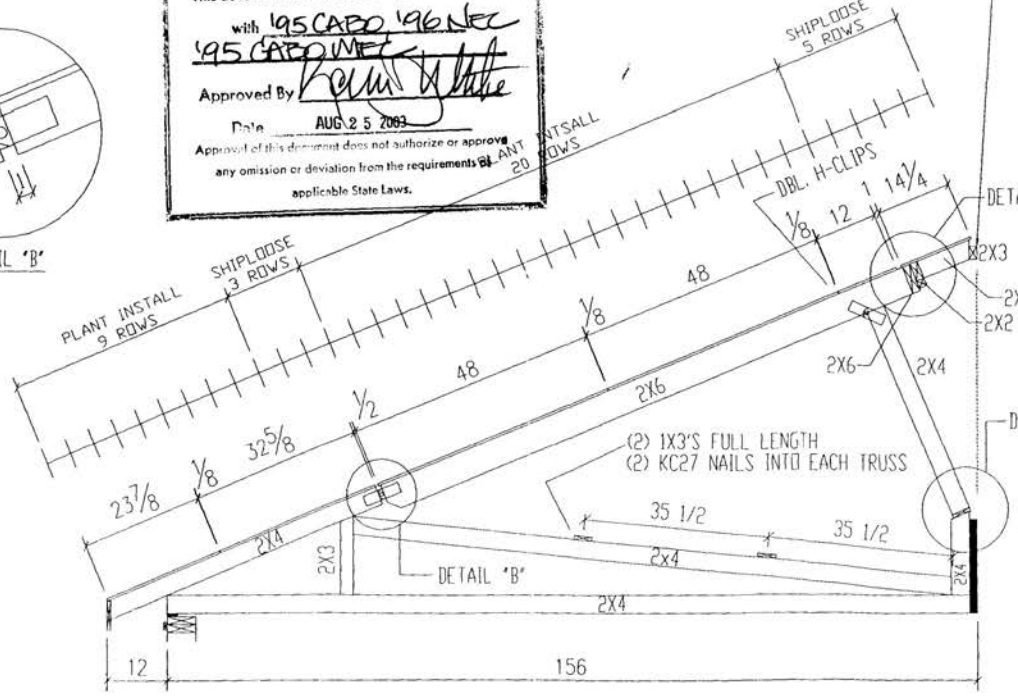
DETAIL "A"

(HINGED KNEE POST CONNECTION)

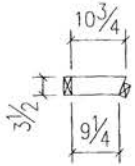
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DETAIL 'B'

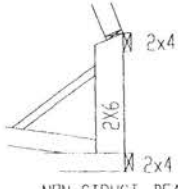


REFER TO SECTION 10 PG. 2 OF 16 OF N.Y. CALCS. MANUAL FOR KEYSTONE FIELD CONNECT.



SHIPLOOSE UPPER FLIP

2x4 CONSTRUCTION
BUILD IN 8'-0" SECTION



NON-STRUCT BEAM



DETAIL "C"

REFER TO SECTION 10 PG. 2 OF 16 OF N.Y. CALCS. MANUAL FOR KEYSTONE FIELD CONNECT.

5A

TRUSS #205

CREST HOMES

SERIAL NUMBER	
5/12 MOD FLAT TRUSS	
MODEL 26W MILTON PLANT	BC 10/21
DWG. NO. TR2051-B	SCALE 1/2"=1'-0"
A REV. SHINGLES, DECKING	9 8/11/23
B ADDED ■ NOTES	BLG 2/26
C REV DECKING	BLG 4/3
D	

CUSTOMER

Xoan Mac
Zoning Review Branch
Zoning Division

FORM\PAPER14

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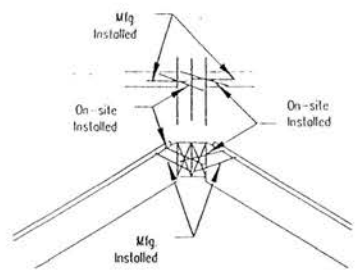
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Fastener Details

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Truss Keystone Field Connections (#3)

@ 24" o.c. $f_c = 274$ lb, $f_t = 86$ lb $f_v = 89$ lb



$f_c = 274\text{lb}$ $f_t = 86\text{lb}$ $f_v = 89\text{lb}$

$f_r := \sqrt{f_t^2 + f_v^2}$ $f_r = 123.762$ lb

$\theta := \operatorname{atan}\left(\frac{f_t}{f_v}\right)$ $\theta = 44.018$ deg

$\beta := 120\text{deg}$ $\alpha := \beta - \theta$ $\alpha = 75.982$ deg

$Z_{field_\alpha_1} := \frac{W_{field_1} \cdot Z_{field_1}}{W_{field_1} \cdot \cos(\alpha)^2 + Z_{field_1} \cdot \sin(\alpha)^2}$ $Z_{field_\alpha_3} = 365$ lb

$Z_{mfg_\alpha_1} := \frac{W_{mfg_1} \cdot Z_{mfg_1}}{W_{mfg_1} \cdot \cos(\alpha)^2 + Z_{mfg_1} \cdot \sin(\alpha)^2}$ $Z_{mfg_\alpha_3} = 133$ lb

Keystone top cord to ridge beam, Mfg install (1) #8 X 4" wood screw
Field install (1) #8 X 4" Wood screws through top cord and both ridge beams

Zoning Review Zoning Inspector

$Z_{field'_\alpha_1} := \frac{W_{field'_1} \cdot Z_{field'_1}}{W_{field'_1} \cdot \cos(\alpha)^2 + Z_{field'_1} \cdot \sin(\alpha)^2}$ $Z_{field'_\alpha_3} = 196$ lb

Truss top cord to ridge beam

$F_r := Z_{field_\alpha_3} + Z_{mfg_\alpha_3}$ $F_r = 497$ lb allowable combined loading

Ridge beam to ridge beam

$F_r := 2 \cdot Z_{field'_\alpha_3}$ $F_r = 392$ lb allowable combined loading

5B

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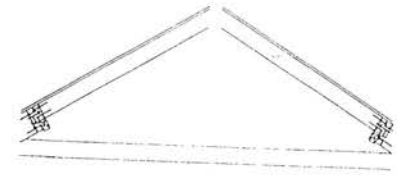
Fastener Details

@ 24" o.c. f_c = 274 lb, f_t = 86 lb f_v = 89 lb

$Z''_{max} := 89lb \cdot \frac{16 \cdot in}{24 \cdot in}$

$Z''_{max} = 59.333\,lb$

$n'' := ceil\left(\frac{Z''_{max}}{Z'_{12_2} \cdot 0.67}\right)$ $n'' = 1$ minimum number fasteners between header(s) and truss cord(s)



Tension Load carried by sheathing.

Truss top cord to header
and keystone top cord to lower header (2) 12d nails end grain
Ledger board to truss header, and truss header
to keystone lower header (1) 12d nail 8" o.c.

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Truss Mating Wall Field Connection (#4)

@ 24" o.c. f_c = 66 lb, f_t = 777 lb

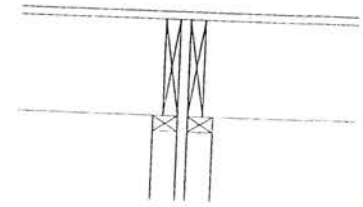
$Z''_{max} := 777lb \cdot \frac{16in}{24in}$ $Z''_{max} = 518\,lb$

Decking 48" wide 5/8" min thickness mailed 4" o.c. edge and field with 8d nails $Z'_{8_2} = 76.289\,lb$

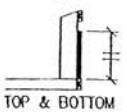
$n_{spacing} := \frac{24in \cdot Z'_{8_2}}{Z''_{max}}$ $n_{spacing} = 4\,in$

$F_{t\,osb} := 1600\frac{lb}{ft}$ $T_{allow} := F_{t\,osb} \cdot 16in$

$T_{allow} = 2.133 \times 10^3\,lb$



5C



TOP & BOTTOM 2x4 DELETED WITH 23 7/8" PLYWOOD BEAM

24' WIDE HOME

MAXIMUM SPAN IN FEET

4LAYERS 3/8" 3 PLY 24/0 PLYWOOD GROUP 1 SPECIES

"H"	47#	67#	89#
11 7/8"	6.5	6	5.5
15 7/8"	9	8	7.5
23 7/8"	13	12	11

26' WIDE HOME

MAXIMUM SPAN IN FEET

4LAYERS 3/8" 3 PLY 24/0 PLYWOOD GROUP 1 SPECIES

"H"	47#	67#	89#
11 7/8"	6.5	5.5	5
15 7/8"	8.5	7.5	7
23 7/8"	13	12	11

27'-6' WIDE HOME

MAXIMUM SPAN IN FEET

4LAYERS 3/8" 3 PLY 24/0 PLYWOOD GROUP 1 SPECIES

"H"	47#	67#	89#
11 7/8"	6	5.5	5
15 7/8"	8.5	7.5	7
23 7/8"	12.5	11.5	10.5

30'-0" WIDE HOME

MAXIMUM SPAN IN FEET

4LAYERS 3/8" 3 PLY 24/0 PLYWOOD GROUP 1 SPECIES

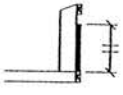
"H"	47#	67#	89#
11 7/8"	6	5.5	5
15 7/8"	8	7	6.5
23 7/8"	12	11	10

31'-6" WIDE HOME

MAXIMUM SPAN IN FEET

4LAYERS 3/8" 3 PLY 24/0 PLYWOOD GROUP 1 SPECIES

"H"	47#	67#	89#
11 7/8"	5.5	5	4.5
15 7/8"	8	7	6.5
23 7/8"	12	10.5	9.5



24' WIDE HOME

MAXIMUM SPAN IN FEET

1 1/2" MICRO-LAM - E=2.0

"H"	47#	67#	89#
9 1/4"	9	8	7.5
12"	11.5	10.5	9.5
18"	17	16	14.5

26' WIDE HOME

MAXIMUM SPAN IN FEET

1 1/2" MICRO-LAM - E=2.0

"H"	47#	67#	89#
9 1/4"	8.5	7.5	7
12"	11	10	9
18"	16.5	15	13.5

27'-6' WIDE HOME

MAXIMUM SPAN IN FEET

1 1/2" MICRO-LAM - E=2.0

"H"	47#	67#	89#
9 1/4"	8	7.5	7
12"	10.5	9.5	9
18"	16	14.5	13.5

30'-0" WIDE HOME

MAXIMUM SPAN IN FEET

1 1/2" MICRO-LAM - E=2.0

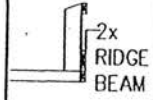
"H"	47#	67#	89#
9 1/4"	8	7	6.5
12"	10	9.5	8.5
18"	15.5	14	13

31'-6" WIDE HOME

MAXIMUM SPAN IN FEET

1 1/2" MICRO-LAM - E=2.0

"H"	47#	67#	89#
9 1/4"	7.5	7	6.5
12"	10	9	8
18"	15	13.5	12.5



24' WIDE HOME

MAXIMUM SPAN IN INCHES

SPF RIDGE BEAM

GR	2x	47#	67#	89#
#3	6	27	24	22
#2	8	35	31	29
#2	10	45	40	36
#2	12	54	49	45

26' WIDE HOME

MAXIMUM SPAN IN INCHES

SPF RIDGE BEAM

GR	2x	47#	67#	89#
#3	6	26	23	21
#2	8	33	30	28
#2	10	42	38	35
#2	12	52	47	42

27'-6' WIDE HOME

MAXIMUM SPAN IN INCHES

SPF RIDGE BEAM

GR	2x	47#	67#	89#
#3	6	25	22	21
#2	8	32	29	27
#2	10	41	37	35
#2	12	50	45	42

30'-0" WIDE HOME

MAXIMUM SPAN IN INCHES

SPF RIDGE BEAM

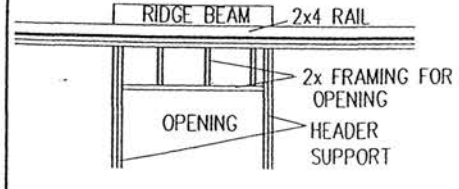
GR	2x	47#	67#	89#
#3	6	24	22	20
#2	8	31	24	26
#2	10	39	36	33
#2	12	48	44	40

31'-6" WIDE HOME

MAXIMUM SPAN IN INCHES

SPF RIDGE BEAM

GR	2x	47#	67#	89#
#3	6	23	21	19
#2	8	30	27	25
#2	10	38	35	32
#2	12	47	42	39



NOTE: WHEN USING RIDGE BEAM IN ROOF, NO HEADER IS REQUIRED IN THE MARRIAGE WALL, EVEN WHEN THE RIDGE BEAM IS A 2x MEMBER OF PROPER SIZE TO SPAN THE OPENING IN THE MARRIAGE WALL.

NOTE: PLYWOOD FOR RIDGE BEAMS TO BE 3/8" C-D PLYWOOD WITH 24/0 SPAN RATING, EXTERIOR GLUE, PS-1, OUTER LAYERS GROUP 1, INNER LAYER GROUP 2

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CREST HOMES

RV	DESCRIPTION	DATE	BY
A	PER NEW YORK 2000 IRC	12/6/02	TJ
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

TITLE: RIDGE BEAMS NON-STORAGE
SERIES: [redacted]
SCALE: 1/2"=1" DRWN. BY: H.G.
DATE: 10-15-98 HM PG:
FILE NAME: 98296-15
DWG NO [redacted] REV

6

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Ridge Beam

Maximum Ridge Beam Span Based on Design Loads

$L'_{20_{w(1..13)}} := L_{20_{w,1}}$ $\quad w'_{w(1..13)} := w_{w,1}$

$L'_{24_{w(1..13)}} := L_{24_{w,1}}$ $\quad width := (12 \;\; 13 \;\; 14 \;\; 15 \;\; 16)\,ft$

$L'_{28_{w(1..13)}} := L_{28_{w,1}}$ $\quad load := (100 \;\; 130 \;\; 160)\,psf$

$L' := \begin{pmatrix} L'_{20} \\ L'_{24} \\ L'_{28} \end{pmatrix}$ $\quad tolerance := 6\cdot in$

$o := 1..5$

$Lridge_{1,o} :=$ for $m \in 1..3$
for $n \in 1..3$
$ridge'_{m,n} \leftarrow linterp\left(w', L'_m, load_{1,n}, \frac{width_{1,o}}{2}\right)$
$ridge_{m,n} \leftarrow ceil\left(\frac{ridge'_{m,n}}{tolerance}\right)\cdot tolerance$ if $ceil\left(\frac{ridge'_{m,n}}{tolerance}\right) \le 1.05\cdot\frac{ridge'_{m,n}}{tolerance}$
$trunc\left(\frac{ridge'_{m,n}}{tolerance}\right)$ otherwise
$Ridge_{1,o} \leftarrow ridge$

$$L_{ridge} = \left[\begin{pmatrix} 19.5 & 17 & 15.5 \\ 23.5 & 20.5 & 18.5 \\ 27.5 & 24 & 21.5 \end{pmatrix} \begin{pmatrix} 19 & 16.5 & 15 \\ 22.5 & 20 & 18 \\ 26.5 & 23 & 21 \end{pmatrix} \begin{pmatrix} 18 & 16 & 14.5 \\ 21.5 & 19 & 17 \\ 25.5 & 22 & 20 \end{pmatrix} \begin{pmatrix} 17.5 & 15.5 & 14 \\ 21 & 18.5 & 16.5 \\ 24.5 & 21.5 & 19.5 \end{pmatrix} \begin{pmatrix} 17 & 15 & 13.5 \\ 20.5 & 18 & 16 \\ 23.5 & 21 & 19 \end{pmatrix}\right] ft$$

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Ridge Beam Maximum Span Based on Ground Snow Load																
LVL Ridge Beam	24" Wide Unit			26" Wide Unit			27" - 6" Wide Unit			30" Wide Unit			31" - 6" Wide Unit		
	45 psf	65 psf	85 psf	45 psf	65 psf	85 psf	45 psf	65 psf	85 psf	45 psf	65 psf	85 psf	45 psf	65 psf	85 psf
1¾" x 20"	19.5 ft	17 ft	15.5 ft	19 ft	16.5 ft	15 ft	18 ft	16 ft	14.5 ft	17.5 ft	15.5 ft	14 ft	17 ft	15 ft	13.5 ft
1¾" x 24"	23.5 ft	20.5 ft	18.5 ft	22.5 ft	20 ft	18 ft	21.5 ft	19 ft	17 ft	21 ft	18.5 ft	16.5 ft	20.5 ft	18 ft	16 ft
1¾" x 28"	27.5 ft	24 ft	21.5 ft	26.5 ft	23 ft	21 ft	25.5 ft	22 ft	20 ft	24.5 ft	21.5 ft	19.5 ft	23.5 ft	21 ft	19 ft

GA

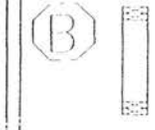
(A)



2-#3 2x6 SPF-FLAT

50% LOAD SHARE	2ND FLOOR(2STORY)/RANCH			1ST FLOOR(2STORY)/CAPE		
	47	67	89	47	67	89
24' WIDE	29	26	24	25	24	22
26' WIDE	29	26	23	25	23	21
28' WIDE	27	25	23	24	23	20
30' WIDE	26	24	22	23	22	20
32' WIDE	26	23	21	23	21	19

(B)

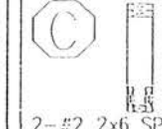


2-#2 2x6 SPF-FLAT

MAXIMUM SPANS FOR HEADER

51.2% LOAD SHARE	2ND FLOOR(2STORY)/RANCH			1ST FLOOR(2STORY)/CAPE		
	47	67	89	47	67	89
24' WIDE	30	27	25	26	25	23
26' WIDE	30	27	24	26	24	22
28' WIDE	28	26	24	25	24	21
30' WIDE	27	25	23	24	23	21
32' WIDE	27	24	22	24	22	20

(C)

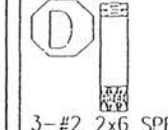


2-#2 2x6 SPF-EDGE
1-#3 2x3 SPF-FILLER

MAXIMUM SPANS FOR HEADER

54% LOAD SHARE	2ND FLOOR(2STORY)/RANCH			1ST FLOOR(2STORY)/CAPE		
	47	67	89	47	67	89
24' WIDE	51	46	42	44	42	38
26' WIDE	49	45	40	43	40	37
28' WIDE	47	43	39	42	39	35
30' WIDE	46	42	38	40	38	34
32' WIDE	45	41	37	39	37	33

(D)

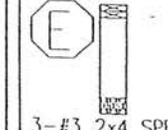


3-#2 2x6 SPF-EDGE
2-FILLERS-OSB

MAXIMUM SPANS FOR HEADER

93.8% LOAD SHARE	2ND FLOOR(2STORY)/RANCH			1ST FLOOR(2STORY)/CAPE		
	47	67	89	47	67	89
24' WIDE	61	55	50	53	50	46
26' WIDE	59	54	48	52	48	44
28' WIDE	57	52	47	50	47	42
30' WIDE	55	50	46	48	46	41
32' WIDE	54	49	44	47	44	40

(E)

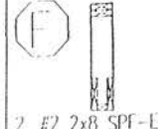


3-#3 2x4 SPF-EDGE
2-FILLERS-OSB

MAXIMUM SPANS FOR HEADER

83.6% LOAD SHARE	2ND FLOOR(2STORY)/RANCH			1ST FLOOR(2STORY)/CAPE		
	47	67	89	47	67	89
24' WIDE	34	30	28	29	28	25
26' WIDE	33	30	27	29	27	25
28' WIDE	31	29	26	28	26	23
30' WIDE	30	28	25	27	25	23
32' WIDE	30	27	25	26	25	22

(F)



2-#2 2x8 SPF-EDGE
1-#3 2x3 SPF-FILLER

MAXIMUM SPANS FOR HEADER

97.3% LOAD SHARE	2ND FLOOR(2STORY)/RANCH			1ST FLOOR(2STORY)/CAPE		
	47	67	89	47	67	89
24' WIDE	63	57	52	55	52	47
26' WIDE	61	56	50	54	50	46
28' WIDE	59	54	48	52	48	43
30' WIDE	57	52	47	50	47	42
32' WIDE	56	51	46	48	46	41

(G)

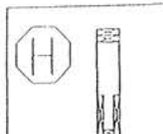


3-#2 2x8 SPF-EDGE
2-FILLERS-OSB

MAXIMUM SPANS FOR HEADER

98.1% LOAD SHARE	2ND FLOOR(2STORY)/RANCH			1ST FLOOR(2STORY)/CAPE		
	47	67	89	47	67	89
24' WIDE	76	70	63	67	63	57
26' WIDE	74	68	60	65	60	55
28' WIDE	72	65	59	63	59	53
30' WIDE	70	63	57	60	57	51
32' WIDE	68	61	55	59	55	50

(H)

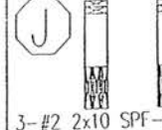


2-#2 2x10 SPF-EDGE
1-#3 2x3 SPF-FILLER

MAXIMUM SPANS FOR HEADER

98.6% LOAD SHARE	2ND FLOOR(2STORY)/RANCH			1ST FLOOR(2STORY)/CAPE		
	47	67	89	47	67	89
24' WIDE	76	69	62	66	62	57
26' WIDE	74	67	60	65	60	55
28' WIDE	71	65	58	62	58	53
30' WIDE	69	63	57	60	57	51
32' WIDE	67	61	55	58	55	50

(J)



3-#2 2x10 SPF-EDGE
2-FILLERS-OSB

MAXIMUM SPANS FOR HEADER

99.1% LOAD SHARE	2ND FLOOR(2STORY)/RANCH			1ST FLOOR(2STORY)/CAPE		
	47	67	89	47	67	89
24' WIDE	93	85	76	81	76	69
26' WIDE	90	82	73	79	73	67
28' WIDE	87	79	71	76	71	64
30' WIDE	84	77	69	73	69	63
32' WIDE	82	74	67	71	67	61

MAXIMUM HEADER SPANS FOR SINGLE JACK STUD

	2ND FLOOR(2STORY)/RANCH			1ST FLOOR(2STORY)/CAPE		
	47	67	89	47	67	89
24' WIDE	178"	148"	117"	124"	102"	81"
26' WIDE	165"	137"	108"	115"	94"	74"
28' WIDE	154"	128"	101"	106"	88"	69"
30' WIDE	144"	119"	94"	99"	82"	64"
32' WIDE	135"	112"	87"	93"	77"	59"

JACK STUDS ARE 2x6 STUD GRADE [redacted]

NON-STORAGE ARE STANDARD TRUSSES WITH DIAGONAL COMPRESSION MEMBER FROM HINGE TO KNEEWALL
STORAGE TRUSSES HAVE 2x10 BOTTOM CHORD, WITH 30PSF STORAGE AREA BETWEEN KNEEWALLS
ALL HEADERS LAMINATED WITH PVA GLUE BETWEEN ALL MEMBERS, EXCEPT TOP PLATES

STATE APPROVAL STAMP SPACE

T. R. ARNOLD & ASSOCIATES, INC.
P. O. Box 1981
[illegible], IN 46515
Accepted Evaluation and Inspection Agency
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Zoning Review Branch
Zoning Division

7

CREST HOMES

RV	DESCRIPTION	DATE	BY
		-	-
		-	-
		-	-
		-	-
		-	-

TITLE: HEADER SPANS
SERIES: [redacted]
SCALE: 3/8"=12" DRWN BY: RLG
DATE: 10-15-98 JOB TYP:
FILE NAME: 98926-15
JOB NO [redacted] G-15.1) REV

PE PROGRESSIVE ENGINEERING, INC.
Architectural • Engineering • Review Agency • Surveying • Testing

Telephone (219) 533-0337
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58640 STATE ROAD 15
GOSHEN, INDIANA 46528

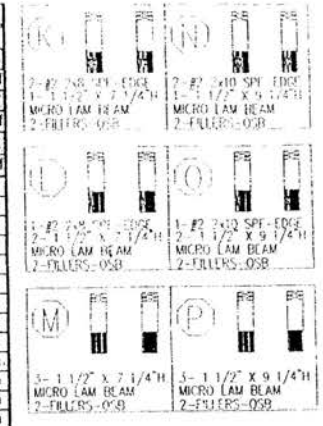
PROPRIETARY & CONFIDENTIAL

Crest Homes

LVL Headers

2 x 8 Header Maximum Span Based on Ground Snow Load

Side Wall Header	Unit Width	2nd Fl (2 Story)/Ranch			1st Fl (2 Story)/Cape			1st Fl (2 Story)/Cape		
		Ground Snow Load			Ground Snow Load			Ground Snow Load		
		45 psf	65 psf	85 psf	45 psf	65 psf	85 psf	45 psf	65 psf	85 psf
		Roof Snow Load			Roof Snow Load			Roof Snow Load		
		52 psf	75 psf	98 psf	52 psf	75 psf	98 psf	52 psf	75 psf	98 psf
		2nd Floor Live Load			2nd Floor Live Load			2nd Floor Live Load		
		0 psf	0 psf	0 psf	30 psf	30 psf	30 psf	40 psf	40 psf	40 psf
(2) 2 x 8 SPF #2 (1) 1½" x 7¼" LVL	24 ft	96 in	85 in	77 in	74 in	65 in	58 in	71 in	61 in	57 in
	26 ft	93 in	82 in	74 in	71 in	61 in	56 in	66 in	58 in	55 in
	28 ft	90 in	79 in	71 in	66 in	58 in	54 in	62 in	56 in	53 in
	30 ft	87 in	77 in	67 in	62 in	56 in	53 in	59 in	55 in	51 in
	32 ft	85 in	75 in	63 in	60 in	55 in	51 in	57 in	53 in	50 in
(1) 2 x 8 SPF #2 (2) 1½" x 7¼" LVL	24 ft	109 in	100 in	94 in	92 in	87 in	82 in	90 in	85 in	80 in
	26 ft	107 in	98 in	92 in	90 in	85 in	79 in	88 in	82 in	77 in
	28 ft	104 in	96 in	90 in	88 in	82 in	77 in	85 in	80 in	75 in
	30 ft	102 in	94 in	88 in	86 in	80 in	74 in	83 in	77 in	72 in
	32 ft	100 in	92 in	86 in	84 in	77 in	72 in	81 in	75 in	70 in
(0) 2 x 8 SPF #2 (3) 1½" x 7¼" LVL	24 ft	125 in	115 in	108 in	105 in	100 in	95 in	103 in	98 in	94 in
	26 ft	122 in	112 in	105 in	103 in	98 in	93 in	100 in	96 in	92 in
	28 ft	119 in	110 in	103 in	101 in	96 in	91 in	98 in	94 in	90 in
	30 ft	117 in	108 in	101 in	99 in	94 in	90 in	96 in	92 in	88 in
	32 ft	115 in	106 in	99 in	97 in	92 in	88 in	94 in	90 in	86 in
(2) 2 x 10 SPF #2 (1) 1½" x 9¼" LVL	24 ft	117 in	104 in	94 in	91 in	83 in	74 in	87 in	78 in	72 in
	26 ft	113 in	100 in	91 in	87 in	77 in	71 in	84 in	74 in	70 in
	28 ft	110 in	97 in	88 in	84 in	74 in	69 in	79 in	72 in	67 in
	30 ft	106 in	94 in	85 in	80 in	72 in	67 in	75 in	70 in	65 in
	32 ft	103 in	91 in	80 in	76 in	70 in	65 in	73 in	68 in	63 in
(1) 2 x 10 SPF #2 (2) 1½" x 9¼" LVL	24 ft	139 in	128 in	120 in	117 in	111 in	104 in	114 in	108 in	102 in
	26 ft	136 in	125 in	117 in	114 in	108 in	101 in	112 in	105 in	98 in
	28 ft	133 in	122 in	115 in	112 in	104 in	98 in	109 in	101 in	95 in
	30 ft	130 in	120 in	112 in	109 in	101 in	95 in	106 in	98 in	92 in
	32 ft	128 in	118 in	110 in	106 in	98 in	92 in	103 in	96 in	90 in
(0) 2 x 10 SPF #2 (3) 1½" x 9¼" LVL	24 ft	159 in	146 in	137 in	134 in	127 in	122 in	131 in	125 in	120 in
	26 ft	155 in	143 in	134 in	131 in	124 in	119 in	128 in	122 in	117 in
	28 ft	152 in	140 in	131 in	128 in	122 in	116 in	125 in	119 in	114 in
	30 ft	149 in	137 in	128 in	126 in	119 in	114 in	123 in	117 in	112 in
	32 ft	146 in	135 in	126 in	123 in	117 in	112 in	120 in	115 in	110 in



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7A

Timothy O. Bethards

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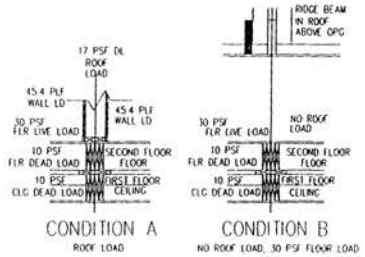
PROPRIETARY & CONFIDENTIAL

Crest Homes

Two Story Mate Wall Spans

Two Story Mate Wall Maximum Span Based on Ground Snow Load and 30 psf Floor Live Load

Width		24' Wide Unit			26' Wide Unit			28' Wide Unit			30' Wide Unit			32' Wide Unit		
Ground Snow		45 psf	65 psf	85 psf	45 psf	65 psf	85 psf	45 psf	65 psf	85 psf	45 psf	65 psf	85 psf	45 psf	65 psf	85 psf
Roof Snow Load		52 psf	75 psf	98 psf			98 psf	52 psf	75 psf	98 psf	52 psf	75 psf	98 psf	52 psf	75 psf	98 psf
Total Ld/Half (plf)		879	1017	1155	949	1098	1248	1001	1159	1317	1088	1260	1433	1140	1321	1502
Live Ld/Half (plf)		612	750	888	663	813	962	701	859	1018	765	938	1110	803	984	1166
Conditions of Loading	1	102 in	92 in	81 in	97 in	85 in	75 in	94 in	81 in	71 in	86 in	75 in	66 in	82 in	71 in	63 in
	2	150 in	140 in	132 in	146 in	136 in	129 in	143 in	134 in	126 in	139 in	130 in	123 in	137 in	128 in	121 in
	3	117 in	109 in	103 in	113 in	105 in	99 in	110 in	102 in	96 in	106 in	98 in	92 in	103 in	96 in	90 in
	4	146 in	136 in	129 in	142 in	133 in	125 in	139 in	130 in	123 in	135 in	127 in	120 in	133 in	124 in	118 in
	5	125 in	116 in	109 in	121 in	112 in	105 in	117 in	109 in	102 in	113 in	105 in	97 in	110 in	102 in	94 in
	6	171 in	160 in	151 in	167 in	156 in	147 in	164 in	153 in	145 in	159 in	149 in	140 in	156 in	146 in	138 in
	7	154 in	143 in	135 in	148 in	138 in	129 in	144 in	134 in	126 in	139 in	129 in	121 in	135 in	126 in	118 in
	8	168 in	157 in	149 in	164 in	153 in	145 in	161 in	150 in	142 in	156 in	146 in	138 in	154 in	144 in	136 in
Total Ld/Half (plf)		300			325			344			375			394		
Live Ld/Half (plf)		180			195			206			225			236		
Conditions of Roof Loading	1	159 in			156 in			154 in			150 in			148 in		
	2	190 in			189 in			188 in			186 in			185 in		
	3	180 in			179 in			177 in			172 in			170 in		
	4	185 in			184 in			183 in			181 in			180 in		
	5	193 in			191 in			188 in			184 in			181 in		
	6	217 in			216 in			215 in			213 in			211 in		
	7	206 in			204 in			203 in			201 in			200 in		
	8	214 in			212 in			211 in			209 in			208 in		



ID#	MATERIAL SPECIFICATIONS EACH HALF	LOAD SHARE %
1	(2)2x10 #2 SPF FLOOR BANDS (2)2x10 #2 SPF CEILING BANDS	50 50
2	(2)1.5x9.25 2.0 LVL FLOOR BANDS (2)1.5x9.25 2.0 LVL CEILING BANDS	50 50
3	(2)2x10 #2 SPF FLOOR BANDS (2)1.5x9.25 2.0 LVL CEILING BANDS	41.4 58.6
4	(1)2x10 #2 SPF FLOOR BAND (1)1.5x9.25 2.0 LVL FLOOR BAND (2)1.5x9.25 2.0 LVL CEILING BANDS	18.9 27.0 54.1
5	(3)2x10 #2 SPF FLOOR BANDS (3)2x10 #2 SPF CEILING BANDS	50 50
6	(3)1.5x9.25 2.0 LVL FLOOR BANDS (3)1.5x9.25 2.0 LVL CEILING BANDS	50 50
7	(3)2x10 #2 SPF FLOOR BANDS (3)1.5x9.25 2.0 LVL CEILING BANDS	41.4 58.6
8	(1)2x10 #2 SPF FLOOR BAND (2)1.5x9.25 2.0 LVL FLOOR BAND (3)1.5x9.25 2.0 LVL CEILING BANDS	12.3 35.1 52.6

Note Assumes No Splice in Clear Span

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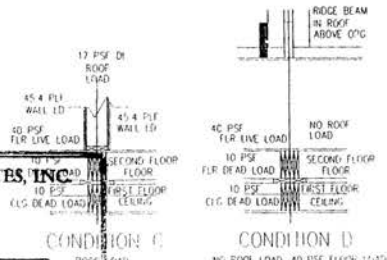
PROPRIETARY & CONFIDENTIAL

Crest Homes

Two Story Mate Wall Spans

Two Story Mate Wall Maximum Span Based on Ground Snow Load and 40 psf Floor Live Load

Width		24' Wide Unit			26' Wide Unit			28' Wide Unit			30' Wide Unit			32' Wide Unit		
Ground Snow		45 psf	65 psf	85 psf	45 psf	65 psf	85 psf	45 psf	65 psf	85 psf	45 psf	65 psf	85 psf	45 psf	65 psf	85 psf
Roof Snow Load		52 psf	75 psf	98 psf	52 psf	75 psf	98 psf	52 psf	75 psf	98 psf	52 psf	75 psf	98 psf	52 psf	75 psf	98 psf
Total Ld/Half (plf)		939	1077	1215	1014	1163	1313	1070	1228	1386	1163	1335	1508	1219	1400	1581
Live Ld/Half (plf)		672	810	948	728	878	1027	770	928	1086	840	1013	1185	882	1063	1244
Conditions of Loading	1	98 in	87 in	77 in	93 in	81 in	72 in	88 in	77 in	68 in	81 in	70 in	62 in	77 in	67 in	60 in
	2	145 in	136 in	129 in	141 in	133 in	126 in	139 in	130 in	124 in	135 in	127 in	120 in	133 in	125 in	118 in
	3	114 in	106 in	100 in	109 in	102 in	96 in	107 in	99 in	94 in	102 in	95 in	90 in	100 in	93 in	88 in
	4	141 in	133 in	126 in	138 in	129 in	123 in	135 in	127 in	120 in	131 in	123 in	117 in	129 in	121 in	115 in
	5	121 in	113 in	106 in	117 in	109 in	102 in	113 in	106 in	100 in	109 in	102 in	93 in	106 in	99 in	89 in
	6	166 in	156 in	148 in	162 in	152 in	144 in	159 in	149 in	141 in	154 in	145 in	137 in	152 in	142 in	135 in
	7	149 in	139 in	131 in	144 in	134 in	126 in	140 in	130 in	123 in	134 in	125 in	118 in	131 in	122 in	115 in
	8	163 in	153 in	146 in	159 in	149 in	142 in	156 in	147 in	139 in	152 in	142 in	135 in	149 in	140 in	133 in
Total Ld/Half (plf)		360			390			413			450			473		
Live Ld/Half (plf)		240			260			275			300			315		
Conditions of Roof Loading	1	152 in			148 in			146 in			141 in			139 in		
	2	184 in			182 in			181 in			179 in			177 in		
	3	174 in			170 in			167 in			162 in			159 in		
	4	180 in			178 in			176 in			174 in			173 in		
	5	186 in			181 in			178 in			173 in			170 in		
	6	211 in			209 in			207 in			205 in			203 in		
	7	200 in			198 in			196 in			194 in			192 in		
	8	207 in			205 in			204 in			201 in			199 in		



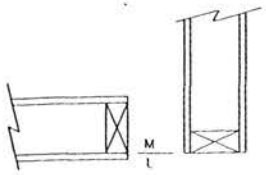
ID#	MATERIAL SPECIFICATIONS EACH HALF	LOAD SHARE %
1	(2)2x10 #2 SPF FLOOR BANDS (2)2x10 #2 SPF CEILING BANDS	50 50
2	(2)1.5x9.25 2.0 LVL FLOOR BANDS (2)1.5x9.25 2.0 LVL CEILING BANDS	50 50
3	(2)2x10 #2 SPF FLOOR BANDS (2)1.5x9.25 2.0 LVL CEILING BANDS	41.4 58.6
4	(1)2x10 #2 SPF FLOOR BAND (1)1.5x9.25 2.0 LVL FLOOR BAND (2)1.5x9.25 2.0 LVL CEILING BANDS	18.9 27.0 54.1
5	(3)2x10 #2 SPF FLOOR BANDS (3)2x10 #2 SPF CEILING BANDS	50 50
6	(3)1.5x9.25 2.0 LVL FLOOR BANDS (3)1.5x9.25 2.0 LVL CEILING BANDS	50 50
7	(3)2x10 #2 SPF FLOOR BANDS (3)1.5x9.25 2.0 LVL CEILING BANDS	41.4 58.6
8	(1)2x10 #2 SPF FLOOR BAND (2)1.5x9.25 2.0 LVL FLOOR BAND (3)1.5x9.25 2.0 LVL CEILING BANDS	12.3 35.1 52.6

Note Assumes No Splice in Clear Span

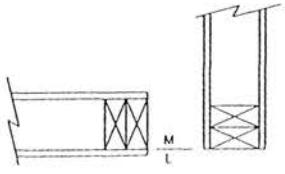
Zoning Review Stamp
Zoning Division

8

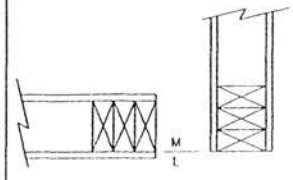
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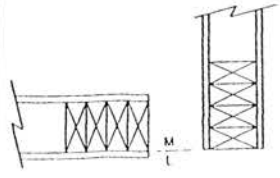
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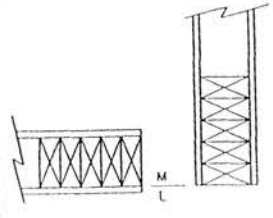
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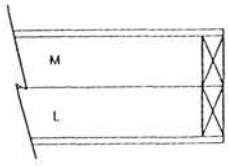
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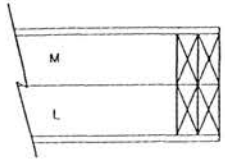
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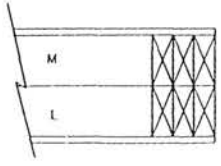
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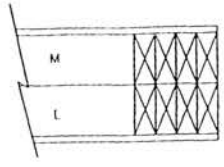
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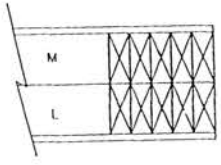
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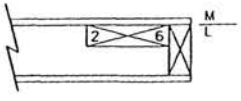
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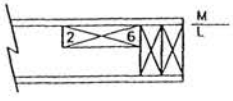
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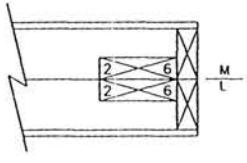
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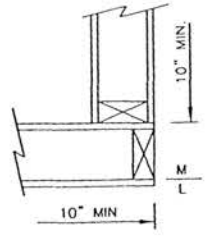
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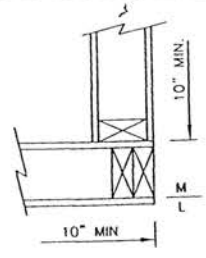
CONFIGURATION 12



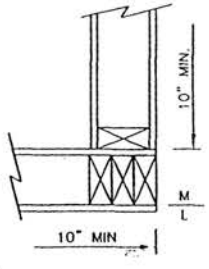
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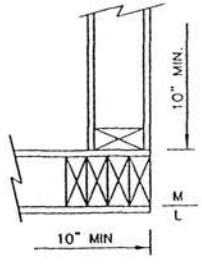
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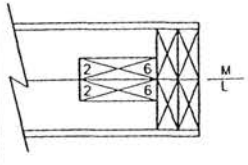
CONFIGURATION 15



CONFIGURATION 16



CONFIGURATION 17



CONFIGURATION 18

STATE APPROVAL STAMP SPACE

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9

CREST HOMES

REV	DESCRIPTION	DATE	BY

TITLE: COLUMN DETAILS
SERIES: [redacted]
SCALE: -
DRWN. BY: T.C.
DATE: 10-15-98
HIM PG:
REV
DWG. NO. [redacted]

CONSTRUCTION SECTION

MATING WALL RIDGE BEAM COLUMN SUPPORT SPANS FOR: 2x3 STUD / #3 SPF

CONFIGURATION/ UNIT WIDTH (FT.)	45 PSF GROUND SNOW LOAD	65 PSF GROUND SNOW LOAD	85 PSF GROUND SNOW LOAD
#1 / 24W	1'-4"	NA	NA
#1 / 26W	1'-1"	NA	NA
#1 / 28W	NA	NA	NA
#1 / 30W	NA	NA	NA
#1 / 32W	NA	NA	NA
#2 / 24W	5'-4"	3'-9"	2'-10"
#2 / 26W	4'-9"	3'-4"	2'-6"
#2 / 28W	4'-4"	3'-0"	2'-2"
#2 / 30W	4'-0"	2'-9"	2'-0"
#2 / 32W	3'-8"	2'-6"	1'-9"
#3 / 24W	10'-0"	7'-4"	5'-9"
#3 / 26W	9'-1"	6'-8"	5'-2"
#3 / 28W	8'-4"	6'-1"	4'-8"
#3 / 30W	7'-8"	5'-7"	4'-4"
#3 / 32W	7'-2"	5'-2"	3'-11"
#4 / 24W	14'-0"	10'-5"	8'-2"
#4 / 26W	12'-9"	9'-6"	7'-6"
#4 / 28W	11'-9"	8'-9"	6'-10"
#4 / 30W	10'-11"	8'-1"	6'-4"
#4 / 32W	10'-2"	7'-6"	5'-10"
#5 / 24W	18'-8"	14'-0"	11'-2"
#5 / 26W	17'-1"	12'-10"	10'-2"
#5 / 28W	15'-9"	11'-10"	9'-4"
#5 / 30W	14'-8"	10'-11"	8'-8"
#5 / 32W	13'-8"	10'-2"	8'-0"
#10 / 24W	11'-4"	8'-4"	6'-6"
#10 / 26W	10'-4"	7'-7"	5'-11"
#10 / 28W	9'-6"	7'-0"	5'-5"
#10 / 30W	8'-9"	6'-5"	5'-0"
#10 / 32W	8'-2"	5'-11"	4'-7"
#20 / 24W	26'-0"	19'-8"	15'-9"
#20 / 26W	23'-10"	18'-0"	14'-5"
#20 / 28W	22'-1"	16'-8"	13'-3"
#20 / 30W	20'-6"	15'-5"	12'-4"
#20 / 32W	19'-1"	14'-5"	11'-5"
#30 / 24W	40'-0"	30'-5"	24'-6"
#30 / 26W	36'-9"	28'-0"	22'-6"
#30 / 28W	34'-1"	25'-11"	20'-9"
#30 / 30W	31'-8"	24'-1"	19'-4"
#30 / 32W	29'-8"	22'-6"	18'-0"

MATING WALL RIDGE BEAM COLUMN SUPPORT SPANS FOR: 2x3 STUD / #3 SPF

CONFIGURATION/ UNIT WIDTH (FT.)	45 PSF GROUND SNOW LOAD	65 PSF GROUND SNOW LOAD	85 PSF GROUND SNOW LOAD
#40 / 24W	54'-8"	41'-8"	33'-8"
#40 / 26W	50'-4"	38'-5"	30'-11"
#40 / 28W	46'-8"	35'-7"	28'-8"
#40 / 30W	43'-5"	33'-1"	26'-8"
#40 / 32W	40'-8"	30'-11"	24'-11"
#50 / 24W	68'-8"	52'-6"	42'-5"
#50 / 26W	63'-3"	48'-4"	39'-0"
#50 / 28W	58'-8"	44'-9"	36'-2"
#50 / 30W	54'-8"	41'-8"	33'-8"
#50 / 32W	51'-2"	39'-0"	31'-5"
#11 / 24W	10'-8"	7'-10"	6'-2"
#11 / 26W	9'-8"	7'-2"	5'-7"
#11 / 28W	8'-11"	6'-6"	5'-1"
#11 / 30W	8'-3"	6'-0"	4'-8"
#11 / 32W	7'-8"	5'-7"	4'-3"
#12 / 24W	15'-4"	11'-5"	9'-1"
#12 / 26W	14'-0"	10'-6"	8'-3"
#12 / 28W	12'-11"	9'-7"	7'-7"
#12 / 30W	12'-0"	8'-11"	7'-0"
#12 / 32W	11'-2"	8'-3"	6'-5"
#13 / 24W	42'-8"	32'-6"	26'-2"
#13 / 26W	39'-3"	29'-10"	24'-0"
#13 / 28W	36'-4"	27'-8"	22'-2"
#13 / 30W	33'-10"	25'-8"	20'-8"
#13 / 32W	31'-8"	24'-0"	19'-3"
#14 / 24W	42'-0"	32'-0"	25'-9"
#14 / 26W	38'-8"	29'-5"	23'-8"
#14 / 28W	35'-9"	27'-2"	21'-10"
#14 / 30W	33'-4"	25'-4"	20'-4"
#14 / 32W	31'-2"	23'-8"	18'-11"
#15 / 24W	63'-3"	48'-4"	39'-1"
#15 / 26W	58'-4"	44'-7"	35'-11"
#15 / 28W	54'-1"	41'-3"	33'-3"
#15 / 30W	50'-4"	38'-5"	31'-0"
#15 / 32W	47'-1"	35'-11"	28'-11"
#16 / 24W	85'-4"	65'-4"	52'-10"
#16 / 26W	78'-8"	60'-2"	48'-8"
#16 / 28W	72'-11"	55'-9"	45'-1"
#16 / 30W	68'-0"	52'-0"	42'-0"
#16 / 32W	63'-8"	48'-8"	39'-3"

MATING WALL RIDGE BEAM COLUMN SUPPORT SPANS FOR: 2x3 STUD / #3 SPF

CONFIGURATION/ UNIT WIDTH (FT.)	45 PSF GROUND SNOW LOAD	65 PSF GROUND SNOW LOAD	85 PSF GROUND SNOW LOAD
#17 / 24W	102'-4"	82'-3"	66'-7"
#17 / 26W	98'-11"	75'-9"	61'-4"
#17 / 28W	91'-9"	70'-3"	56'-10"
#17 / 30W	85'-7"	65'-6"	53'-0"
#17 / 32W	80'-2"	61'-4"	49'-7"
#18 / 24W	57'-4"	43'-9"	35'-4"
#18 / 26W	52'-9"	40'-3"	32'-6"
#18 / 28W	48'-11"	37'-4"	30'-1"
#18 / 30W	45'-7"	34'-9"	28'-0"
#18 / 32W	42'-8"	32'-6"	26'-2"

MATING WALL RIDGE BEAM COLUMN SUPPORT SPANS FOR: 2x4 STUD / #3 SPF

CONFIGURATION/ UNIT WIDTH (FT.)	45 PSF GROUND SNOW LOAD	65 PSF GROUND SNOW LOAD	85 PSF GROUND SNOW LOAD
#1 / 24W	8'-0"	5'-10"	4'-6"
#1 / 26W	7'-3"	5'-3"	4'-0"
#1 / 28W	6'-8"	4'-9"	3'-8"
#1 / 30W	6'-1"	4'-4"	3'-3"
#1 / 32W	5'-7"	4'-0"	3'-0"
#2 / 24W	19'-4"	14'-6"	11'-7"
#2 / 26W	17'-8"	13'-4"	10'-7"
#2 / 28W	16'-4"	12'-3"	9'-8"
#2 / 30W	15'-2"	11'-4"	9'-0"
#2 / 32W	14'-2"	10'-7"	8'-4"
#3 / 24W	30'-8"	23'-3"	18'-8"
#3 / 26W	28'-2"	21'-4"	17'-1"
#3 / 28W	26'-1"	19'-9"	15'-9"
#3 / 30W	24'-3"	18'-4"	14'-8"
#3 / 32W	22'-8"	17'-1"	13'-8"
#4 / 24W	42'-8"	32'-6"	26'-2"
#4 / 26W	39'-3"	29'-10"	24'-0"
#4 / 28W	36'-4"	27'-8"	22'-2"
#4 / 30W	33'-10"	25'-8"	20'-8"
#4 / 32W	31'-8"	24'-0"	19'-3"

MATING WALL RIDGE BEAM COLUMN SUPPORT SPANS FOR: 2x6 STUD / #3 SPF

CONFIGURATION/ UNIT WIDTH (FT.)	45 PSF GROUND SNOW LOAD	65 PSF GROUND SNOW LOAD	85 PSF GROUND SNOW LOAD
#1 / 24W	30'-0"	22'-9"	18'-3"
#1 / 26W	27'-7"	20'-10"	16'-8"
#1 / 28W	25'-6"	19'-3"	15'-5"
#1 / 30W	23'-8"	17'-11"	14'-4"
#1 / 32W	22'-2"	16'-8"	13'-4"
#2 / 24W	64'-0"	48'-11"	39'-6"
#2 / 26W	58'-11"	45'-0"	36'-4"
#2 / 28W	54'-8"	41'-8"	33'-8"
#2 / 30W	50'-11"	38'-10"	31'-4"
#2 / 32W	47'-8"	36'-4"	29'-3"
#3 / 24W	97'-4"	74'-6"	60'-4"
#3 / 26W	89'-8"	68'-8"	55'-7"
#3 / 28W	83'-2"	63'-8"	51'-6"
#3 / 30W	77'-7"	59'-4"	48'-0"
#3 / 32W	72'-8"	55'-7"	44'-11"

STATE APPROVAL STAMP SPACE

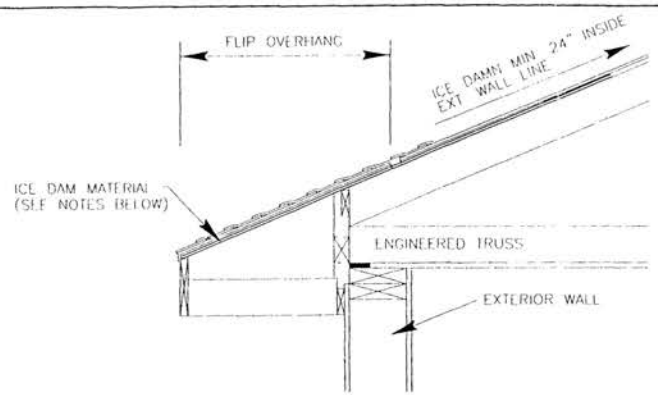
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9A

CREST HOMES

REV	DESCRIPTION	DATE	BY

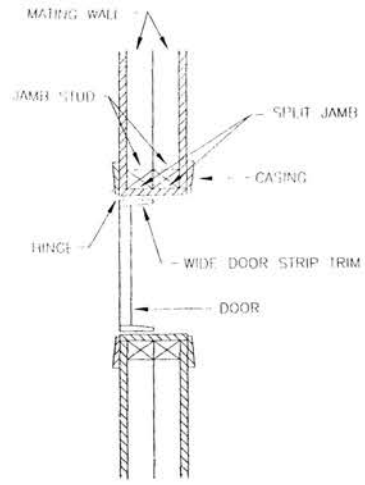
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SERIES: [redacted]
SCALE: -
DRWN. BY: T.C.
DATE: 10-15-98
HHM PG:
REV
DWG NO [redacted]



NOTES:
1.) AN ICE BARRIER CONSISTING OF TWO LAYERS OF UNDERLAYMENT CEMENTED TOGETHER OR OF A SELF-ADHERING POYMER MODIFED BITUMEN SHEET SHALL EXTEND FROM THE EAVES EDGE TO A POINT AT LEAST 24" INSIDE THE EXTERIOR WALL LINE. UNDERLAYMENT SHALL COMPLY WITH ASTM D 226, TYPE I.

2.) UNDERLAYMENT APPLIED IN AREAS SUBJECT TO HIGH WINDS (GREATER THAN 110 MPH) SHALL BE APPLIED WITH CORROSIVE-RESISTANT FASTENERS IN ACCORDANCE WITH MANUFACTURER'S INSTALLATIUON INSTRUCTIONS.

ICE DAM @ FLIP OVERHANG DETAIL (A)



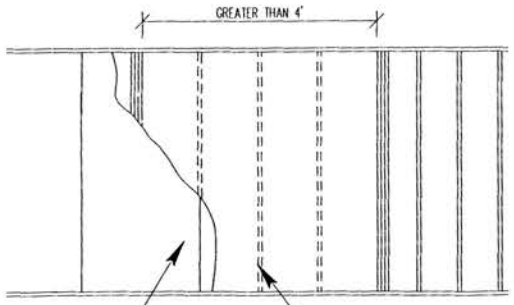
NOTES:
1. Double mating wall door installation
   a) Clamp jamb studs together using a large C- clamp or box clamp. Take out any bowing. Secure jamb studs using short straps.
   b) Install split jamb at pre hung door using shims as needed to square door.
   c) Install wide door strap at split in jamb.
   d) Install door casing.
2. Shim as needed at roof to wall load bearing parts.
3. Floor reinforcement
   a) two (2) additional floor joists shall be added under bathtubs, garden tubs, etc.
   b) one (1) additional floor joist shall be added to water heater.

DOUBLE MATING WALL DOOR INSTALLATION DTL. (B)

CONSTRUCTION

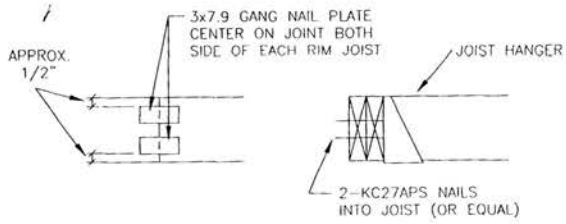
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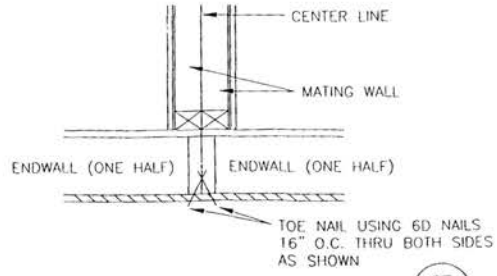


NOTE:
OPENINGS GREATER THAN 4' SHALL HAVE TEMPORARY SHIPPING STUDS AT 24" O.C. ENTIRE MATING WALL SHALL BE SHEATHED W/ 1/8" STRUCTURAL THERMAL PLY OR EQUIVALENT FASTENED PER MANUFACTURER'S SPECIFICATIONS STUDS & SHEATHING SHALL BE REMOVED ON SITE AFTER UNIT IS SET.

MATING WALL OPENING DETAIL (C)



MATING LINE DOUBLE RIM JOIST ASSEMBLY (D)



ENDWALL CONNECTION AT CENTERLINE (E)

Koan Mac
Zoning Review Branch
Zoning Division

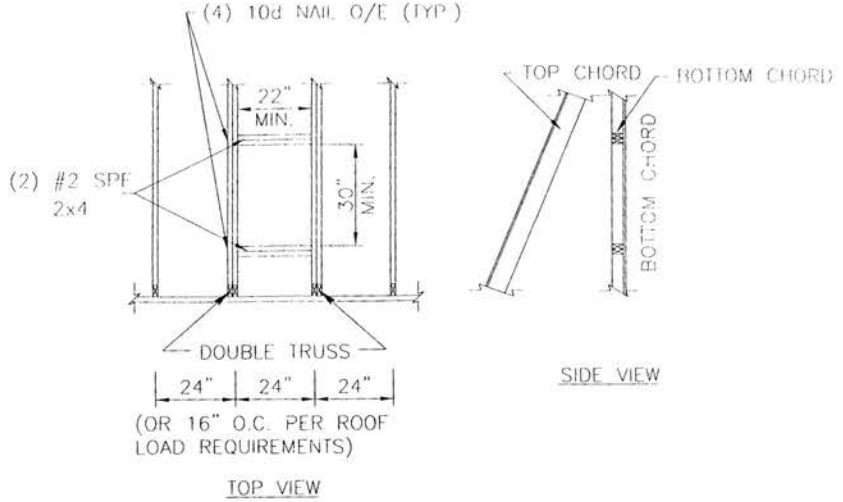
10

CREST HOMES

REV	DESCRIPTION	DATE	BY
A	ADD DETAILS A,B,D & E	6/5/03	CC

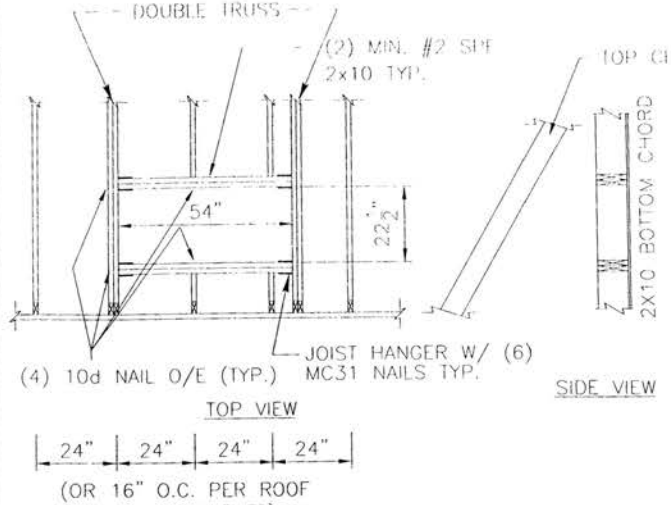
TITLE: MATING WALL OPENING & MISC. DETAILS
SERIES: [redacted]
SCALE: N.T.S. DRWN. BY: CMK
DATE: 10-15-98 HIM PG:
DWG. NO. [redacted] REV. A

CONSTRUCTION SECTION



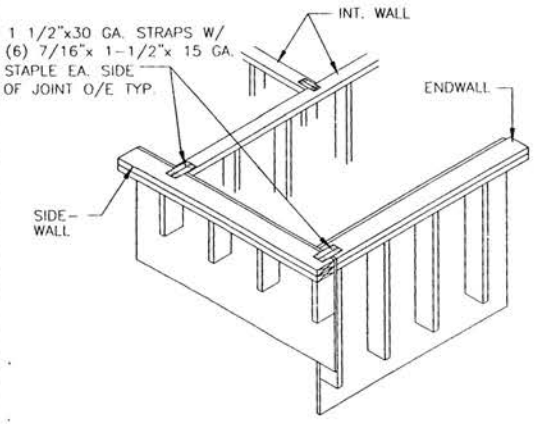
(OR 16" O.C. PER ROOF LOAD REQUIREMENTS)

22x30 ATTIC ACCESS DETAIL (A)

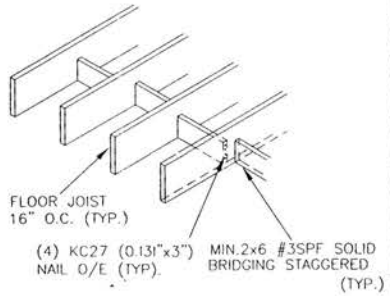


(OR 16" O.C. PER ROOF LOAD REQUIREMENTS)

PULL DOWN STAIRCASE ATTIC ACCESS DETAIL (B)

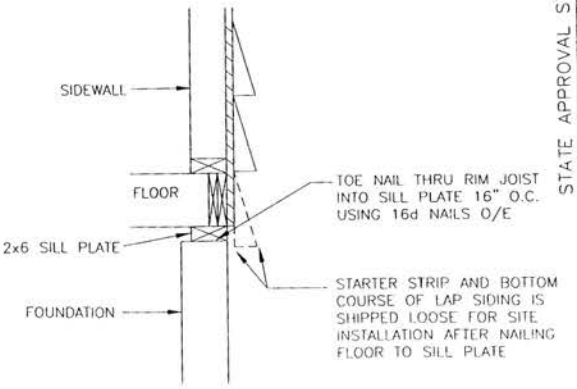


WALL JUNCTION STRAPPING DETAIL (C)



NOTE:
OTHER ALTERNATES (SUCH AS STEEL BRIDGING) MAY BE USED AS LONG AS IT IS IN CONFORMANCE WITH APPLICABLE CODES.

TYPICAL FLOOR BRIDGING DETAIL (D)



FLOOR TO SILL PLATE CONNECTION DETAIL (E)

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Xoan Mac
Zoning Review Branch
Zoning Division

10A

CREST HOMES

REV	DESCRIPTION	DATE	BY
A	ADD ATTIC ACCESS DTLS.	6/5/03	CC

TITLE: MISC. CONSTRUCTION DETAILS
SERIES: [redacted]
SCALE: VARIES DRWN. BY: JSB
DATE: 10-15-98 HIM PG:
DWG NO [redacted] REV. A