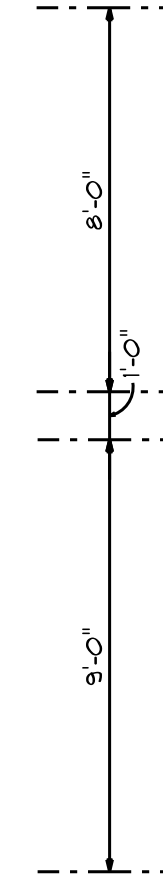


NOTICE TO CONTRACTOR
All construction must comply with current NC Building Codes and is subject to field inspection and verification.

APPROVED
Limited building only review
Permit holder responsible for full compliance with the code.

05/04/2020

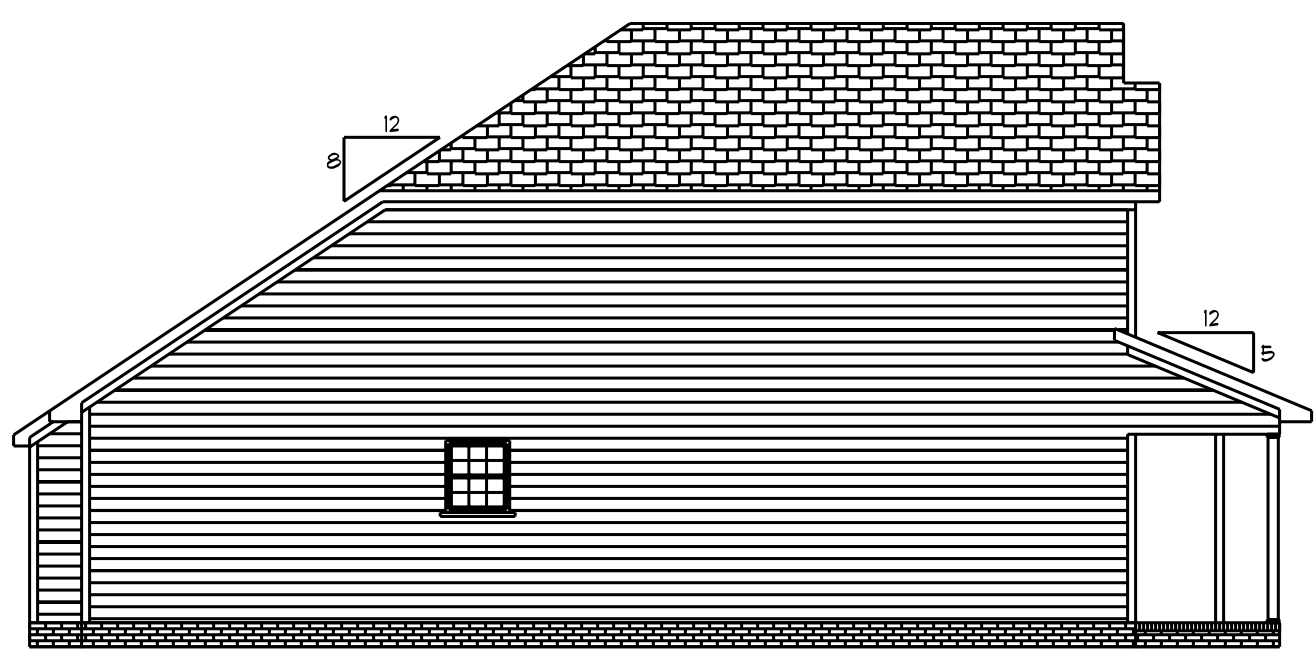




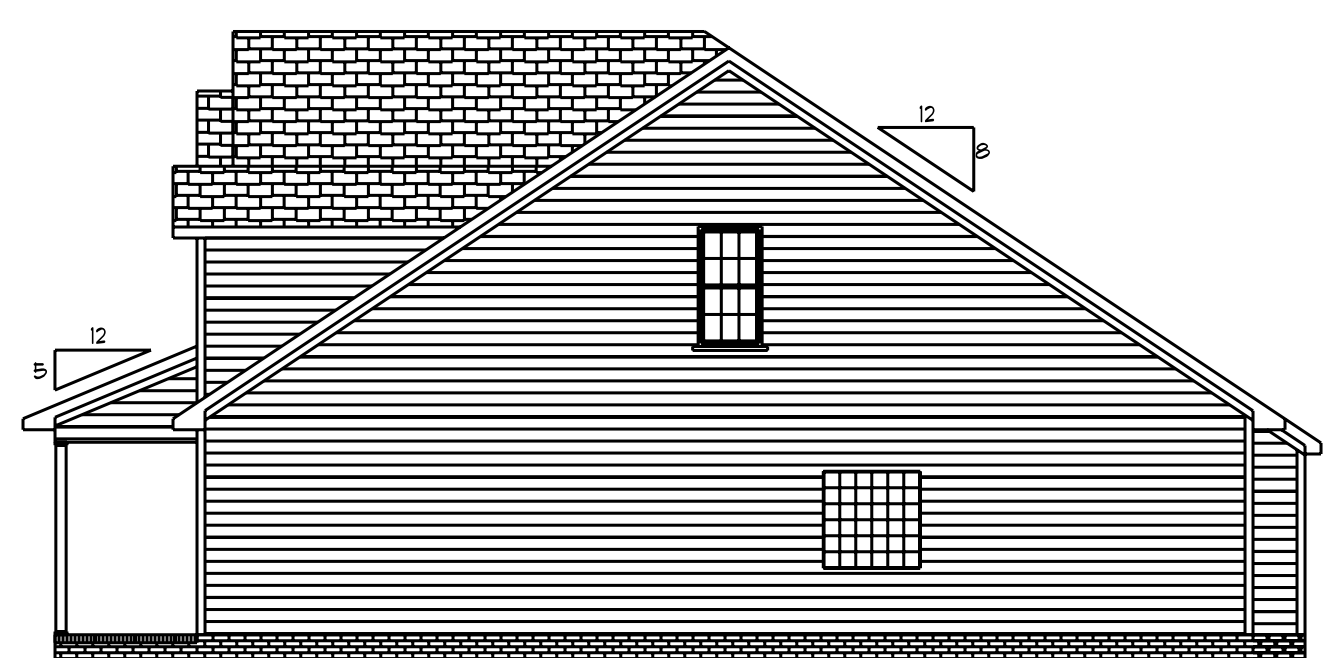
Front Elevation
Scale: 1/4" = 1'0"



Rear Elevation
Scale: 1/8" = 1'0"



Left Elevation
Scale: 1/8" = 1'0"



Right Elevation
Scale: 1/8" = 1'0"

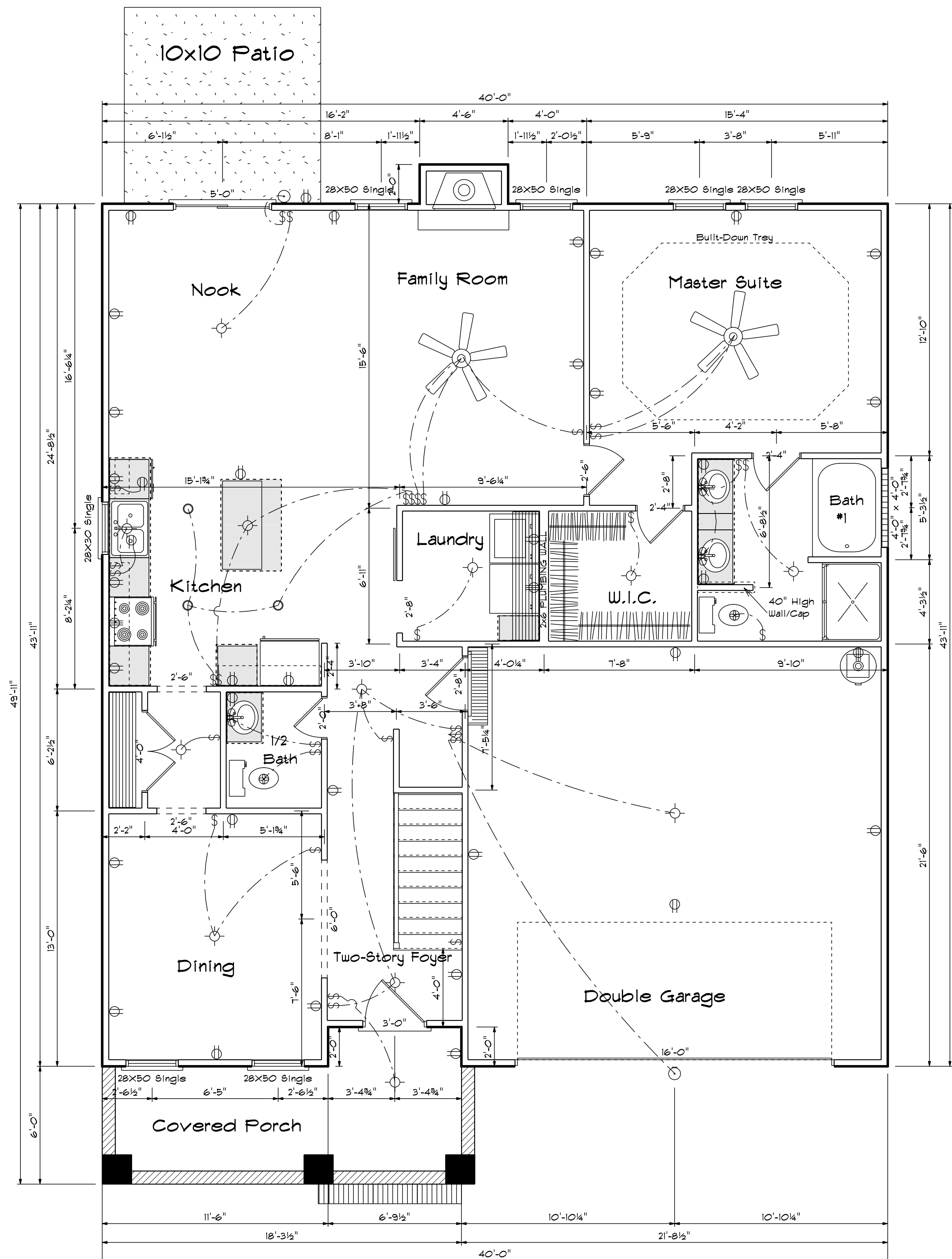
Bass Designs
2727 Chimney Pt.
Linden N.C. 28356
910-864-9310

DATE Thursday, November 1, 2018
REVISED
DRAWING*

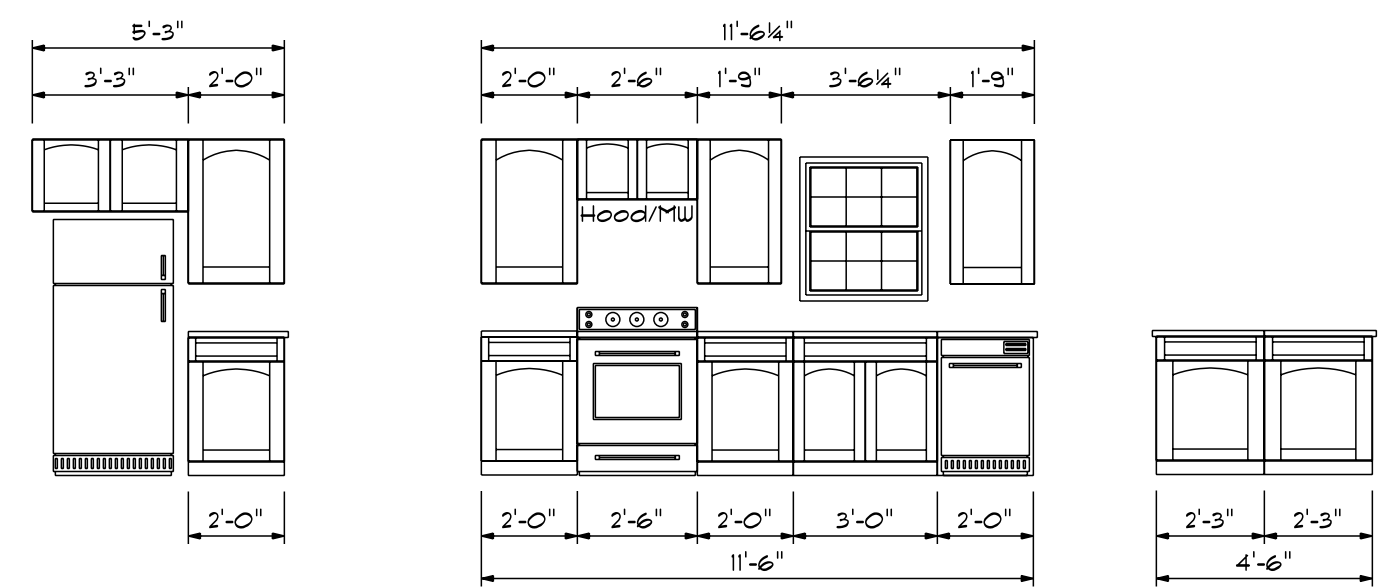
SCALE
DRAWN BY
APPROVED

The Appleton

BBH-2034



Kitchen Cabinets



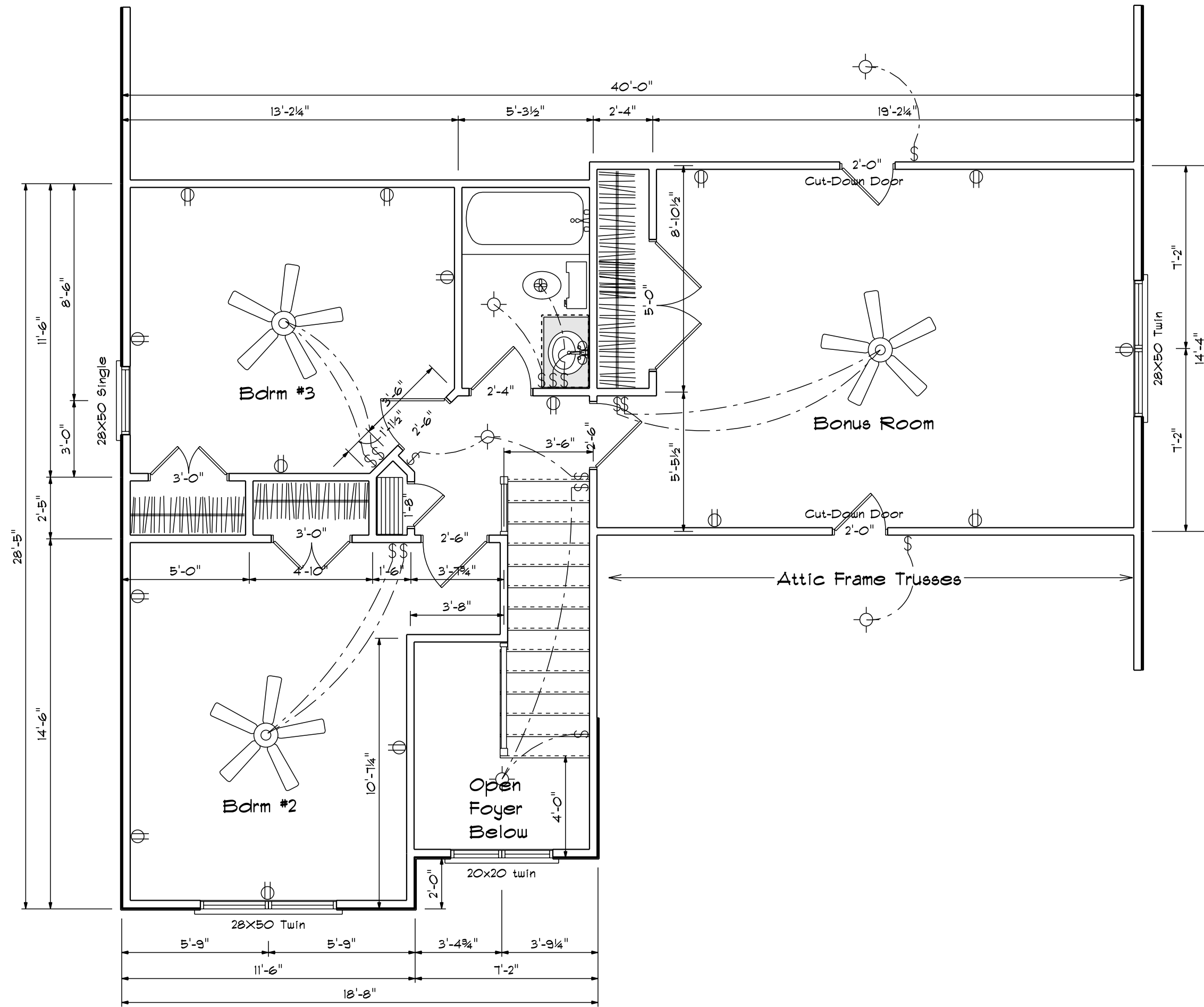
| FIRST FLOOR OPENING SCHEDULE | | | |
|------------------------------|---------------|-------|-------|
| PRODUCT CODE | SIZE | HINGE | COUNT |
| 36X80 COLONIAL A 1 | 3'-0" | R | 1 |
| 192X84 - 2 PANEL | 16'-0" | U | 1 |
| 60X80 SLIDING FRENCH 2 | 5'-0" | NN | 1 |
| 4-0 DBL HUNG DOOR UNIT | 4'-0" | LR | 1 |
| 2-0 DOOR UNIT | 2'-0" | R | 1 |
| 2-4 DOOR UNIT | 2'-4" | L | 2 |
| 2-4 DOOR UNIT | 2'-4" | R | 1 |
| 2-0 DOOR UNIT | 2'-6" | R | 1 |
| 2-8 DOOR UNIT | 2'-8" | L | 1 |
| 2-8 DOOR UNIT | 2'-8" | R | 1 |
| 2-8X3-0 Single Window unit | 2'-8" x 3'-0" | N | 1 |
| 2-8X5-0 Single Window unit | 2'-8" x 5'-0" | N | 6 |
| 8X8 GLASS BLOCK | 4'-0" x 4'-0" | N | 1 |

Areas

First Floor 9' Ceiling First Floor 1283+-
 Second Floor 8' Ceiling Second Floor 751+-
 =====
 Total Heated 2034+-
 Garage 458+-
 Porch 132+-

First Floor Plan

Scale: 1/4" = 1'-0"

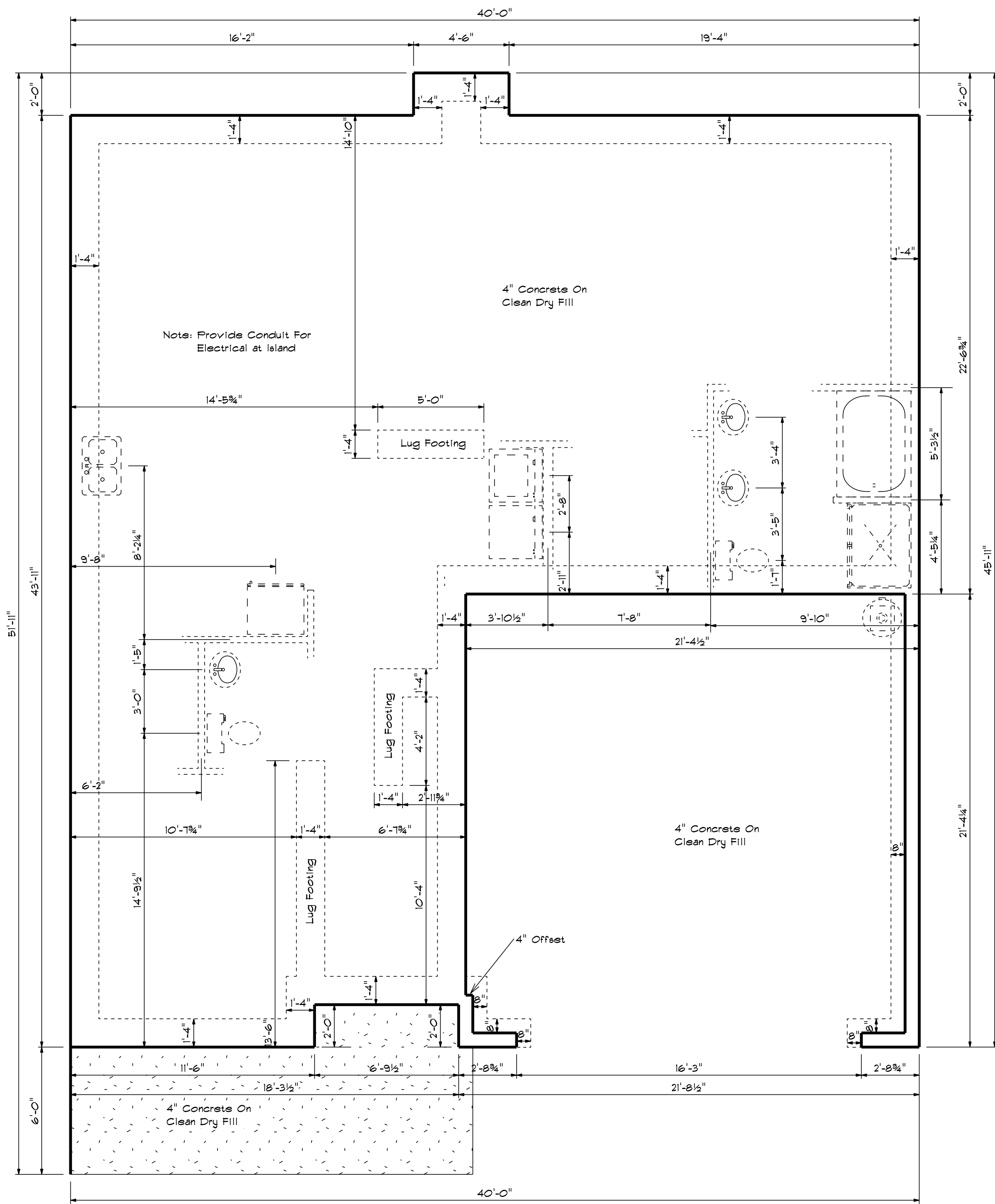


Second Floor Plan

Scale: 1/4" = 1'-0"

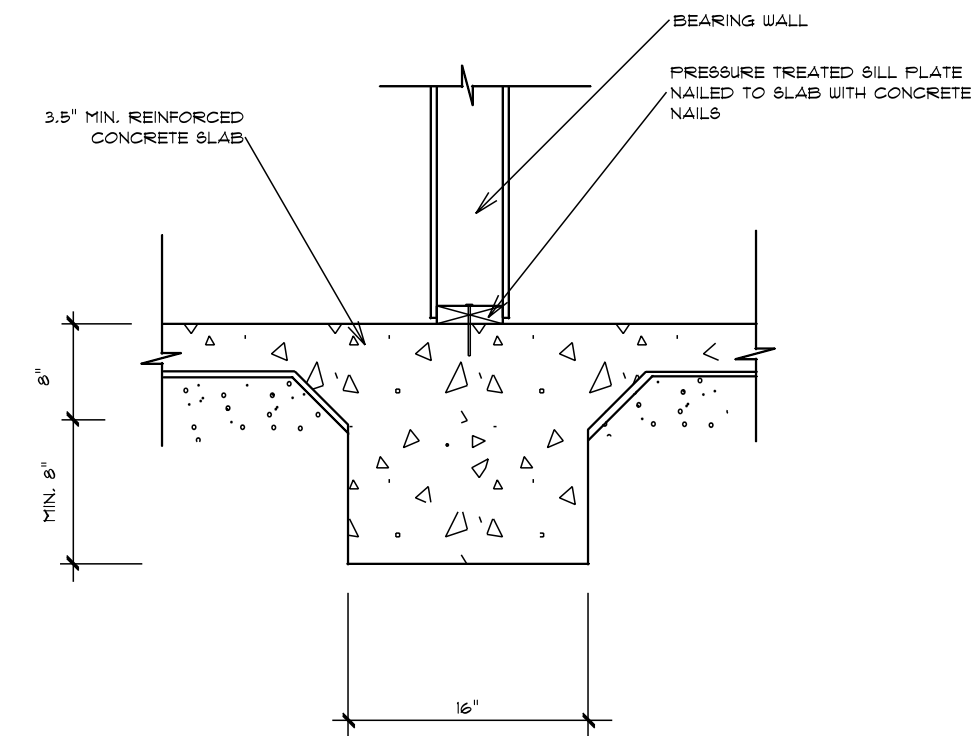
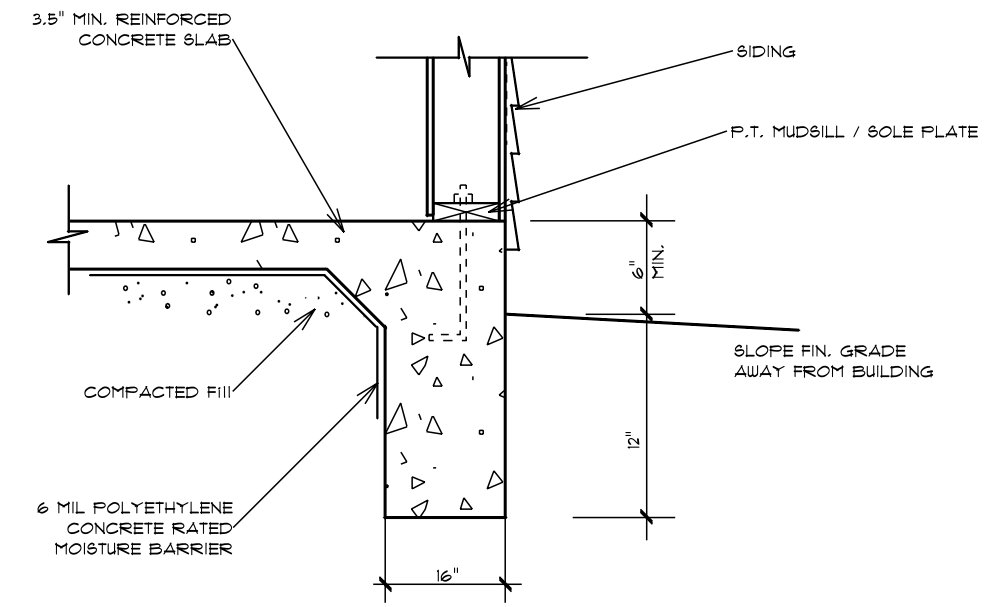
Second Floor Openings

| PRODUCT CODE | SIZE | HINGE DIRECTION | COUNT | R.O. WIDTH |
|-----------------------|---------------|-----------------|-------|------------|
| 1-8 DOOR UNIT | 1'-8" | R | 1 | 1'-10" |
| 2-4 DOOR UNIT | 2'-4" | L | 1 | 2'-6" |
| 2-6 DOOR UNIT | 2'-6" | L | 1 | 2'-8" |
| 2-6 DOOR UNIT | 2'-6" | R | 2 | 2'-8" |
| 3-0 doublehung unit | 3'-0" | LR | 2 | 3'-2" |
| 2-0X2-0 Twin Window | 4'-0" x 3'-0" | NA | 1 | 4'-0" |
| 2-8X5-0 Single Window | 2'-8" x 5'-0" | N | 1 | 2'-8" |
| 2-8X5-0 Twin Window | 5'-4" x 5'-0" | NA | 2 | 5'-4" |

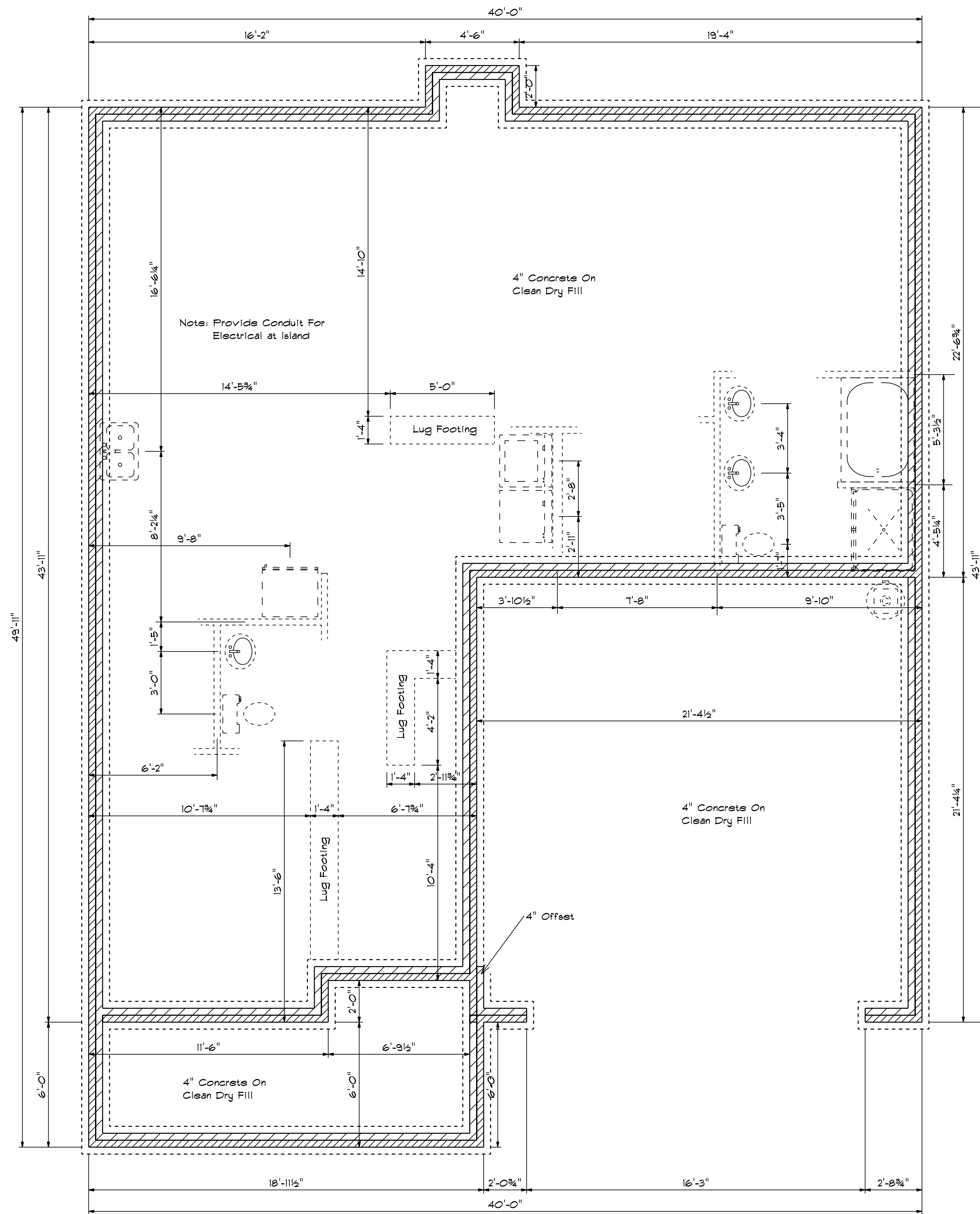


Foundation Plan

Scale: 1/4" = 1'-0"



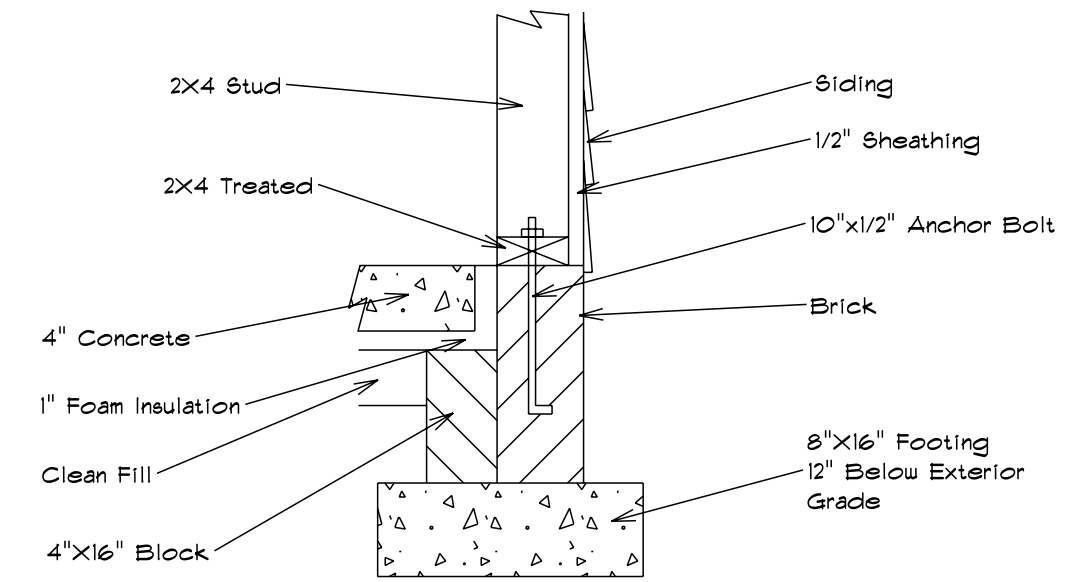
| | | | |
|----------|--------------|----------|---|
| BBH-2034 | The Appleton | | Bass Designs 2727 Chimney Pt. Linden N.C. 28356 910-864-9310 |
| | SCALE 1/4" | DRAWN BY | |
| | APPROVED | REVISED | DRAWING* |



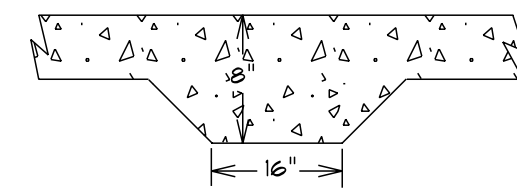
Foundation Plan

Scale: 1/4" = 1'-0"

Foundation Detail Siding



Lug Footing Detail





ROOF & FLOOR TRUSSES & BEAMS

Reilly Road Industrial Park
Fayetteville, N.C. 28309
Phone: (910) 864-8787
Fax: (910) 864-4444

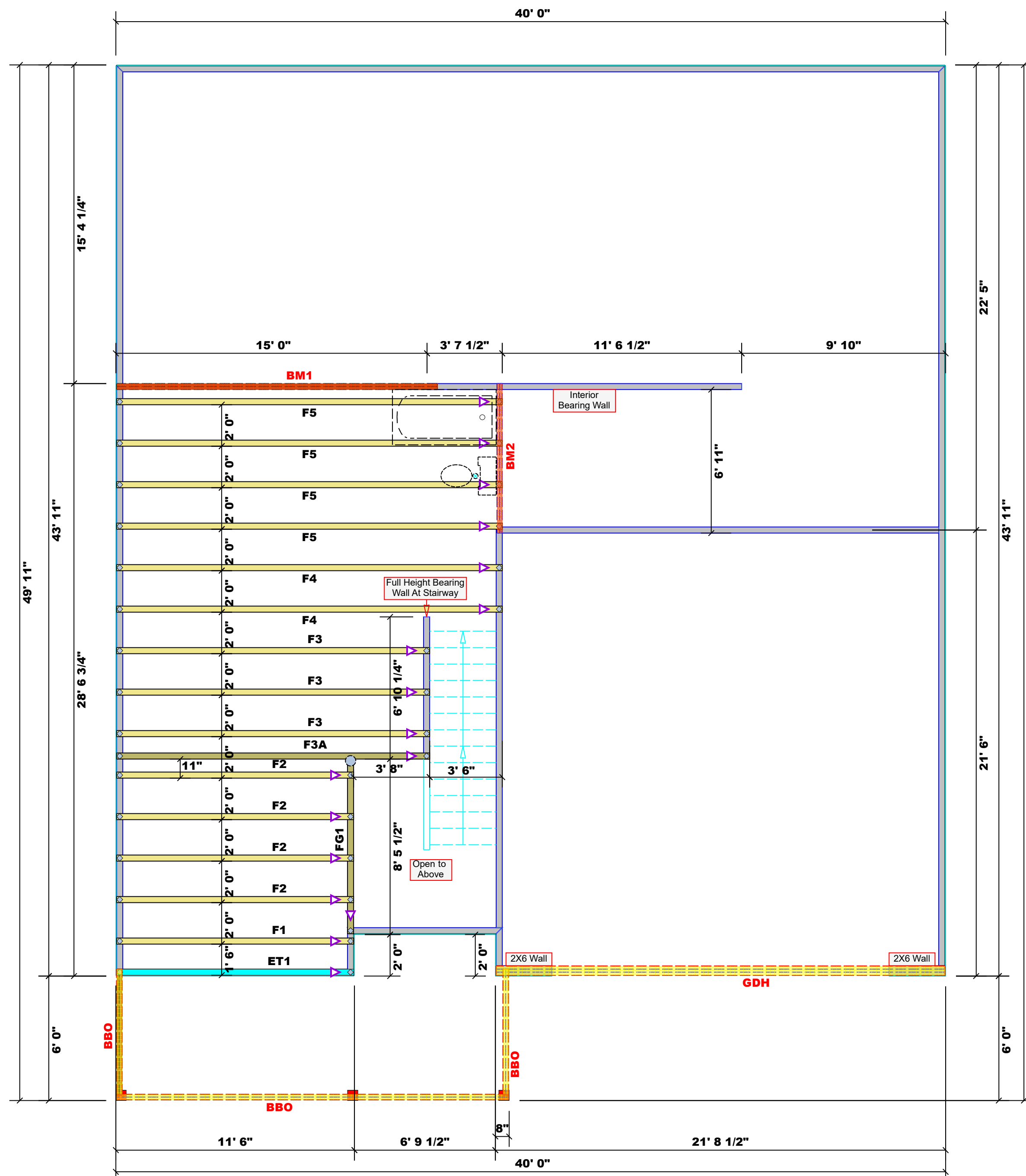
Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive code requirements. The contractor shall refer to the attached Tables (derived from the prescriptive Code requirements) to determine the minimum foundation size and number of wood studs required to support reactions greater than 3000# but not greater than 15000#. A registered design professional shall be retained to design the support system for any reaction that exceeds those specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.

Signature David Landry
David Landry

LOAD CHART FOR JACK STUDS

(BASED ON TABLES R502.5(1) & (b))
NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADER/GIRDER

| END REACTION (UP TO) | REQ'D STUDS FOR (1)PLY HEADER | END REACTION (UP TO) | REQ'D STUDS FOR (1)PLY HEADER | END REACTION (UP TO) | REQ'D STUDS FOR (1)PLY HEADER |
|----------------------|-------------------------------|----------------------|-------------------------------|----------------------|-------------------------------|
| 1700 | 1 | 2550 | 1 | 3400 | 1 |
| 3400 | 2 | 5100 | 2 | 6800 | 2 |
| 5100 | 3 | 7650 | 3 | 10200 | 3 |
| 6800 | 4 | 10200 | 4 | 13600 | 4 |
| 8500 | 5 | 12750 | 5 | 17000 | 5 |
| 10200 | 6 | 15300 | 6 | | |
| 11900 | 7 | | | | |
| 13600 | 8 | | | | |
| 15300 | 9 | | | | |



All Walls Shown Are Considered Load Bearing

Dimension Notes

1. All exterior wall to wall dimensions are to face of sheathing unless noted otherwise
2. All interior wall dimensions are to face of frame wall unless noted otherwise
3. All exterior wall to truss dimensions are to face of frame wall unless noted otherwise

Plumbing Drop Notes

1. Plumbing drop locations shown are NOT exact.
2. Contractor to verify ALL plumbing drop locations prior to setting Floor Trusses.
3. Adjust spacing as needed not to exceed 24"oc.

| Connector Information | | | | | Nail Information | |
|-----------------------|---------|-------|-----|------------------|------------------|--------|
| Sym | Product | Manuf | Qty | Supported Member | Header | Truss |
| ● | MSH422 | USP | 1 | Varies | 10d/3" | 10d/3" |

| Products | | | | | |
|----------|--------|-------------------------|-------|---------|--|
| PlotID | Length | Product | Plies | Net Qty | |
| BM1 | 16' 0" | 1-3/4"x 16" LVL Kerto-S | 2 | 2 | |
| BM2 | 8' 0" | 2x10 SPF No.2 | 2 | 2 | |
| GDH | 22' 0" | 1-3/4"x 18" LVL Kerto-S | 3 | 3 | |

1 Truss Placement Plan
Scale: 1/4"=1'

| BUILDER | CITY / CO. | HARNETT COUNTY / HARNETT |
|-----------------------|--------------------------|--------------------------|
| Ben Stout Real Estate | HARNETT COUNTY / HARNETT | HARNETT COUNTY / HARNETT |
| JOB NAME | ADDRESS | 37 Kotata Ave |
| PLAN | MODEL | Floor |
| SEAL DATE | DATE REV. | / / |
| QUOTE # | DRAWN BY | David Landry |
| JOB # | SALES REP. | Marshall Naylor |

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.
These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package or online @ sbcindustry.com

▲ = Indicates Left End of Truss
(Reference Engineered Truss Drawing)
Do NOT Erect Truss Backwards



ROOF & FLOOR TRUSSES & BEAMS

Reilly Road Industrial Park
Fayetteville, N.C. 28309
Phone: (910) 864-8787
Fax: (910) 864-4444

Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables (derived from the prescriptive Code requirements) to determine the minimum foundation size and number of wood studs required to support reactions greater than 3000# but not greater than 15000#. A registered design professional shall be retained to design the support system for any reaction that exceeds those specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.

Signature David Landry
David Landry

LOAD CHART FOR JACK STUDS

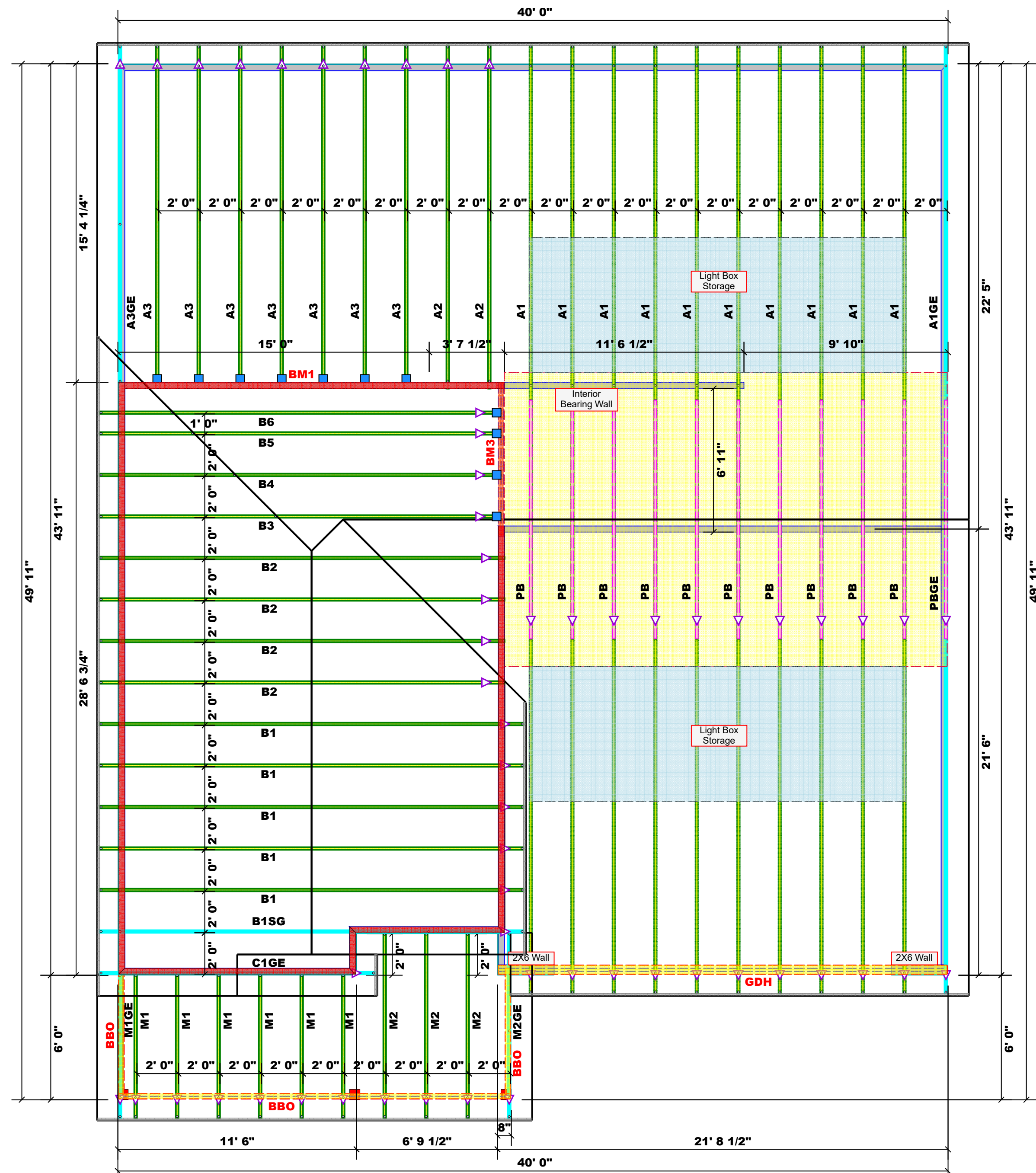
(BASED ON TABLES R502.5(1) & (b))
NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADER/GIRDER

| END REACTION (UP TO) | REQ. STUDS FOR (1) PLY HEADER | END REACTION (UP TO) | REQ. STUDS FOR (2) PLY HEADER | END REACTION (UP TO) | REQ. STUDS FOR (4) PLY HEADER |
|----------------------|-------------------------------|----------------------|-------------------------------|----------------------|-------------------------------|
| 1700 | 1 | 2550 | 1 | 3400 | 1 |
| 3400 | 2 | 5100 | 2 | 6800 | 2 |
| 5100 | 3 | 7650 | 3 | 10200 | 3 |
| 6800 | 4 | 10200 | 4 | 13600 | 4 |
| 8500 | 5 | 12750 | 5 | 17000 | 5 |
| 10200 | 6 | 15300 | 6 | | |
| 11900 | 7 | | | | |
| 13600 | 8 | | | | |
| 15300 | 9 | | | | |

| CITY / CO. | Harnett County / Harnett |
|------------|--------------------------|
| ADDRESS | 37 Kotata Ave |
| MODEL | Roof |
| DATE REV. | / / |
| DRAWN BY | David Landry |
| SALES REP. | Marshall Naylor |

| BUILDER | Ben Stout Real Estate |
|-----------|-------------------------|
| JOB NAME | Lot 15 Blackberry Manor |
| PLAN | Appleton / BBH-2034 |
| SEAL DATE | N/A |
| QUOTE # | Quote # |
| JOB # | J0320-1197 |

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package or online @ sbcindustry.com



All Walls Shown Are Considered Load Bearing

- Dimension Notes
1. All exterior wall to wall dimensions are to face of sheathing unless noted otherwise
 2. All interior wall dimensions are to face of frame wall unless noted otherwise
 3. All exterior wall to truss dimensions are to face of frame wall unless noted otherwise

Roof Area = 2496.13 sq.ft.
Ridge Line = 51.59 ft.
Hip Line = 18.53 ft.
Horiz. OH = 133.5 ft.
Raked OH = 131.87 ft.
Decking = 86 sheets

Hatch Legend

| | |
|----------------|------------------|
| [Blue Hatch] | Box Storage |
| [Red Hatch] | 2nd Floor Layout |
| [Yellow Hatch] | Drop Beam |

| Connector Information | | | | | Nail Information | |
|-----------------------|---------|-------|-----|------------------|------------------|------------|
| Sym | Product | Manuf | Qty | Supported Member | Header | Truss |
| [Blue Box] | HUS26 | USP | 11 | NA | 16d/3-1/2" | 16d/3-1/2" |

| Products | | | | | |
|----------|--------|-------------------------|-------|---------|--|
| PlotID | Length | Product | Plies | Net Qty | |
| BM1 | 16' 0" | 1-3/4"x 16" LVL Kerto-S | 2 | 2 | |
| BM2 | 8' 0" | 2x10 SPF No.2 | 2 | 2 | |
| GDH | 22' 0" | 1-3/4"x 18" LVL Kerto-S | 3 | 3 | |

1 Truss Placement Plan
Scale: 1/4"=1'

▲ = Indicates Left End of Truss
(Reference Engineered Truss Drawing)
Do NOT Erect Truss Backwards

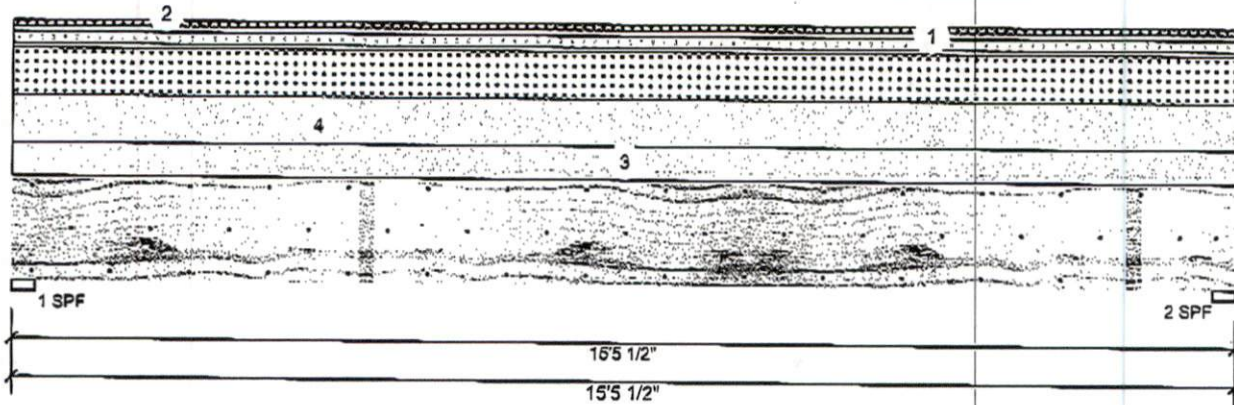


Client: Ben Stout Real Estate
 Project:
 Address:

Date: 4/7/2020
 Designer: David Landry
 Job Name: Applaton / BBH-2034
 Project #: J0320-1198

BM1 Kerto-S LVL 1.750" X 16.000" 2-Ply - PASSED

Level: Level



Member Information

Type: Girder
 Piles: 2
 Moisture Condition: Dry
 Deflection LL: 480
 Deflection TL: 380
 Importance: Normal
 Temperature: Temp <= 100°F

Application: Floor
 Design Method: ASD
 Building Code: IBC/IRC 2015
 Load Sharing: No
 Deck: Not Checked

Reactions UNPATTERNED lb (Uplift)

| Brg | Live | Dead | Snow | Wind | Const |
|-----|------|------|------|------|-------|
| 1 | 309 | 2562 | 1422 | 0 | 0 |
| 2 | 309 | 2562 | 1422 | 0 | 0 |

Bearings

| Bearing | Length | Cap. React | D/L lb | Total | Ld. Case | Ld. Comb. |
|---------|--------|------------|-------------|-------|----------|-----------|
| 1 - SPF | 3.500" | 77% | 2562 / 1422 | 3984 | L | D+S |
| 2 - SPF | 3.500" | 77% | 2562 / 1422 | 3984 | L | D+S |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|--------------|----------------|------------|---------------|--------------|-------|------|
| Moment | 14537 ft-lb | 7'8 3/4" | 39750 ft-lb | 0.366 (37%) | D+S | L |
| Unbraced | 14537 ft-lb | 7'8 3/4" | 14550 ft-lb | 0.999 (100%) | D+S | L |
| Shear | 3621 lb | 1'8 5/8" | 13739 lb | 0.264 (26%) | D+S | L |
| LL Defl inch | 0.099 (L/1823) | 7'8 13/16" | 0.376 (L/480) | 0.260 (26%) | S | L |
| TL Defl inch | 0.277 (L/851) | 7'8 13/16" | 0.501 (L/360) | 0.550 (55%) | D+S | L |

Design Notes

- 1 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be laterally braced at a maximum of 8'1 7/8" o.c.
- 6 Lateral slenderness ratio based on single ply width.

| ID | Load Type | Location | Trib Width | Side | Dead 0.9 | Live 1 | Snow 1.15 | Wind 1.6 | Const. 1.25 | Comments |
|----|-------------|-----------------|-------------|----------|----------|--------|-----------|----------|-------------|------------|
| 1 | Tie-In | 0-0-0 to 15-5-8 | (Span)2-0-0 | Top | 15 PSF | 40 PSF | 0 PSF | 0 PSF | 0 PSF | Floor Load |
| 2 | Tie-In | 0-0-0 to 15-5-8 | (Span)2-0-0 | Top | 20 PSF | 0 PSF | 20 PSF | 0 PSF | 0 PSF | Roof Load |
| 3 | Uniform | | | Top | 120 PLF | 0 PLF | 0 PLF | 0 PLF | 0 PLF | Wall |
| 4 | Uniform | | | Far Face | 164 PLF | 0 PLF | 164 PLF | 0 PLF | 0 PLF | A3, A4 |
| | Self Weight | | | | 12 PLF | | | | | |

Notes
 Calculated Structural Design is responsible only of the structural adequacy of the component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber
 1. Dry service conditions, unless noted otherwise
 2. LVL not to be treated with fire retardant or preservative

Handling & Installation
 1. LVL beams must not be cut or drilled
 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
 3. Cambrag Beams must not be used
 4. Design assumes top edge is laterally restrained
 5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info
 Metsä Wood
 301 Merritt 7 Building, 2nd Floor
 Norwalk, CT 06851
 (800) 822-6880
 www.metsawood.com/us
 ICC-ES: ESR-3833

Comtech, Inc.
 1001 S. Rally Road, Suite #600
 Fayetteville, NC
 USA
 28314
 910-864-TRUS



This design is valid until 12/11/2021





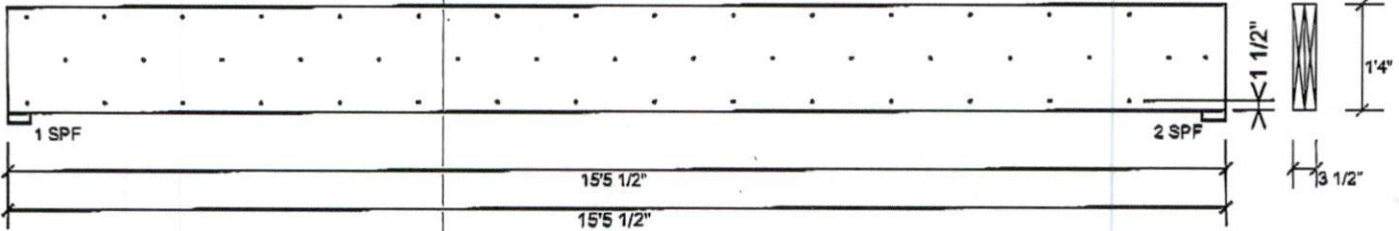
isDesign™

Client: Ben Stout Real Estate
 Project:
 Address:

Date: 4/7/2020
 Designer: David Landry
 Job Name: Appleton / BBH-2034
 Project #: J0320-1198

BM1 Kerto-S LVL 1.750" X 16.000" 2-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (128x3") at 12" o.c.. Maximum end distance not to exceed 6"

| | |
|--------------------------|-----------|
| Capacity | 66.8 % |
| Load | 164.0 PLF |
| Yield Limit per Foot | 245.6 PLF |
| Yield Limit per Fastener | 81.9 lb. |
| Yield Mode | IV |
| Edges Distance | 1 1/2" |
| Min. End Distance | 3" |
| Load Combination | D+S |
| Duration Factor | 1.15 |

| | | | | |
|--|---|--|---|--|
| <p>Notes</p> <p>Calculated Structural Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.</p> <p>Lumber</p> <p>1. Dry service conditions, unless noted otherwise 2. LVL not to be treated with fire retardant or preservative</p> | <p>Handling & Installation</p> <p>1. LVL beams must not be cut or drilled 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals 3. Damaged Beams must not be used 4. Design assumes top edge is laterally restrained 5. Provide lateral support at bearing points to avoid lateral displacement and rotation</p> | <p>6. For flat roofs provide proper drainage to prevent ponding</p> <p>This design is valid until 12/11/2021</p> | <p>Manufacturer Info</p> <p>Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5650 www.metsawood.com/us ICC-ES: ESR-3693</p> | <p>Comtech, Inc. 1001 S. Rolly Road, Suite #639 Fayetteville, NC USA 28314 910-884-TRUS</p> |
|--|---|--|---|--|



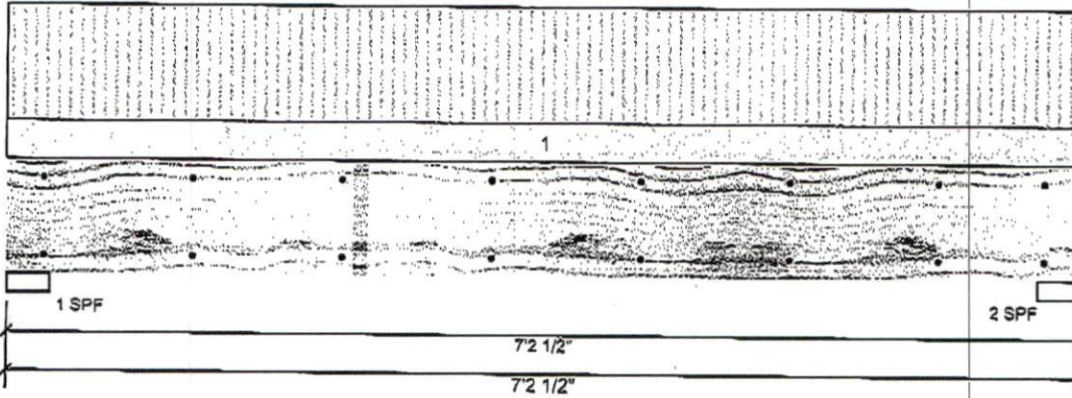


Client: Ben Stout Real Estate
 Project:
 Address:

Date: 4/7/2020
 Designer: David Landry
 Job Name: Appleton / BBH-2034
 Project #: J0920-1198

BM2 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED

Level: Level



Member Information

Type: Girder
 Plies: 2
 Moisture Condition: Dry
 Deflection LL: 480
 Deflection TL: 360
 Importance: Normal
 Temperature: Temp <= 100°F

Application: Floor
 Design Method: ASD
 Building Code: IBC/IRC 2015
 Load Sharing: No
 Deck: Not Checked

Reactions UNPATTERNED lb (Uplift)

| Brg | Live | Dead | Snow | Wind | Const |
|-----|------|------|------|------|-------|
| 1 | 1337 | 447 | 0 | 0 | 0 |
| 2 | 1337 | 447 | 0 | 0 | 0 |

Bearings

| Bearing | Length | Cap. React D/L lb | Total Ld. Case | Ld. Comb. |
|---------|--------|-------------------|----------------|-----------|
| 1 - SPF | 3.500" | 40% 447 / 1337 | 1784 L | D+L |
| 2 - SPF | 3.500" | 40% 447 / 1337 | 1784 L | D+L |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|--------------|----------------|-----------|---------------|-------------|-------|------|
| Moment | 2819 ft-lb | 3'7 1/4" | 3431 ft-lb | 0.822 (82%) | D+L | L |
| Unbraced | 2819 ft-lb | 3'7 1/4" | 3113 ft-lb | 0.906 (91%) | D+L | L |
| Shear | 1289 lb | 1' | 2496 lb | 0.516 (52%) | D+L | L |
| LL Defl inch | 0.063 (L/1295) | 3'7 5/16" | 0.169 (L/460) | 0.370 (37%) | L | L |
| TL Defl inch | 0.083 (L/970) | 3'7 5/16" | 0.225 (L/360) | 0.370 (37%) | D+L | L |

Design Notes

- 1 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top loads must be supported equally by all plies.
- 5 Top braced at bearings.
- 6 Lateral slenderness ratio based on single ply width.

| ID | Load Type | Location | Trib Width | Side | Dead 0.9 | Live 1 | Snow 1.15 | Wind 1.6 | Const. 1.25 | Comments |
|----|-----------|----------|------------|------|----------|---------|-----------|----------|-------------|----------|
| 1 | Uniform | | | Top | 124 PLF | 371 PLF | 0 PLF | 0 PLF | 0 PLF | F5 |

Manufacturer Info

Comtech, Inc.
 1001 S. Rolly Road, Suite #539
 Fayetteville, NC
 USA
 28314
 810-866-TRUS



This design is valid until 12/11/2021





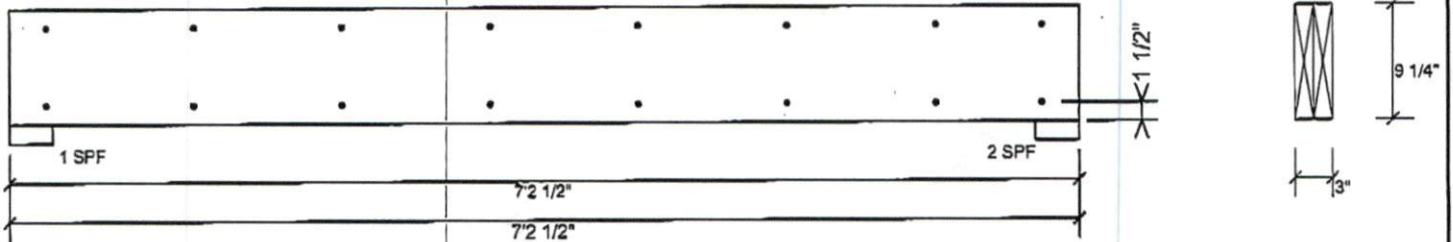
isDesign™

Client: Ben Stout Real Estate
 Project:
 Address:

Date: 4/7/2020
 Designer: David Landry
 Job Name: Appleton / BBH-2034
 Project #: J0320-1198

BM2 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (128x3") at 12" o.c.. Maximum end distance not to exceed 6"

| | |
|--------------------------|-----------|
| Capacity | 0.0 % |
| Load | 0.0 PLF |
| Yield Limit per Foot | 157.4 PLF |
| Yield Limit per Fastener | 78.7 lb. |
| Yield Mode | IV |
| Edges Distance | 1 1/2" |
| Min. End Distance | 3" |
| Load Combination | |
| Duration Factor | 1.00 |

| | |
|-------------------|--|
| Manufacturer Info | Comtech, Inc. 1001 S. Reilly Road, Suite 5639 Fayetteville, NC USA 28314 910-856-TRUS |
| | |

This design is valid until 12/11/2021





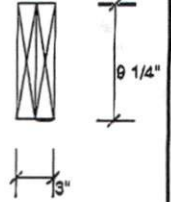
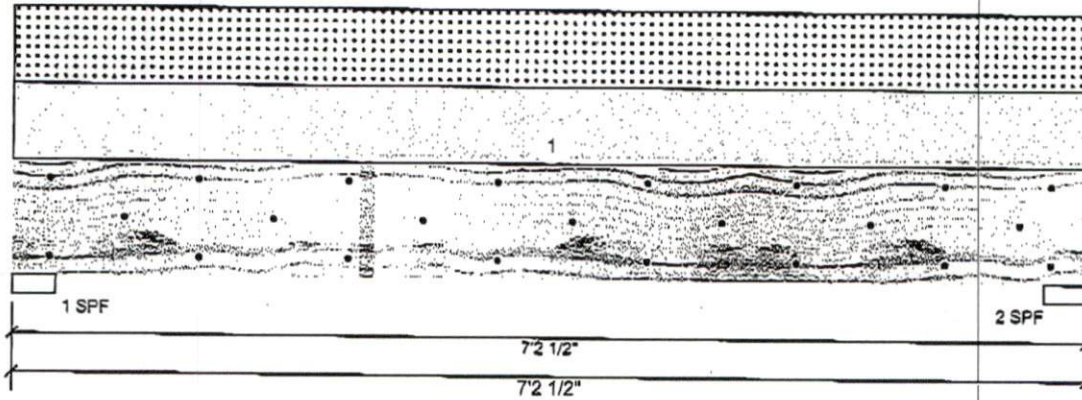
isDesign™

Client: Ben Stout Real Estate
 Project:
 Address:

Date: 4/7/2020
 Designer: David Landry
 Job Name: Appleton / BSH-2034
 Project #: J0320-1198

BM3 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED

Level: Level



Member Information

| | | | |
|---------------------|---------------|----------------|--------------|
| Type: | Girder | Application: | Floor |
| Plies: | 2 | Design Method: | ASD |
| Moisture Condition: | Dry | Building Code: | IBC/IRC 2015 |
| Deflection LL: | 480 | Load Sharing: | No |
| Deflection TL: | 360 | Deck: | Not Checked |
| Importance: | Normal | | |
| Temperature: | Temp <= 100°F | | |

Reactions UNPATTERNED lb (Uplift)

| Brg | Live | Dead | Snow | Wind | Const |
|-----|------|------|------|------|-------|
| 1 | 0 | 667 | 667 | 0 | 0 |
| 2 | 0 | 667 | 667 | 0 | 0 |

Bearings

| Bearing | Length | Cap. React | D/L lb | Total | Ld. Case | Ld. Comb. |
|---------|--------|------------|-----------|-------|----------|-----------|
| 1 - SPF | 3.500" | 30% | 667 / 667 | 1334 | L | D+S |
| 2 - SPF | 3.500" | 30% | 667 / 667 | 1334 | L | D+S |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|--------------|----------------|-----------|---------------|-------------|-------|------|
| Moment | 2107 ft-lb | 3'7 1/4" | 3946 ft-lb | 0.534 (53%) | D+S | L |
| Unbraced | 2107 ft-lb | 3'7 1/4" | 3446 ft-lb | 0.611 (61%) | D+S | L |
| Shear | 1249 lb | 1' | 2872 lb | 0.435 (43%) | D+S | L |
| LL Defl inch | 0.031 (L/2597) | 3'7 5/16" | 0.169 (L/480) | 0.180 (18%) | S | L |
| TL Defl inch | 0.062 (L/1298) | 3'7 5/16" | 0.225 (L/360) | 0.280 (28%) | D+S | L |

Design Notes

- 1 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top braced at bearings.
- 5 Lateral slenderness ratio based on single ply width.

| ID | Load Type | Location | Trib Width | Slide | Dead 0.9 | Live 1 | Snow 1.15 | Wind 1.6 | Const. 1.25 | Comments |
|----|-----------|----------|------------|-----------|----------|--------|-----------|----------|-------------|----------|
| 1 | Uniform | | | Near Face | 185 PLF | 0 PLF | 185 PLF | 0 PLF | 0 PLF | B3 - B6 |

Manufacturer Info

Comtech, Inc.
 1001 S. Rally Road, Suite 6859
 Fayetteville, NC
 USA
 28314
 910-484-TRUS



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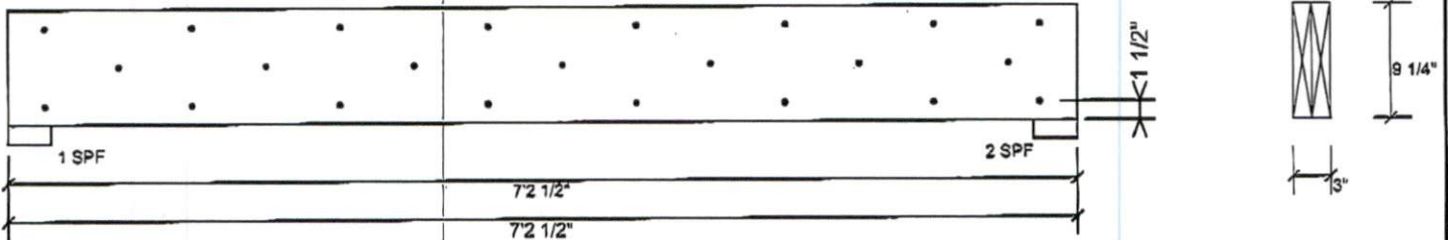


Client: Ben Stout Real Estate
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 Address:

Date: 4/7/2020
 Designer: David Landry
 Job Name: Appleton / BBH-2034
 Project #: J0320-1198

BM3 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (128x3") at 12" o.c.. Maximum end distance not to exceed 6"

| | |
|--------------------------|-----------|
| Capacity | 78.4 % |
| Load | 185.0 PLF |
| Yield Limit per Foot | 236.1 PLF |
| Yield Limit per Fastener | 78.7 lb. |
| Yield Mode | IV |
| Edge Distance | 1 1/2" |
| Min. End Distance | 3" |
| Load Combination | D+S |
| Duration Factor | 1.15 |

Manufacturer Info

Comtech, Inc.
 1001 S. Rolly Road, Suite #830
 Fayetteville, NC
 USA
 28314
 910-864-TRUS



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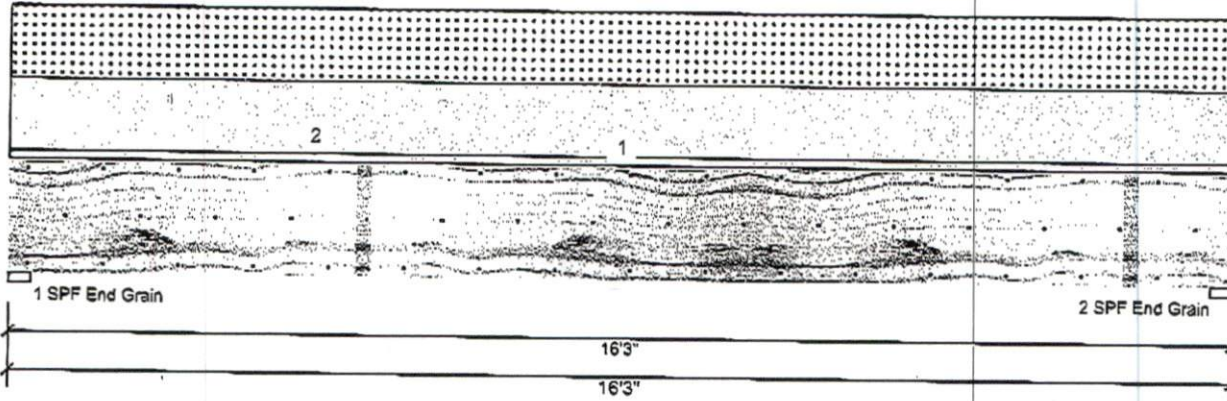


Client: Ben Stout Real Estate
 Project:
 Address:

Date: 4/7/2020
 Designer: David Landry
 Job Name: Appleton / BBH-2034
 Project #: J0320-1198

GDH Kerto-S LVL 1.750" X 18.000" 3-Ply - PASSED

Level: Level



Member Information

Type: Girder
 Piles: 3
 Moisture Condition: Dry
 Deflection LL: 480
 Deflection TL: 360
 Importance: Normal
 Temperature: Temp <= 100°F

Application: Floor
 Design Method: ASD
 Building Code: IBC/IRC 2015
 Load Sharing: Yes
 Deck: Not Checked

Reactions UNPATTERNED lb (Uplift)

| Brg | Live | Dead | Snow | Wind | Const |
|-----|------|------|------|------|-------|
| 1 | 0 | 5192 | 4534 | 0 | 0 |
| 2 | 0 | 5192 | 4534 | 0 | 0 |

Bearings

| Bearing | Length | Cap. React | D/L lb | Total Ld. | Case | Ld. Comb. |
|-------------------|--------|------------|-------------|-----------|------|-----------|
| 1 - SPF End Grain | 3.500" | 61% | 5192 / 4534 | 9726 | L | D+S |
| 2 - SPF End Grain | 3.500" | 61% | 5192 / 4534 | 9726 | L | D+S |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|--------------|----------------|-----------|---------------|--------------|-------|------|
| Moment | 37412 ft-lb | 8'1 1/2" | 77108 ft-lb | 0.485 (49%) | D+S | L |
| Unbraced | 37412 ft-lb | 8'1 1/2" | 37476 ft-lb | 0.988 (100%) | D+S | L |
| Shear | 7668 lb | 1'8 5/8" | 23184 lb | 0.331 (33%) | D+S | L |
| LL Defl inch | 0.175 (L/1084) | 8'1 9/16" | 0.395 (L/480) | 0.440 (44%) | S | L |
| TL Defl inch | 0.376 (L/505) | 8'1 9/16" | 0.527 (L/360) | 0.710 (71%) | D+S | L |

Design Notes

- 1 Fasten all piles using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top loads must be supported equally by all piles.
- 5 Top must be laterally braced at a maximum of 5'3" o.c.
- 6 Lateral slenderness ratio based on single ply width.

| ID | Load Type | Location | Trib Width | Side | Dead 0.9 | Live 1 | Snow 1.15 | Wind 1.6 | Const. 1.25 | Comments |
|----|-------------|----------|------------|------|----------|--------|-----------|----------|-------------|----------|
| 1 | Uniform | | | Top | 60 PLF | 0 PLF | 0 PLF | 0 PLF | 0 PLF | Wall |
| 2 | Uniform | | | Top | 558 PLF | 0 PLF | 558 PLF | 0 PLF | 0 PLF | A1 |
| | Self Weight | | | | 21 PLF | | | | | |

Notes

Calculated Structural Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or preservative

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support of bearing points to avoid lateral displacement and rotation

9. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

Metsä Wood
 301 Merritt 7 Building, 2nd Floor
 Norwalk, CT 06851
 (800) 622-6850
 www.metsawood.com/us
 ICC-ES: ESR-3633

Comtech, Inc.
 1001 S. Rellly Road, Suite #638
 Fayetteville, NC
 USA
 28314
 910-804-TRUS



This design is valid until 12/11/2021



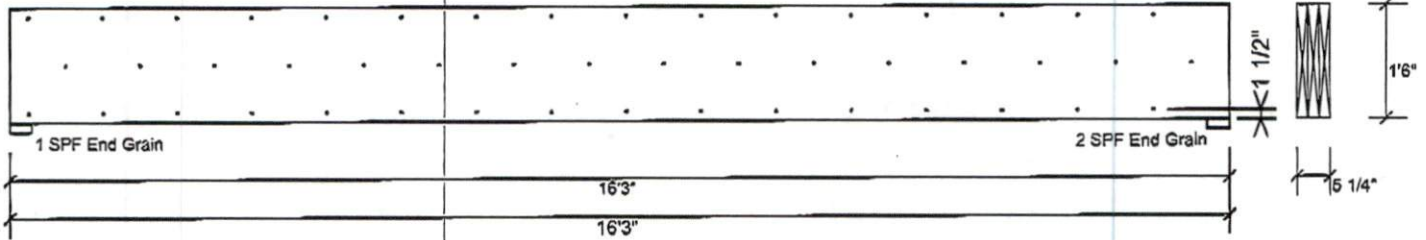


Client: Ben Stout Real Estate
 Project:
 Address:

Date: 4/7/2020
 Designer: David Landry
 Job Name: Appleton / BBH-2034
 Project #: J0320-1198

GDH Kerto-S LVL 1.750" X 18.000" 3-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (128x3") at 12" o.c.. Nail from both sides. Maximum end distance not to exceed 6"

| | |
|--------------------------|-----------|
| Capacity | 0.0 % |
| Load | 0.0 PLF |
| Yield Limit per Foot | 245.6 PLF |
| Yield Limit per Fastener | 81.9 lb. |
| Yield Mode | IV |
| Edge Distance | 1 1/2" |
| Min. End Distance | 3" |
| Load Combination | |
| Duration Factor | 1.00 |

Notes

Calculated Structural Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or preservative

chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 12/11/2021

Manufacturer Info

Metsä Wood
 301 Merritt 7 Building, 2nd Floor
 Norwalk, CT 06851
 (800) 622-6860
 www.metsawood.com/us
 ICC-ES: ESR-3635

Comtech, Inc.
 1001 S. Rolly Road, Suite #839
 Fayetteville, NC
 USA
 28314
 910-884-TRUS

