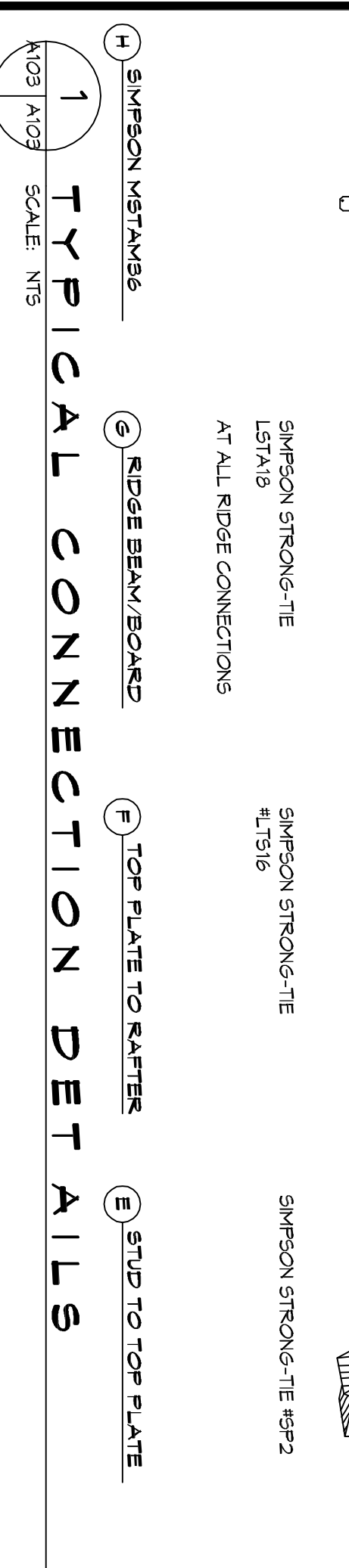
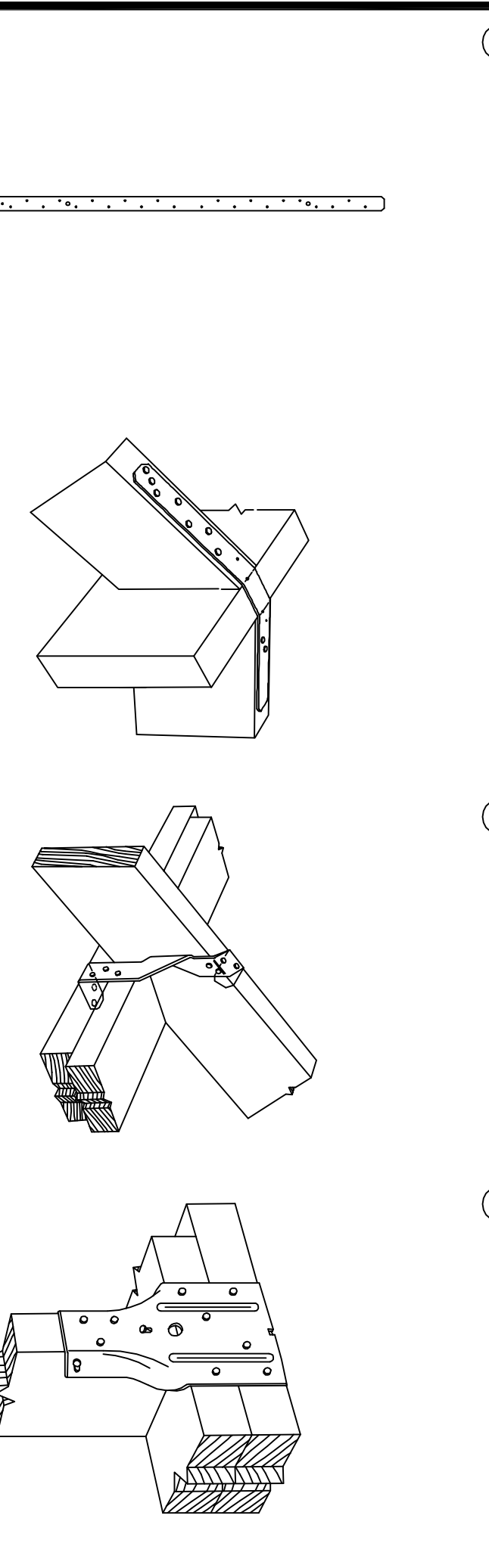
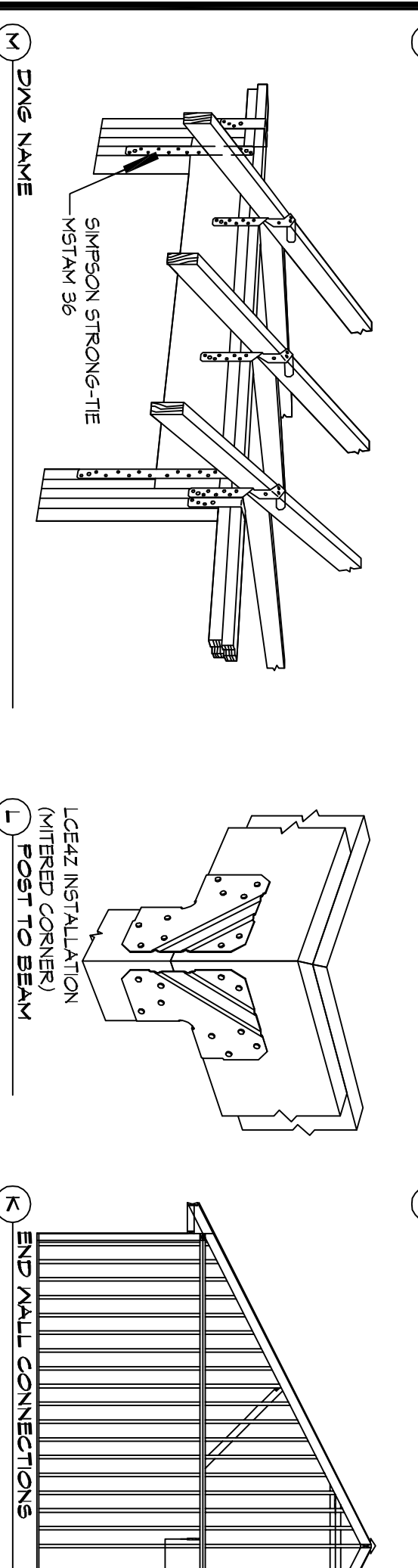


| CONNECTION                     | FRAMING SPACING (INCHES) | ROOF SPAN (FEET) | U   | L   | S    | NUMBER OF 3d COMMON NAILS OR 10d BOX NAILS IN EACH END OF 1/4"x20 GA STRAP |
|--------------------------------|--------------------------|------------------|-----|-----|------|--|
| ROOF ASSEMBLY TO WALL ASSEMBLY | 16" OC                   | 11               | 366 | 246 | 104R | 4  |
| WALL ASSEMBLY TO WALL ASSEMBLY | 16" OC                   | 11               | 366 | 246 | 104R | 4  |
| HEADER TO HEADER (FACE VALUE)  | 16" OC                   | 11               | 110 | 185 | 498  | 4  |

| BOTTOM PLATE TO FOUNDATION ANCHOR BOLT CONNECTION RESISTING | FOUNDATION SUPPORTING | 8 END ZONES  |    | INTERIOR ZONES |    |
|---|-----------------------|--------------|----|----------------|----|
|   |                       | 1 - 3 STORES | 23 | 33             | 33 |
| UPLIFT LOADS  | 1 - 3 STORES          |              |    |                |    |

| BOTTOM PLATE TO FOUNDATION ANCHOR BOLT CONNECTION RESISTING | FOUNDATION SUPPORTING | MAXIMUM ANCHOR BOLT SPACING INCHES |                     |
|---|-----------------------|------------------------------------|---------------------|
|   |                       | 1/2" Ø ANCHOR BOLTS                | 5/8" Ø ANCHOR BOLTS |
| UPLIFT LOADS  | 1 - 3 STORES          | 30                                 | 45                  |

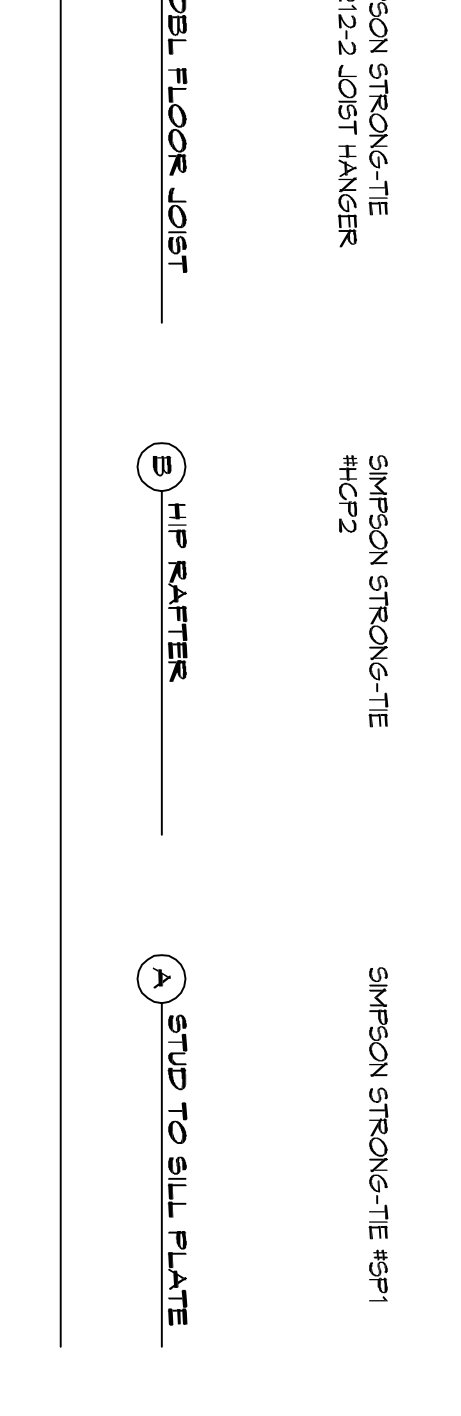
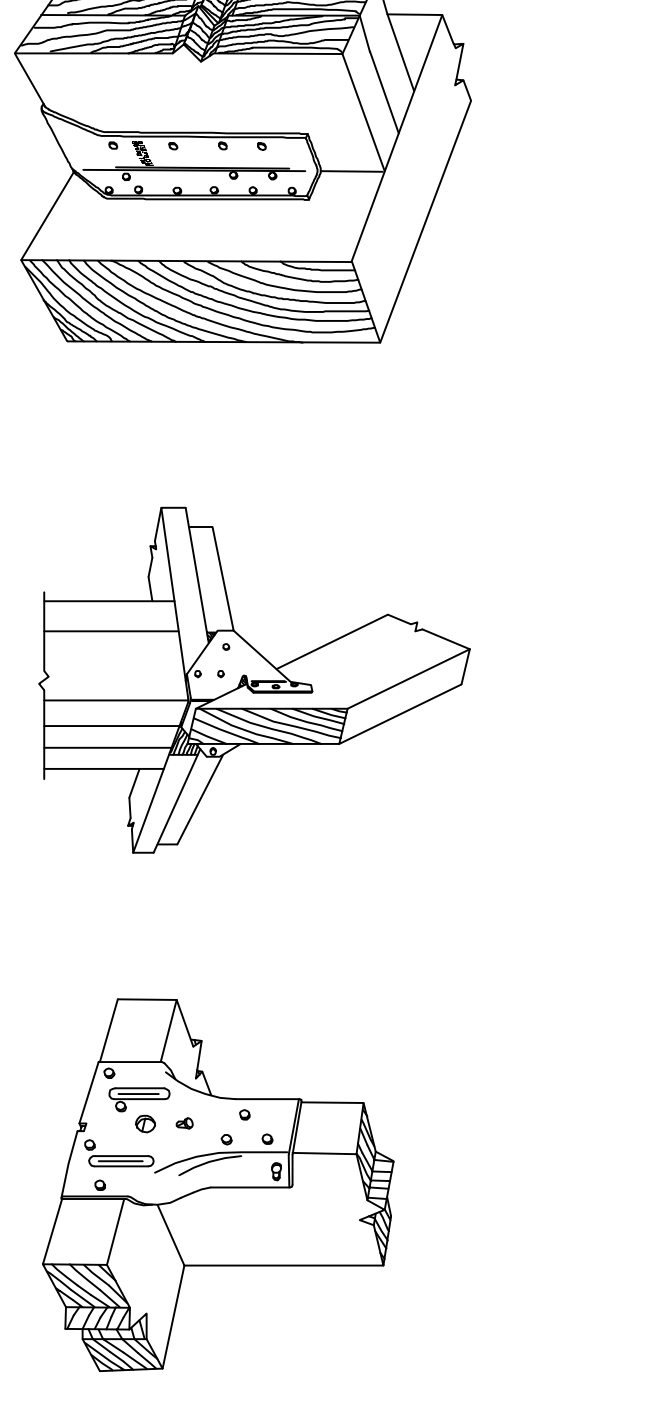
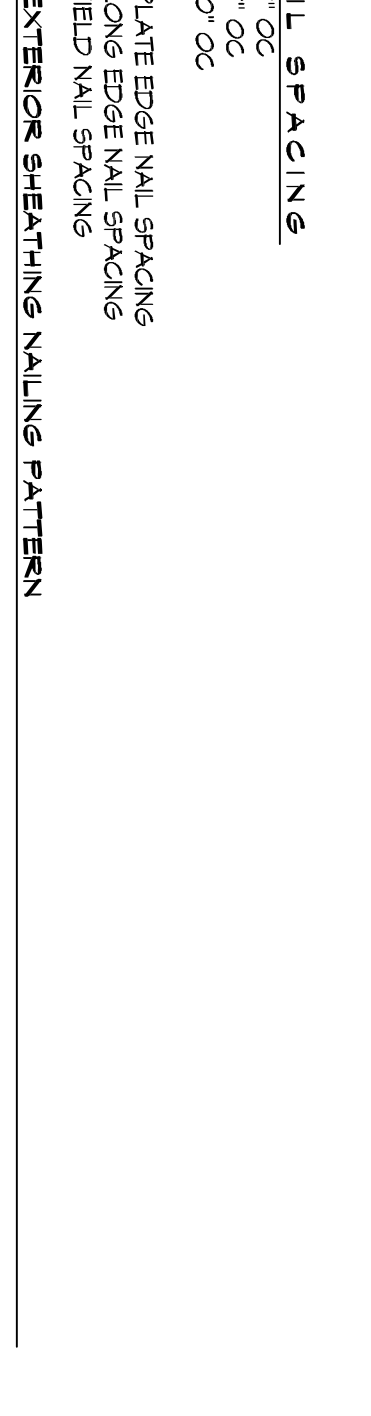
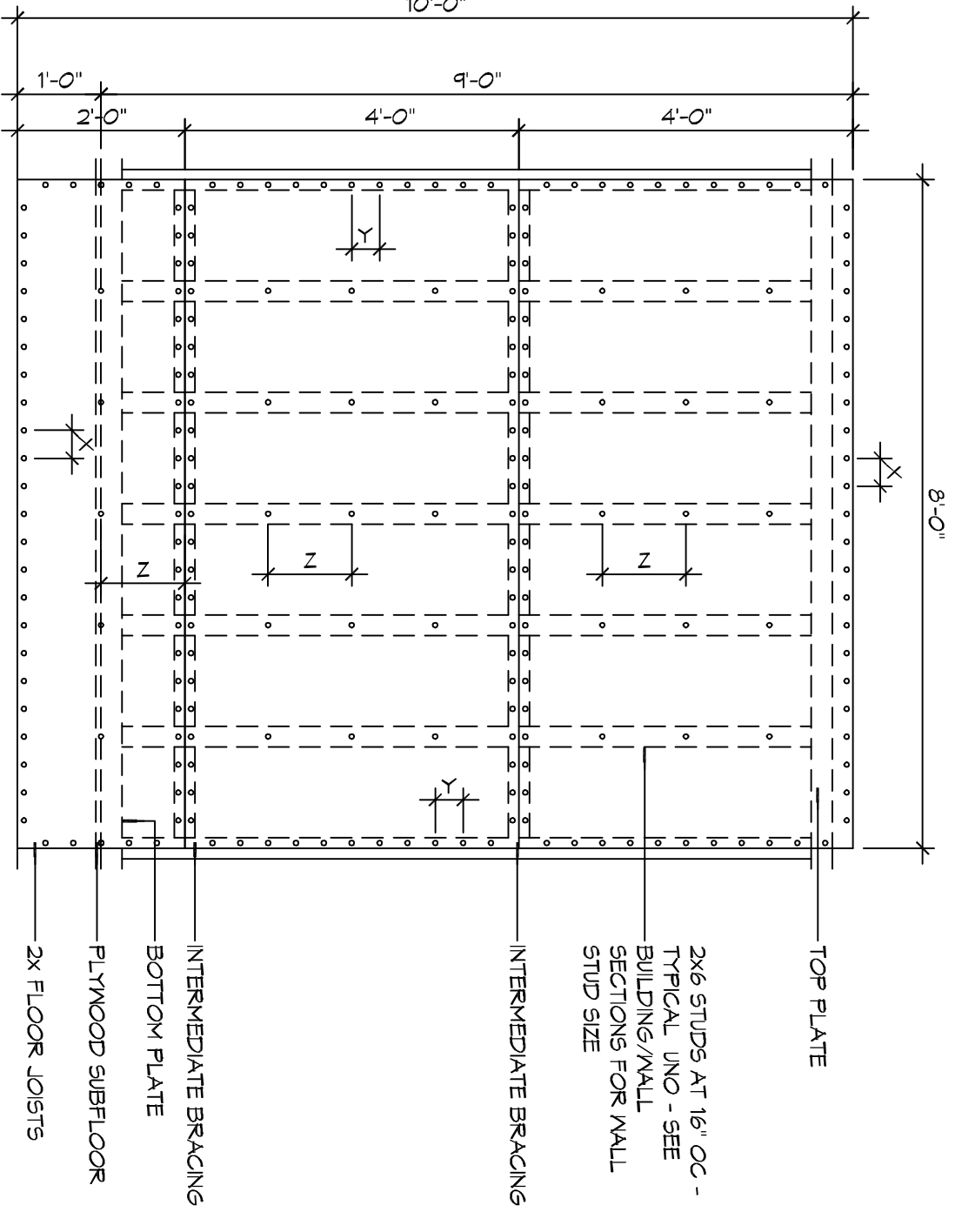
| HEADER SPAN (FT) | ROOF SPAN (FEET) |      |    |      |    |      |
|------------------|------------------|------|----|------|----|------|
|                  | 3'               | 4.5' | 5' | 6.5' | 3' | 6.5' |
| 2                | 1                | 1    | 1  | 1    | 1  | 1    |
| 4                | 1                | 1    | 1  | 1    | 1  | 1    |
| 6                | 1                | 1    | 1  | 1    | 1  | 1    |
| 8                | 1                | 1    | 1  | 1    | 1  | 1    |
| 10               | 1                | 1    | 1  | 1    | 1  | 1    |
| 12               | 1                | 1    | 1  | 1    | 1  | 1    |
| 14               | 2                | 1    | 1  | 1    | 1  | 1    |
| 16               | 2                | 1    | 1  | 1    | 1  | 1    |
| 2                | 1                | 1    | 1  | 1    | 1  | 1    |
| 4                | 1                | 1    | 1  | 1    | 1  | 1    |
| 6                | 2                | 1    | 1  | 1    | 1  | 1    |
| 8                | 2                | 1    | 1  | 1    | 1  | 1    |
| 10               | 2                | 1    | 1  | 1    | 1  | 1    |
| 12               | 3                | 2    | 2  | 2    | 2  | 2    |
| 14               | 3                | 2    | 2  | 2    | 2  | 2    |
| 16               | 4                | 3    | 3  | 3    | 3  | 3    |
| 2                | 1                | 1    | 1  | 1    | 1  | 1    |
| 4                | 1                | 1    | 1  | 1    | 1  | 1    |
| 6                | 2                | 1    | 1  | 1    | 1  | 1    |
| 8                | 2                | 1    | 1  | 1    | 1  | 1    |
| 10               | 2                | 1    | 1  | 1    | 1  | 1    |
| 12               | 3                | 2    | 2  | 2    | 2  | 2    |
| 14               | 3                | 2    | 2  | 2    | 2  | 2    |
| 16               | 4                | 3    | 3  | 3    | 3  | 3    |



| MAXIMUM GLAZING U-FACTOR | MINIMUM INSULATION R-VALUE |       |        |               | CEILING SPACE WALLS |
|--------------------------|----------------------------|-------|--------|---------------|---------------------|
|                          | CEILING                    | WALLS | FLOORS | BASMENT WALLS |                     |
| .75                      | R-26                       | R-13  | R-11   | R-5           | R-5                 |

### DESIGN CRITERIA

THE CONSTRUCTION FOR SAID RESIDENCE WHERE BASIC WIND SPEED IS 130 MPH PER HOUR WIND EXPOSURE ZONE C, IS DESIGNED IN ACCORDANCE WITH: AMERICAN FOREST AND PAPER ASSOCIATION (AF&PA) WOOD FRAME CONSTRUCTION MANUAL FOR ONE AND TWO FAMILY DWELLINGS (NFCM) 2001 EDITION AS WELL AS THE INTERNATIONAL RESIDENTIAL CODE (IRC) 2012 EDITION.



| HEADER SUPPORTING        | SIZE     | OPENING WIDTH (FT) |        |        |
|--------------------------|----------|--------------------|--------|--------|
|                          |          | 12                 | 24     | 36     |
| ONE FLOOR (CENTER BEAMS) | (2) 2x4  | 4'-4"              | 3'-1"  | 2'-6"  |
|                          | (2) 2x6  | 6'-5"              | 4'-6"  | 3'-0"  |
|                          | (2) 2x8  | 8'-1"              | 5'-4"  | 4'-0"  |
|                          | (2) 2x10 | 9'-11"             | 7'-0"  | 5'-4"  |
|                          | (2) 2x12 | 11'-6"             | 8'-1"  | 6'-7"  |
|                          | (3) 2x6  | 10'-2"             | 7'-2"  | 5'-10" |
|                          | (3) 2x10 | 12'-5"             | 8'-4"  | 7'-2"  |
|                          | (3) 2x12 | 14'-4"             | 10'-2" | 8'-9"  |
|                          | (4) 2x6  | 11'-6"             | 8'-5"  | 6'-4"  |
|                          | (4) 2x10 | 10'-1"             | 10'-1" | 8'-9"  |
|                          | (4) 2x12 | 11'-4"             | 11'-4" | 9'-7"  |
|                          | (4) 2x12 | 2'-10"             | 2'-1"  | 1'-9"  |
| (2) 2x6                  | 4'-2"    | 3'-1"              | 2'-6"  |        |
| (2) 2x8                  | 5'-4"    | 3'-11"             | 3'-3"  |        |
| (2) 2x10                 | 6'-6"    | 5'-6"              | 4'-7"  |        |
| (3) 2x10                 | 8'-1"    | 6'-0"              | 4'-0"  |        |
| (4) 2x6                  | 7'-8"    | 5'-8"              | 4'-0"  |        |
| (4) 2x10                 | 9'-4"    | 6'-10"             | 5'-0"  |        |
| (4) 2x12                 | 10'-10"  | 8'-0"              | 6'-7"  |        |

| SHEATHING LOCATION                  | RAFTER / TRUSS SPACING | MAX. NAIL SPACING FOR 6d COMMON NAILS (INCHES 0-0) |    |
|-------------------------------------|------------------------|--|----|
|                                     |                        | E  | F  |
| INTERIOR ZONE                       | 12" OC                 | 6  | 12 |
|                                     | 16" OC                 | 6  | 12 |
| PERIMETER EDGE ZONE                 | 12" OC                 | 6  | 12 |
|                                     | 16" OC                 | 6  | 12 |
| 130 MPH WIND - EXPOSURE "C" TYPICAL | 24" OC                 | 6  | 6  |
|                                     | 24" OC                 | 6  | 6  |

| SHEATHING LOCATION                  | STUD SPACING | MAX. NAIL SPACING FOR 6d COMMON NAILS (INCHES 0-0) |    |
|-------------------------------------|--------------|--|----|
|                                     |              | E  | F  |
| INTERIOR ZONE                       | 12" OC       | 6  | 12 |
|                                     | 16" OC       | 6  | 12 |
| PERIMETER EDGE ZONE                 | 12" OC       | 6  | 12 |
|                                     | 16" OC       | 6  | 12 |
| 130 MPH WIND - EXPOSURE "C" TYPICAL | 24" OC       | 6  | 6  |
|                                     | 24" OC       | 6  | 6  |

| FASTENER TYPE           | FASTENER SPACING |                             |                           |
|-------------------------|------------------|-----------------------------|---------------------------|
|                         | PANEL SPAN ≤ 4'  | 4' PANEL SPAN 5' 0" - 8' 0" | 8' PANEL SPAN 8' 0" - 12' |
| 2 1/2" x 6" WOOD SCREWS | 16"              | 12"                         | 9"                        |
| 2 1/2" x 8" WOOD SCREWS | 16"              | 12"                         | 12"                       |

| DESCRIPTION       | NUMBER OF COMMON NAILS | NUMBER OF BOX NAILS | SPACING                  |                          |
|-------------------|------------------------|---------------------|--------------------------|--------------------------|
|                   |                        |                     |                          | 6d OC EDGES (FACE VALUE) |
| HEADER TO HEADERS | 8d                     | 10d                 | 6" OC EDGES (FACE VALUE) | 12" OC FIELD             |

| HEADER SUPPORTING | HEADER SPAN (FT) | NUMBER OF JACK STUDS REQUIRED |      |    |
|-------------------|------------------|-------------------------------|------|----|
|                   |                  | 3'                            | 4.5' | 5' |
| ROOF AND CEILING  | 2                | 1                             | 1    | 1  |
|                   | 4                | 1                             | 1    | 1  |
|                   | 6                | 2                             | 1    | 1  |
|                   | 8                | 2                             | 1    | 1  |
|                   | 10               | 3                             | 2    | 2  |
|                   | 12               | 3                             | 2    | 2  |
|                   | 14               | 4                             | 3    | 2  |
|                   | 16               | 4                             | 3    | 2  |
|                   | 2                | 1                             | 1    | 1  |
|                   | 4                | 2                             | 1    | 1  |
|                   | 6                | 2                             | 2    | 2  |
|                   | 8                | 3                             | 2    | 2  |
| 10                | 4                | 3                             | 2    |    |
| 12                | 4                | 3                             | 2    |    |
| 14                | 5                | 3                             | 3    |    |
| 16                | 5                | 4                             | 3    |    |











| HEADER SIZE | SPAN   | NUMBER FULL HEIGHT STUDS REQ AT END |       |
|-------------|--------|-------------------------------------|-------|
|             |        | U                                   | L     |
| (2) 2x4     | 4'-1"  | TWO                                 | TWO   |
| (2) 2x6     | 5'-6"  | THREE                               | THREE |
| (2) 2x8     | 6'-11" | THREE                               | THREE |
| (2) 2x10    | 6'-8"  | THREE                               | THREE |
| (2) 2x12    | 7'-1"  | THREE                               | THREE |
| (3) 2x6     | 7'-5"  | THREE                               | THREE |
| (3) 2x10    | 8'-3"  | THREE                               | THREE |
| (3) 2x12    | 8'-1"  | THREE                               | THREE |
| (4) 2x6     | 9'-8"  | THREE                               | THREE |
| (4) 2x12    | 10'-0" | FOUR                                | FOUR  |











| REVISIONS | DATE |
|-----------|------|
|           |      |
|           |      |

REVISIONS

**DAMMON ENGINEERING INC.**  
LOUISIANA & MISSISSIPPI

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RENOVATIONS AND ADDITIONS TO  
**WINDMILL**

1000 SHIRLEY STREET  
METairie, LA 70003

JOB No: [REDACTED] DATE: 10-26-16  
DRAWN BY: JTL CHECKED BY: BAM

**A103**

SHEET NO. 1 OF 1