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ARCHITECTURE
 ENGINEERING
 STUDIES
 PLANNING
 INVESTIGATION
 EXPERT WITNESS

ADDITION TO
 LOUIS NEFF
 LOG HOME AT 21
 LOG CABIN LANE
 SUIDELL, LA

SCHEDULES
 & NOTES

REV:

SCALE: AS NOTED

JOB#: 2079

DATE: 10-11-10

SHEET 6

A-3

OF 12

UPLIFT CONNECTIONS-130 MPH WINDS EXP. "B"					
CONNECTION	FRAMING SPACING (in.)	ROOF SPAN (ft.)	U	L	S
ROOF ASSEMBLY TO WALL ASSEMBLY	16" O.C.	17	386	246	109R
WALL ASSEMBLY TO WALL ASSEMBLY	16" O.C.	17	386	246	109R
WALL ASSEMBLY TO FOUNDATION	16" O.C.	17	170	185	436
					4

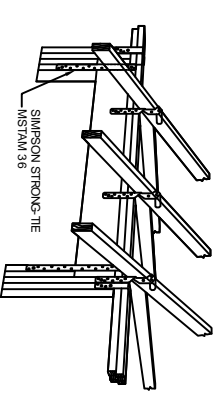
THERMAL COMPONENT CRITERIA (U-FACTOR AND R-VALUE)

MAX GLAZING U-FACTOR	MINIMUM INSULATION R-VALUE				
	CEILINGS	WALLS	FLOORS	BASEMENT WALLS	CRAWL SPACE WALLS
.75	R-26	R-13	R-11	R-5	R-5

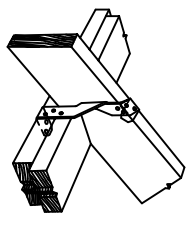
WINDBORNE DEBRIS PROTECTION FASTENING SCHEDULE FOR WOOD STRUCTURAL PANELS

FASTENER TYPE	FASTENER SPACING		
	PANEL SPAN ≤ 4 FOOT	PANEL SPAN ≤ 6 FOOT	PANEL SPAN ≤ 8 FOOT
2-1/2" #6 WOOD SCREWS	16"	12"	9"
2-1/2" #8 WOOD SCREWS	16"	16"	12"

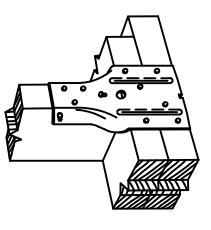
WINDOWS IN BUILDINGS LOCATED IN WIND BORNE DEBRIS REGIONS SHALL HAVE GLAZED PANELS PROTECTED FROM WINDBORNE DEBRIS BY WOOD STRUCTURAL PANELS WITH A MINIMUM OF 1/4" CLEARANCE BETWEEN PANELS. PANELS SHALL BE RECORDED OPENING PROTECTION IN ONE AND TWO STORY BUILDINGS. PANELS SHALL BE RECORDED TO COVER THE GLAZED OPENINGS WITH ATTACHMENT HARDWARE PROVIDED.



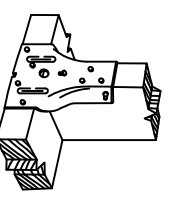
HEADER TO TOP PLATE DETAIL
 NTS



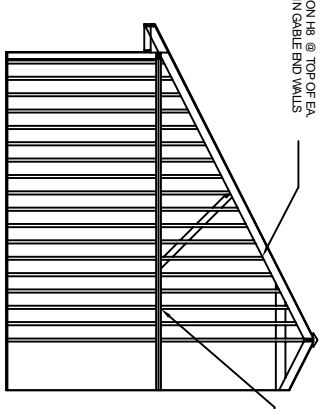
TOP PLATE TO RAFTER DETAIL
 NTS



STUD TO TOP PLATE DETAIL
 NTS



STUD TO SOLE PLATE DETAIL
 NTS



END WALL STRAPPING
 NTS

HEADER SUPPORTING	HEADER SPAN (ft.)	ROOF SPAN (ft.)				
		12 FEET	15 FEET	24 FEET	36 FEET	48 FEET
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	1	1	1	1	1	1
16	1	1	1	1	1	1
18	1	1	1	1	1	1
20	1	1	1	1	1	1
22	1	1	1	1	1	1
24	1	1	1	1	1	1
26	1	1	1	1	1	1
28	1	1	1	1	1	1
30	1	1	1	1	1	1
32	1	1	1	1	1	1
34	1	1	1	1	1	1
36	1	1	1	1	1	1
38	1	1	1	1	1	1
40	1	1	1	1	1	1
42	1	1	1	1	1	1
44	1	1	1	1	1	1
46	1	1	1	1	1	1
48	1	1	1	1	1	1
50	1	1	1	1	1	1
52	1	1	1	1	1	1
54	1	1	1	1	1	1
56	1	1	1	1	1	1
58	1	1	1	1	1	1
60	1	1	1	1	1	1
62	1	1	1	1	1	1
64	1	1	1	1	1	1
66	1	1	1	1	1	1
68	1	1	1	1	1	1
70	1	1	1	1	1	1
72	1	1	1	1	1	1
74	1	1	1	1	1	1
76	1	1	1	1	1	1
78	1	1	1	1	1	1
80	1	1	1	1	1	1
82	1	1	1	1	1	1
84	1	1	1	1	1	1
86	1	1	1	1	1	1
88	1	1	1	1	1	1
90	1	1	1	1	1	1
92	1	1	1	1	1	1
94	1	1	1	1	1	1
96	1	1	1	1	1	1
98	1	1	1	1	1	1
100	1	1	1	1	1	1

HEADER SUPPORTING	SIZE	BLDG. WIDTH (ft.)		
		12	24	36
2 FLOOR ONLY (GIRDER BEARING)	2x4	4-4"	3-11"	2-6"
	2x6	6-5"	4-8"	3-8"
	2x8	8-11"	5-9"	4-8"
	2x10	9-11"	7-0"	5-9"
	2x12	11-6"	8-1"	6-7"
	2x14	12-5"	8-9"	7-2"
	2x16	14-4"	10-2"	8-3"
	2x18	11-6"	8-3"	6-9"
	2x20	14-4"	10-1"	8-3"
	2x22	11-6"	8-3"	6-9"
	2x24	2-10"	2-1"	1-8"
	2x26	4-2"	3-1"	2-6"
	2x28	5-4"	3-11"	3-3"
	2x30	6-6"	4-9"	4-7"
	2x32	7-8"	5-6"	5-11"
	2x34	8-8"	6-10"	6-11"
	2x36	9-5"	6-4"	6-8"
	2x38	10-10"	6-10"	6-8"
	2x40	10-10"	8-0"	6-7"

HEADER SUPPORTING	HEADER SPAN (ft.)	HEADER WIDTH		
		3" 4.5"	5" 6.5"	6" 7.5"
2	1	1	1	1
4	1	1	1	1
6	1	1	1	1
8	1	1	1	1
10	1	1	1	1
12	1	1	1	1
14	1	1	1	1
16	1	1	1	1
18	1	1	1	1
20	1	1	1	1
22	1	1	1	1
24	1	1	1	1
26	1	1	1	1
28	1	1	1	1
30	1	1	1	1
32	1	1	1	1
34	1	1	1	1
36	1	1	1	1
38	1	1	1	1
40	1	1	1	1
42	1	1	1	1
44	1	1	1	1
46	1	1	1	1
48	1	1	1	1
50	1	1	1	1
52	1	1	1	1
54	1	1	1	1
56	1	1	1	1
58	1	1	1	1
60	1	1	1	1
62	1	1	1	1
64	1	1	1	1
66	1	1	1	1
68	1	1	1	1
70	1	1	1	1
72	1	1	1	1
74	1	1	1	1
76	1	1	1	1
78	1	1	1	1
80	1	1	1	1
82	1	1	1	1
84	1	1	1	1
86	1	1	1	1
88	1	1	1	1
90	1	1	1	1
92	1	1	1	1
94	1	1	1	1
96	1	1	1	1
98	1	1	1	1
100	1	1	1	1

DESCRIPTION	NUM. OF COM. NAILS	NUM. OF BOX NAILS	SPACING
HEAD TO HEAD (FEET/INCHES)	8d	10d	12"

SHEATHING LOCATION	STUD SPAC. (INCHES, O.C.)	MAX NAIL SPAC. FOR 8d COM. NAILS OR 10d BOX NAILS (INCHES, O.C.)	
		E	F
INTERIOR ZONE	12" O.C.	6	12
	16" O.C.	6	12
	24" O.C.	6	12
PERIMETER EDGE ZONE	12" O.C.	6	12
	16" O.C.	6	12
	24" O.C.	6	12

SHEATHING LOCATION	RAFTER/TRUSS SPAC. (INCHES, O.C.)	MAX NAIL SPAC. FOR 8d COM. NAILS OR 10d BOX NAILS (INCHES, O.C.)	
		E	F
INTERIOR ZONE	12" O.C.	6	12
	16" O.C.	6	12
	24" O.C.	6	12
PERIMETER EDGE ZONE	12" O.C.	6	12
	16" O.C.	6	12
	24" O.C.	6	12

SILL or BOTTOM PLATE TO FND. CONNECTIONS RESISTING UPLIFT LOADS-130MPH WINDS EXP. "B"			
ANCHOR BOLT CONNECTION RESISTING	FOUNDATION SUPPORTING	MAX ANCHOR BOLT SPACING (in.)	
		8 END ZONES	INTERIOR ZONES
UPLIFT LOADS	1-3 STORES	28	33

SILL or BOTTOM PLATE TO FND. CONNECTIONS RESISTING SHEAR LOADS-130MPH WINDS EXP. "B"			
ANCHOR BOLT CONNECTION RESISTING	FOUNDATION SUPPORTING	MAX ANCHOR BOLT SPACING (in.)	
		1/2" ANC. BOLTS	5/8" ANC. BOLTS
SHEAR LOADS	1-3 STORES	30	45

DESIGN CRITERIA:
 THE CONSTRUCTION FOR SAID RESIDENCE, WHERE BASIC WIND SPEED IS 130 MPH PER HOUR, IS DESIGNED IN ACCORDANCE WITH THE INTERNATIONAL RESIDENTIAL CODE (IRC) AS WELL AS THE INTERNATIONAL RESIDENTIAL CODE (IRC) 2006 EDITION.

- ROOF UNDERLAMENT APPLICATION**
- FOR ROOF SLOPES FROM TWO UNITS VERTICAL IN 12 UNITS HORIZONTAL (17-PERCENT SLOPE), UP TO FOUR UNITS VERTICAL IN 12 UNITS HORIZ (33-PERCENT SLOPE), UNDERLAMENT SHALL BE TWO LAYERS APPLIED IN THE FOLLOWING MANNER:
- APPLY A 1/8 INCH STRIP OF UNDERLAMENT FELT PARALLEL WITH AND STARTING AT THE EAVES, FASTENED SUFFICIENTLY TO HOLD IN PLACE SUCCESSIVE SHEETS 19 INCHES, AND FASTENED SUFFICIENTLY TO HOLD IN PLACE
- FOR ROOF SLOPES OF FOUR UNITS VERTICAL IN 12 UNITS HORIZONTAL (33-PERCENT SLOPE) OR GREATER, UNDERLAMENT SHALL BE ONE LAYER APPLIED IN THE FOLLOWING MANNER:
- UNDERLAMENT SHALL BE APPLIED SHINGLE FASHION, PARALLEL TO AND STARTING FROM THE EAVE AND LAPPED 2 INCHES, FASTENED SUFFICIENTLY TO HOLD IN PLACE. END LAPS SHALL BE OFFSET BY 6 FEET.
- SHINGLE APPLICATION FASTENING**
- ASPHALT STRIP SHINGLES SHALL HAVE A MINIMUM OF SIX FASTENERS PER SHINGLE WHERE THE ROOF IS IN ONE OF THE FOLLOWING CATEGORIES:
1. THE BASIC WIND SPEED IS 110 MPH OR GREATER AND THE EAVE IS 20 FEET OR HIGHER ABOVE GRADE.
 2. THE BASIC WIND SPEED IS 120 MPH OR GREATER.
 3. SPECIAL WIND ZONES.

UPLIFT CONNECTIONS

ROOF ASSEMBLY TO WALL ASSEMBLY:
 UPLIFT CONNECTIONS SHALL BE FROM RAFTER OR TRUSS TO WALL STUD. WHEN RAFTERS OR TRUSSES ARE NOT LOCATED DIRECTLY ABOVE STUDS, RAFTERS SHALL BE ATTACHED TO THE WALL PLATE AND THE WALL TOP PLATE SHALL BE ATTACHED TO THE WALL STUD WITH UPLIFT CONNECTIONS. UPLIFT CONNECTIONS SHALL BE IN ACCORDANCE WITH TABLE.

WALL ASSEMBLY TO WALL ASSEMBLY:
 STORY TO STORY UPLIFT CONNECTIONS FROM UPPER STORY WALL STUD TO LOWER STORY WALL STUD SHALL BE MADE WITH STEEL STUDS ARE NOT LOCATED DIRECTLY ABOVE LOWER WALL STUDS, THE STUDS SHALL BE ATTACHED TO A COMMON MEMBER IN THE FLOOR ASSEMBLY BY UPLIFT CONNECTIONS. UPLIFT CONNECTIONS SHALL BE IN ACCORDANCE WITH TABLE.

WALL ASSEMBLY TO FOUNDATION:
 FIRST FLOOR WALL STUDS SHALL BE CONNECTED TO THE FOUNDATION, SILL, PLATE, OR BOTTOM PLATE. A MINIMUM OF A 1-1/4" X 20 GA. ASTM A653 GRADE 33 STEEL STRAP SHALL BE Nailed TO THE WALL STUDS AND HAVE A MINIMUM EMBEDMENT OF 1 INCHES IN CONCRETE FOUNDATIONS, OR BE LAPPED UNDER THE BOTTOM PLATE. 3 INCH SQUARE WASHERS SHALL NOT EXCEED THE REQUIREMENTS. STEEL STRAPS EMBEDDED IN OR IN CONTACT WITH SLAB-ON-GRADE OR MASONRY BLOCK FOUNDATIONS SHALL BE HOT DIPPED GALV. GALV. CONNECTIONS SHALL BE IN ACCORDANCE WITH TABLE.