

date: 20 January 2025
drawn by: J A McRae

ALL FLOOR JOISTS
11 7/8 BCI 5000 @ 19.2
or 2 x 10 @ 16 # 2 SPF or Better
ORIENTED Left to Right

SAWY. LUMBER 40 PSF Floor Loads
 2 X 10 @ 16 UP TO 1'-2"
 2 X 10 @ 8 DOUBLE EVERY THIRD 15'-5"
 2 X 10 @ 16 DOUBLE EVERY OTHER 15'-5"
 (2) 2 X 10 @ 16 DOUBLE ALL UP TO 17'-6"

SAWY. LUMBER (20 + 10) Ceiling Loads
 2 X 6 @ 16 UP TO 11'-6"
 2 X 8 @ 16 up to 15'-6"
 2 X 10 @ 16 up to 17'-4"
 ALL #2 SPF or Better

Structural Design By:
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P O Box 1466 Apex, NC 27502
Report deficiencies immediately
2501-06
(NC C-2298)



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

Design to IRC 2015 NCRC Residential Code 2018

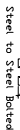
plan no.
2501-06

MAPLE LEAF
From Dowd Designs 71120

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Residential and Commercial Engineering (NC C-2298)
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date: 20 January 2025



First Floor Framing Plan

3170 SF AT TEN Foot Ceiling Height
Garages 976 SF Porches 558 SF

Design to IRC 2015 NCRC Residential Code 2018

MAPLE LEAF
From Dowd Designs 71120

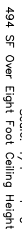
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QUEST, INC. does not assume liability for any deviation of these plans or construction methods. All interpretations must be confirmed by contractor prior to commencement of construction.

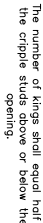
sheet no. S2 of S4
plan no. 2501-06

Practical bands of cover
22 On edge of top plate
outside 27 around corner
each way



Rec Room Attic Plan

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



All Untails
 5 x 3 1/2" Up to five feet
 6 x 4 x 5/16 Over Five Feet



1/2" x 3 1/2" Jugs
 or through bolts

DESIGN TO IRC 2015 NCRC 2018

All referred to be approved 2004, 2144, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 2681, 2682, 2683, 2684, 2685, 2686, 2687, 2688, 2689, 2690, 2691, 2692, 2693, 2694, 2695, 2696, 2697, 2698, 2699, 2700, 2701, 2702, 2703, 2704, 2705, 2706, 2707, 2708, 2709, 2710, 2711, 2712, 2713, 2714, 2715, 2716, 2717, 2718, 2719, 2720, 2721, 2722, 2723, 2724, 2725, 2726, 2727, 2728, 2729, 2730, 2731, 2732, 2733, 2734, 2735, 2736, 2737, 2738, 2739, 2740, 2741, 2742, 2743, 2744, 2745, 2746, 2747, 2748, 2749, 2750, 2751, 2752, 2753, 2754, 2755, 2756, 2757, 2758, 2759, 2760, 2761, 2762, 2763, 2764, 2765, 2766, 2767, 2768, 2769, 2770, 2771, 2772, 2773, 2774, 2775, 2776, 2777, 2778, 2779, 2780, 2781, 2782, 2783, 2784, 2785, 2786, 2787, 2788, 2789, 2790, 2791, 2792, 2793, 2794, 2795, 2796, 2797, 2798, 2799, 2800, 2801, 2802, 2803, 2804, 2805, 2806, 2807, 2808, 2809, 2810, 2811, 2812, 2813, 2814, 2815, 2816, 2817, 2818, 2819, 2820, 2821, 2822, 2823, 2824, 2825, 2826,

ALL FLOOR JOISTS 2 X 10 @16
ALL CEILING JOIST 2 X 8 @ 16 Up To 15'
2 X 6 @ 16 Up To 11'
#2 SPF OR BETTER
ALL EXTERIOR AND BEARING JOIST (2) 2"x10" u.s.a.
ALL TR. BEAMS/CLERS 3 STD. COLUMNS EACH END u.s.a.
ALL FRAMING #2 SPF OR BETTER u.s.a.



Second Floor Framing Plan

1215 SF AT NINE Foot Ceiling Height

Porches 290 Sf

Design to IRC 2015 NCRC Residential Code 2018

STATE, INC. does not assume liability for any portion of these plans or construction methods. All fabrication must be certified by contractor prior to commencement of construction.

date: 00 January 2000

drawn by:

cf. *oe*



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MAPLE LEAF
From Dowd Designs 71120

date: 20 January 2025

DESIGN TO IRC 2015 NCRC 2018

all rafters
2 x 8 @ 16' #2
spt or better
all ridges 2 x 10 u.o.
fur ridge as required to
provide full rafter contact
fur rafters as required to
meet insulation code
10' minimum nail with 5-12d
nails from each side
IRC 2015 / NRC 2012 increases
attic / Ceiling insulation to R-38



(3) 2 x 8	(2) 2 x 10
(3) 2 x 8	(2) 2 x 10

DESIGN TO IRC 2015 NCHRP 2018a

DESIGN TO IRC 2015 NCRC 2018

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

plan no.
2501-06

MAPLE LEAF
From Dowd Designs 71120

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