

APPENDIX

V

Noise and Vibration Assessment—Construction and Road Traffic

Part 4 of 4

BORDER TO GOWRIE REVISED DRAFT ENVIRONMENTAL IMPACT STATEMENT

APPENDIX

V

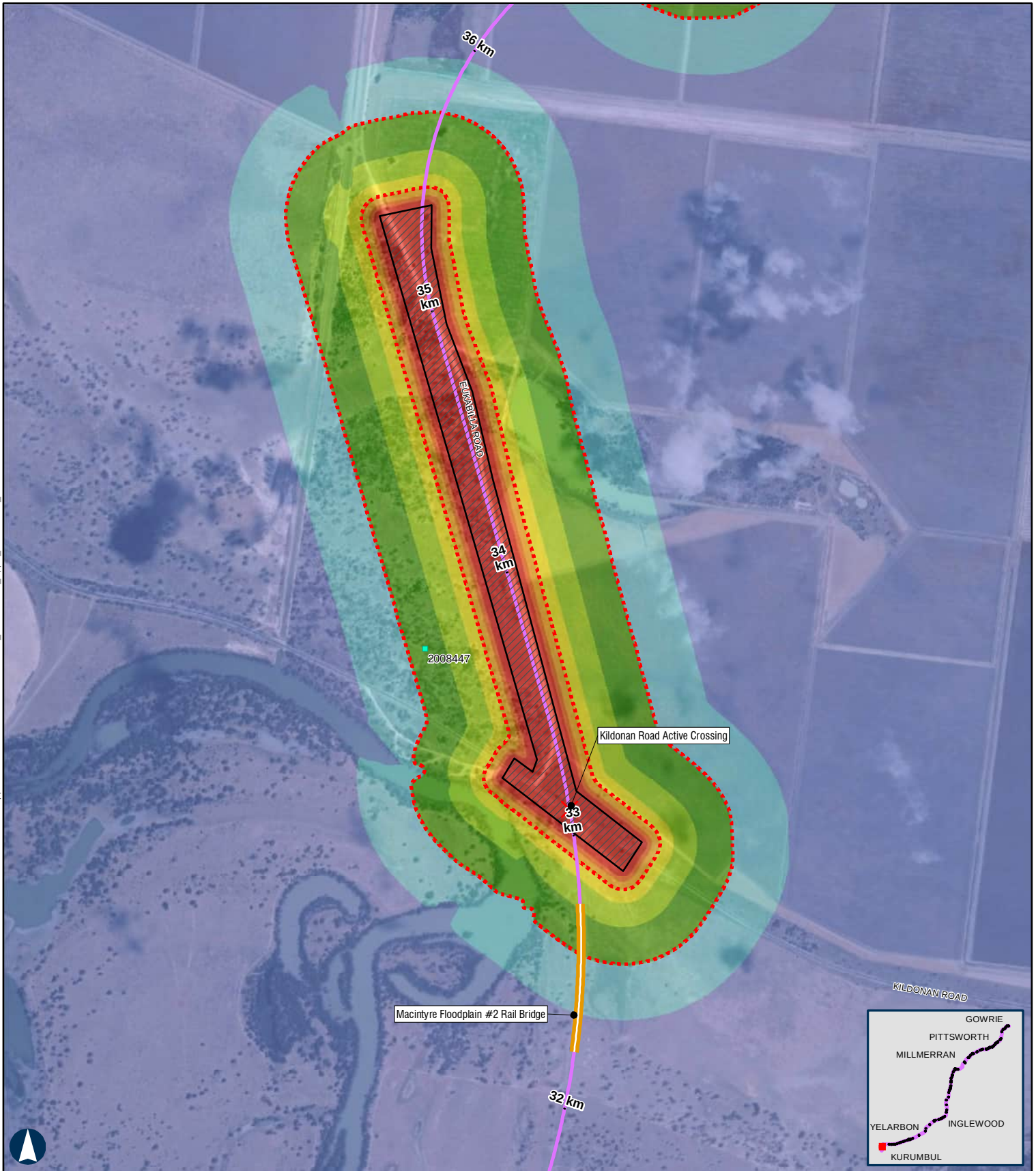
Noise and Vibration Assessment—Construction and Road Traffic

Appendix D Predicted construction noise level contour maps

CONTINUED

BORDER TO GOWRIE REVISED DRAFT ENVIRONMENTAL IMPACT STATEMENT

\\au.sl.local\Corporate\Projects\SLR\620-BNE\620-031489-00001\Inland Rail B2G Construction R06 SLR Data\01_CAD\GIS\GISConstruction noise contour\Appendix D - Noise Contours\620031489_Construction_AppD_Scenario 18_Standard hours.mxd



BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Standard Hours

APPENDIX D - MAP 1 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

- ✗ Level Crossings
- Flying Fox Camp
- ⋯ Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels

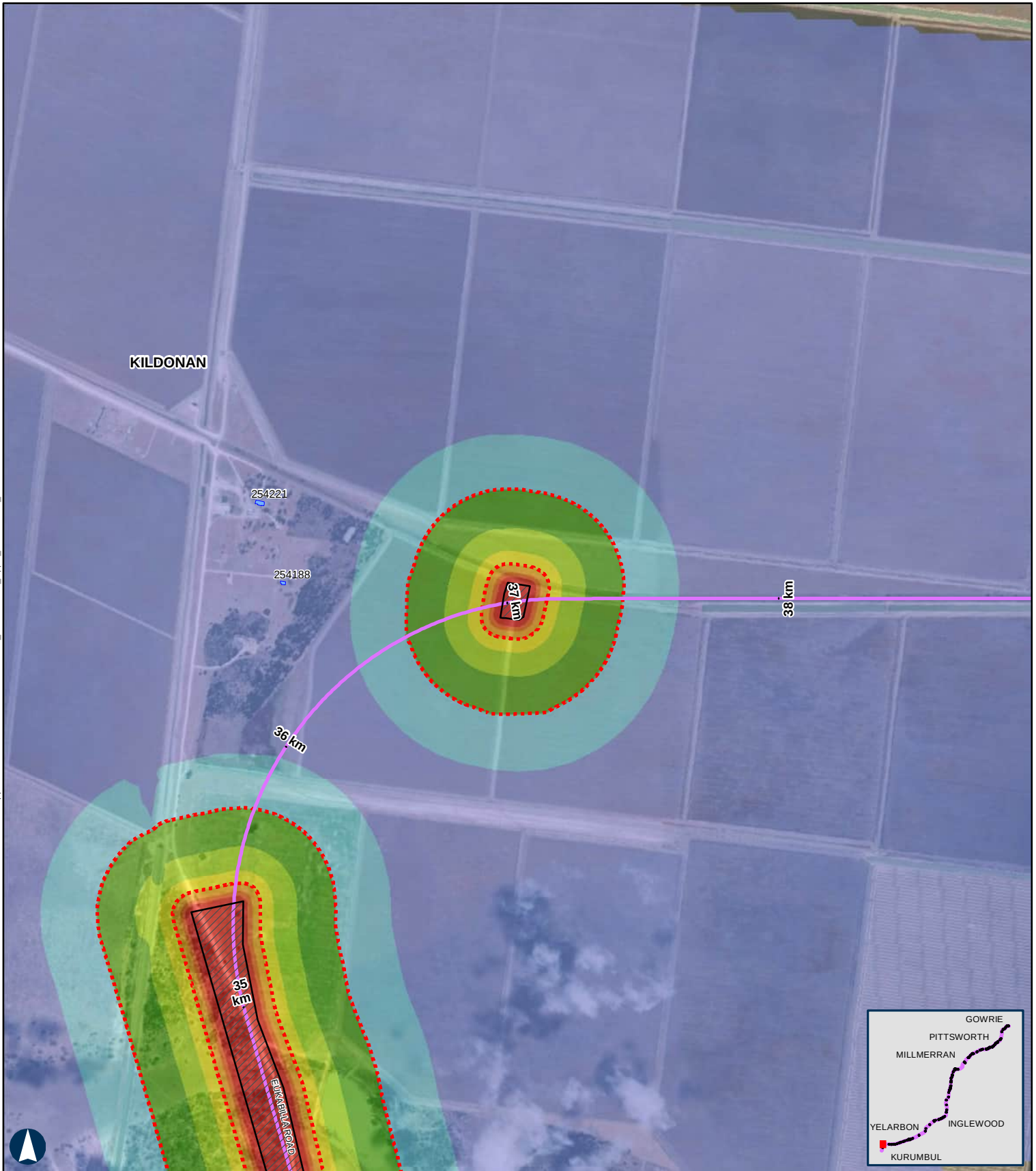
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA



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BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Standard Hours

APPENDIX D - MAP 2 OF 54

100m

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- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

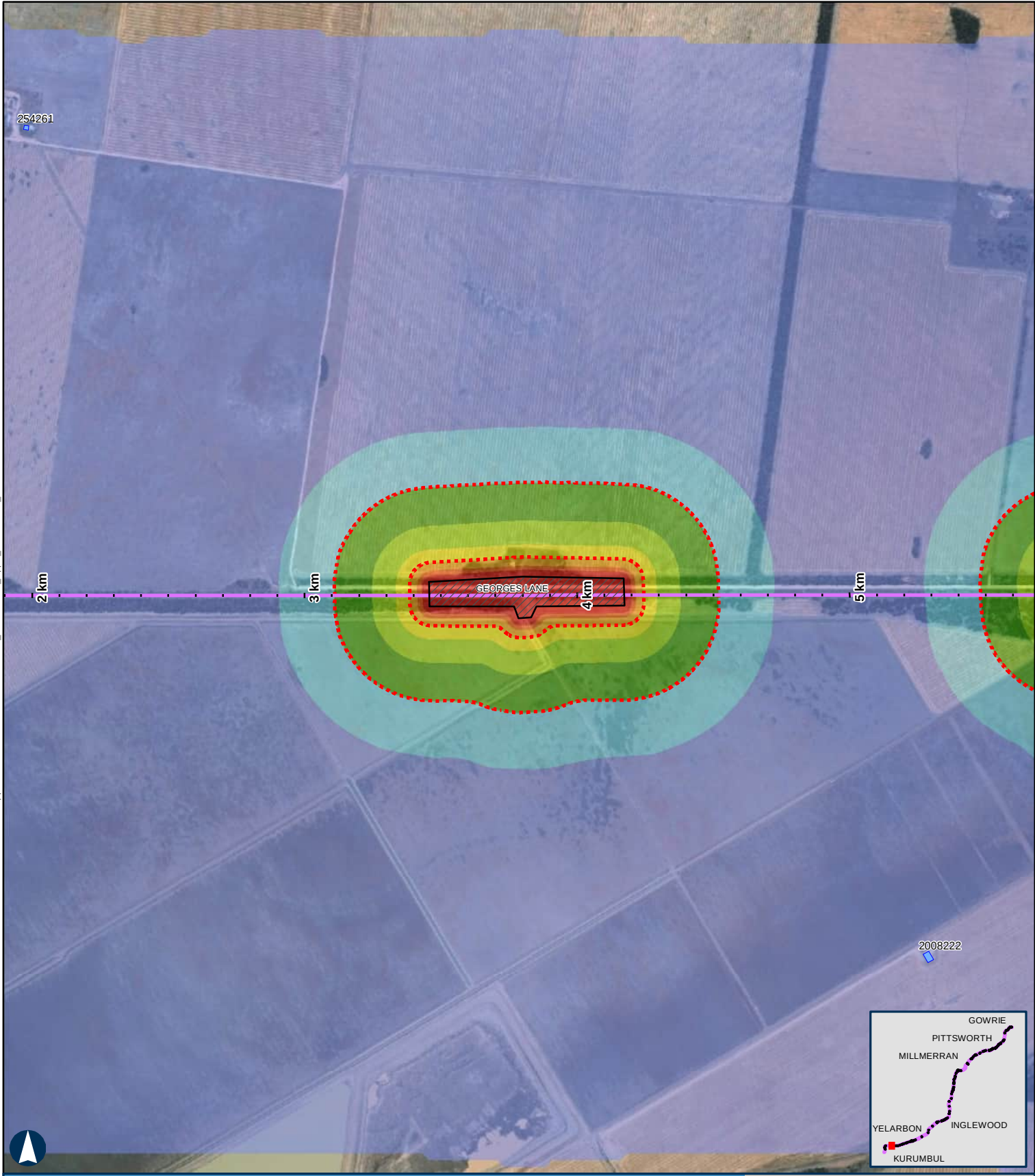
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
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BORDER TO GOWRIE

**Scenario 18 - Road Civil - Asphalt
Standard Hours**

APPENDIX D - MAP 3 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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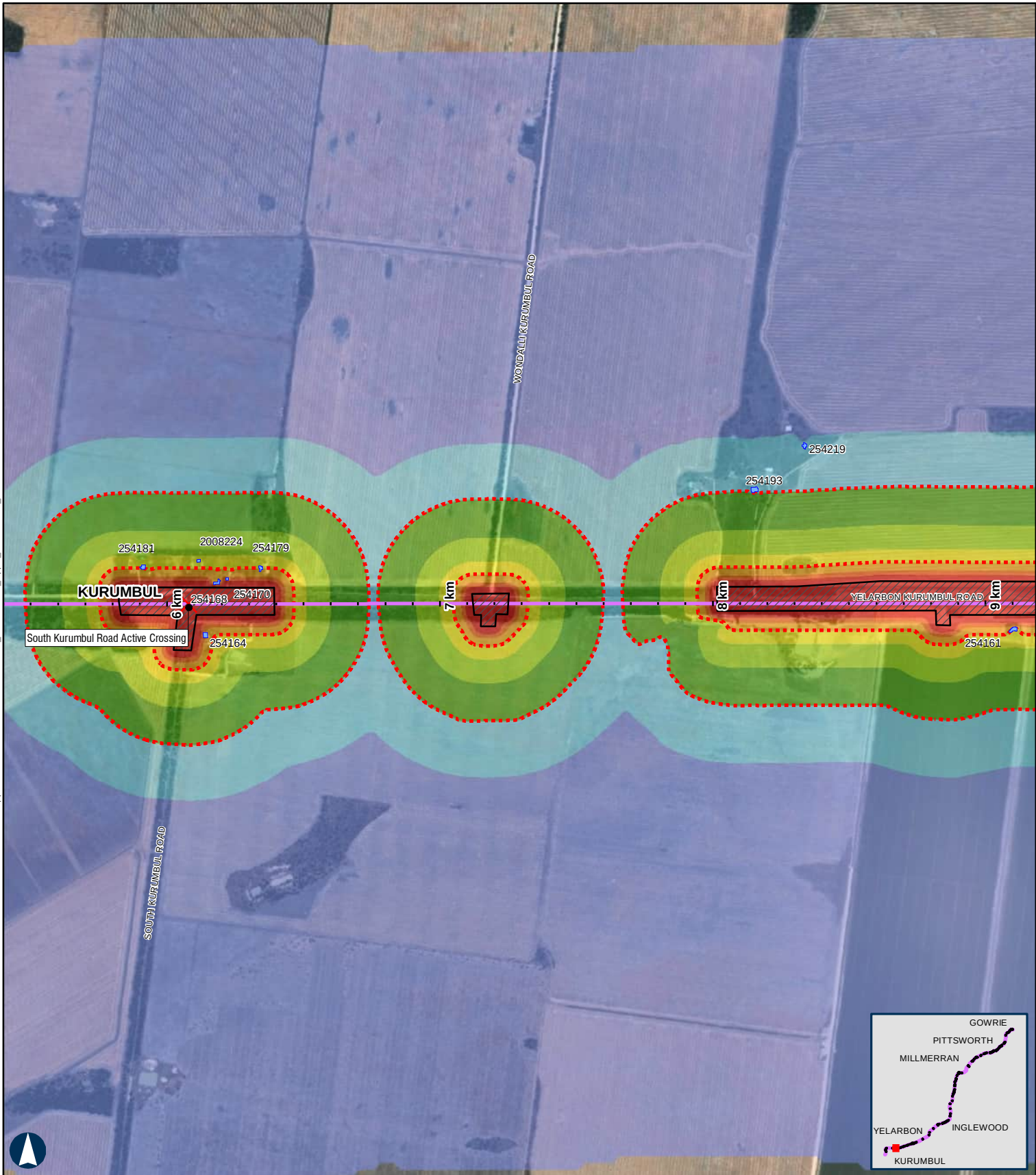
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Author: JG

- | | | |
|----------------------------|---------------------|-----------|
| Level Crossings | Residential | <45 dBA |
| Flying Fox Camp | Community | 45-50 dBA |
| Criteria (50 and 65 dBA) | Educational | 50-55 dBA |
| Project Extent | Commercial | 55-60 dBA |
| Crossing Loops | Parkland | 60-65 dBA |
| Bridges and Viaducts | Future Developments | 65-70 dBA |
| Rail Alignment/ Centreline | | 70-75 dBA |
| Work Area | | >75 dBA |
| Koala Habitat Area | | |

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BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Standard Hours

APPENDIX D - MAP 4 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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- Flying Fox Camp
- ⋯ Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

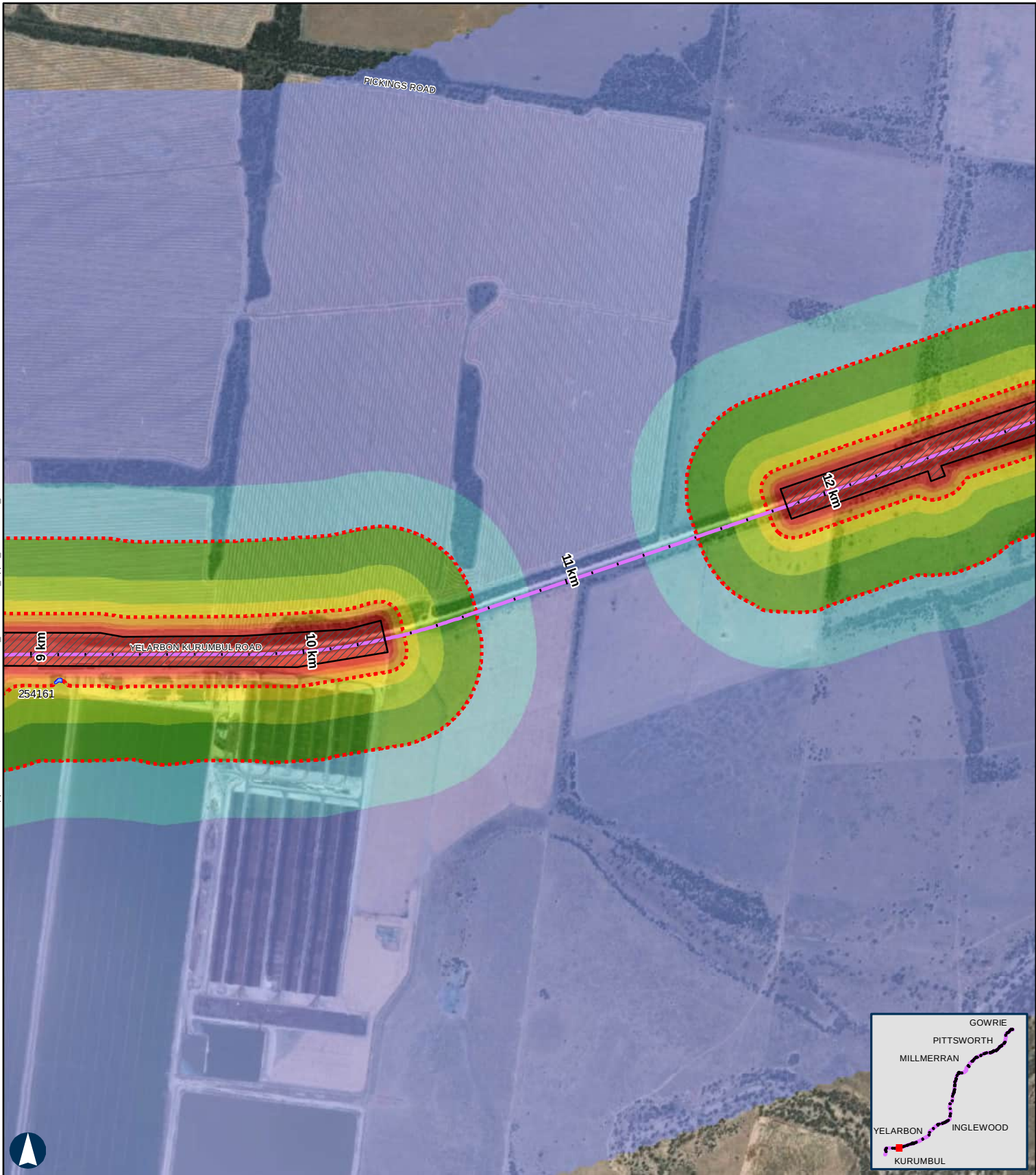
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA

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BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Standard Hours

APPENDIX D - MAP 5 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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- ✗ Level Crossings
- Flying Fox Camp
- ⋯ Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

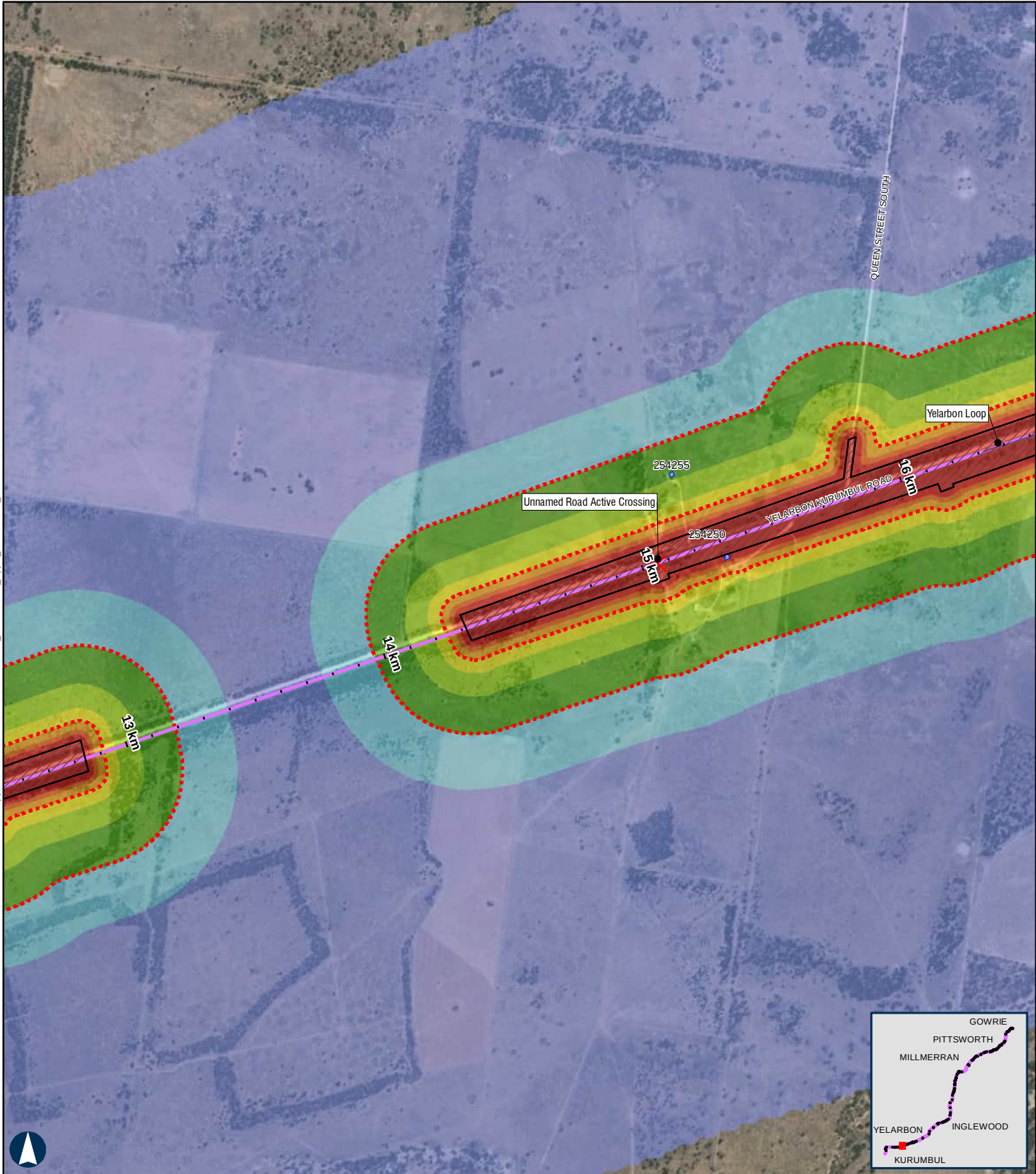
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
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BORDER TO GOWRIE

**Scenario 18 - Road Civil - Asphalt
Standard Hours**

APPENDIX D - MAP 6 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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- ✕ Level Crossings
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- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

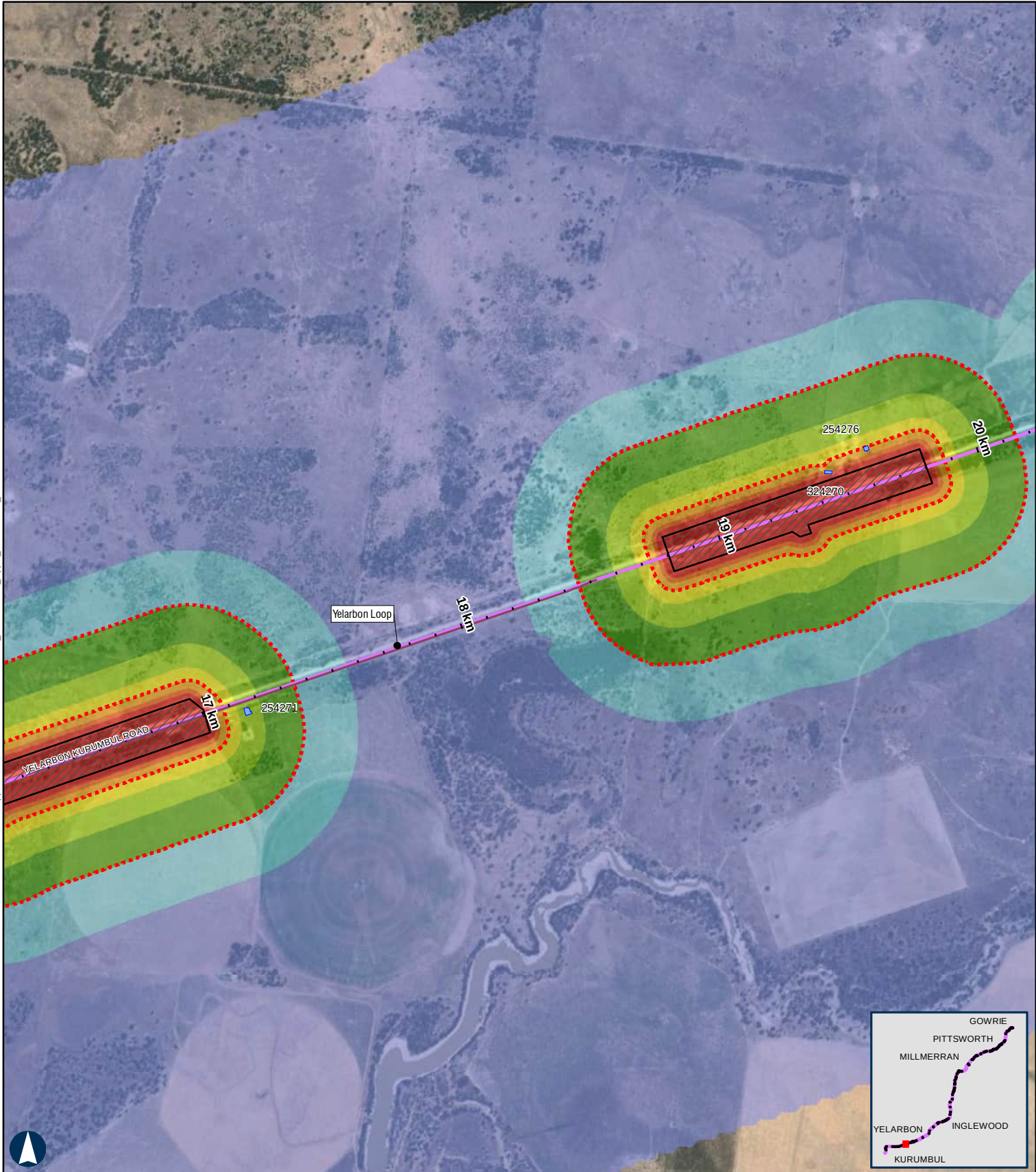
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
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BORDER TO GOWRIE

**Scenario 18 - Road Civil - Asphalt
Standard Hours**

APPENDIX D - MAP 7 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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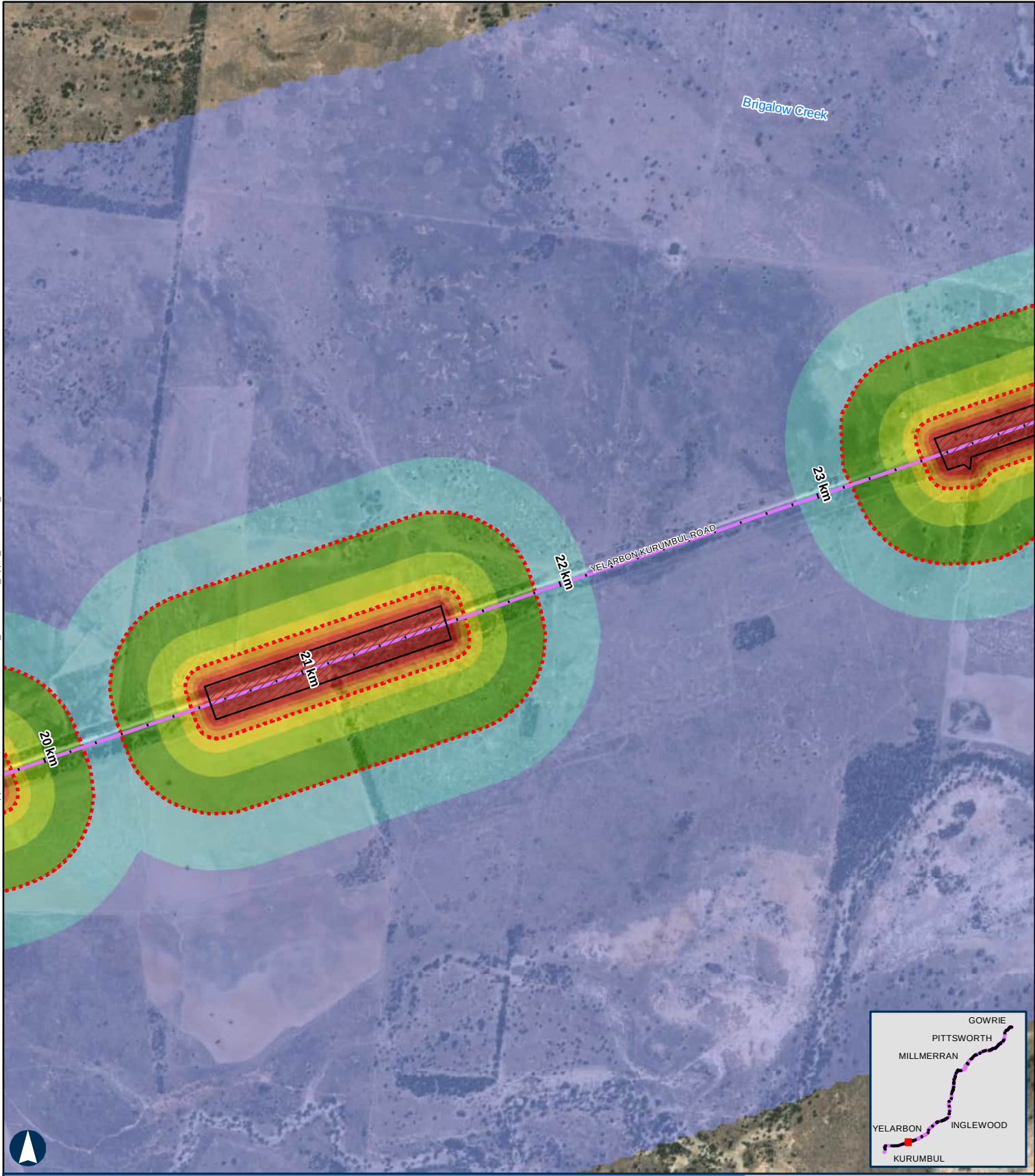
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- | | | |
|----------------------------|---------------------|-----------|
| Level Crossings | Residential | <45 dBA |
| Flying Fox Camp | Community | 45-50 dBA |
| Criteria (50 and 65 dBA) | Educational | 50-55 dBA |
| Project Extent | Commercial | 55-60 dBA |
| Crossing Loops | Parkland | 60-65 dBA |
| Bridges and Viaducts | Future Developments | 65-70 dBA |
| Rail Alignment/ Centreline | | 70-75 dBA |
| Work Area | | >75 dBA |
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BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Standard Hours

APPENDIX D - MAP 8 OF 54

100m

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- ▨ Work Area
- ▨ Koala Habitat Area

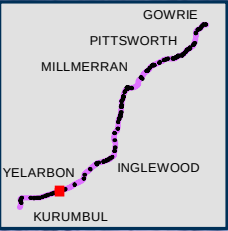
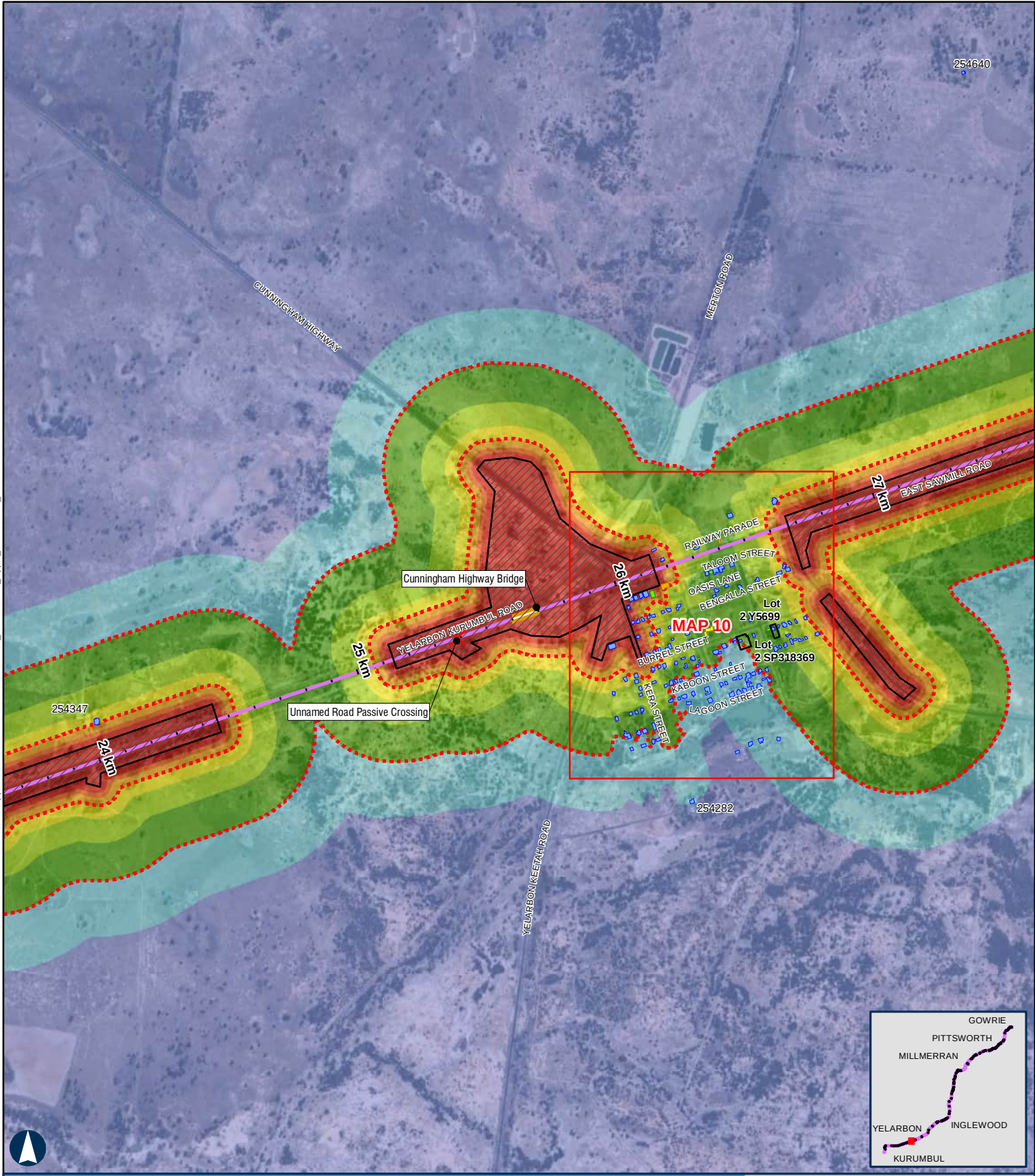
- Sensitive Receptor Type**
- Residential
 - Community
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 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
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BORDER TO GOWRIE

**Scenario 18 - Road Civil - Asphalt
Standard Hours**

APPENDIX D - MAP 9 OF 54

100m

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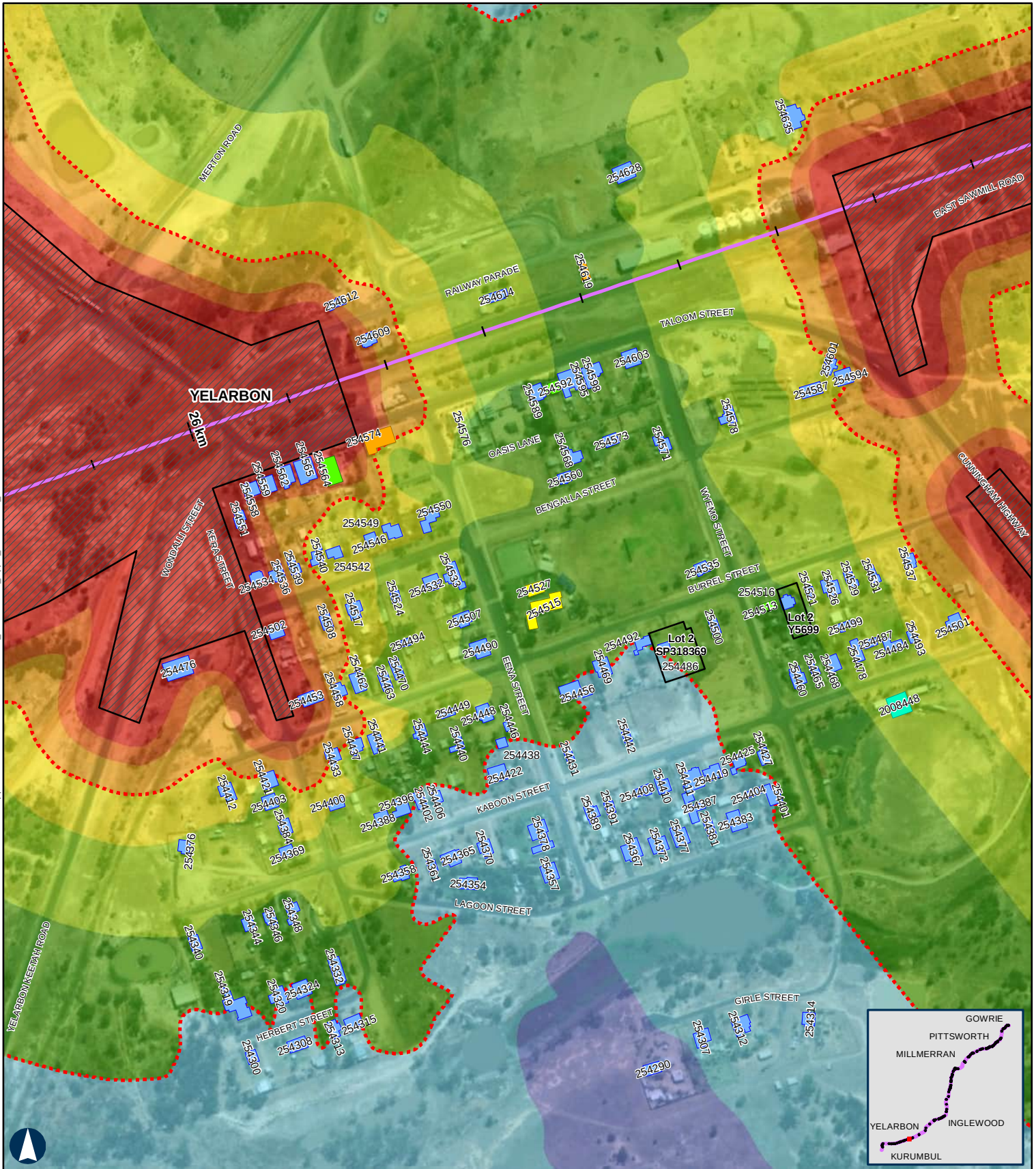
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- | | | |
|----------------------------|---------------------|-----------|
| Level Crossings | Residential | <45 dBA |
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BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Standard Hours

APPENDIX D - MAP 10 OF 54

100 m

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- Rail Alignment/ Centreline
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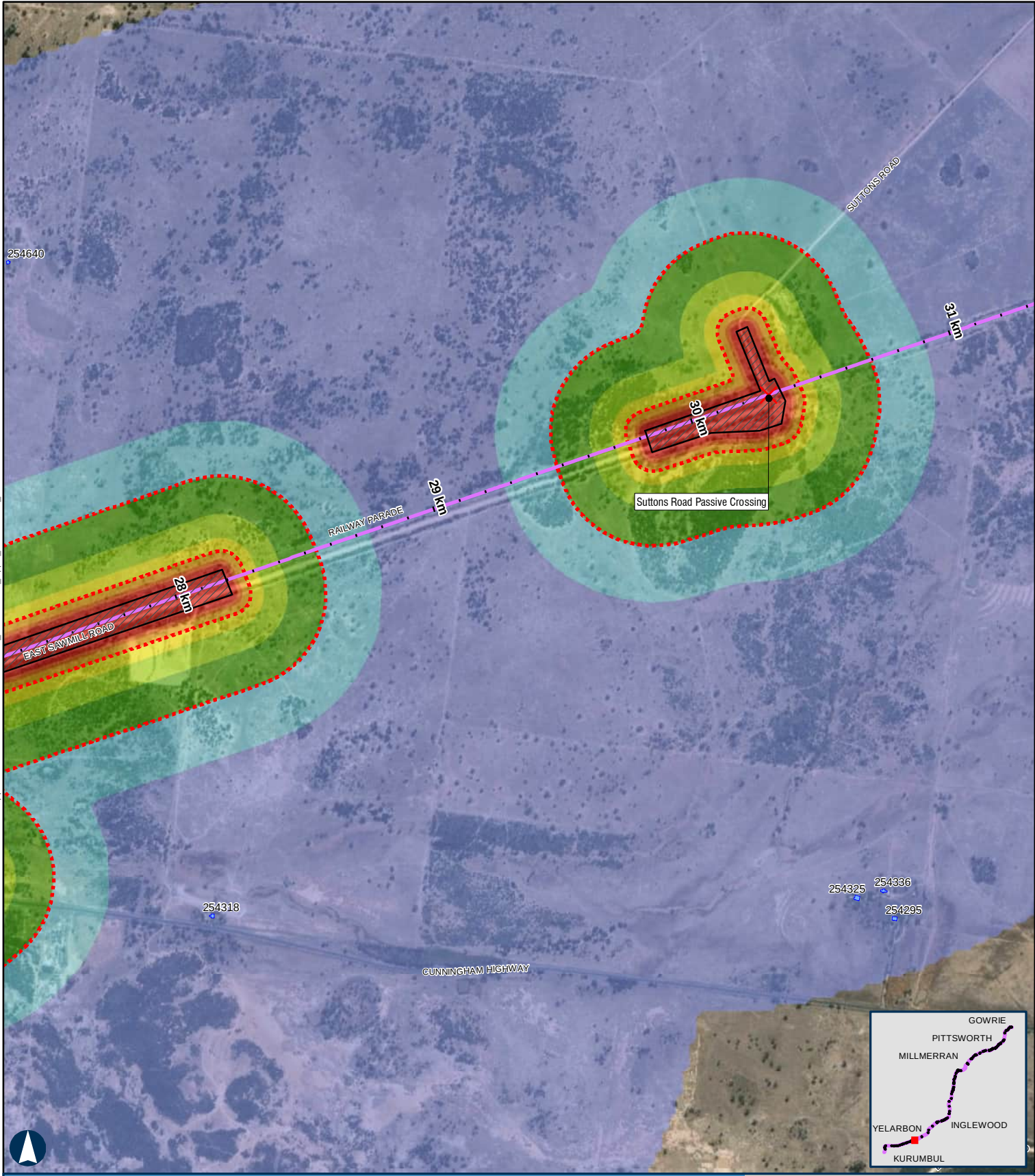
- Sensitive Receptor Type**
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 - Future Developments

- Noise Levels**
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 - 70-75 dBA
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BORDER TO GOWRIE

**Scenario 18 - Road Civil - Asphalt
Standard Hours**

APPENDIX D - MAP 11 OF 54

100m

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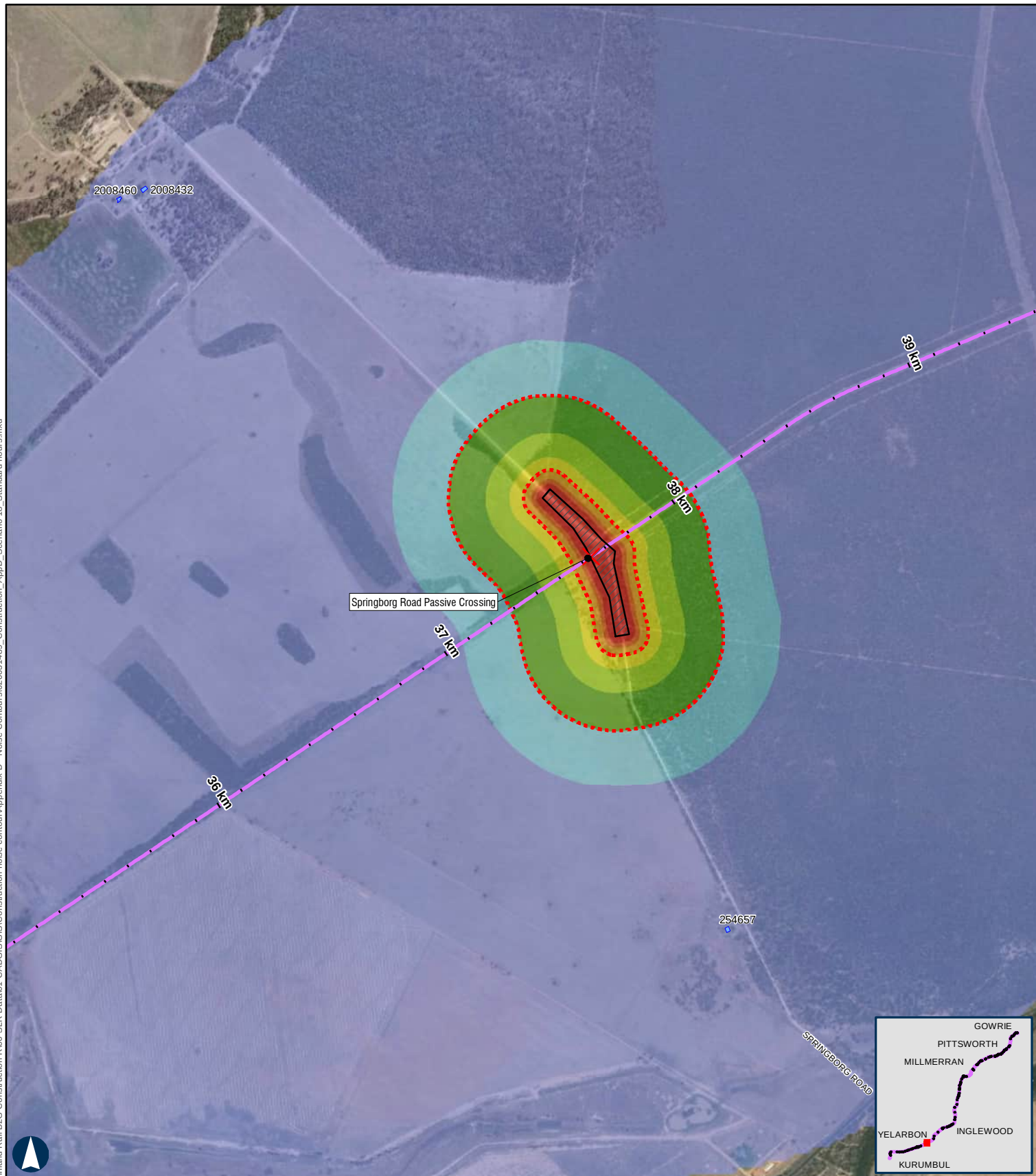
- ✕ Level Crossings
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- Criteria (50 and 65 dBA)
- Project Extent
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- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
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 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
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BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Standard Hours

APPENDIX D - MAP 12 OF 54

100 m

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 Level Crossings

 Flying Fox Camp

- Criteria (50 and 65 dBA)

— Project Extent

— Crossing Loops

Bridges and Viaducts

— Rail Alignment/ Centreline

 Work Area

 Koala Habitat Area

Sensitive Receptor Type

 Residential

 Community

 Educational

 Commercial

 Parkland

Future Developments

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 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, 26

Noise Levels

 <45 dBA

45-50 dBA

■ 50-55 dBA

55-60 dBA

60-65 dBA

65-70 dBA

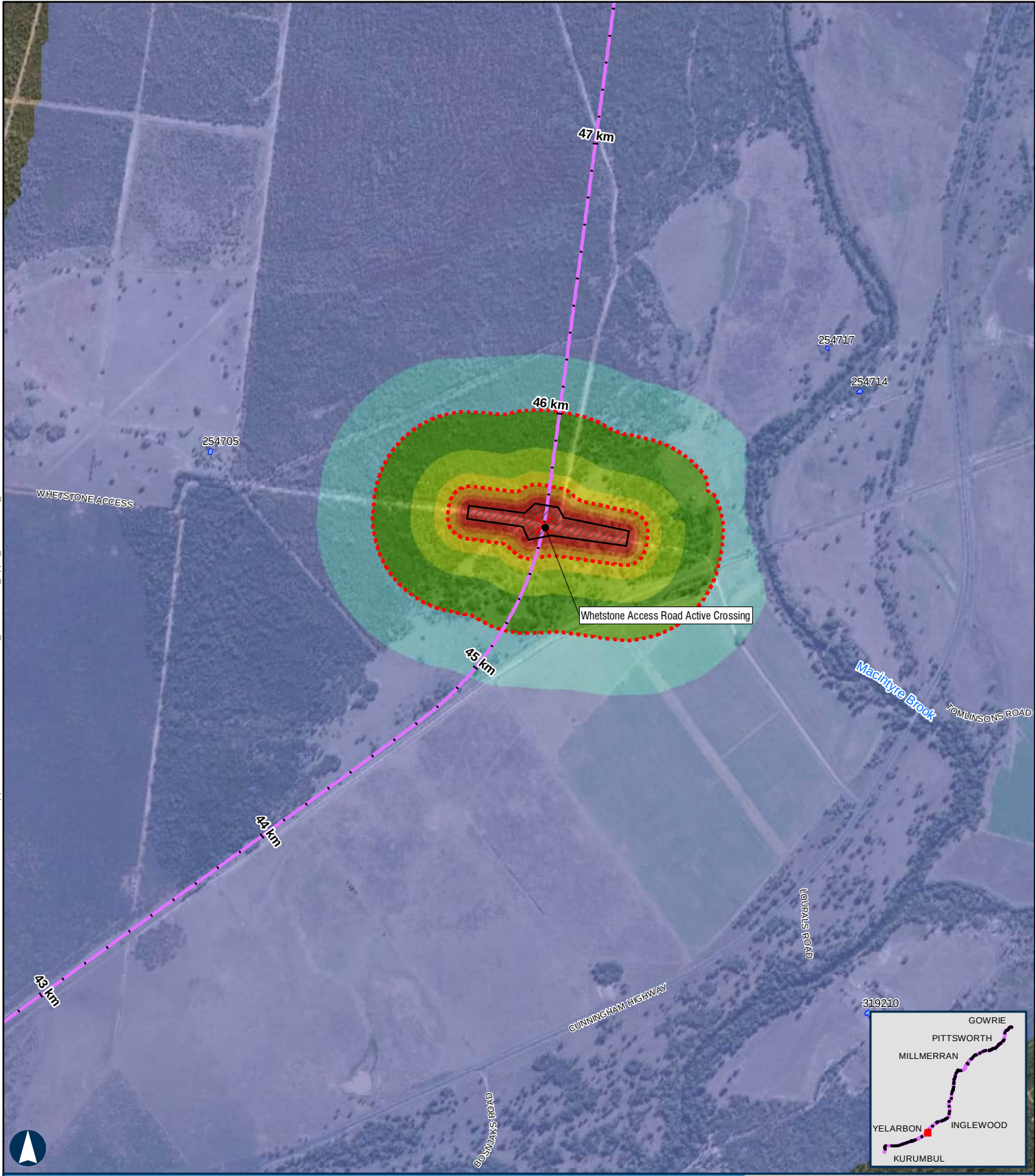
70-75 dBA

■ >75 dBA

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BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Standard Hours

APPENDIX D - MAP 13 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

- ✕ Level Crossings
- Flying Fox Camp
- ⋯ Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

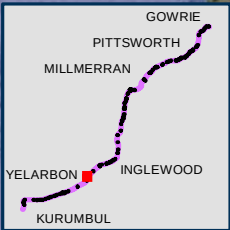
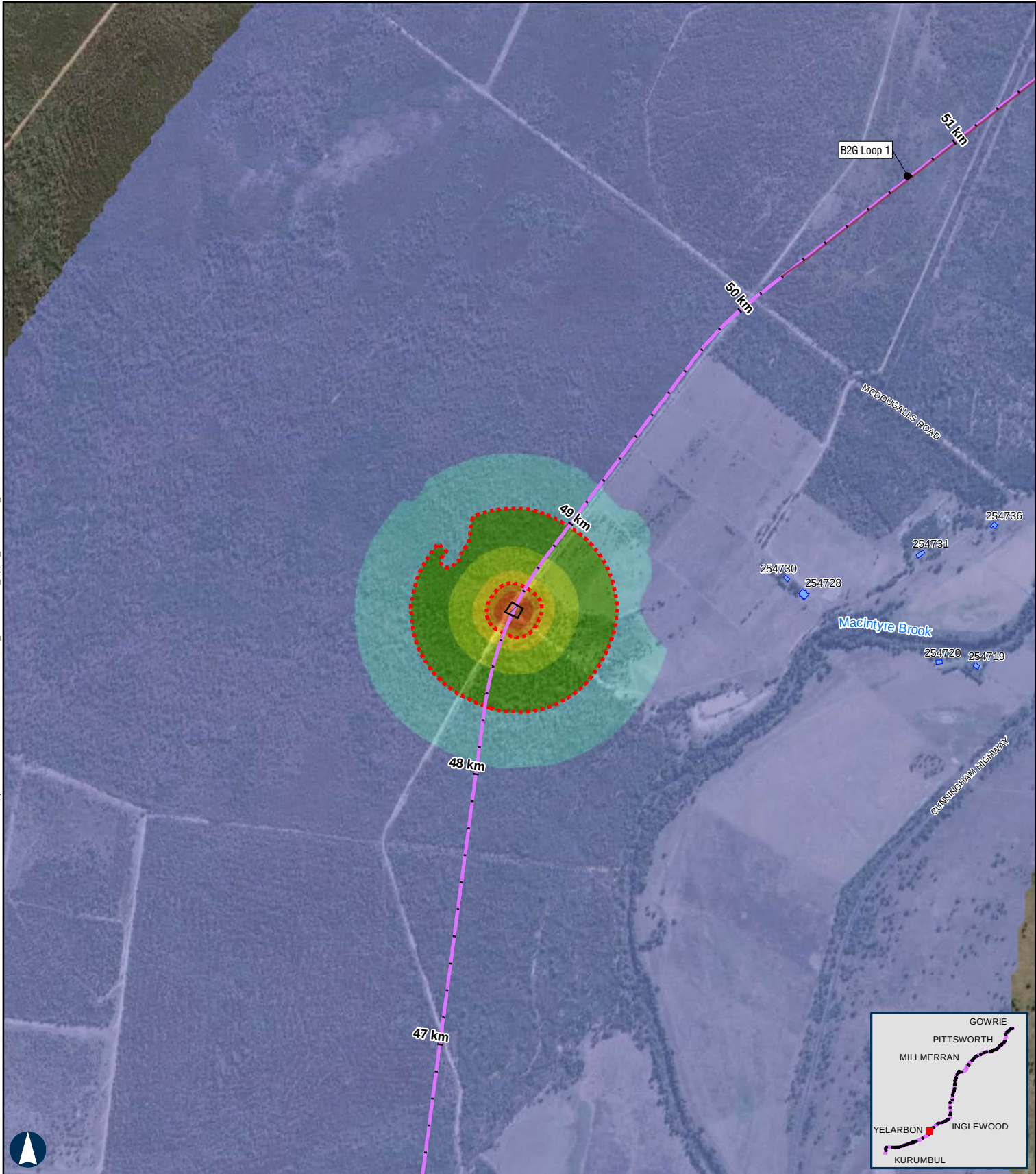
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA



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BORDER TO GOWRIE

**Scenario 18 - Road Civil - Asphalt
Standard Hours**

APPENDIX D - MAP 14 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

- ✗ Level Crossings
- Flying Fox Camp
- ⋯ Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

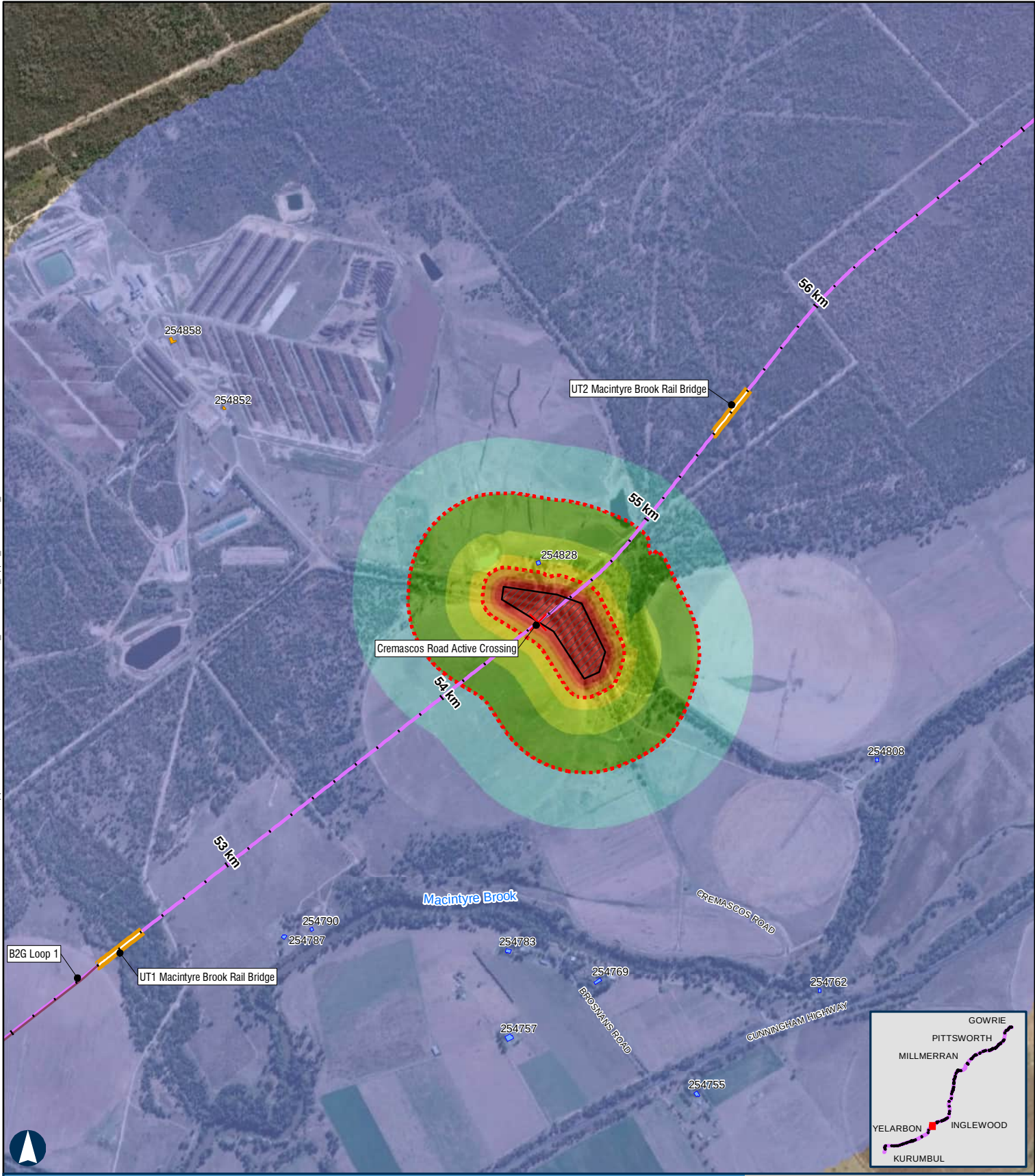
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA



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BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Standard Hours

APPENDIX D - MAP 15 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

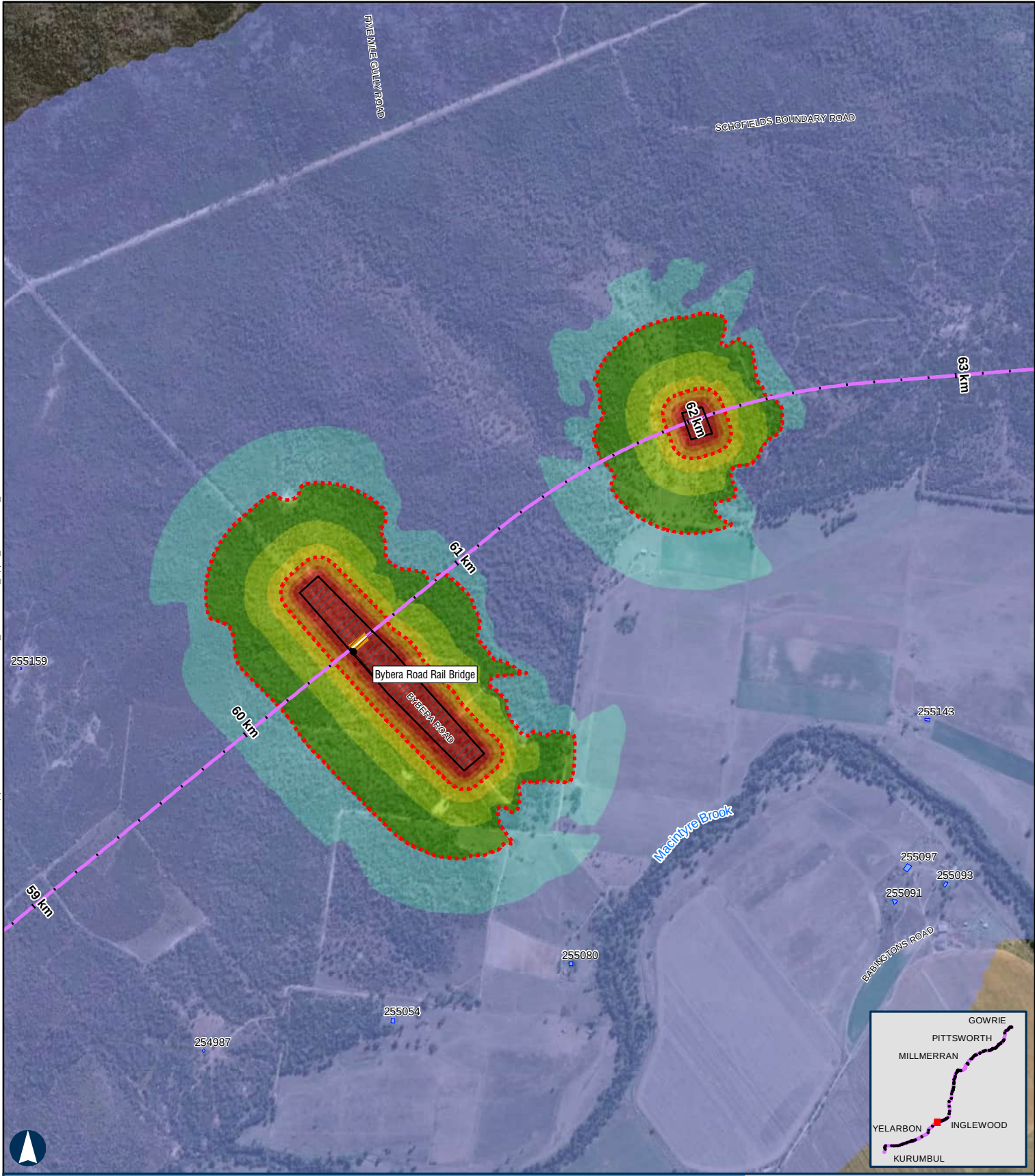
- ✕ Level Crossings
- Flying Fox Camp
- ⋯ Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA



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BORDER TO GOWRIE

**Scenario 18 - Road Civil - Asphalt
Standard Hours**

APPENDIX D - MAP 16 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

- ✗ Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

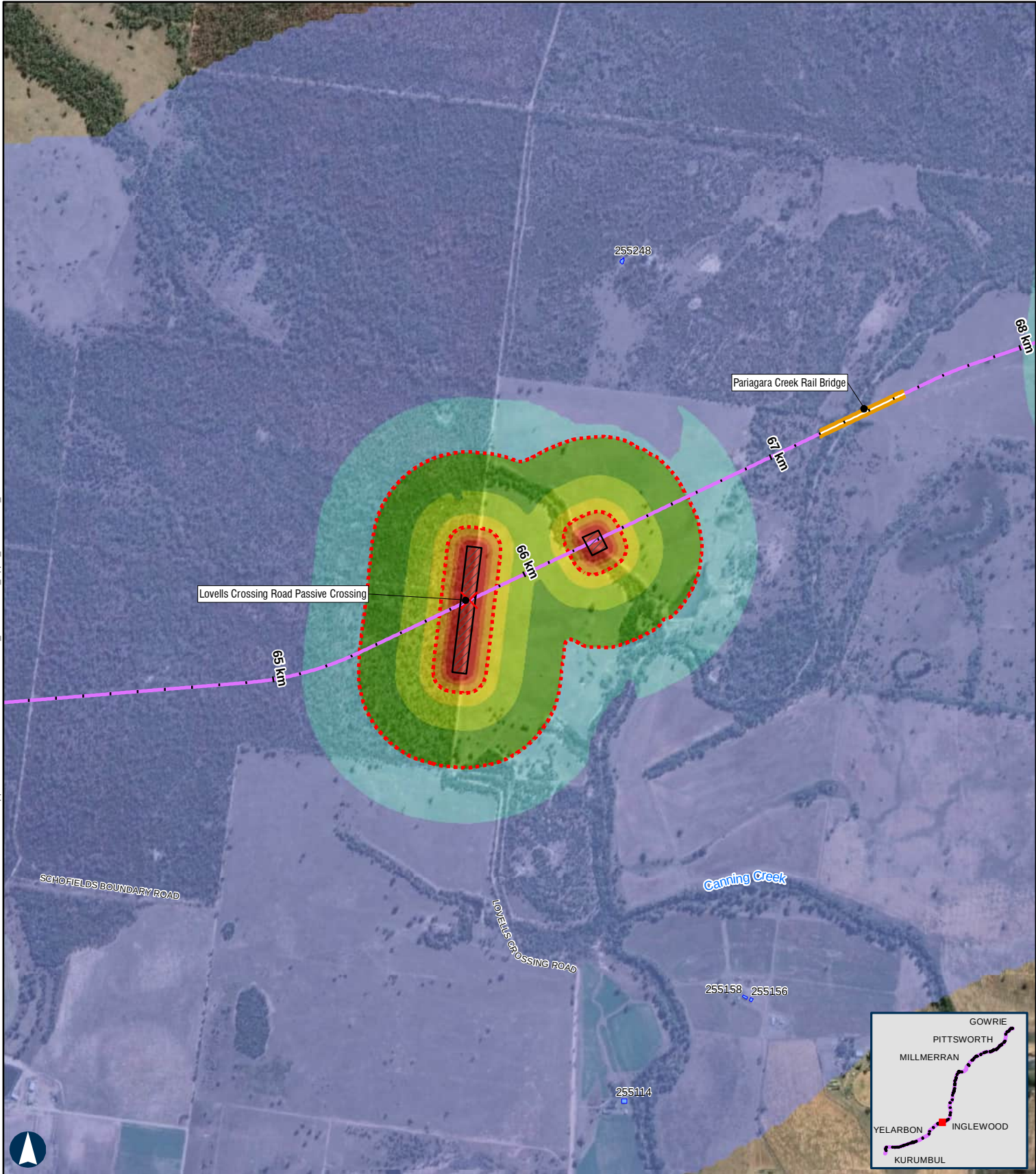
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA



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BORDER TO GOWRIE

**Scenario 18 - Road Civil - Asphalt
Standard Hours**

APPENDIX D - MAP 17 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map.

- ✗ Level Crossings
- Flying Fox Camp
- ⋯ Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA

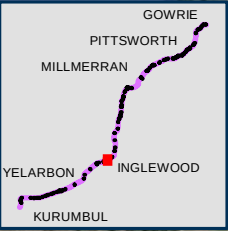
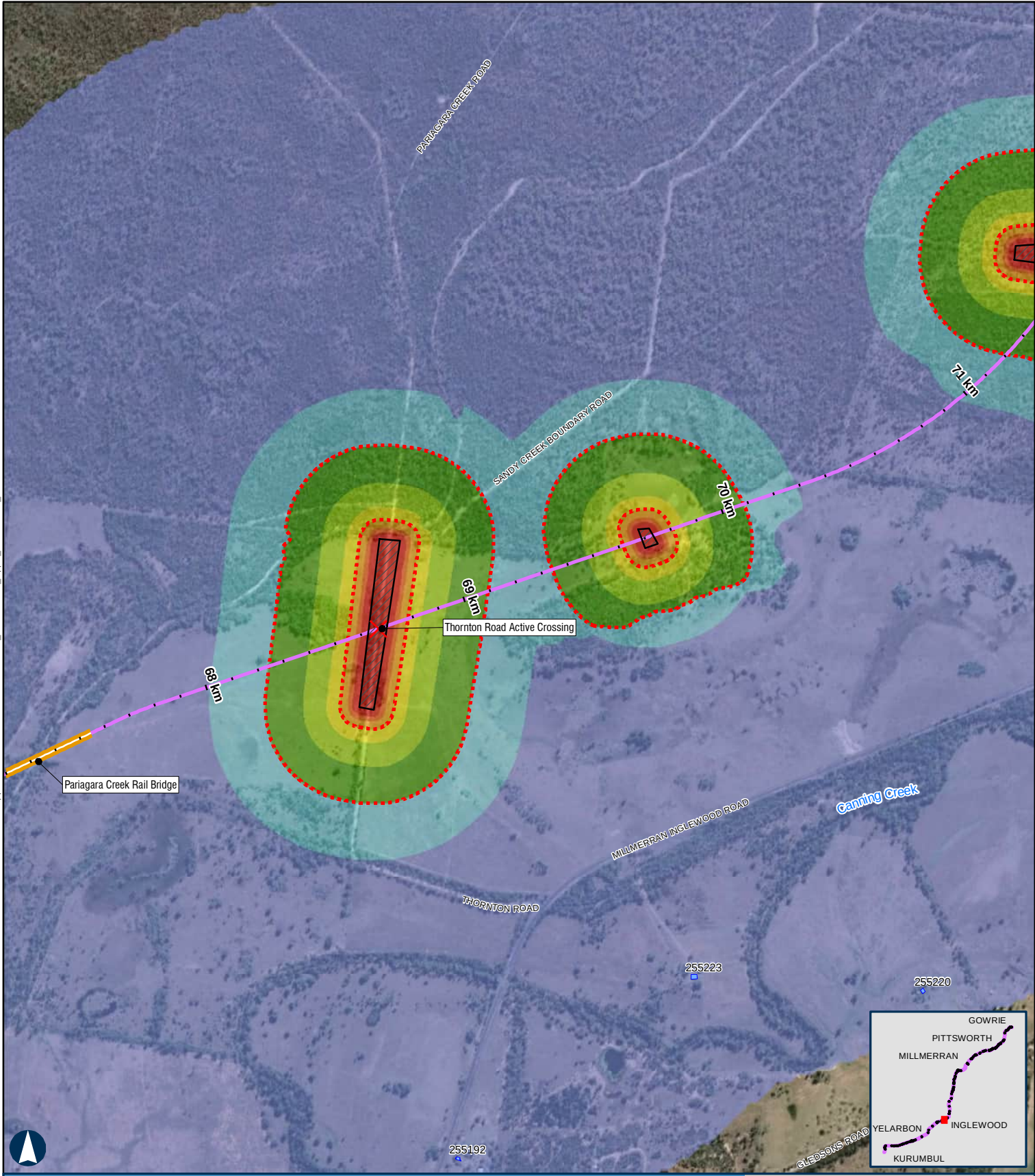
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Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

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BORDER TO GOWRIE

**Scenario 18 - Road Civil - Asphalt
Standard Hours**

APPENDIX D - MAP 18 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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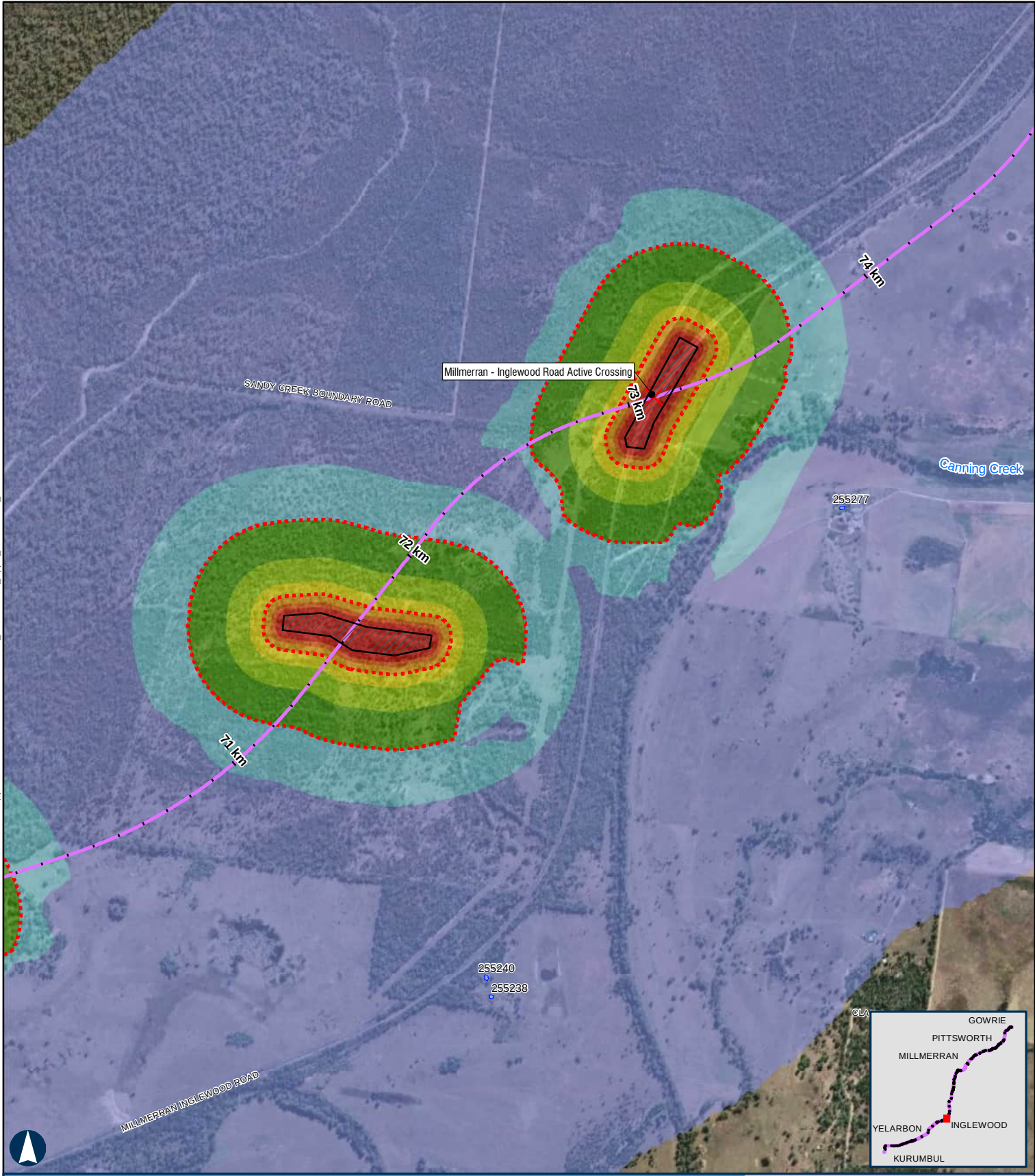
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Paper: A4
Date: 13-Nov-2024
Author: JG

- | | | |
|----------------------------|---------------------|-----------|
| Level Crossings | Residential | <45 dBA |
| Flying Fox Camp | Community | 45-50 dBA |
| Criteria (50 and 65 dBA) | Educational | 50-55 dBA |
| Project Extent | Commercial | 55-60 dBA |
| Crossing Loops | Parkland | 60-65 dBA |
| Bridges and Viaducts | Future Developments | 65-70 dBA |
| Rail Alignment/ Centreline | | 70-75 dBA |
| Work Area | | >75 dBA |
| Koala Habitat Area | | |

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BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Standard Hours

APPENDIX D - MAP 19 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 13-Nov-2024
Author: JG
Scale: 1:19,000

- ✕ Level Crossings
- Flying Fox Camp
- ⋯ Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

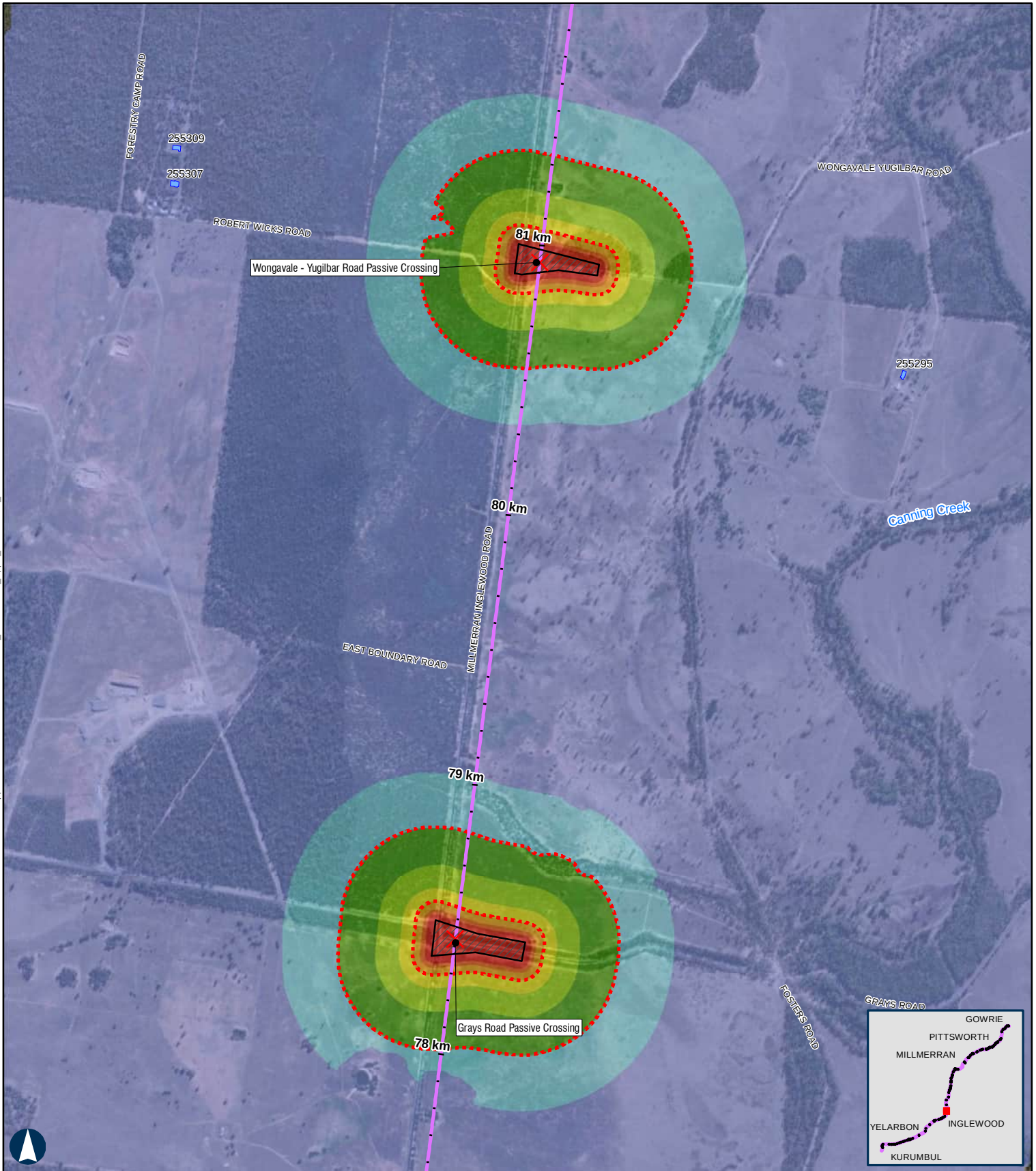
- ### Sensitive Receptor Type
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- ### Noise Levels
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA



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BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Standard Hours

APPENDIX D - MAP 20 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

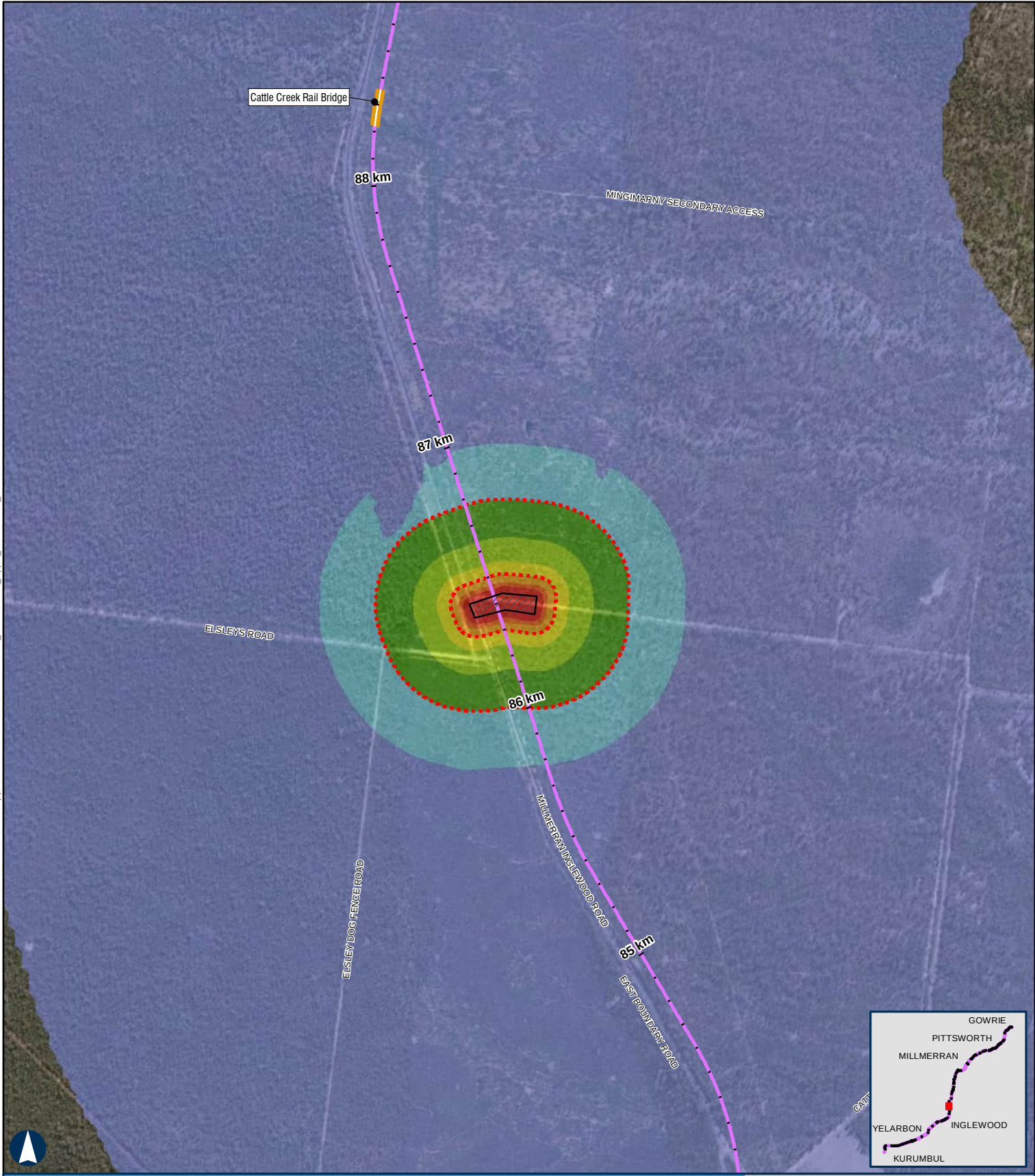
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA

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BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Standard Hours

APPENDIX D - MAP 21 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

- ✗ Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

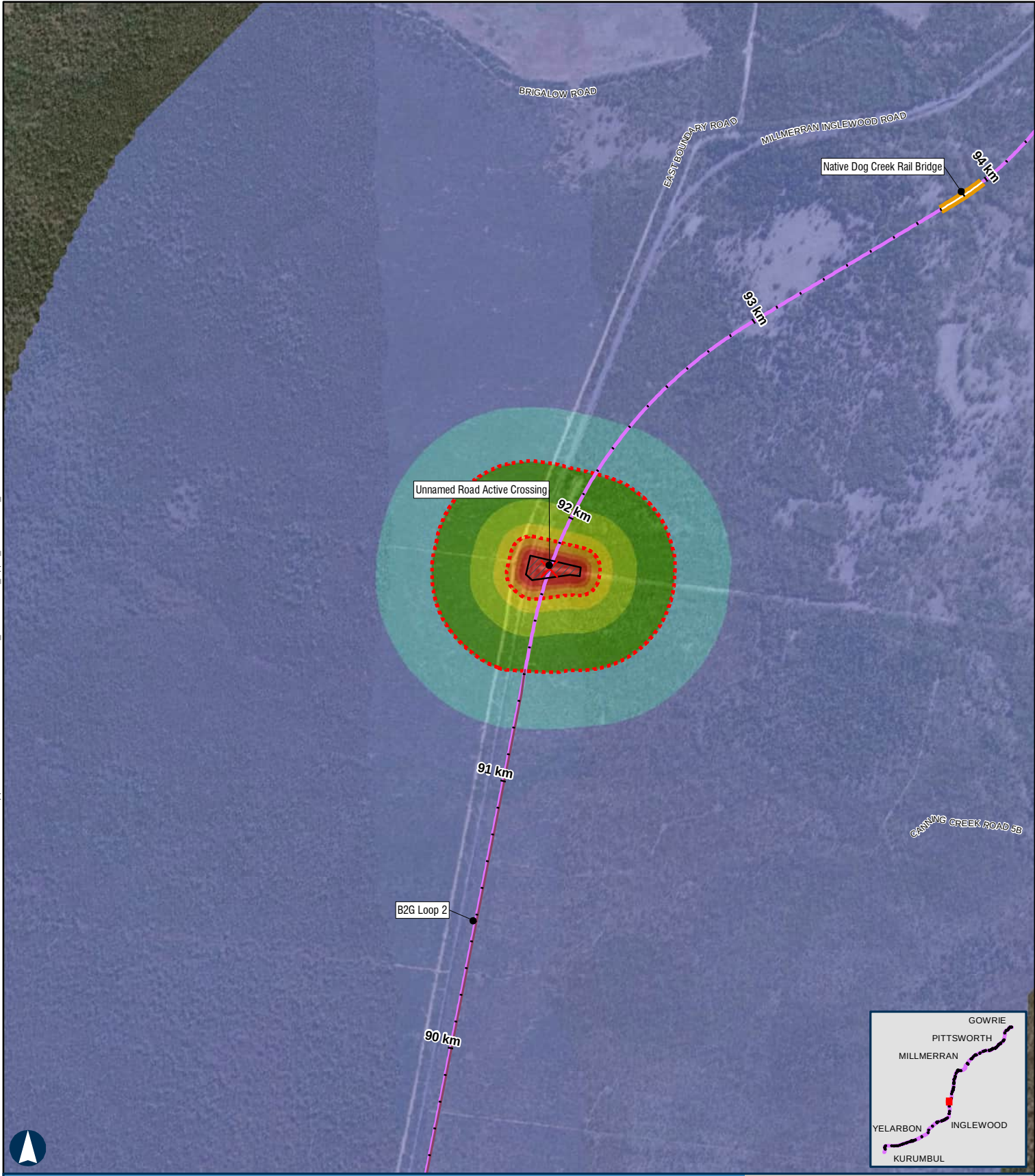
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA



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BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Standard Hours

APPENDIX D - MAP 22 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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- ✗ Level Crossings
- Flying Fox Camp
- ⋯ Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA

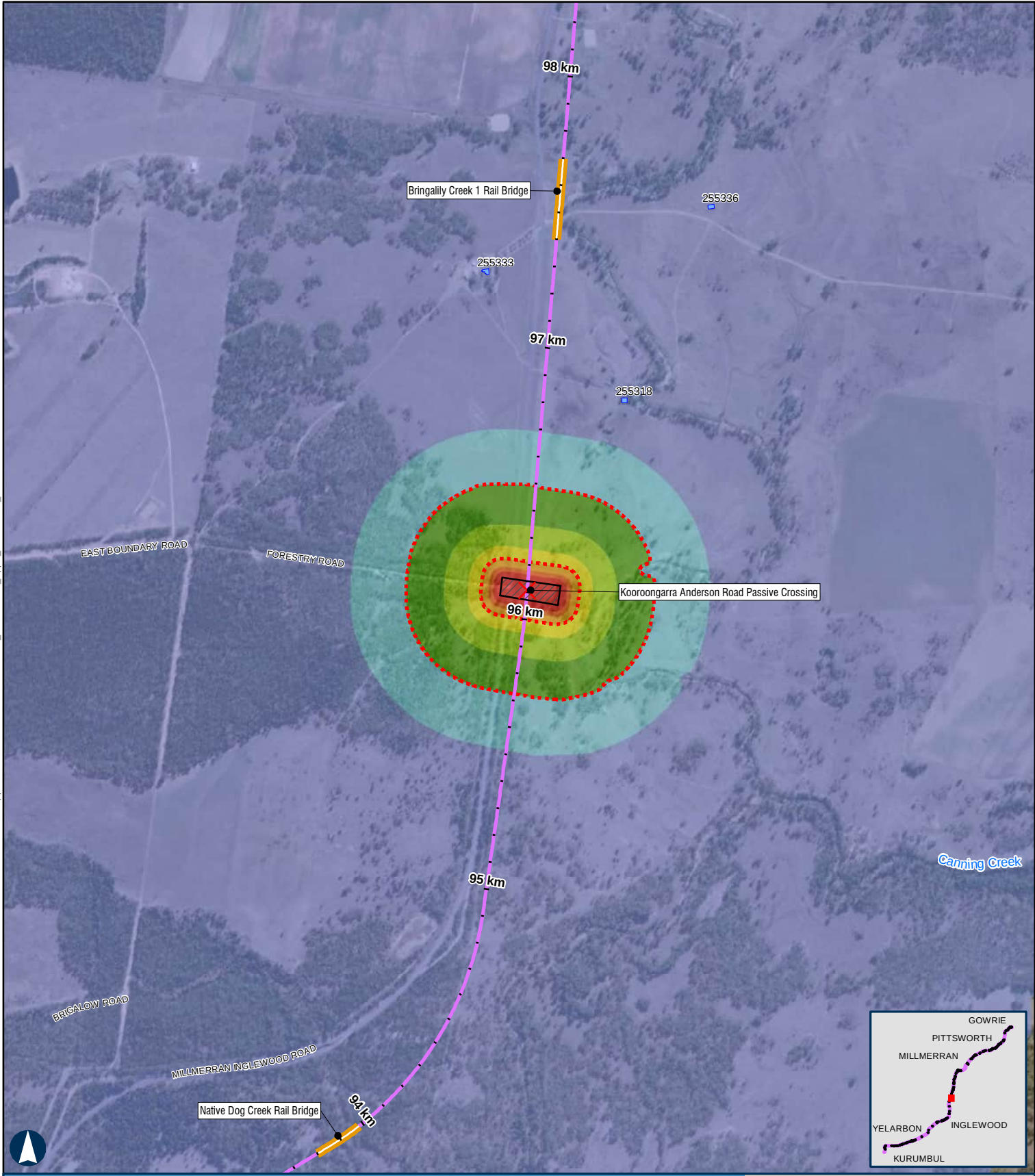
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Date: 13-Nov-2024
Author: JG

Scale: 1:19,000



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BORDER TO GOWRIE

**Scenario 18 - Road Civil - Asphalt
Standard Hours**

APPENDIX D - MAP 23 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 13-Nov-2024
Author: JG

- ✕ Level Crossings
- Flying Fox Camp
- ⋯ Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

Sensitive Receptor Type

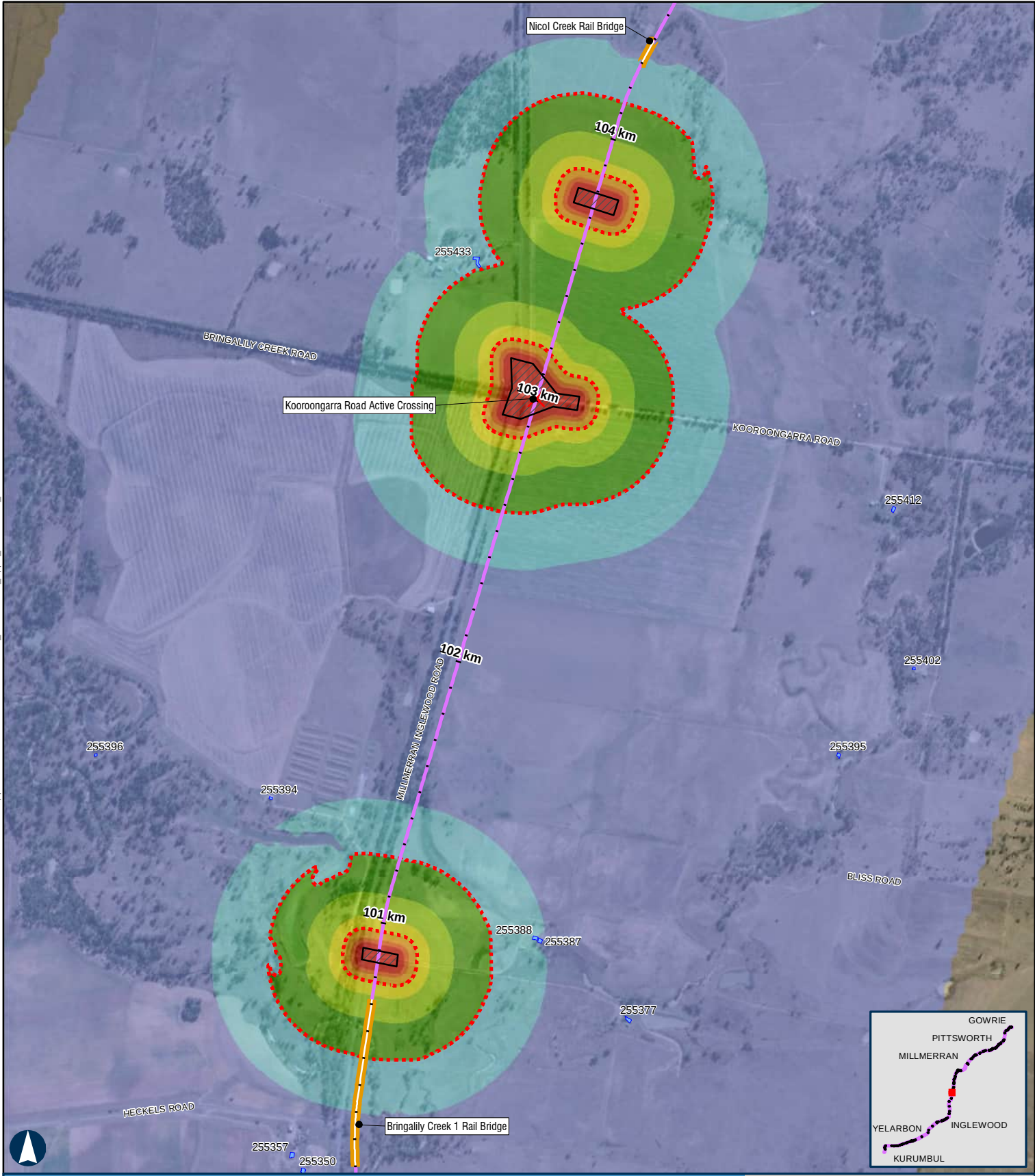
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels

- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Standard Hours

APPENDIX D - MAP 24 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

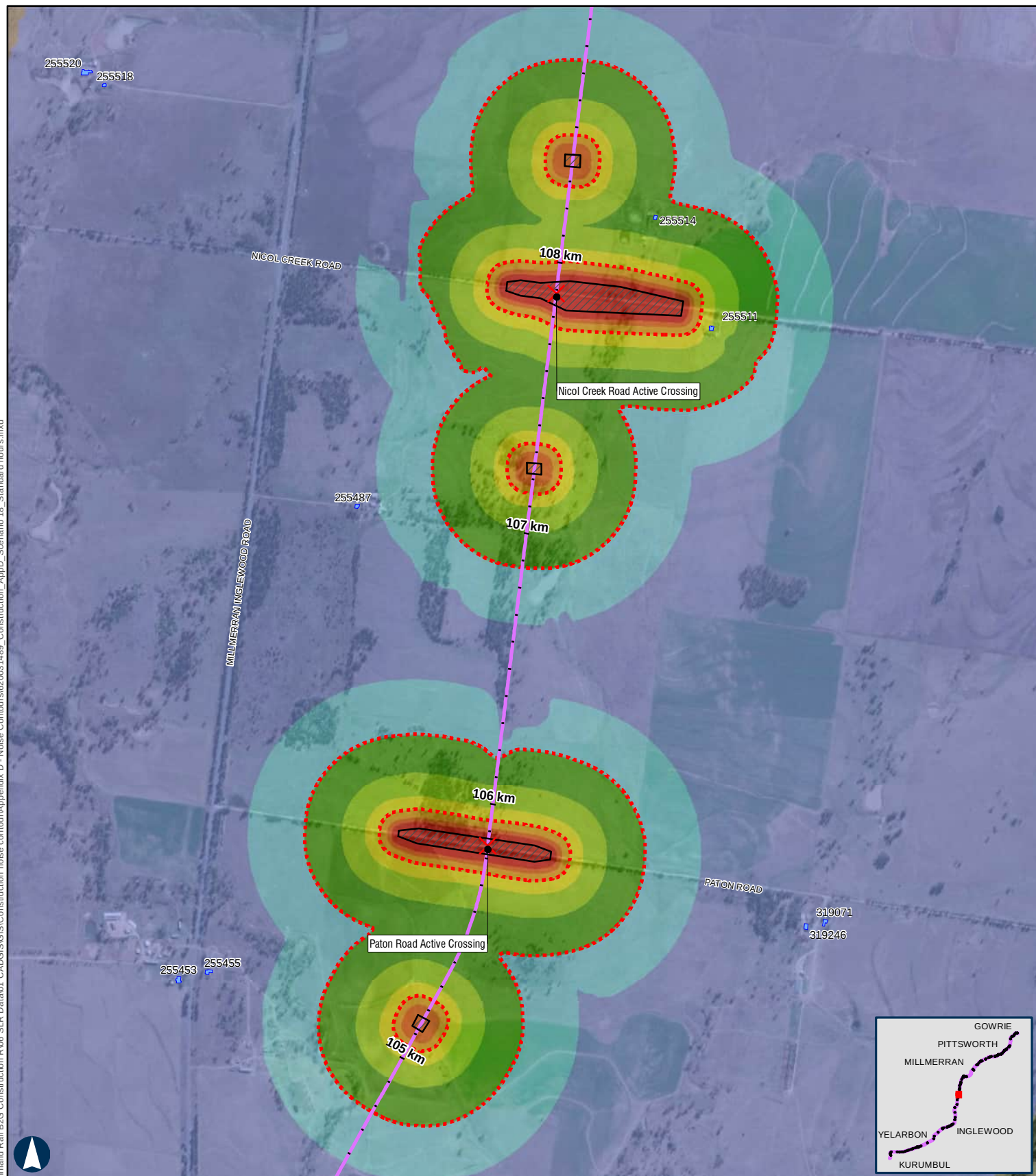
- ✗ Level Crossings
- Flying Fox Camp
- ⋯ Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

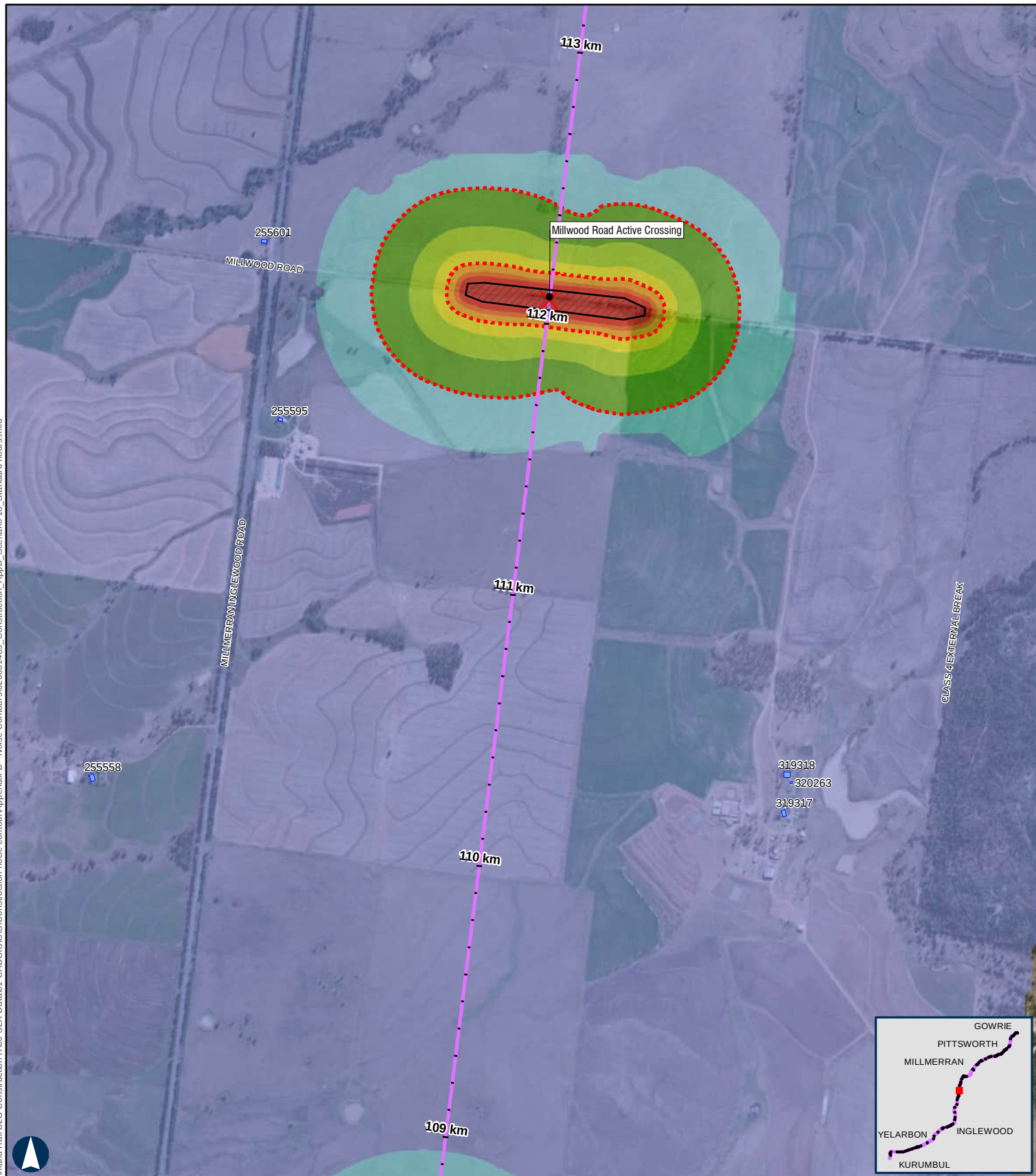
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA

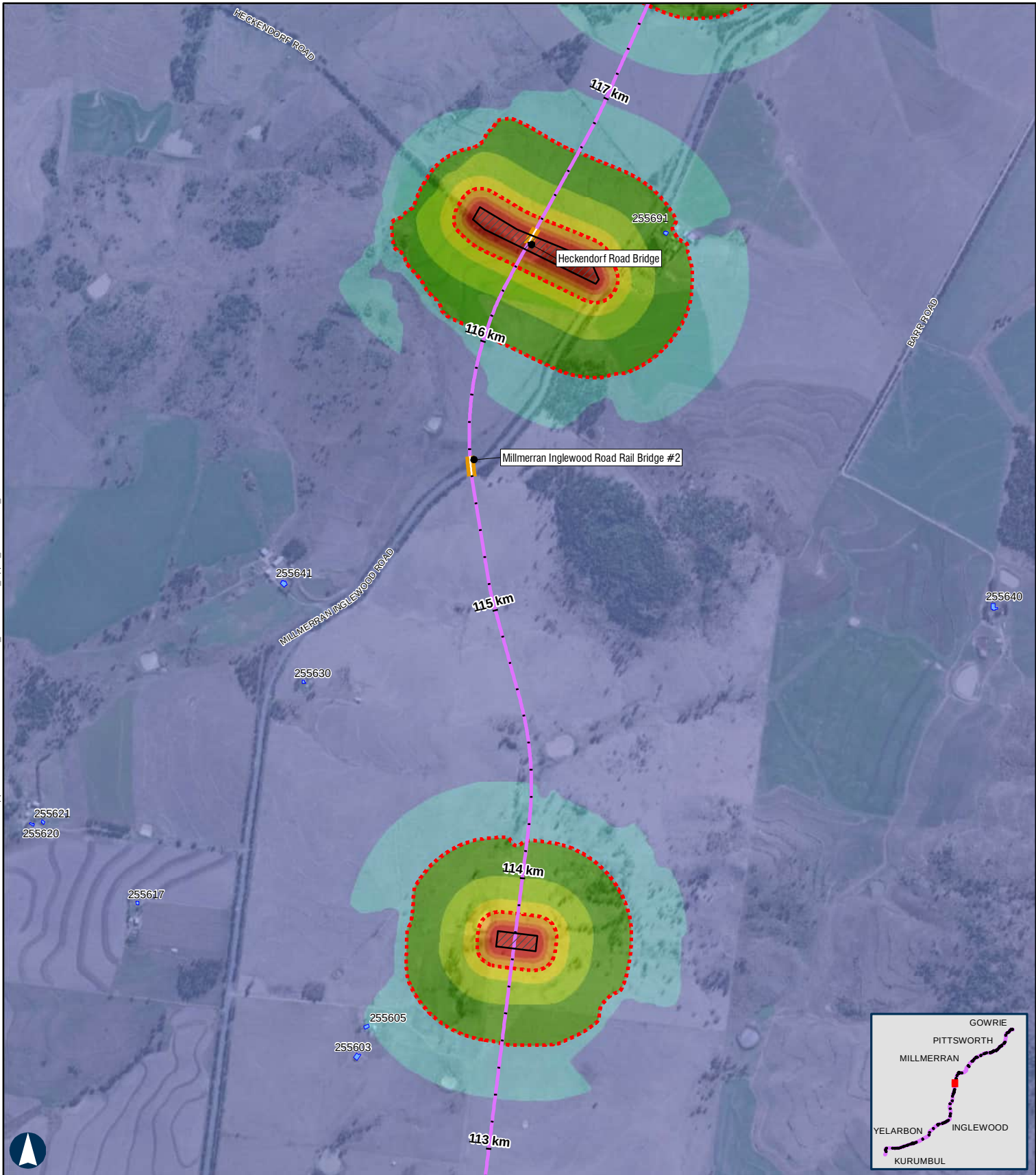


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BORDER TO GOWRIE

**Scenario 18 - Road Civil - Asphalt
Standard Hours**

APPENDIX D - MAP 27 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

Scale: 1:19,000

- ✗ Level Crossings
- Flying Fox Camp
- ⋯ Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

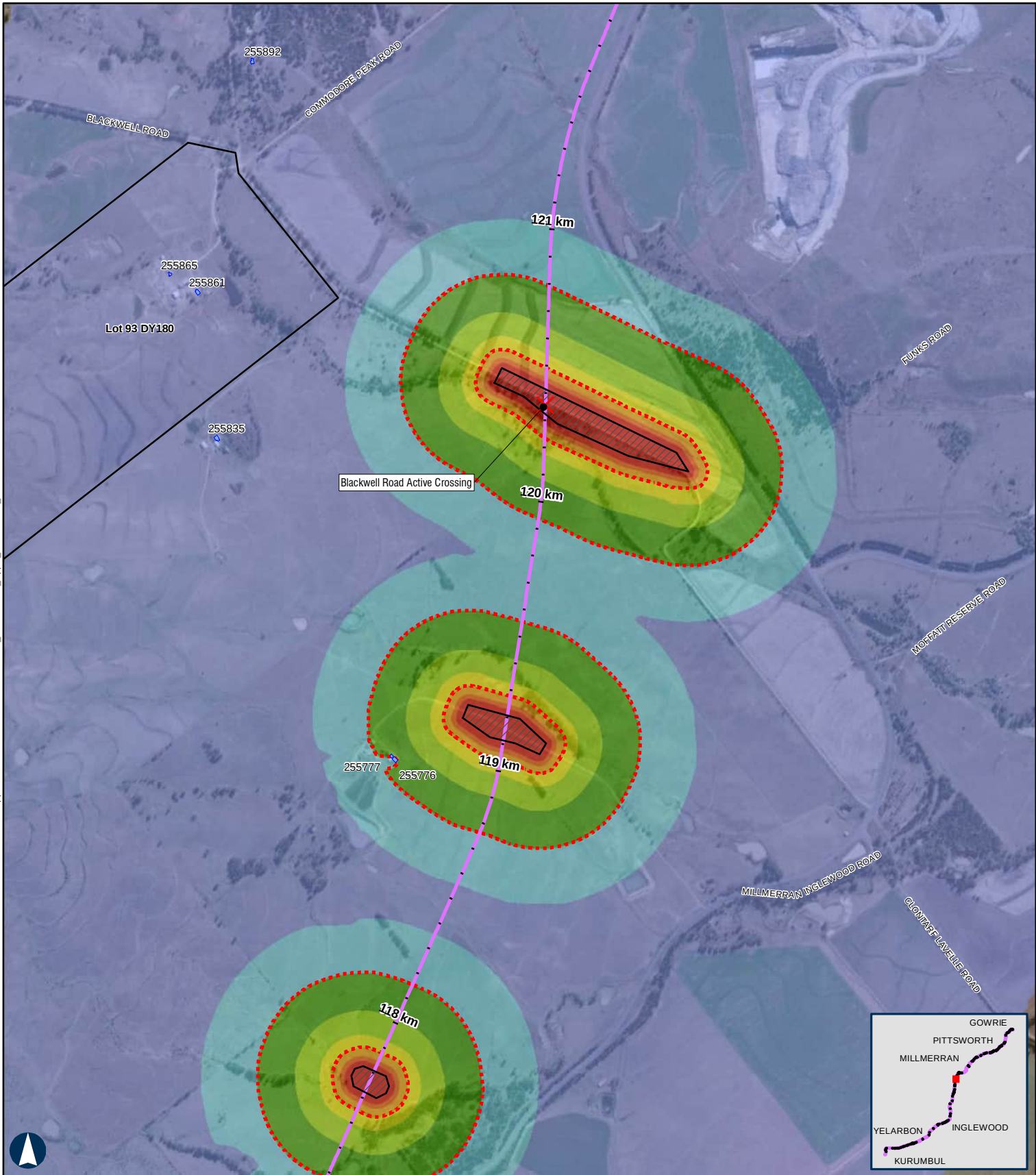
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA



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BORDER TO GOWRIE

**Scenario 18 - Road Civil - Asphalt
Standard Hours**

APPENDIX D - MAP 28 OF 54

100m
Coordinate System: GDA 1994 MGA Zone 56
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Date: 13-Nov-2024
Author: JG
Scale: 1:19,000

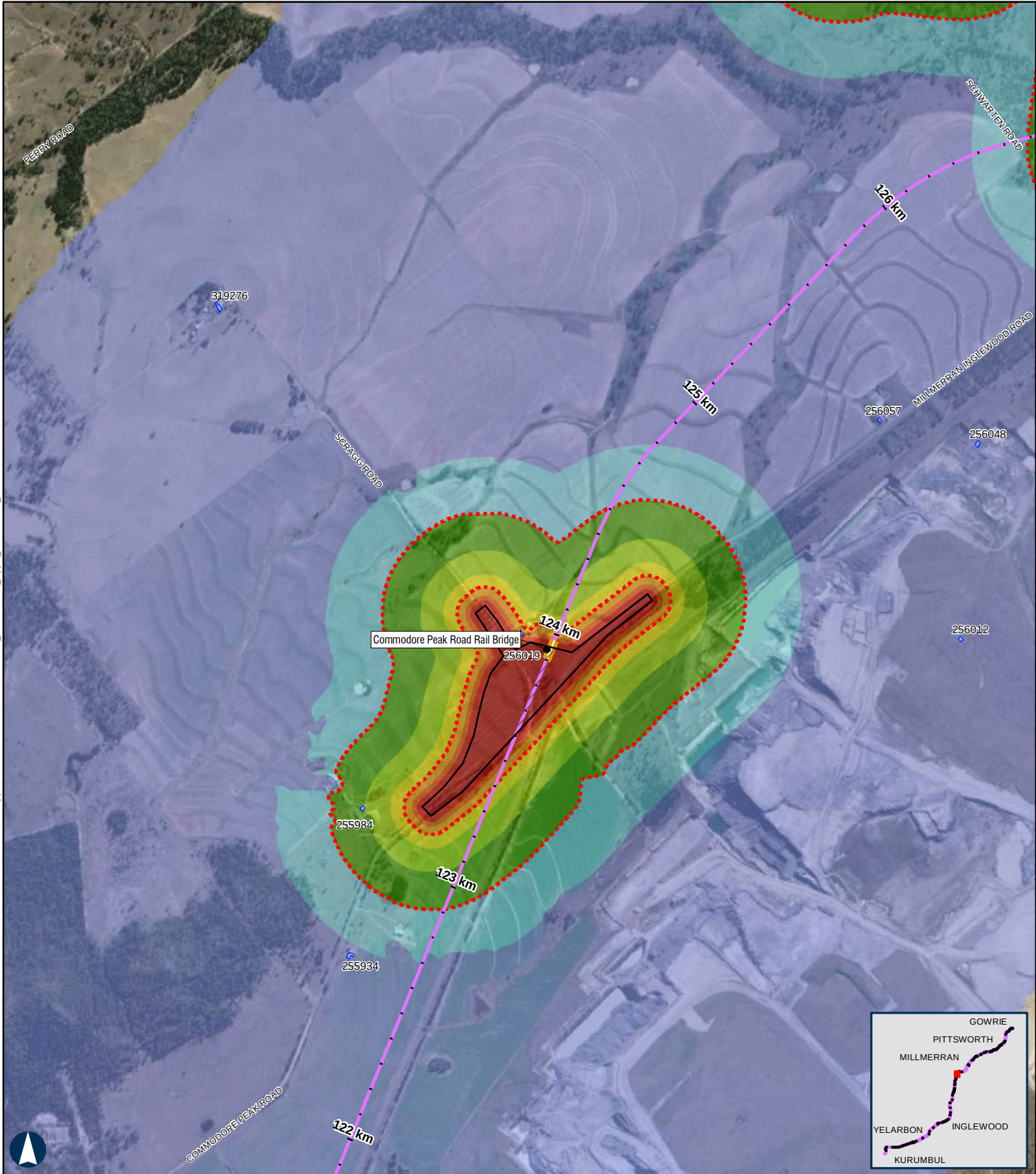
- ✕ Level Crossings
- Flying Fox Camp
- ⋯ Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA

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BORDER TO GOWRIE

**Scenario 18 - Road Civil - Asphalt
Standard Hours**

APPENDIX D - MAP 29 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

Scale: 1:19,000

- ✗ Level Crossings
- Flying Fox Camp
- ⋯ Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

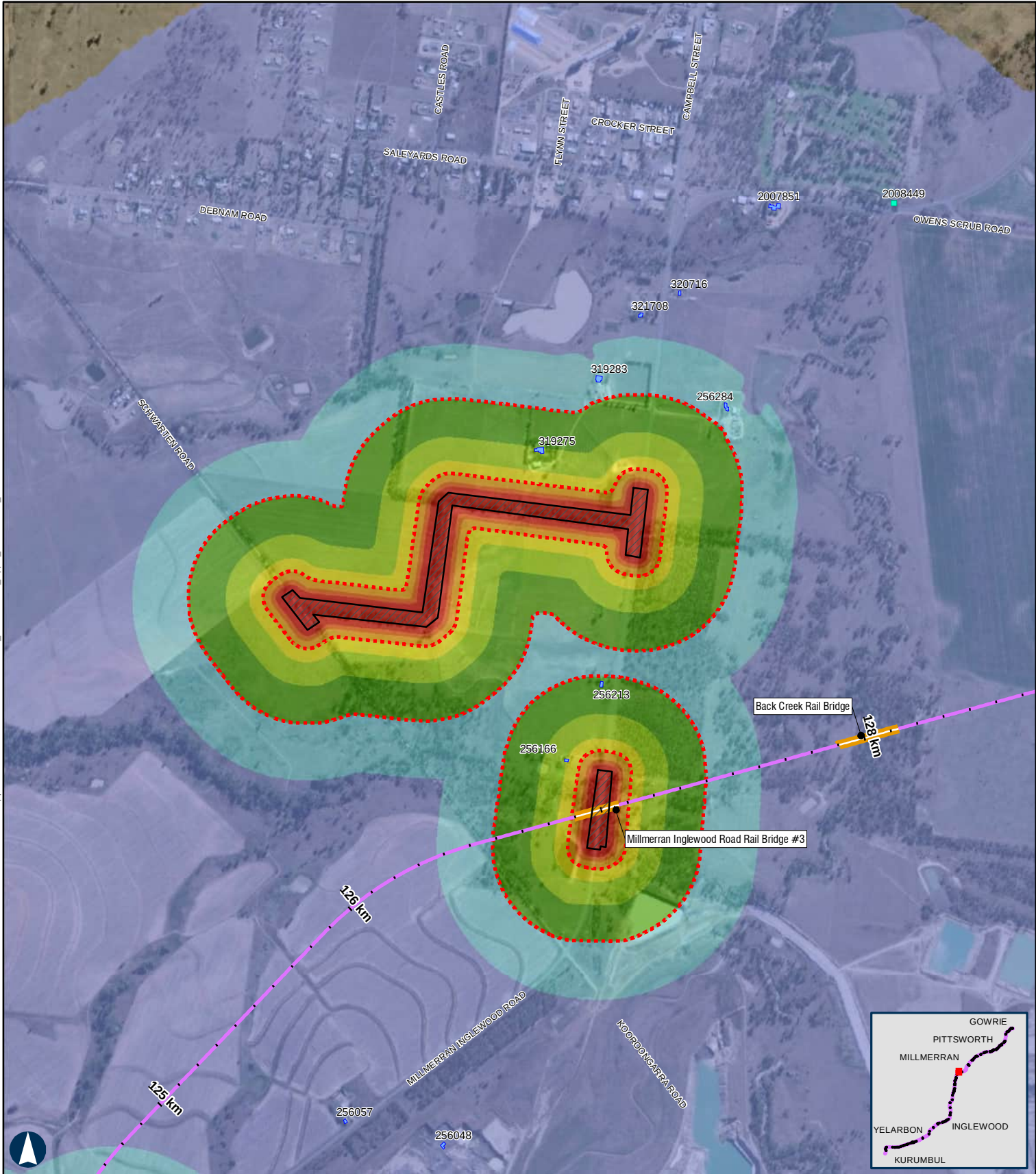
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA

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BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Standard Hours

APPENDIX D - MAP 30 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 13-Nov-2024

Author: JG

✕ Level Crossings

● Flying Fox Camp

⋯ Criteria (50 and 65 dBA)

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/ Centreline

▨ Work Area

▨ Koala Habitat Area

Sensitive Receptor Type

■ Residential

■ Community

■ Educational

■ Commercial

■ Parkland

□ Future Developments

Noise Levels

■ <45 dBA

■ 45-50 dBA

■ 50-55 dBA

■ 55-60 dBA

■ 60-65 dBA

■ 65-70 dBA

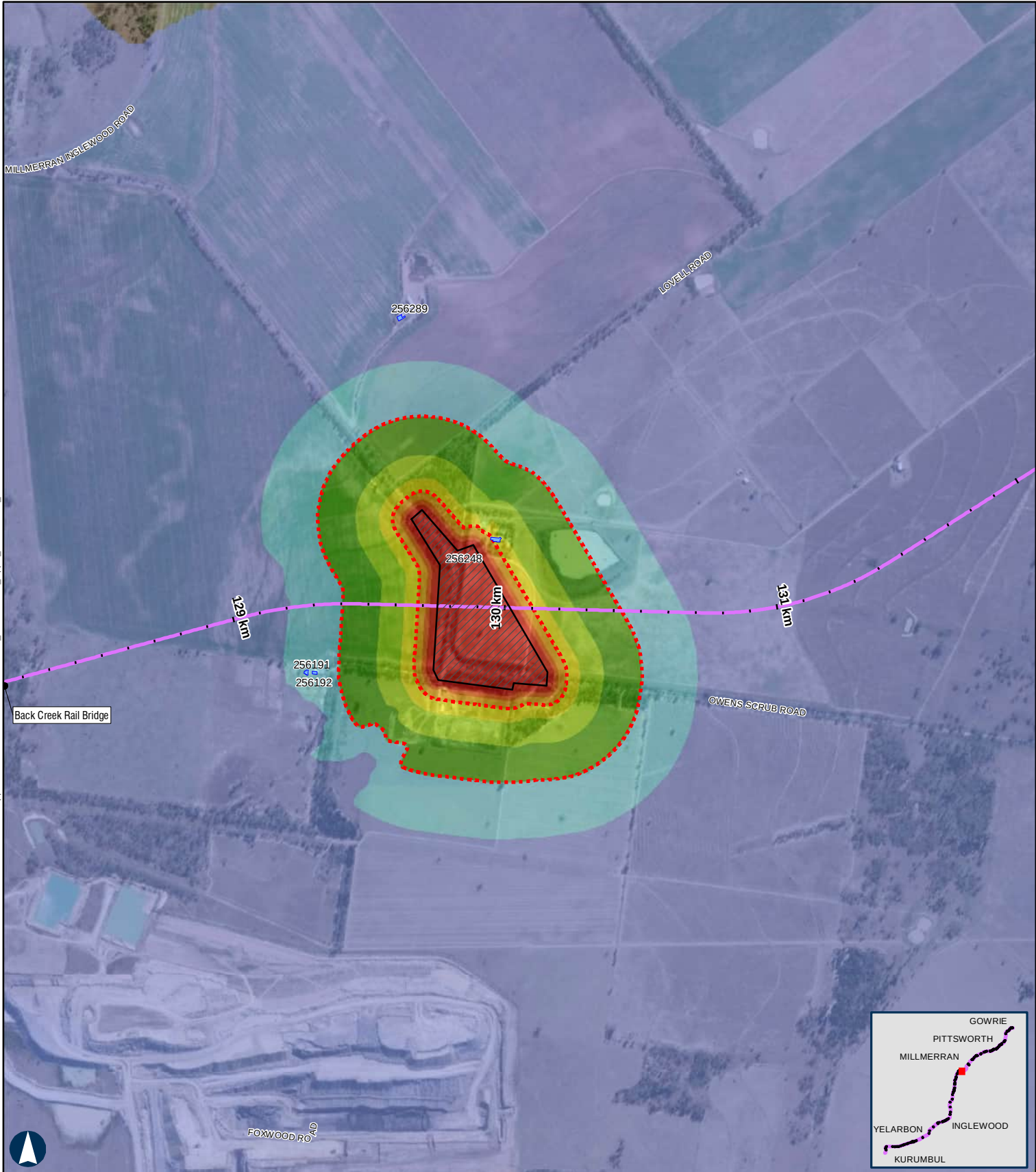
■ 70-75 dBA

■ >75 dBA

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BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Standard Hours

APPENDIX D - MAP 31 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

Scale: 1:19,000

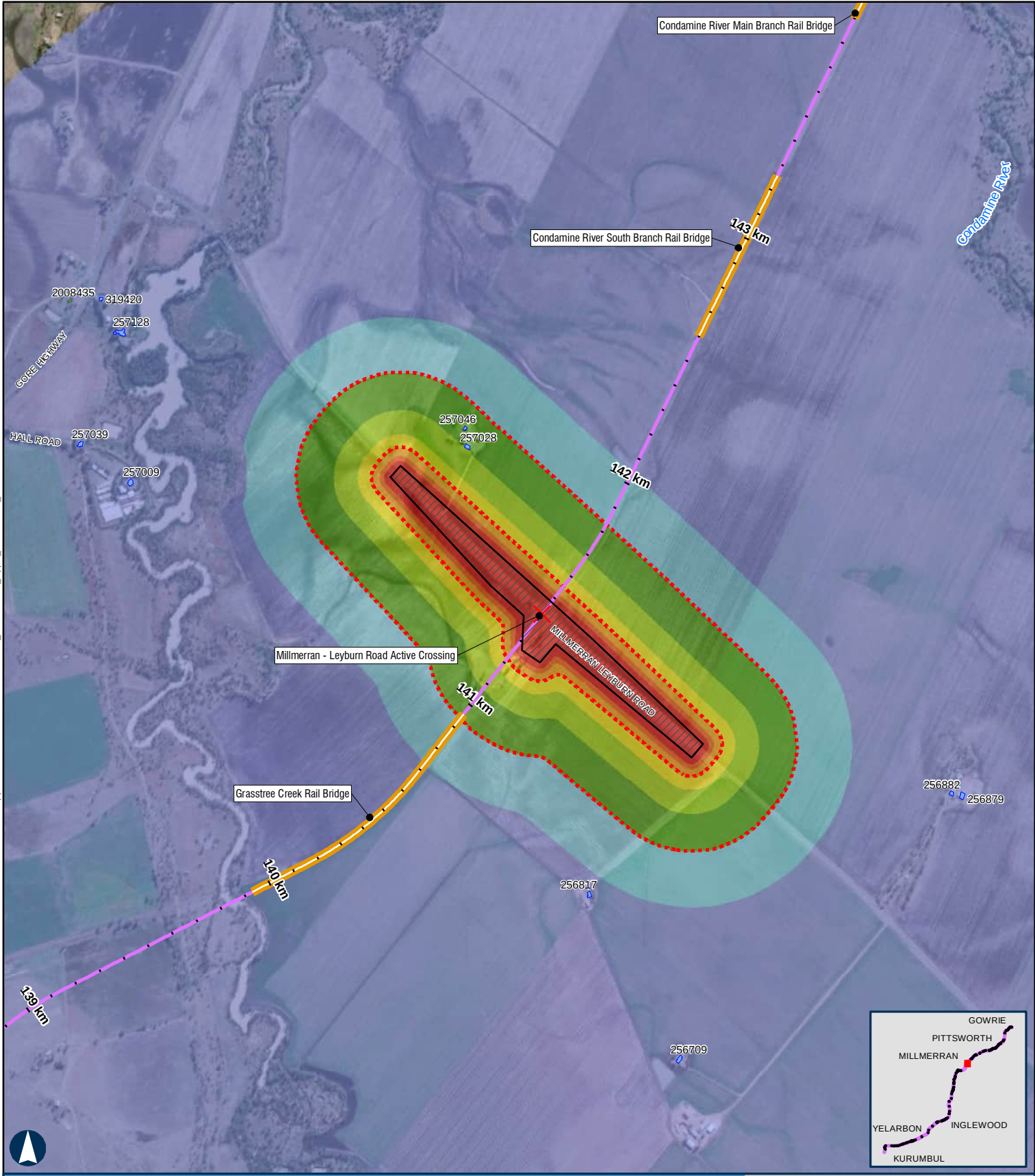
- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA

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BORDER TO GOWRIE

**Scenario 18 - Road Civil - Asphalt
Standard Hours**

APPENDIX D - MAP 32 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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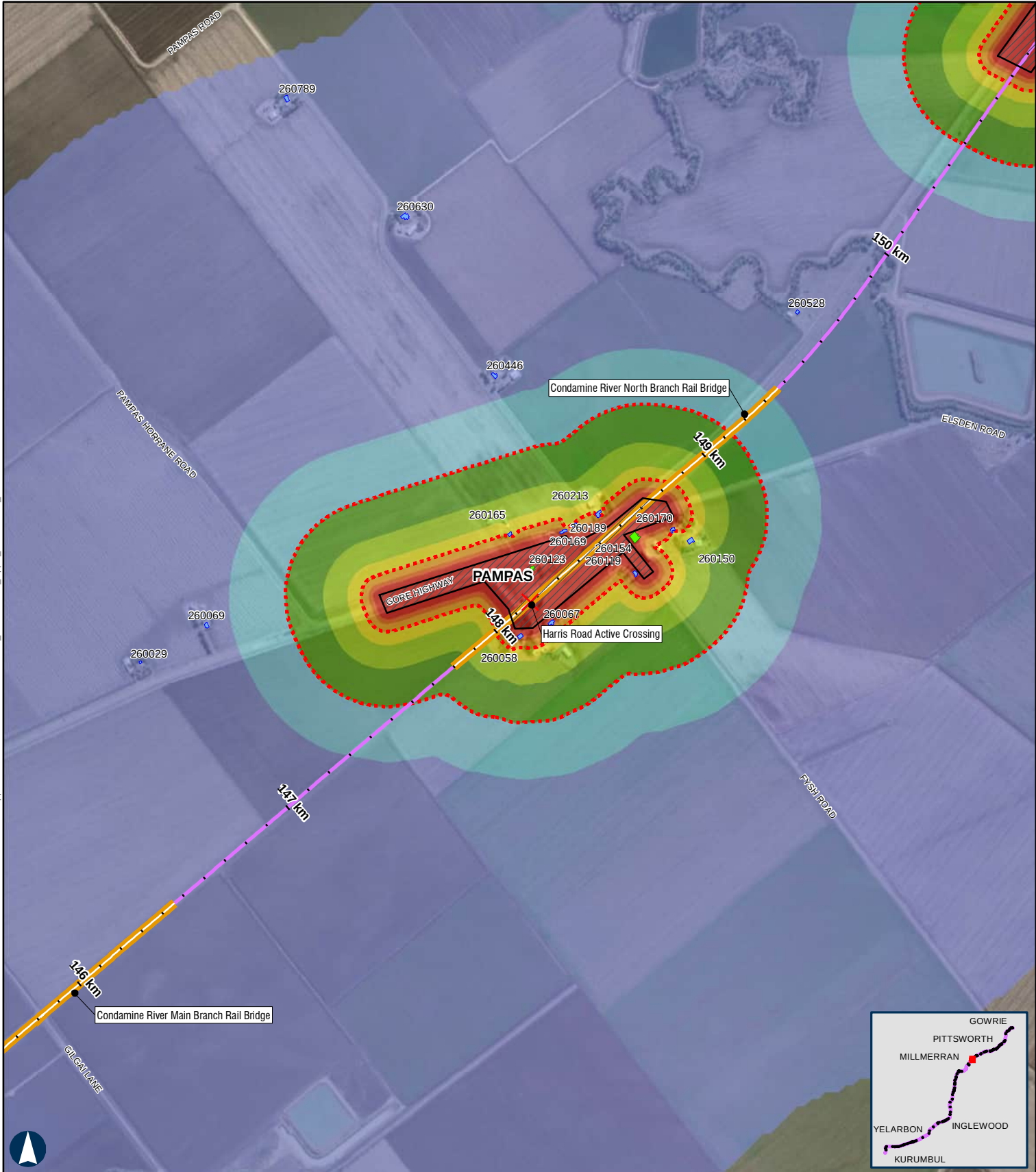
Paper: A4
Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

Level Crossings	Residential	<45 dBA
Flying Fox Camp	Community	45-50 dBA
Criteria (50 and 65 dBA)	Educational	50-55 dBA
Project Extent	Commercial	55-60 dBA
Crossing Loops	Parkland	60-65 dBA
Bridges and Viaducts	Future Developments	65-70 dBA
Rail Alignment/ Centreline		70-75 dBA
Work Area		>75 dBA
Koala Habitat Area		

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BORDER TO GOWRIE

**Scenario 18 - Road Civil - Asphalt
Standard Hours**

APPENDIX D - MAP 33 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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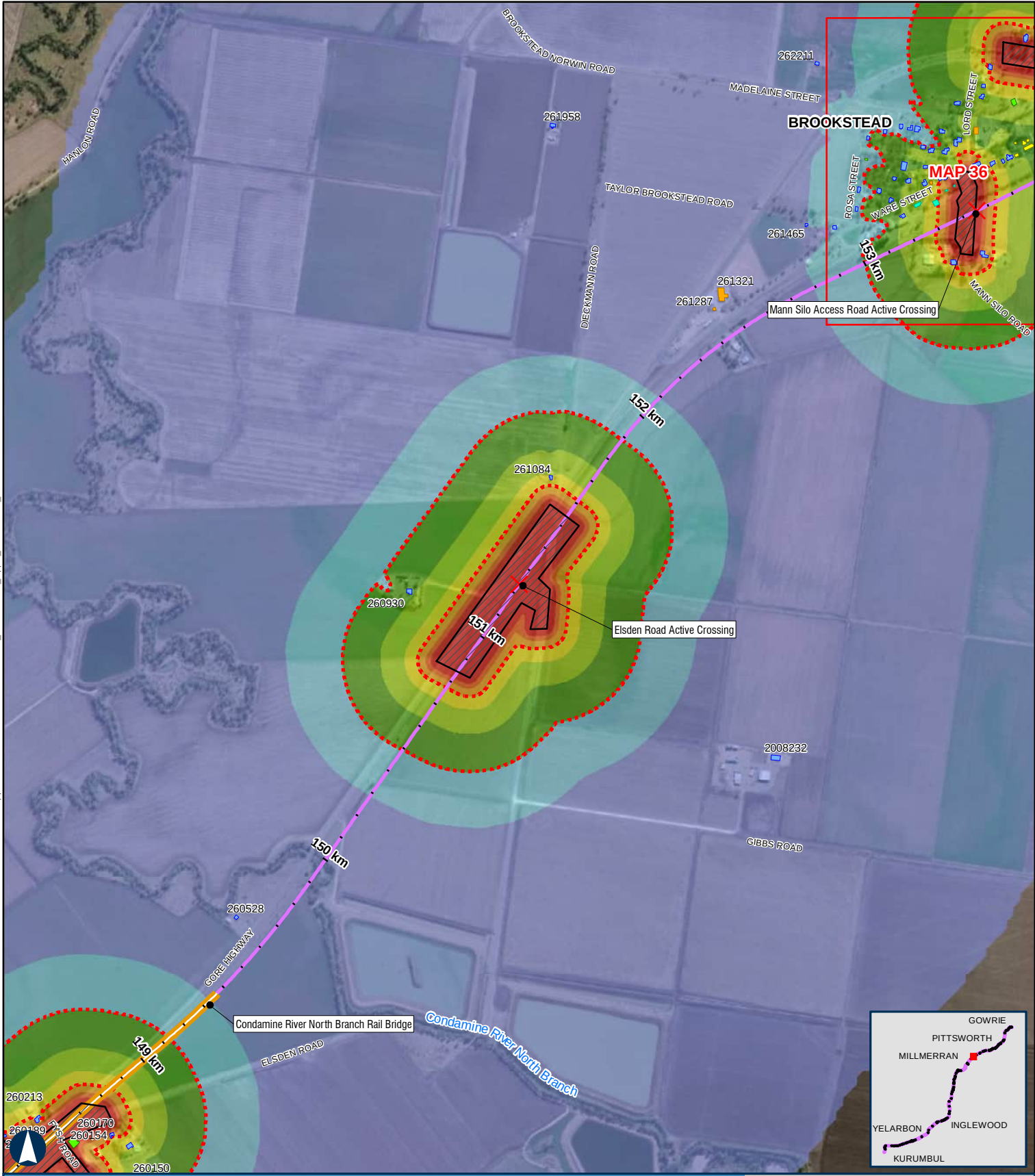
Paper: A4
Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

Level Crossings	Residential	<45 dBA
Flying Fox Camp	Community	45-50 dBA
Criteria (50 and 65 dBA)	Educational	50-55 dBA
Project Extent	Commercial	55-60 dBA
Crossing Loops	Parkland	60-65 dBA
Bridges and Viaducts	Future Developments	65-70 dBA
Rail Alignment/ Centreline		70-75 dBA
Work Area		>75 dBA
Koala Habitat Area		

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BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Standard Hours

APPENDIX D - MAP 34 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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- ✗ Level Crossings
- Flying Fox Camp
- ⋯ Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA

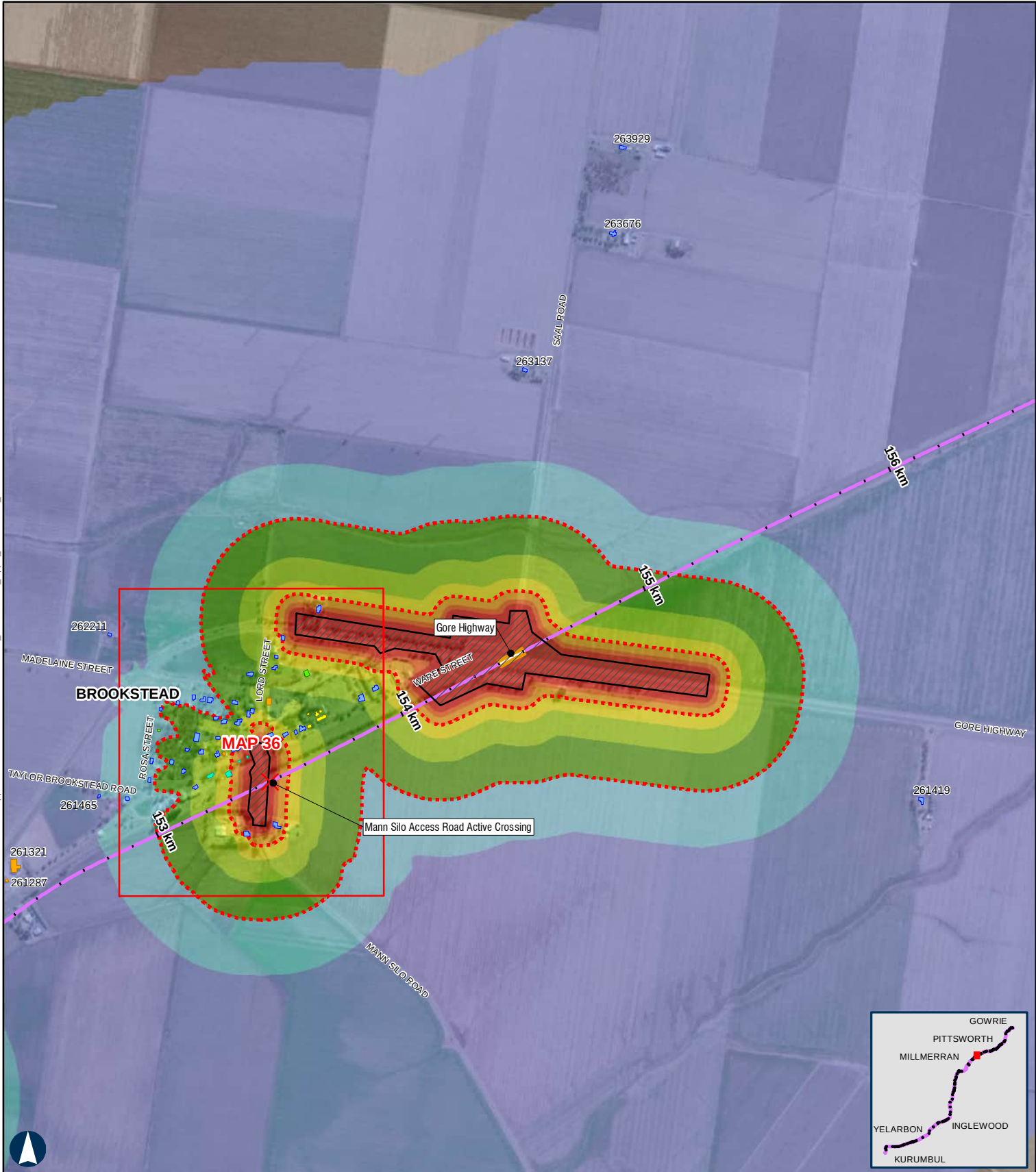
Paper: A4
Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

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BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Standard Hours

APPENDIX D - MAP 35 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 13-Nov-2024
Author: JG

- ✗ Level Crossings
- Flying Fox Camp
- ⋯ Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

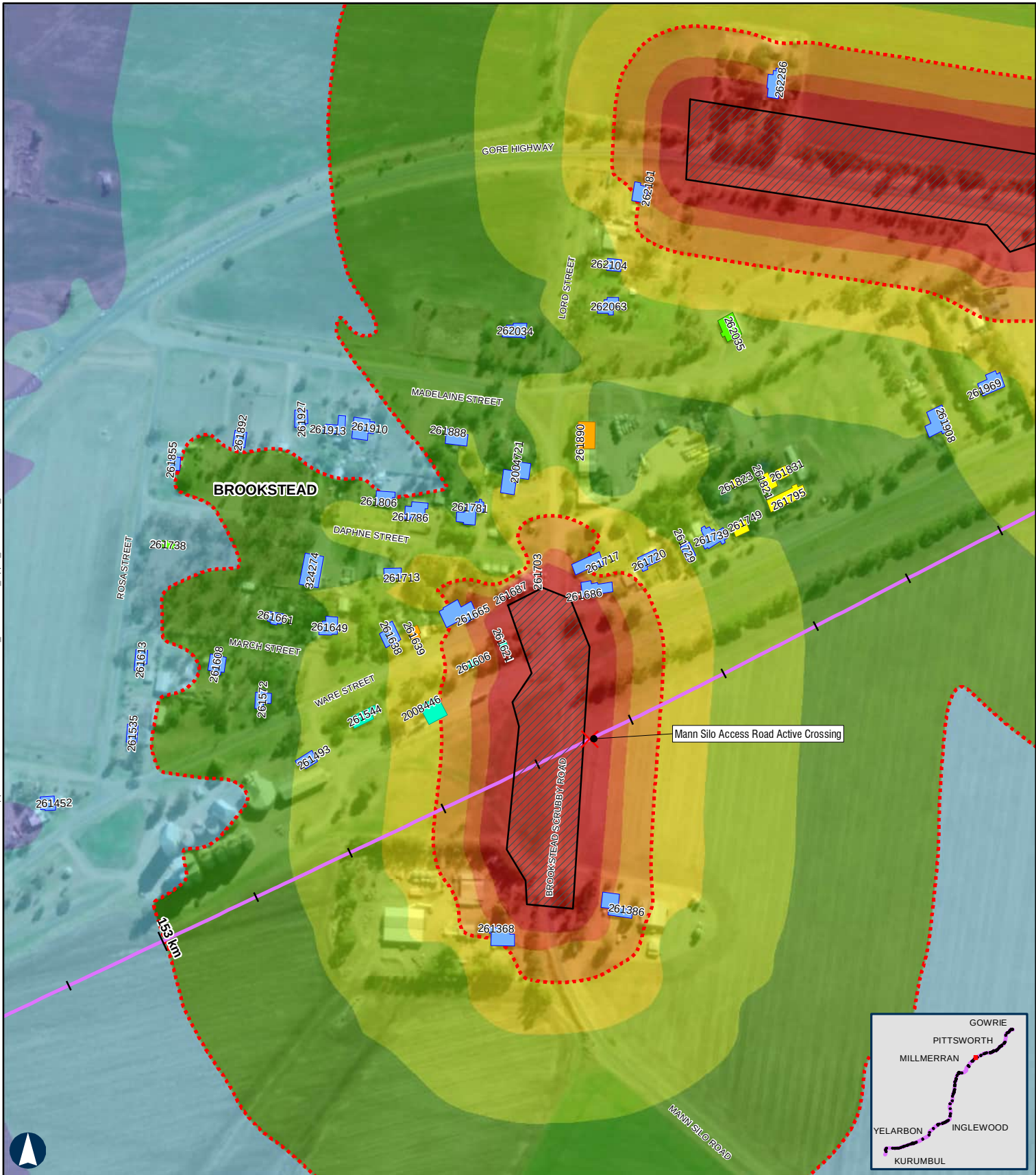
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA

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BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Standard Hours

APPENDIX D - MAP 36 OF 54

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 13-Nov-2024
Author: JG

Scale: 1:5,000

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

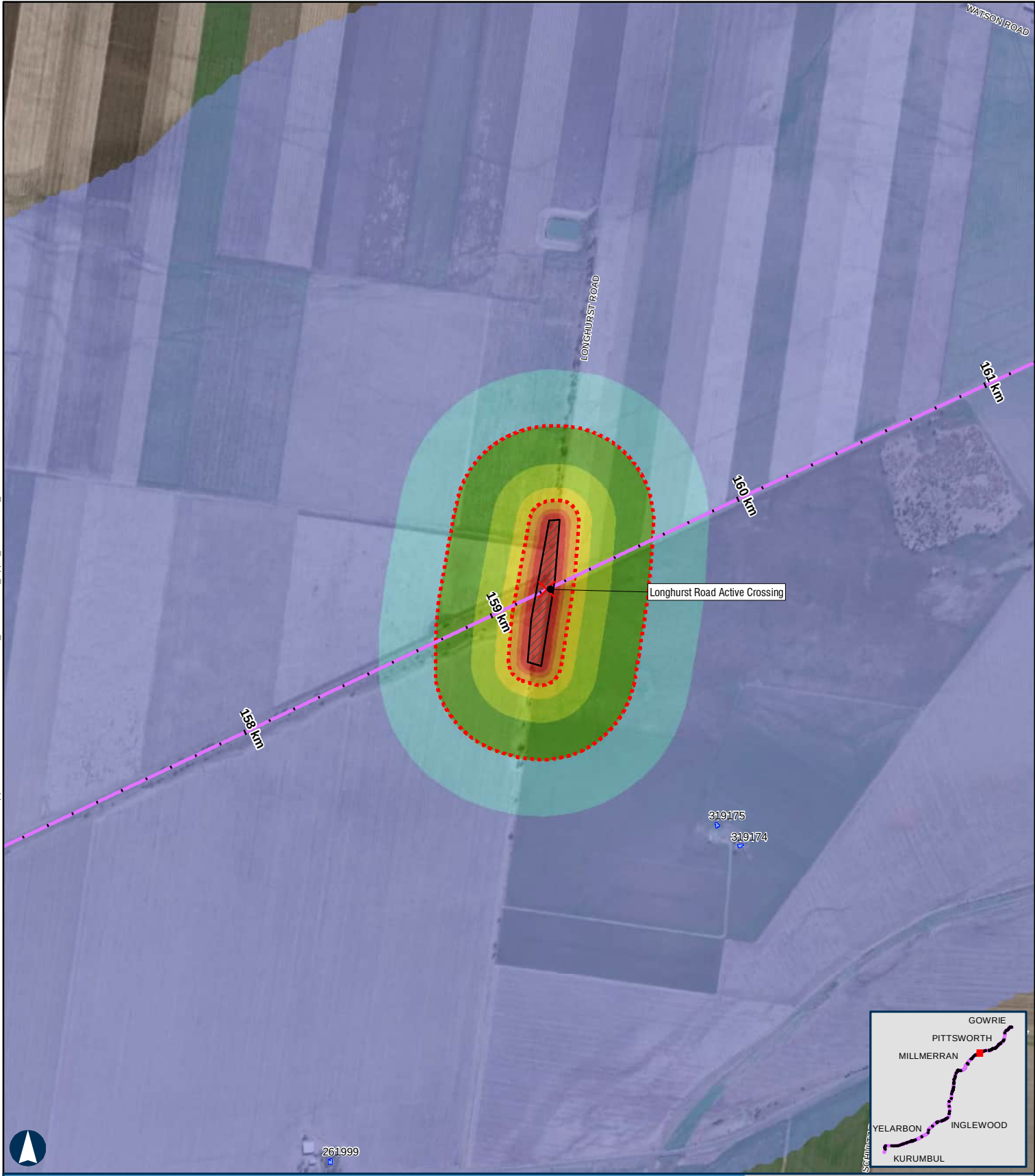
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA

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BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Standard Hours

APPENDIX D - MAP 37 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

- ✕ Level Crossings
- Flying Fox Camp
- ⋯ Criteria (50 and 65 dBA)
- ▬ Project Extent
- ▬ Crossing Loops
- ▬ Bridges and Viaducts
- ▬ Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

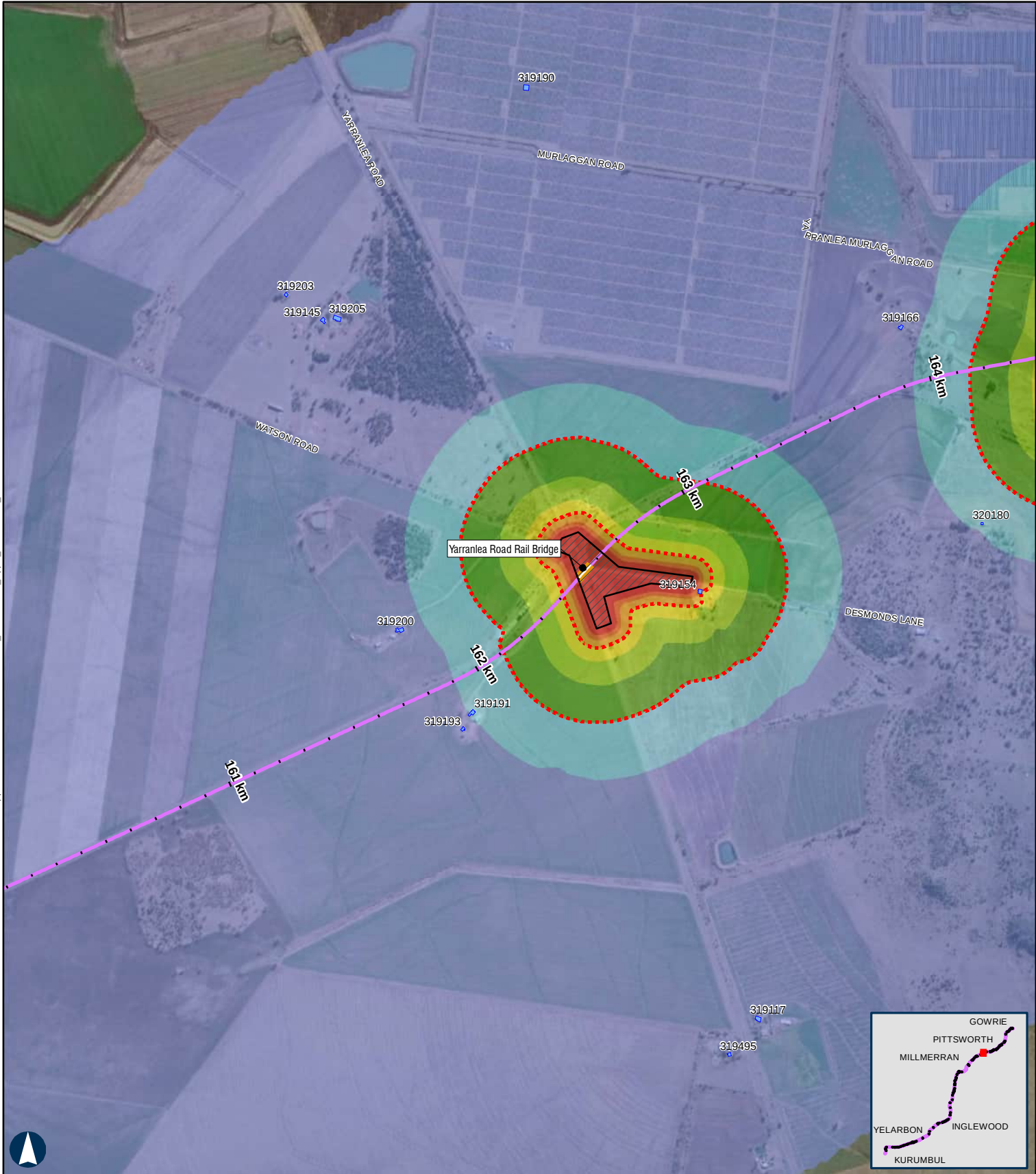
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA



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BORDER TO GOWRIE

**Scenario 18 - Road Civil - Asphalt
Standard Hours**

APPENDIX D - MAP 38 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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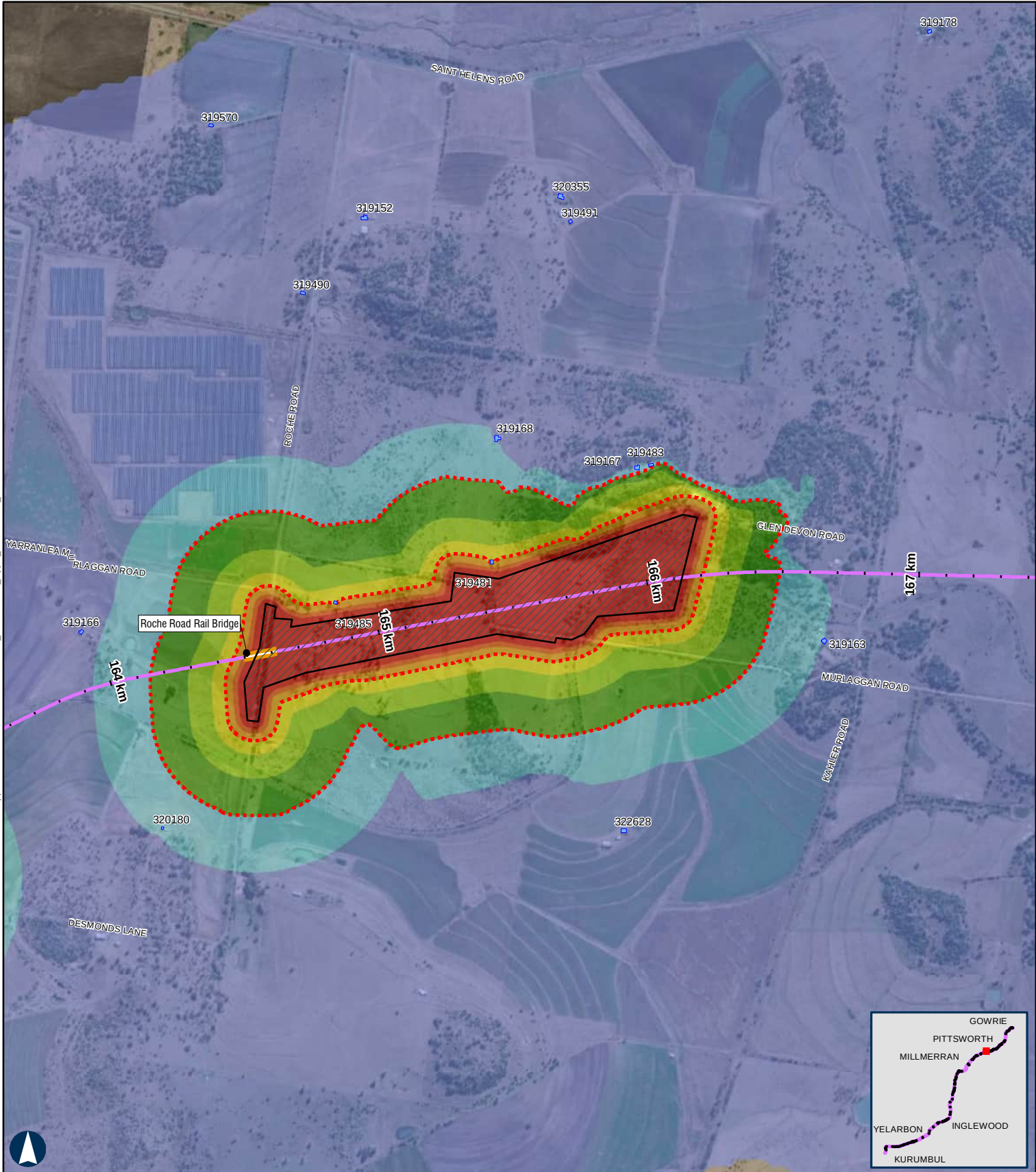
Paper: A4
Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

- | | | |
|----------------------------|---------------------|-----------|
| Level Crossings | Residential | <45 dBA |
| Flying Fox Camp | Community | 45-50 dBA |
| Criteria (50 and 65 dBA) | Educational | 50-55 dBA |
| Project Extent | Commercial | 55-60 dBA |
| Crossing Loops | Parkland | 60-65 dBA |
| Bridges and Viaducts | Future Developments | 65-70 dBA |
| Rail Alignment/ Centreline | | 70-75 dBA |
| Work Area | | >75 dBA |
| Koala Habitat Area | | |

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BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Standard Hours

APPENDIX D - MAP 39 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

Scale: 1:19,000

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

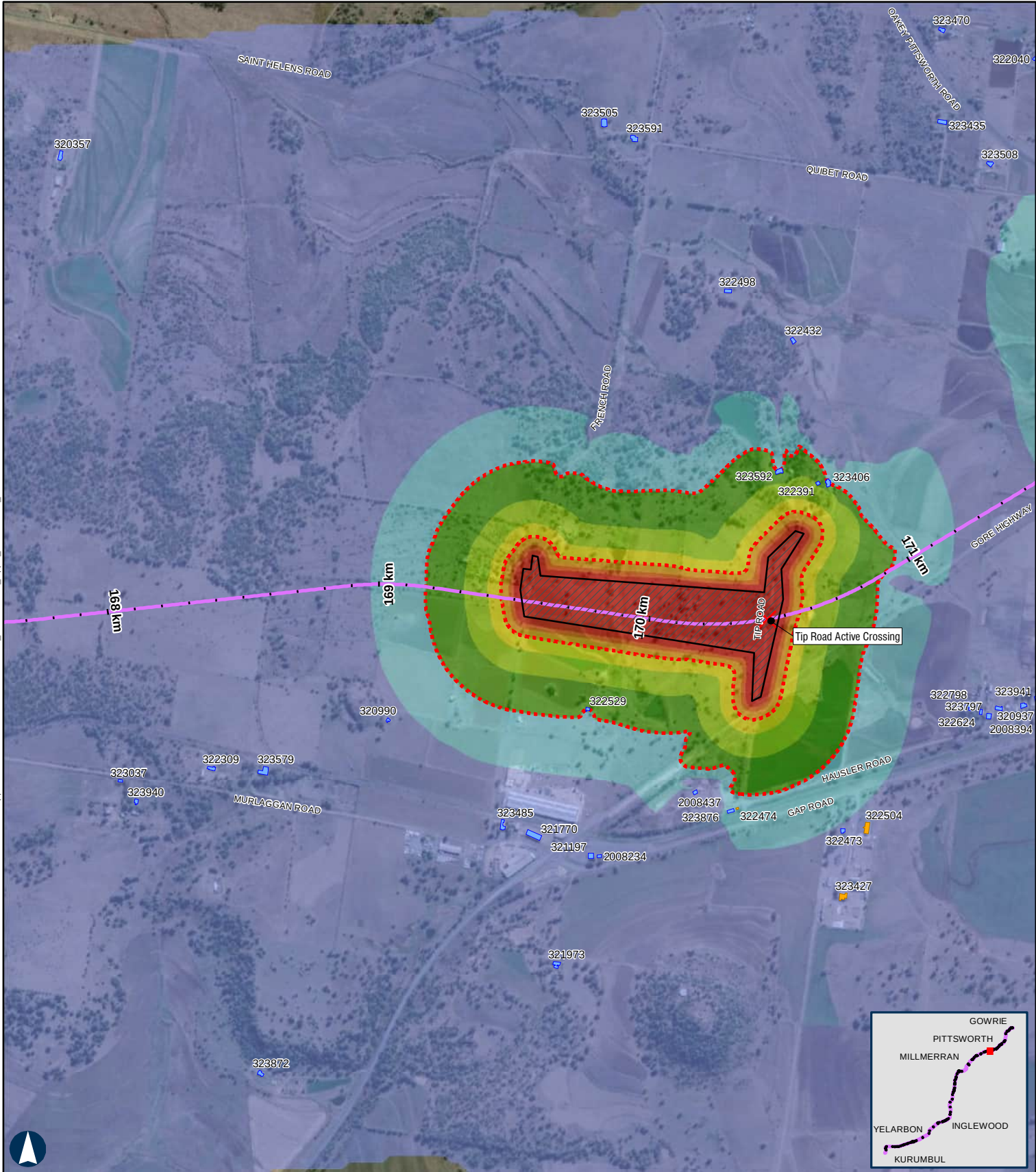
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA

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BORDER TO GOWRIE

**Scenario 18 - Road Civil - Asphalt
Standard Hours**

APPENDIX D - MAP 40 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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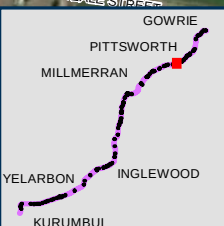
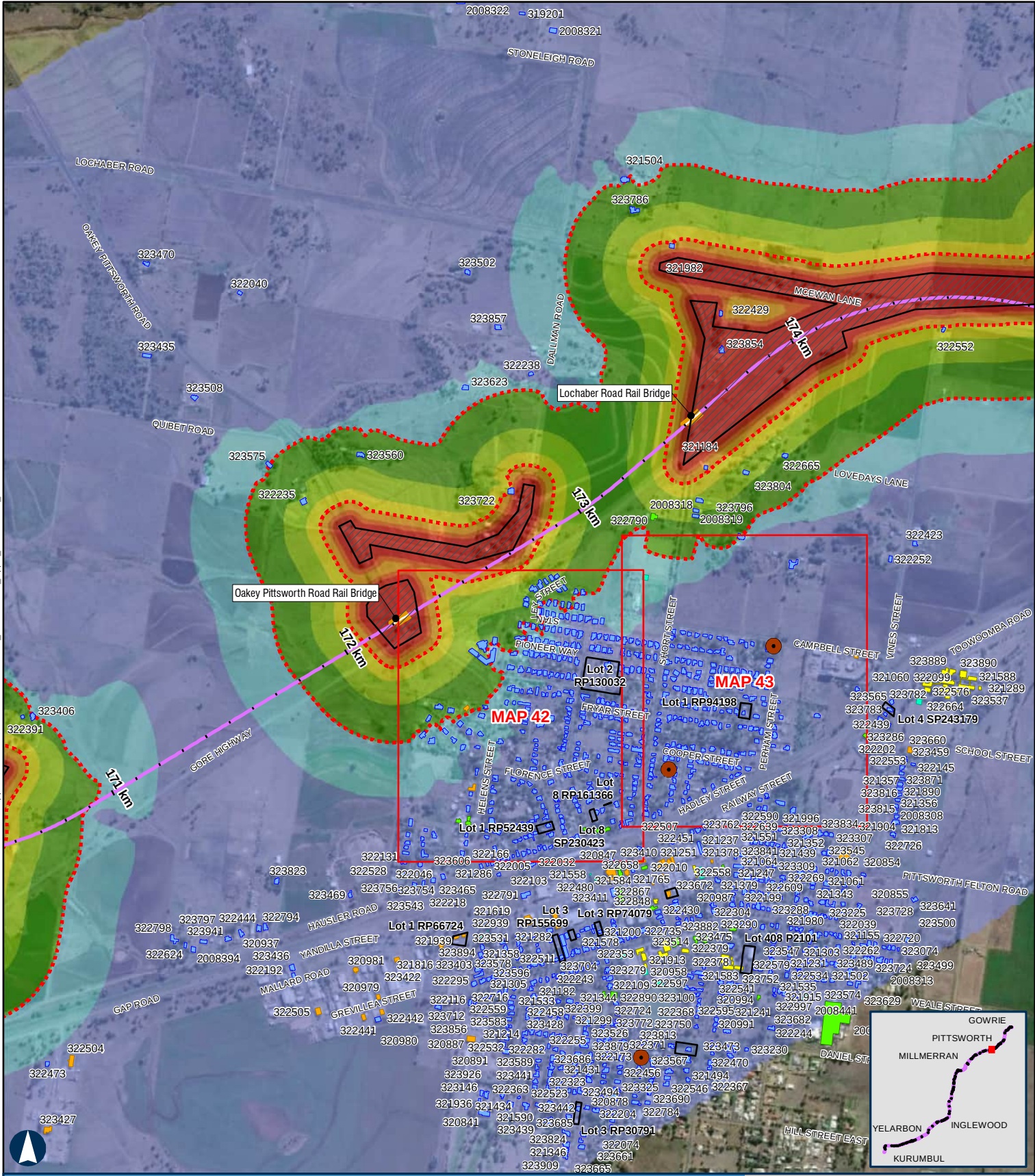
Paper: A4
Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

- | | | |
|----------------------------|---------------------|-----------|
| Level Crossings | Residential | <45 dBA |
| Flying Fox Camp | Community | 45-50 dBA |
| Criteria (50 and 65 dBA) | Educational | 50-55 dBA |
| Project Extent | Commercial | 55-60 dBA |
| Crossing Loops | Parkland | 60-65 dBA |
| Bridges and Viaducts | Future Developments | 65-70 dBA |
| Rail Alignment/ Centreline | | 70-75 dBA |
| Work Area | | >75 dBA |
| Koala Habitat Area | | |

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BORDER TO GOWRI

**Scenario 18 - Road Civil - Asphalt
Standard Hours**

APPENDIX D - MAP 41 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

- ✗ Level Crossings
- Flying Fox Camp
- ... Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

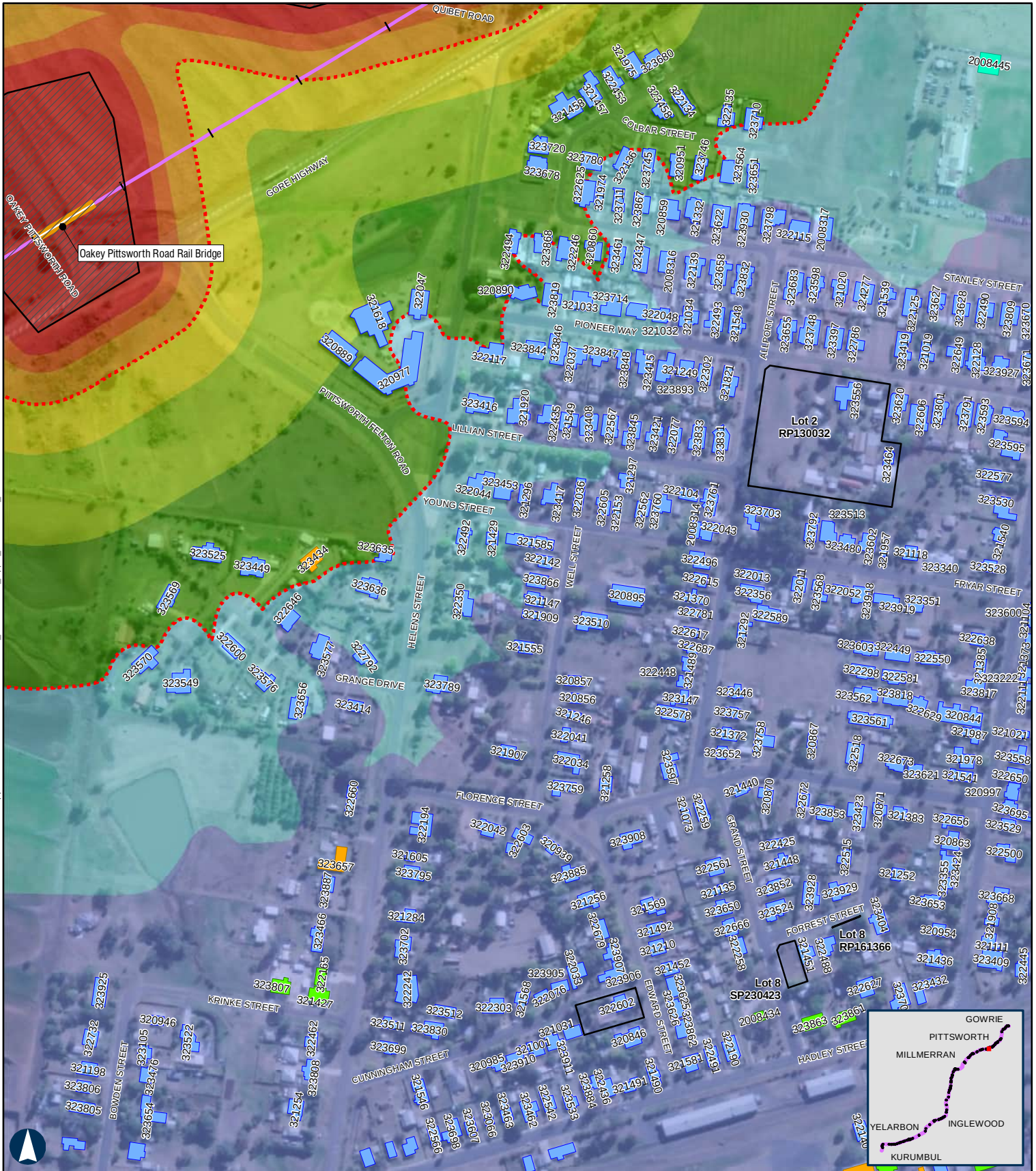
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA

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BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Standard Hours

APPENDIX D - MAP 42 OF 54

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 13-Nov-2024
Author: JG

Scale: 1:5,000

- ✗ Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

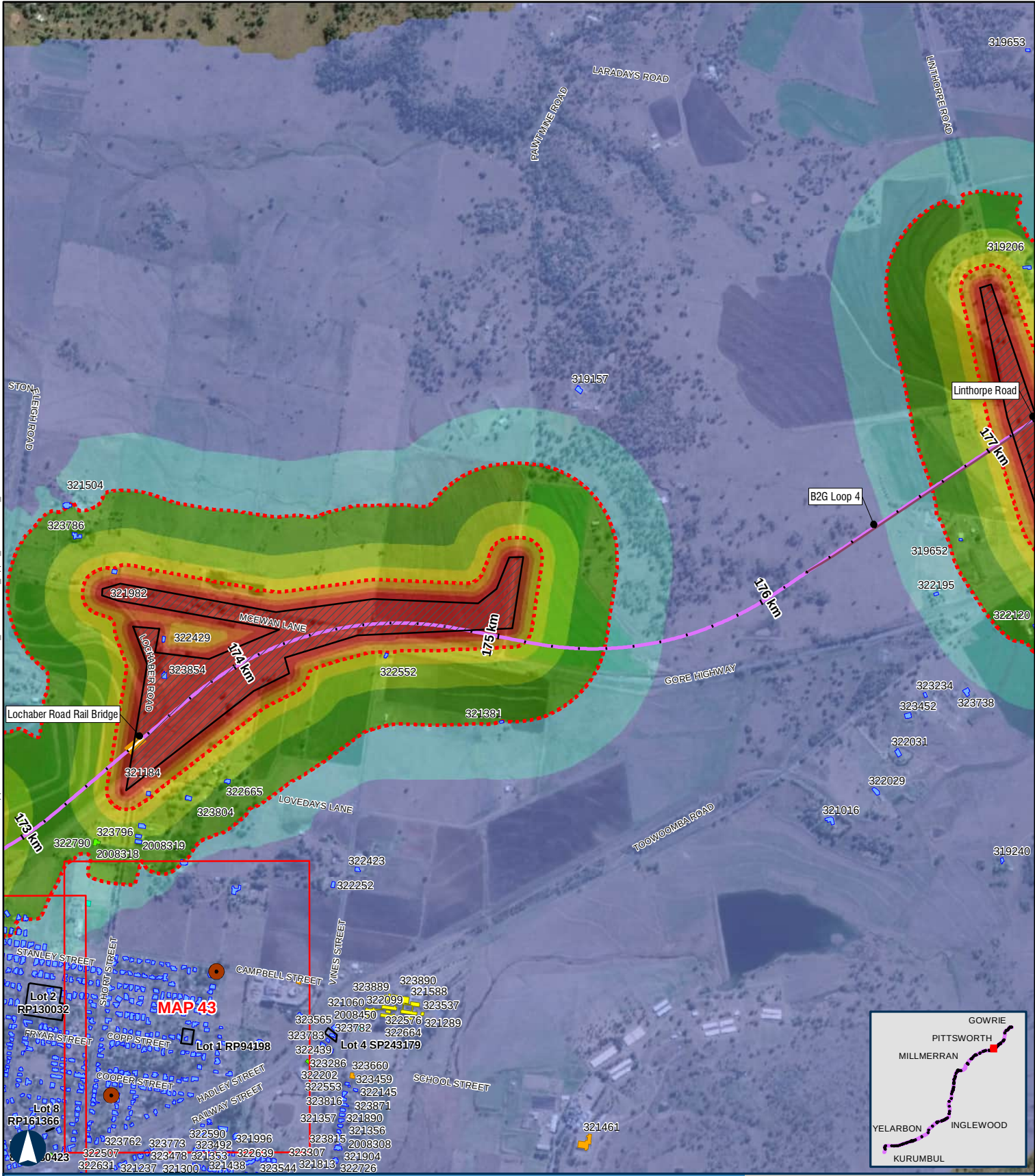
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA

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BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt
Standard Hours

APPENDIX D - MAP 44 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 13-Nov-2024
Author: JG

✗ Level Crossings

🦋 Flying Fox Camp

⋯ Criteria (50 and 65 dBA)

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/ Centreline

▨ Work Area

▨ Koala Habitat Area

Sensitive Receptor Type

🏠 Residential

🏡 Community

🎓 Educational

🏢 Commercial

🌳 Parkland

🏗 Future Developments

Noise Levels

<45 dBA

45-50 dBA

50-55 dBA

55-60 dBA

60-65 dBA

65-70 dBA

70-75 dBA

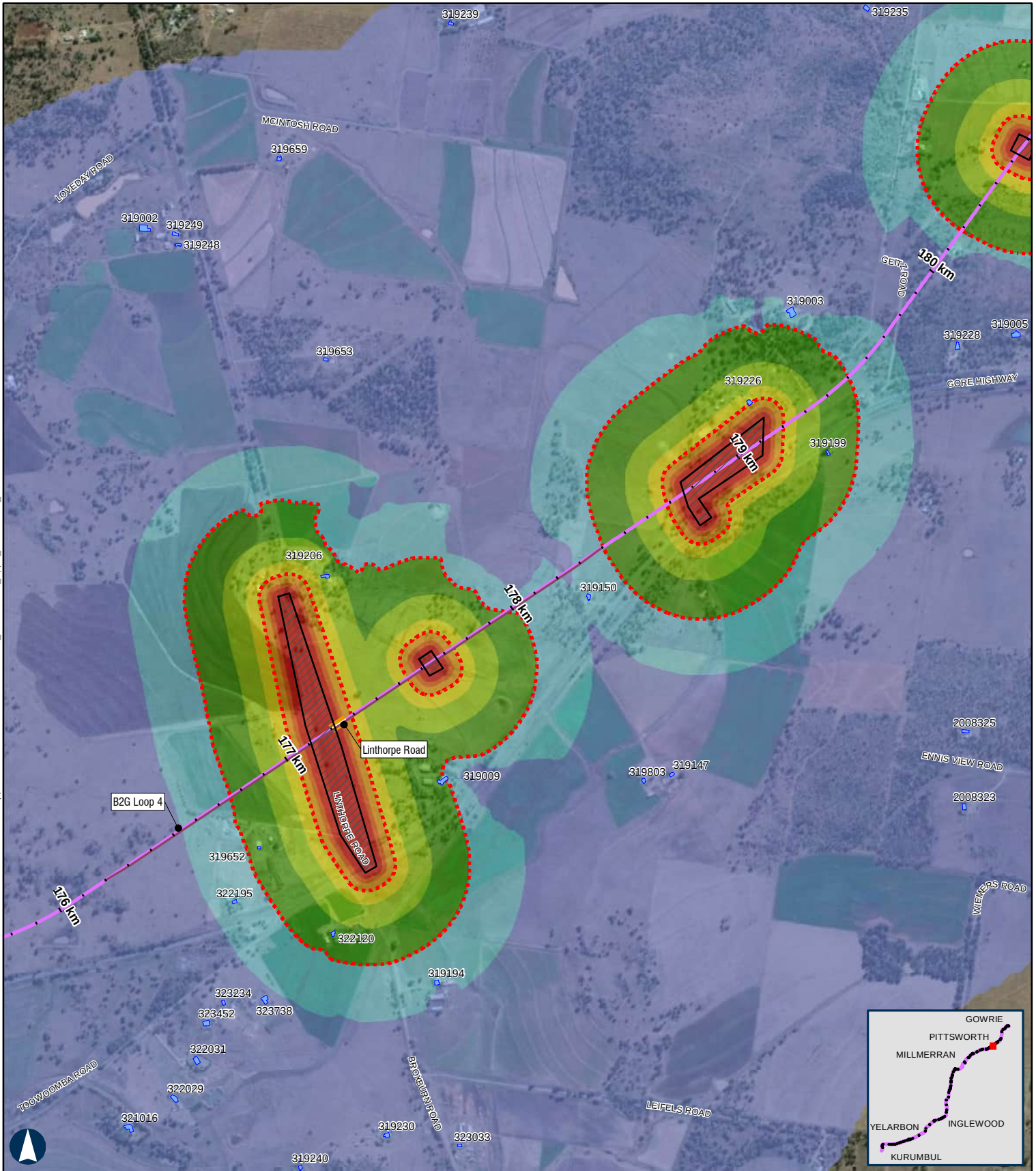
>75 dBA

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BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Standard Hours

APPENDIX D - MAP 45 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

- ✕ Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

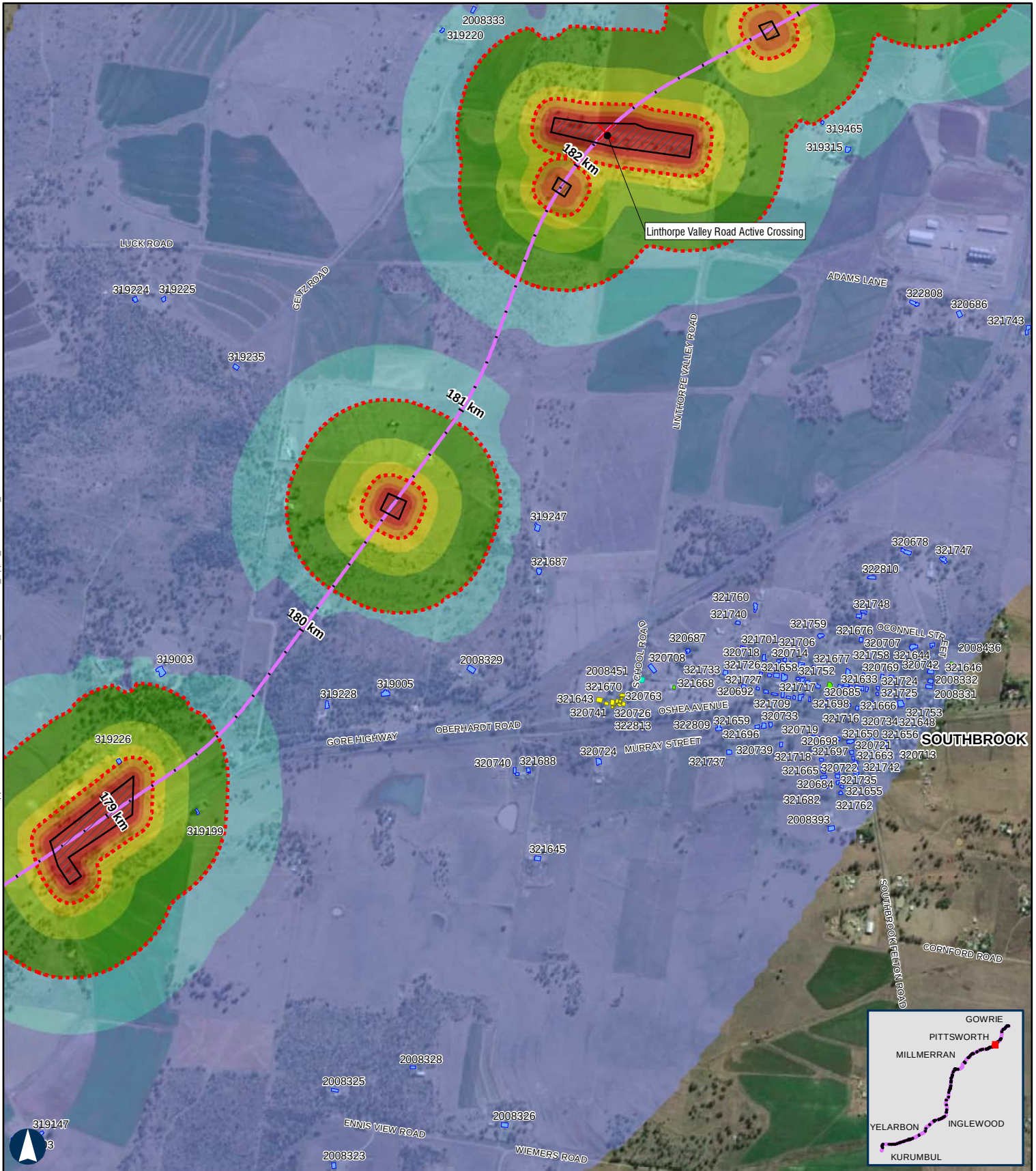
- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA



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BORDER TO GOWRIE

**Scenario 18 - Road Civil - Asphalt
Standard Hours**

APPENDIX D - MAP 46 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

- ✕ Level Crossings
- Flying Fox Camp
- ⋯ Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

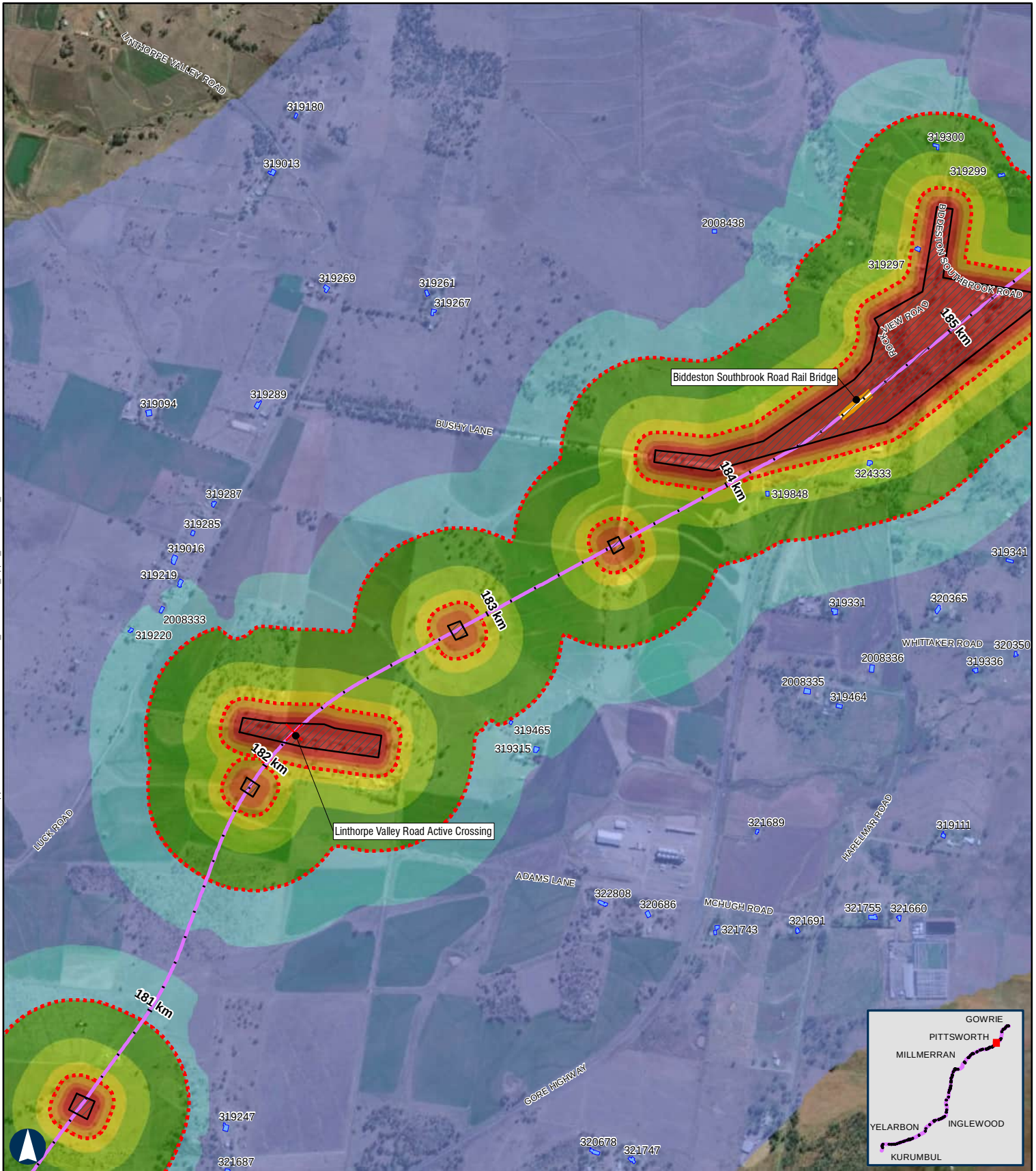
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA



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BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Standard Hours

APPENDIX D - MAP 47 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

- ✕ Level Crossings
- Flying Fox Camp
- ⋯ Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

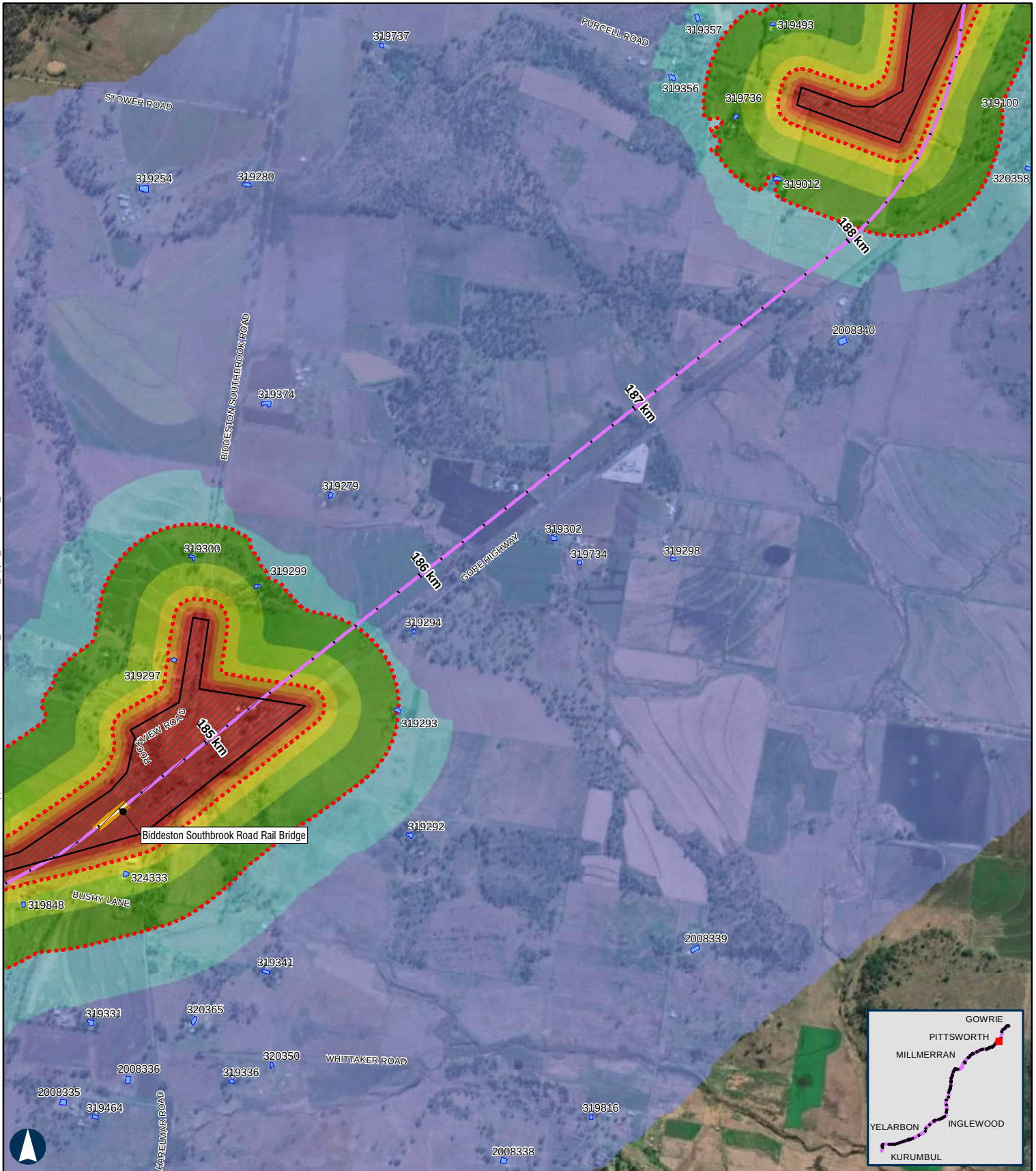
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA

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BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Standard Hours

APPENDIX D - MAP 48 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

- ✕ Level Crossings
- Flying Fox Camp
- ⋯ Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

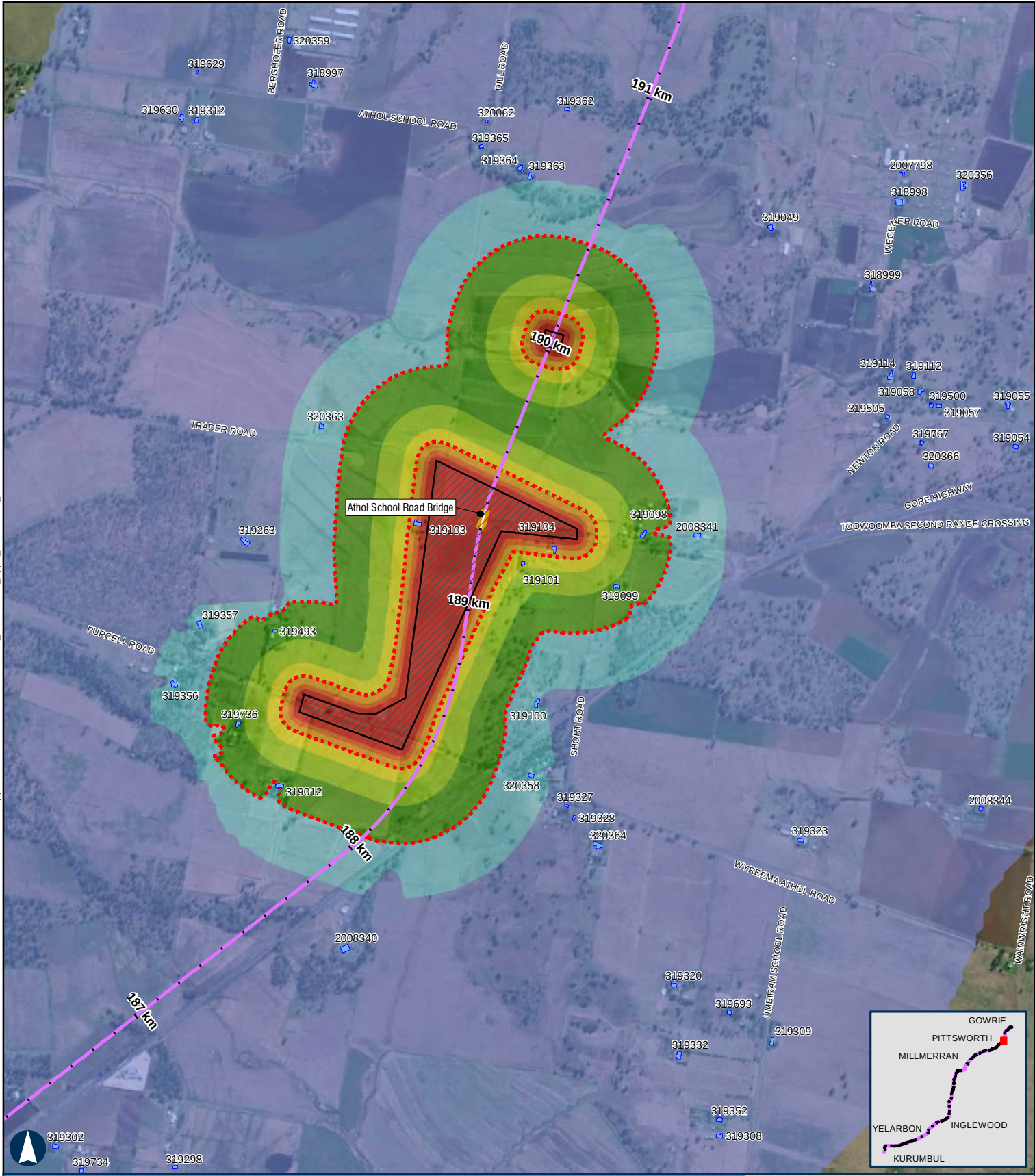
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA



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BORDER TO GOWRIE

**Scenario 18 - Road Civil - Asphalt
Standard Hours**

APPENDIX D - MAP 49 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

- ✗ Level Crossings
- Flying Fox Camp
- ⋯ Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

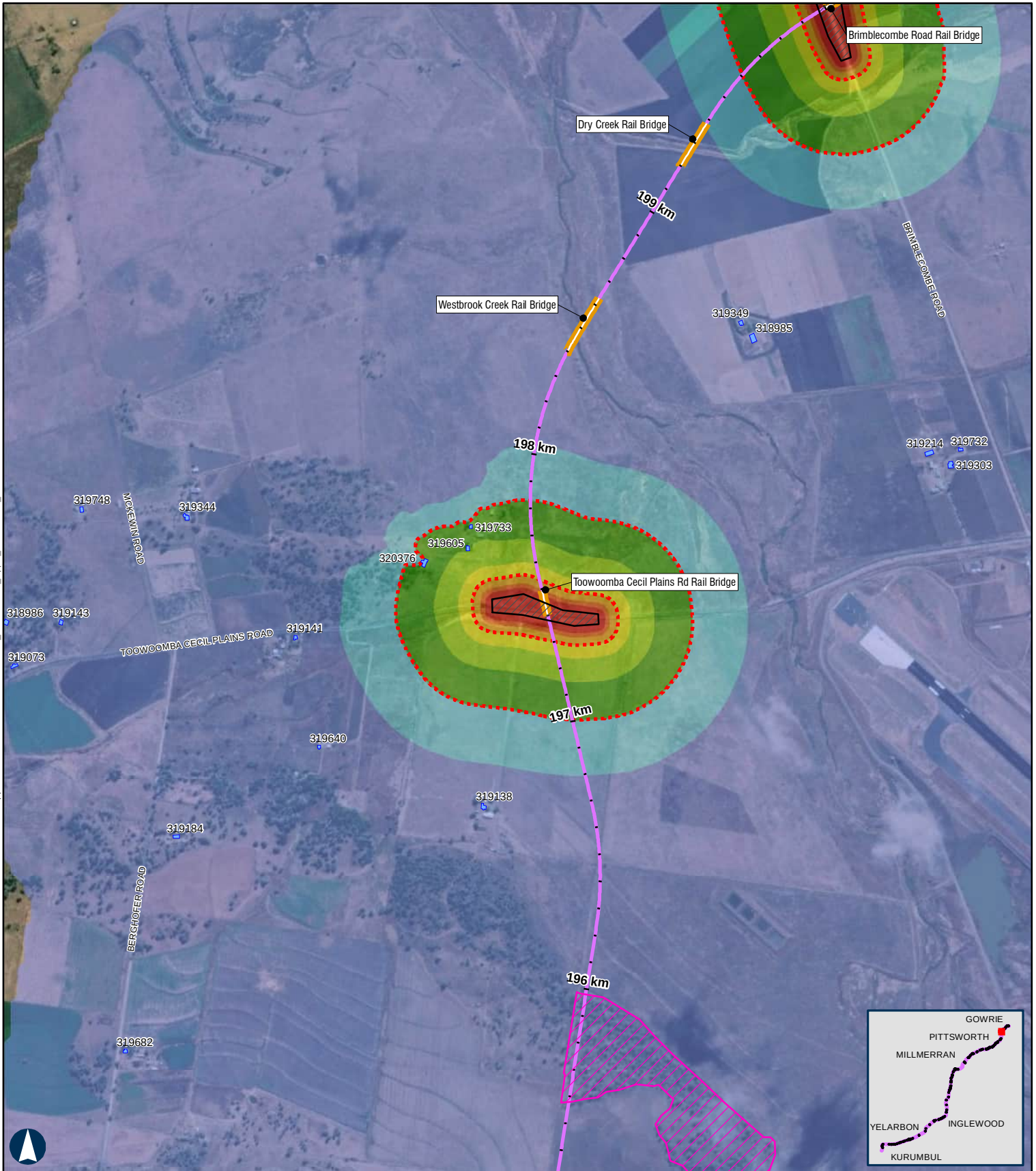
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA

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BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Standard Hours

APPENDIX D - MAP 50 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

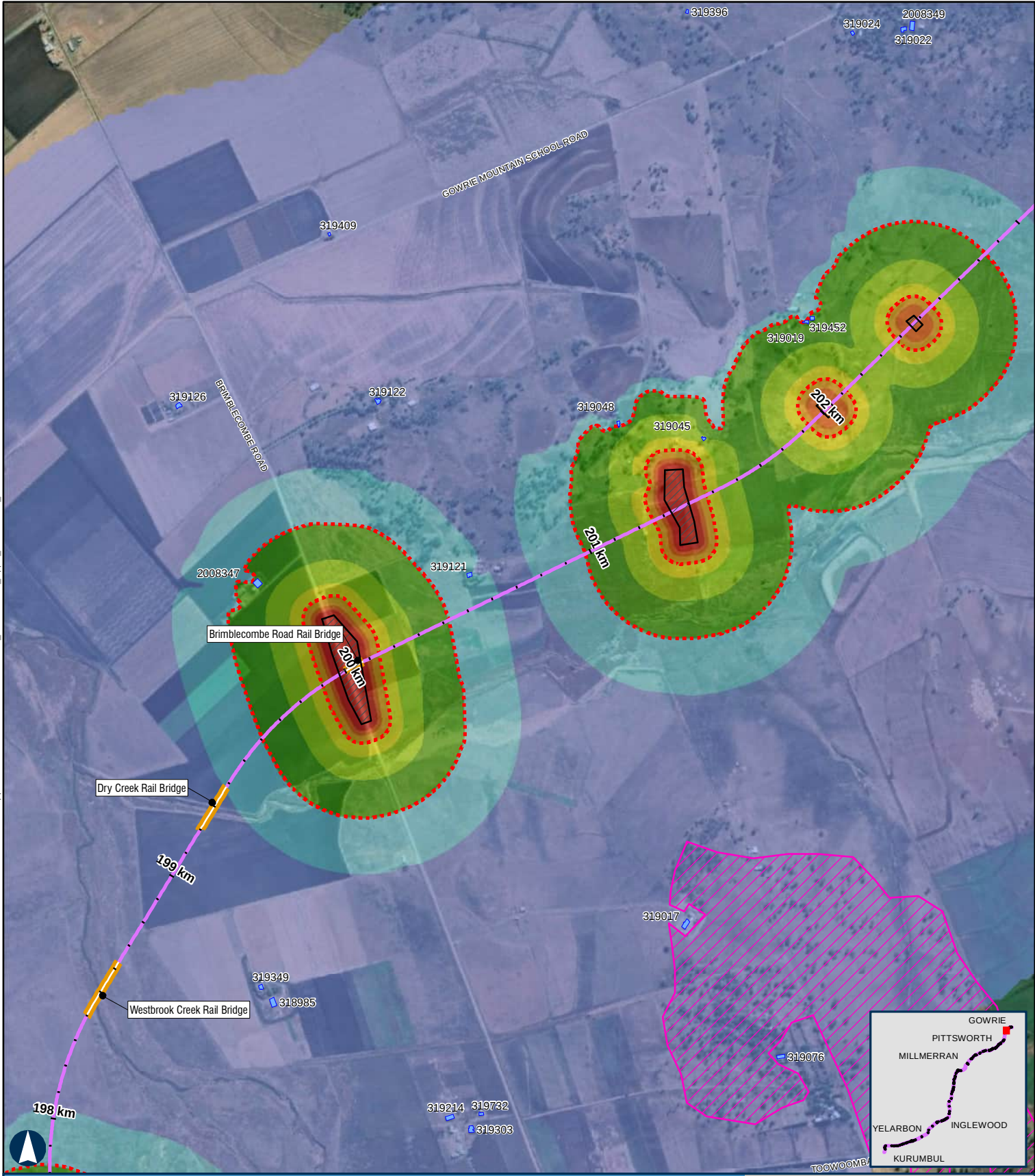
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA

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BORDER TO GOWRIE

**Scenario 18 - Road Civil - Asphalt
Standard Hours**

APPENDIX D - MAP 51 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

- ✕ Level Crossings
- Flying Fox Camp
- ⋯ Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

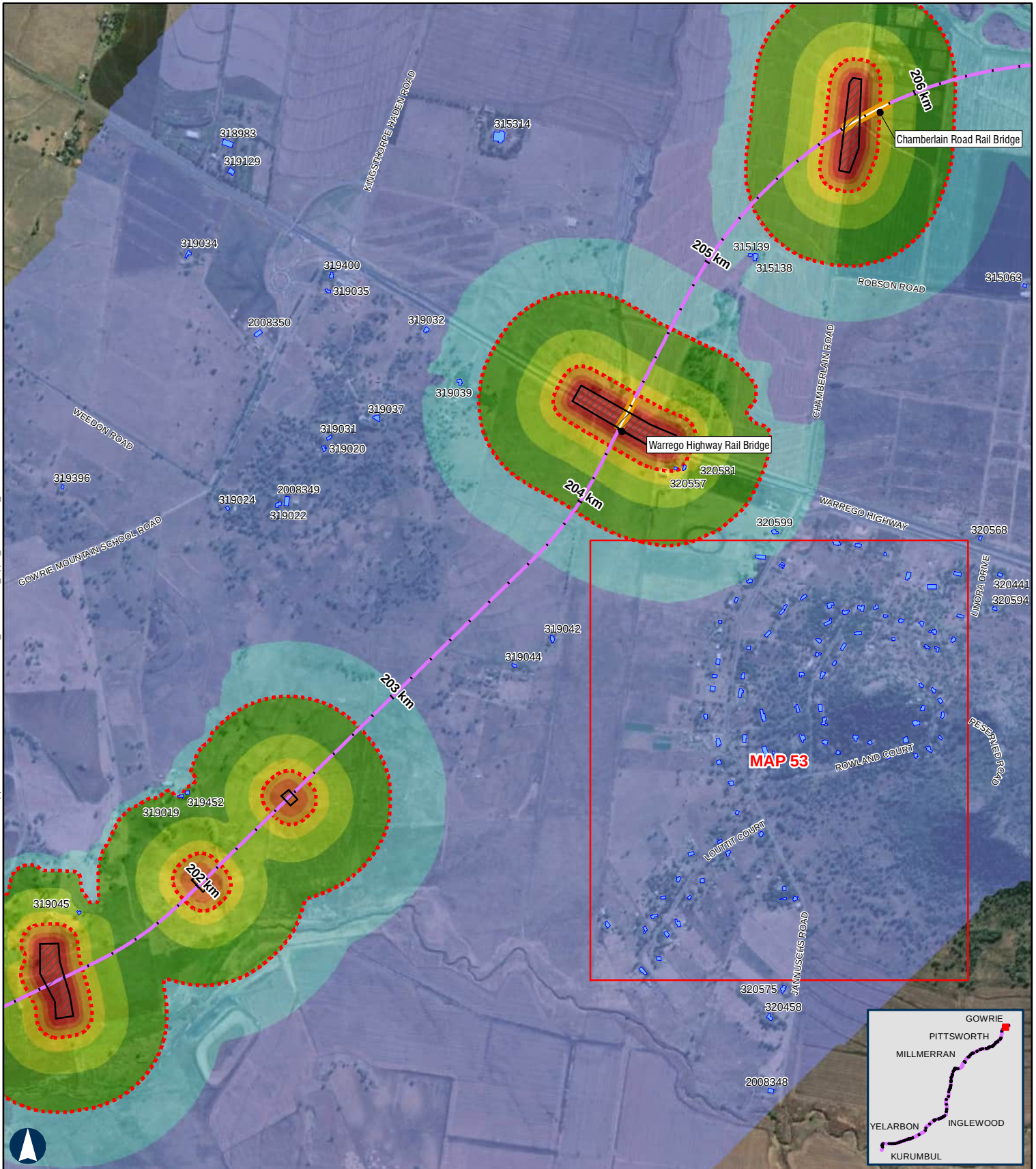
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA

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BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Standard Hours

APPENDIX D - MAP 52 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

- ✕ Level Crossings
- Flying Fox Camp
- ⋯ Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA

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BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Standard Hours

APPENDIX D - MAP 53 OF 54

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 13-Nov-2024
Author: JG

Scale: 1:7,000

- ✗ Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

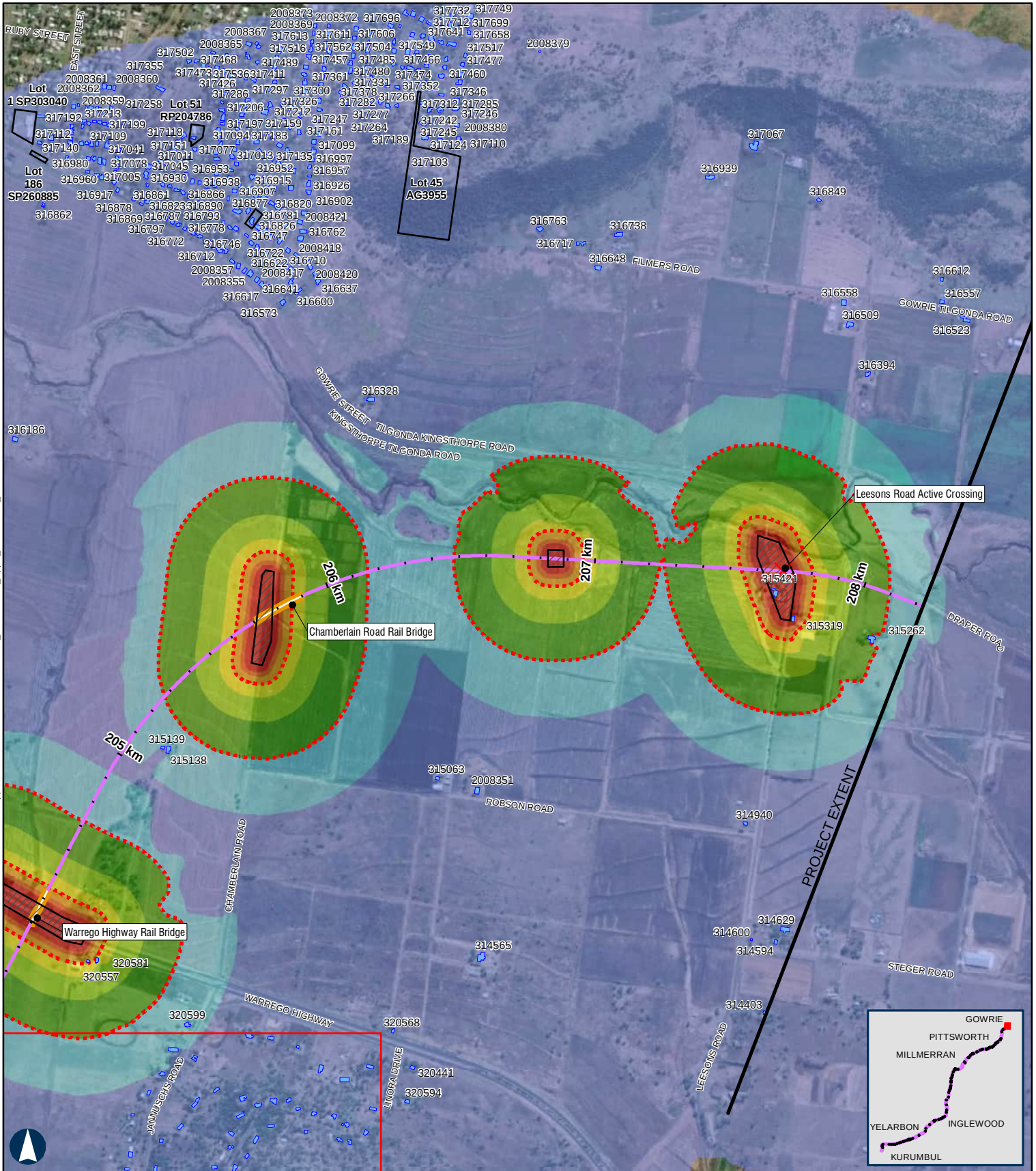
Noise Levels

- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Standard Hours

APPENDIX D - MAP 54 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

- ✗ Level Crossings
- Flying Fox Camp
- ... Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

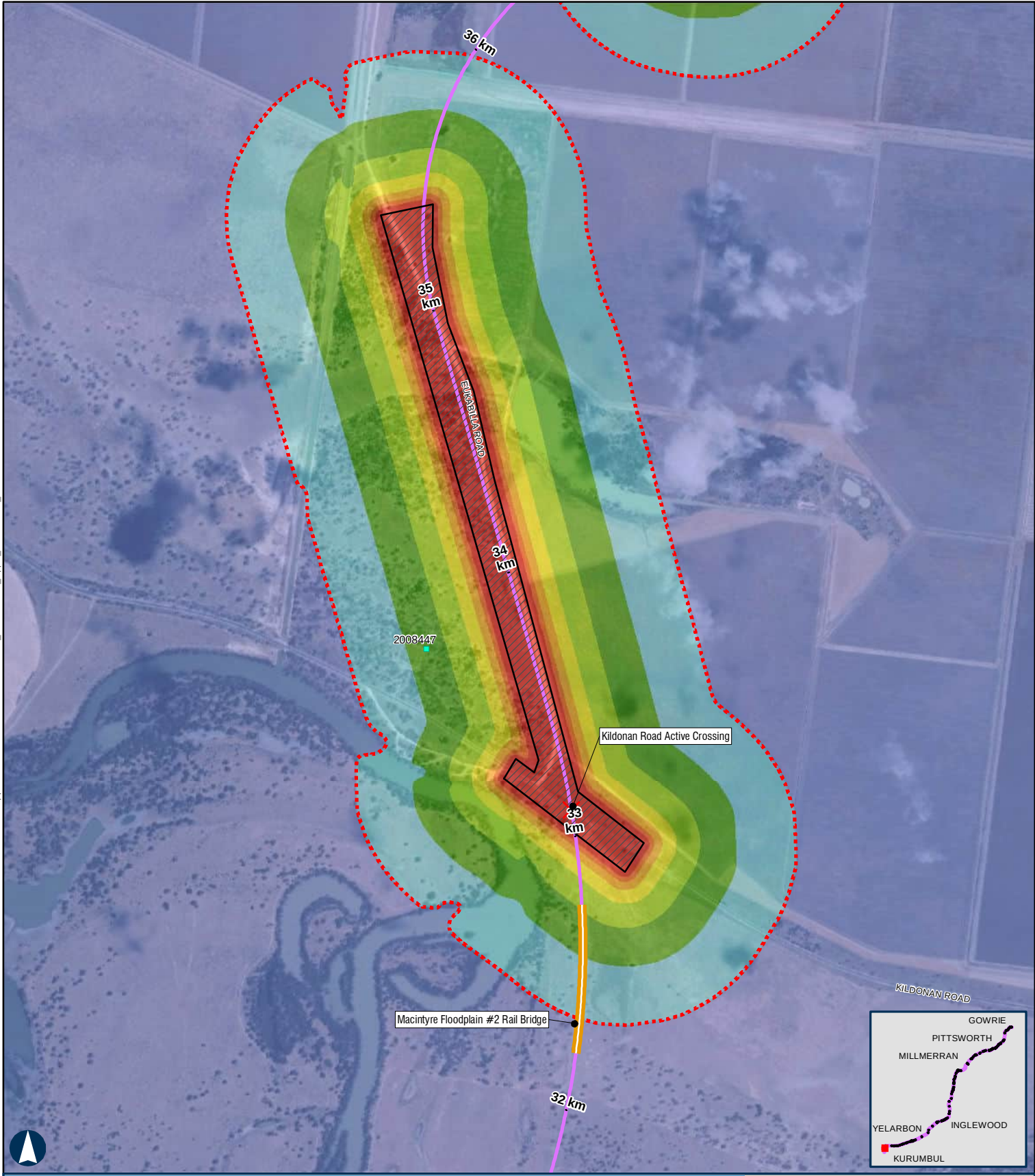
Noise Levels

- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Non-Standard Hours

APPENDIX D - MAP 1 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

- ✗ Level Crossings
- Flying Fox Camp
- ⋯ Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

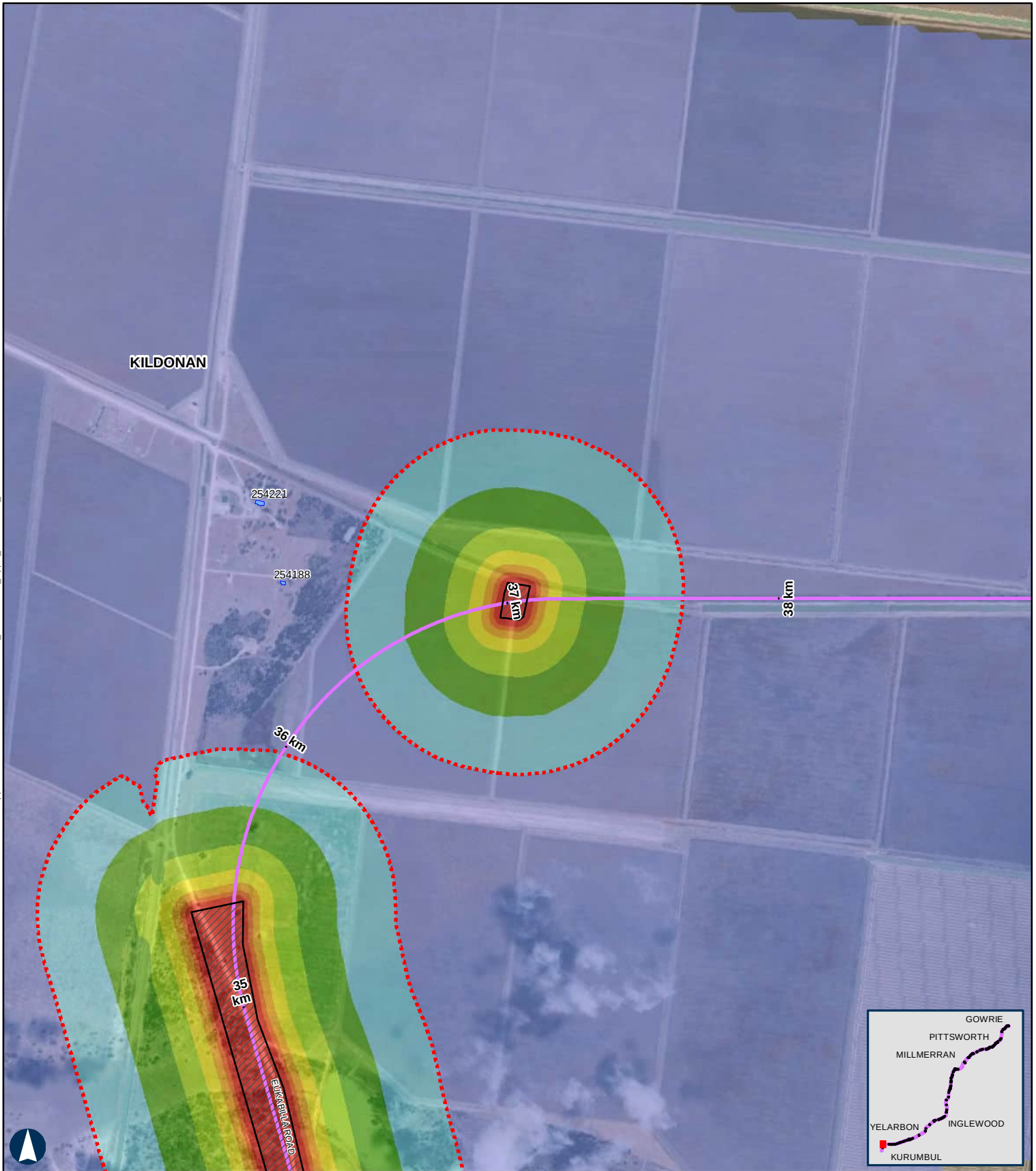
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA

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BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Non-Standard Hours

APPENDIX D - MAP 2 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

✗ Level Crossings

● Flying Fox Camp

⋯ Criteria (45 dBA)

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/ Centreline

▨ Work Area

▨ Koala Habitat Area

Sensitive Receptor Type

■ Residential

■ Community

■ Educational

■ Commercial

■ Parkland

□ Future Developments

Noise Levels

■ <45 dBA

■ 45-50 dBA

■ 50-55 dBA

■ 55-60 dBA

■ 60-65 dBA

■ 65-70 dBA

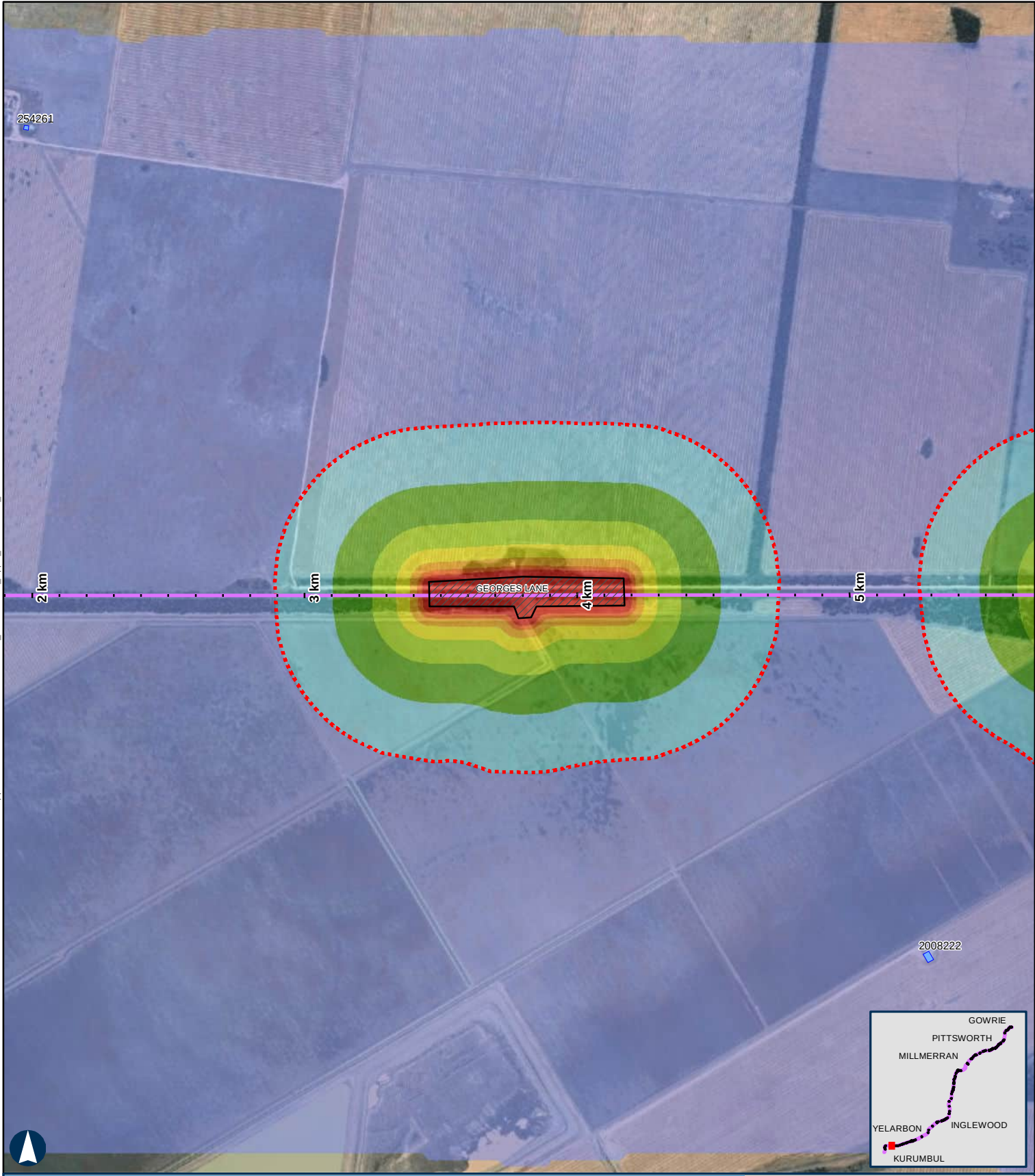
■ 70-75 dBA

■ >75 dBA

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BORDER TO GOWRIE

**Scenario 18 - Road Civil - Asphalt
Non-Standard Hours**

APPENDIX D - MAP 3 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

- ✗ Level Crossings
- Flying Fox Camp
- ⋯ Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

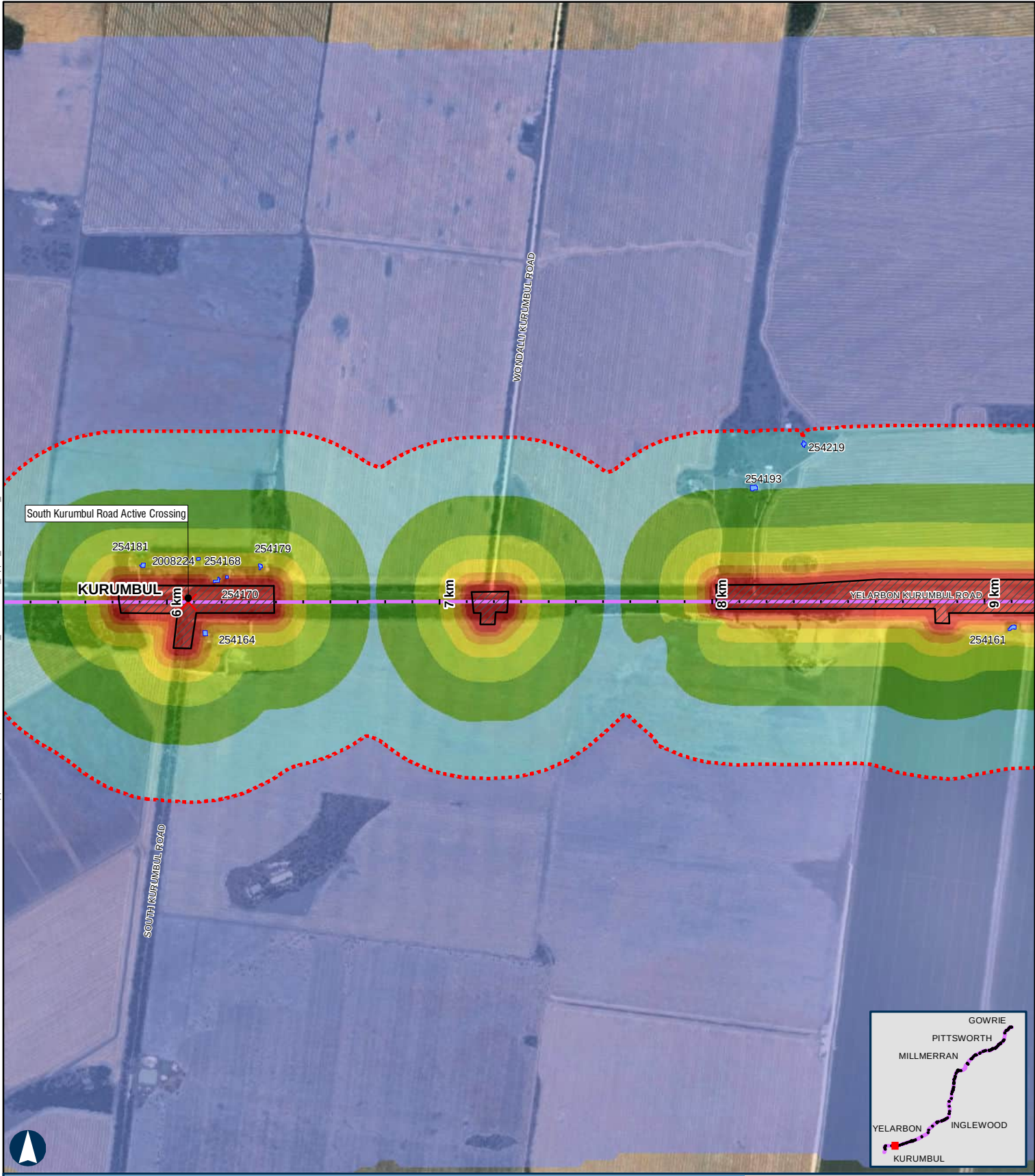
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA



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BORDER TO GOWRIE

**Scenario 18 - Road Civil - Asphalt
Non-Standard Hours**

APPENDIX D - MAP 4 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

Legend

- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels

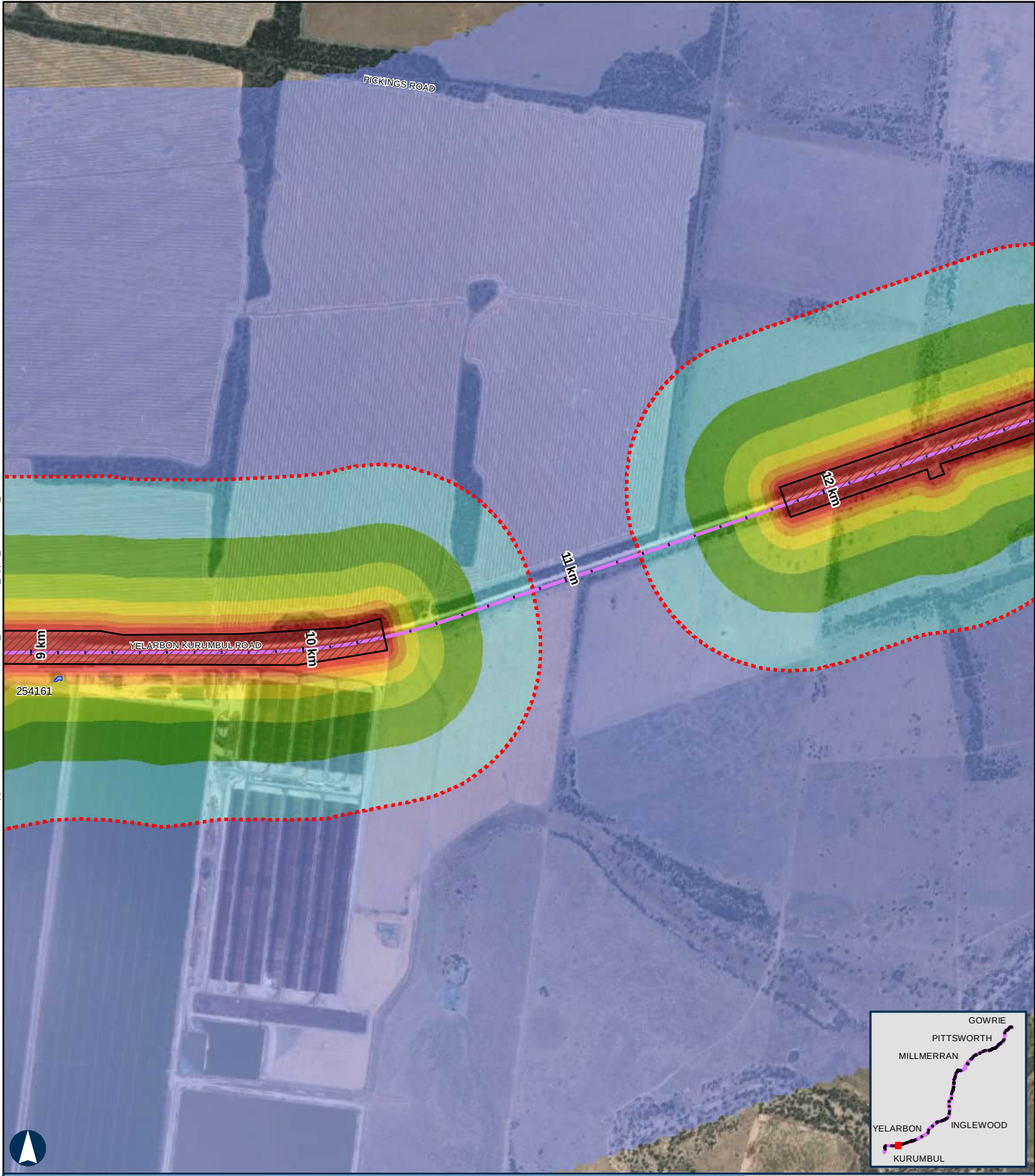
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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BORDER TO GOWRIE

**Scenario 18 - Road Civil - Asphalt
Non-Standard Hours**

APPENDIX D - MAP 5 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

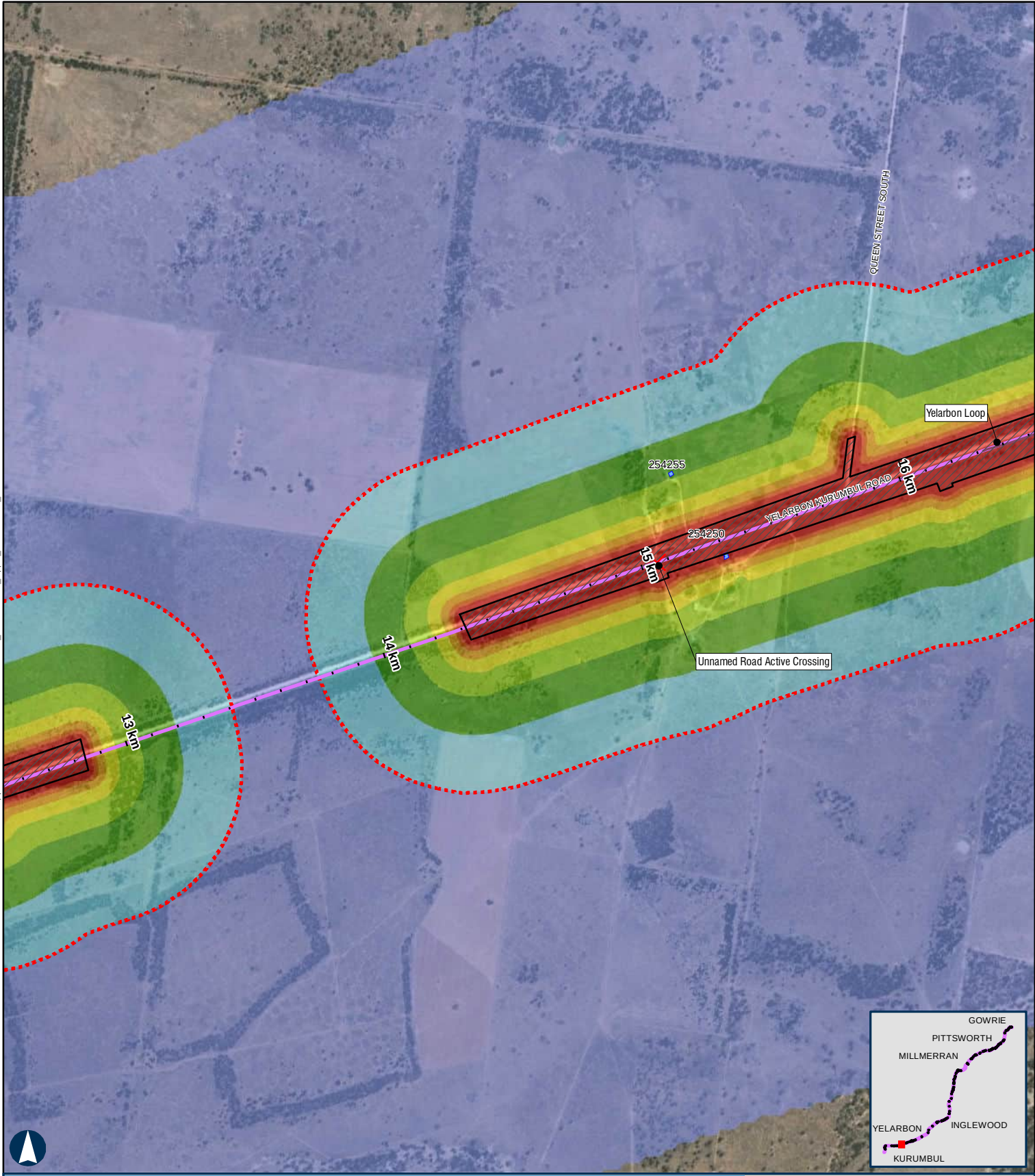
- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA

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Author: JG

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BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Non-Standard Hours

APPENDIX D - MAP 6 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

- ✕ Level Crossings
- Flying Fox Camp
- ⋯ Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

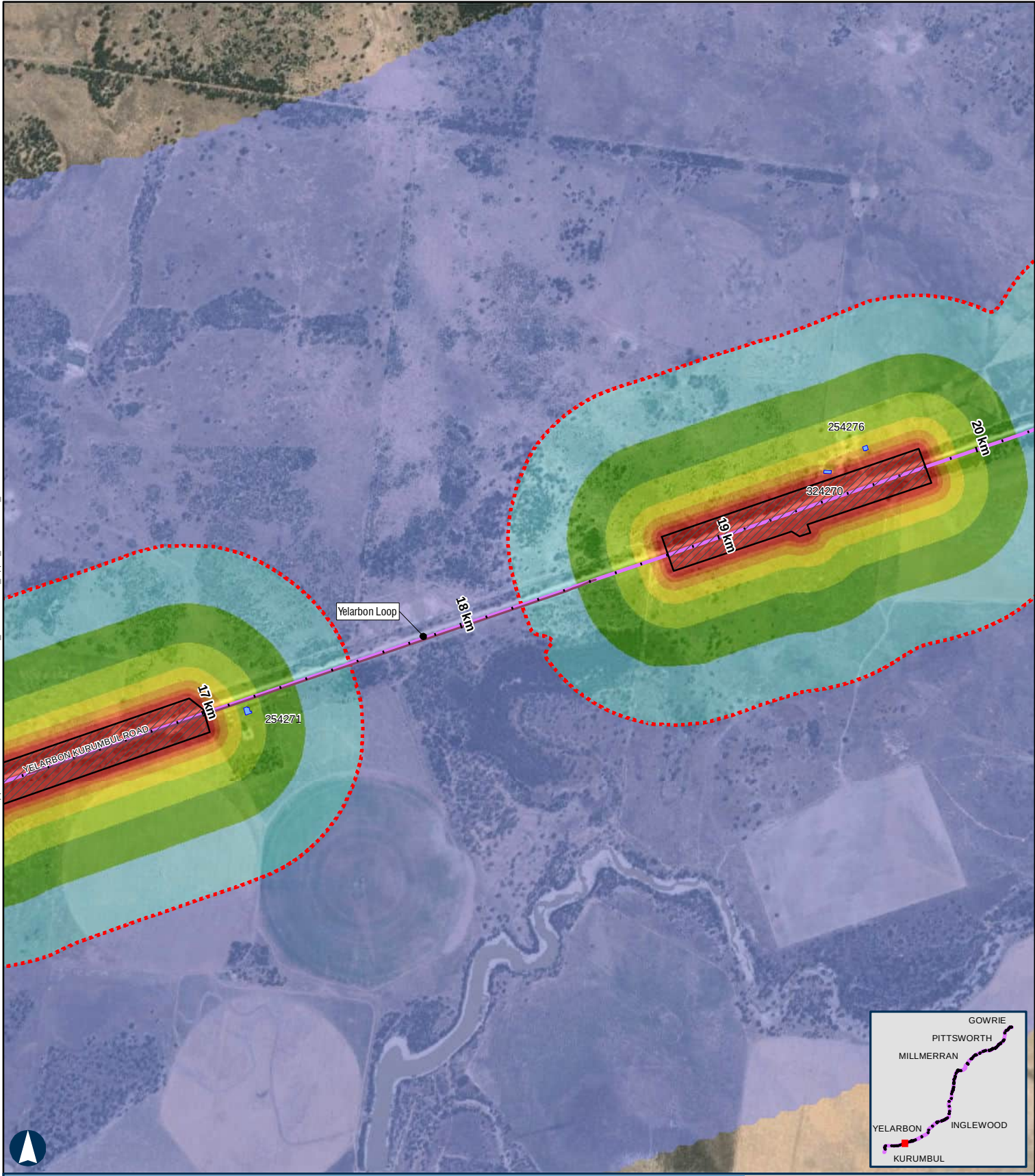
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA



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BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Non-Standard Hours

APPENDIX D - MAP 7 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

- ✗ Level Crossings
- Flying Fox Camp
- ⋯ Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

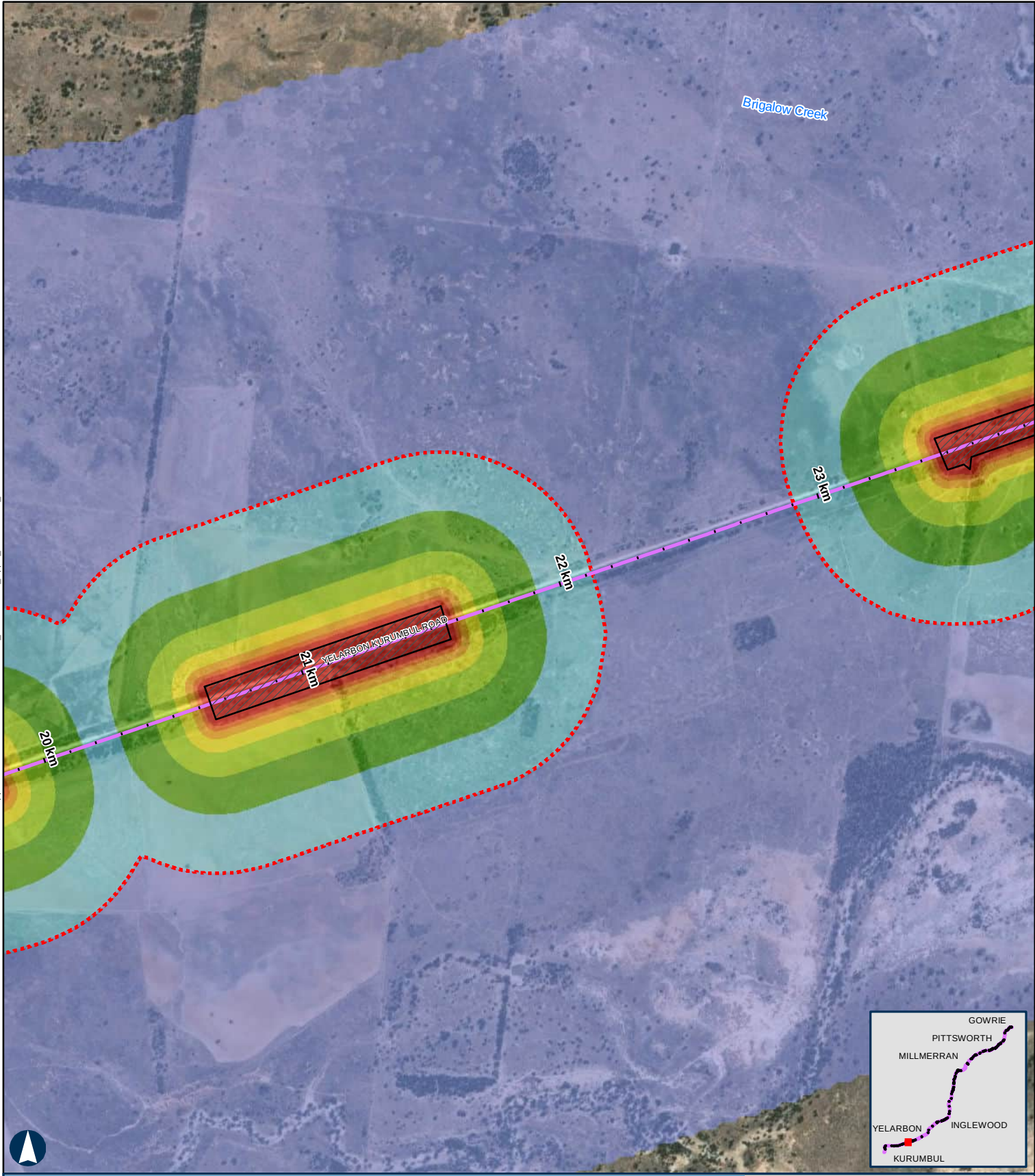
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA



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BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Non-Standard Hours

APPENDIX D - MAP 8 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

Scale: 1:19,000

- ✗ Level Crossings
- Flying Fox Camp
- ⋯ Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

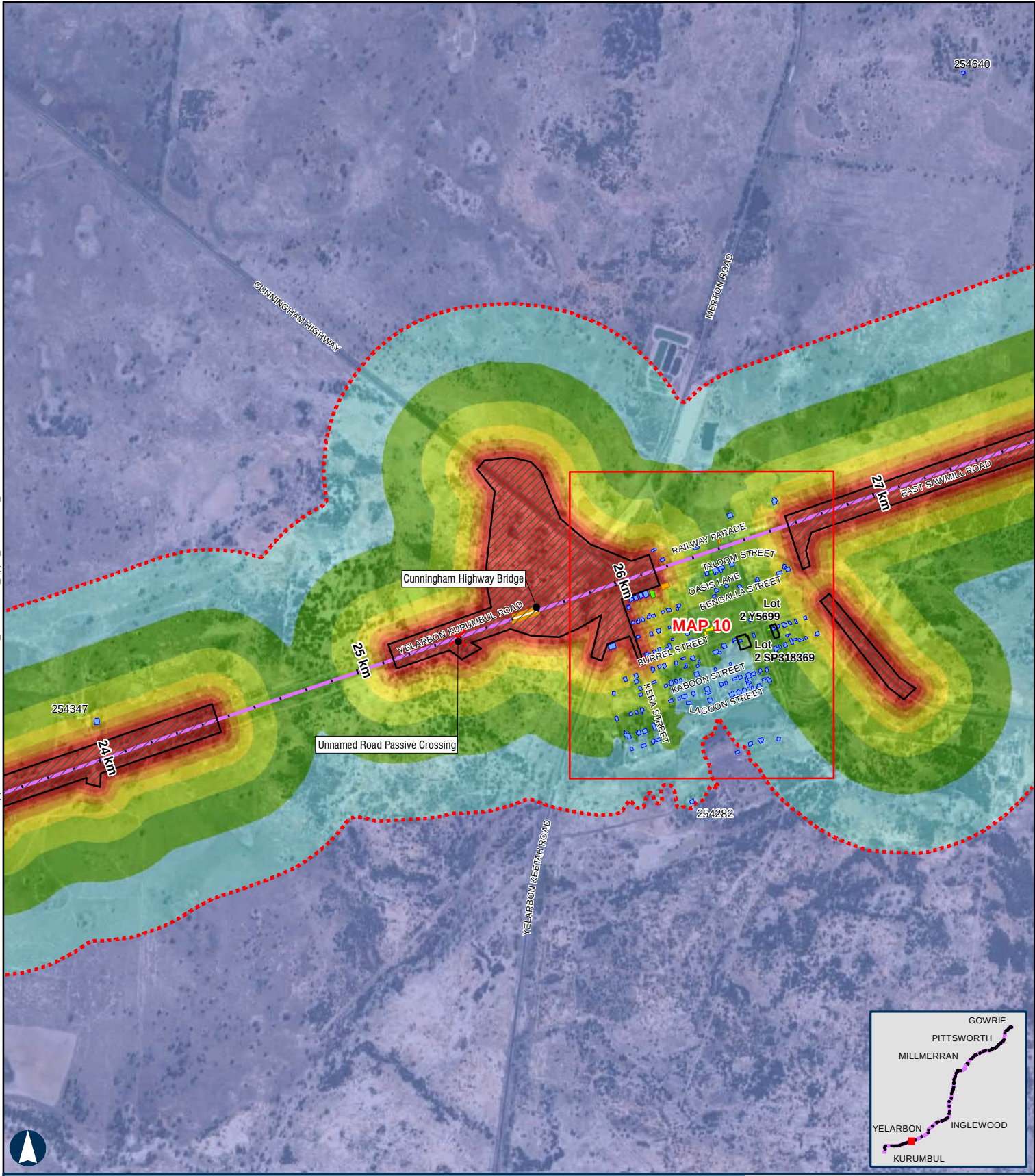
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA



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BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Non-Standard Hours

APPENDIX D - MAP 9 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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- ✗ Level Crossings
- Flying Fox Camp
- ⋯ Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA

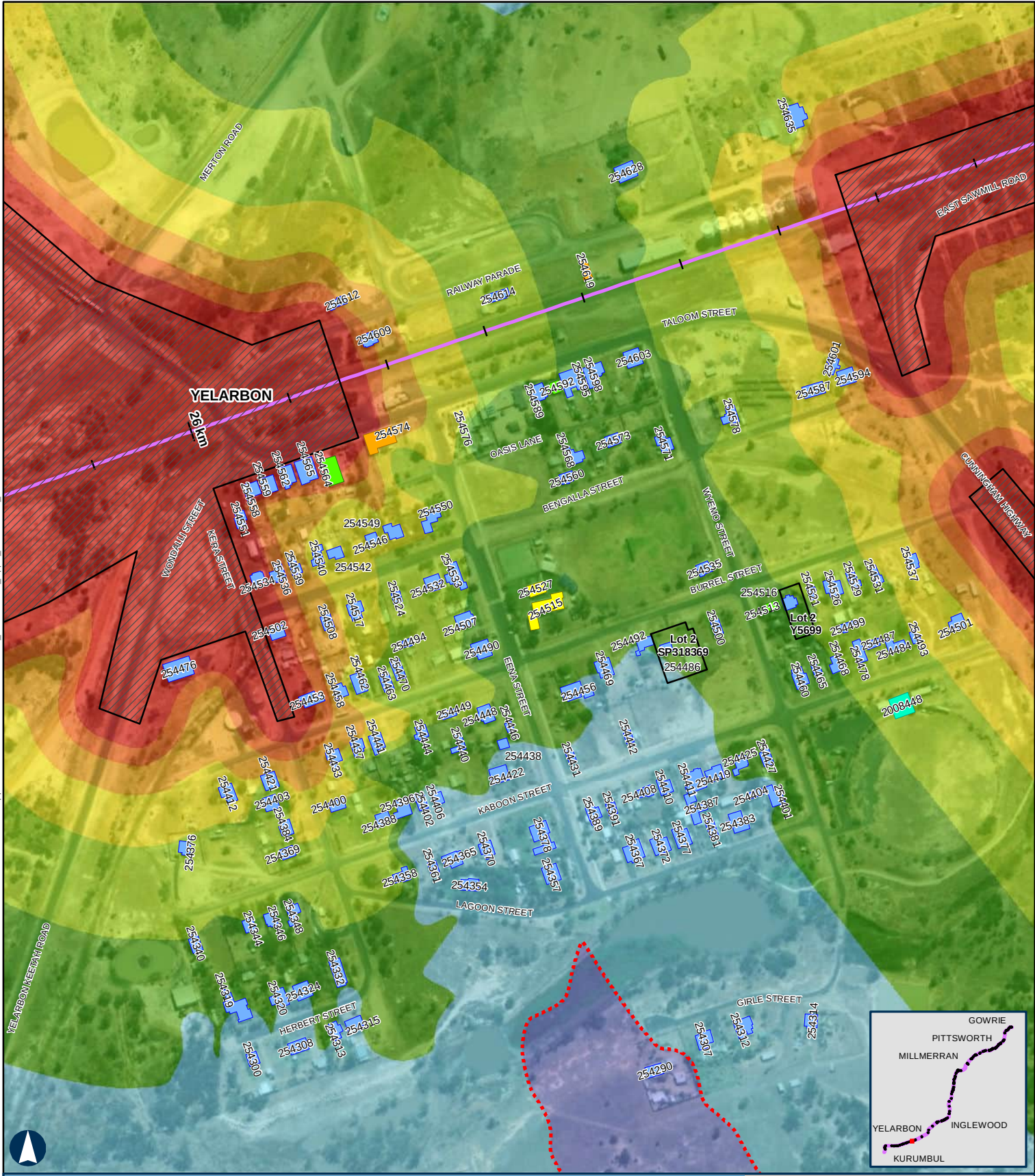
Paper: A4
Date: 13-Nov-2024
Author: JG

Scale: 1:19,000



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BORDER TO GOWRIE

**Scenario 18 - Road Civil - Asphalt
Non-Standard Hours**

APPENDIX D - MAP 10 OF 54

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 13-Nov-2024
Author: JG

Scale: 1:5,000

- ✗ Level Crossings
- Flying Fox Camp
- ⋯ Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

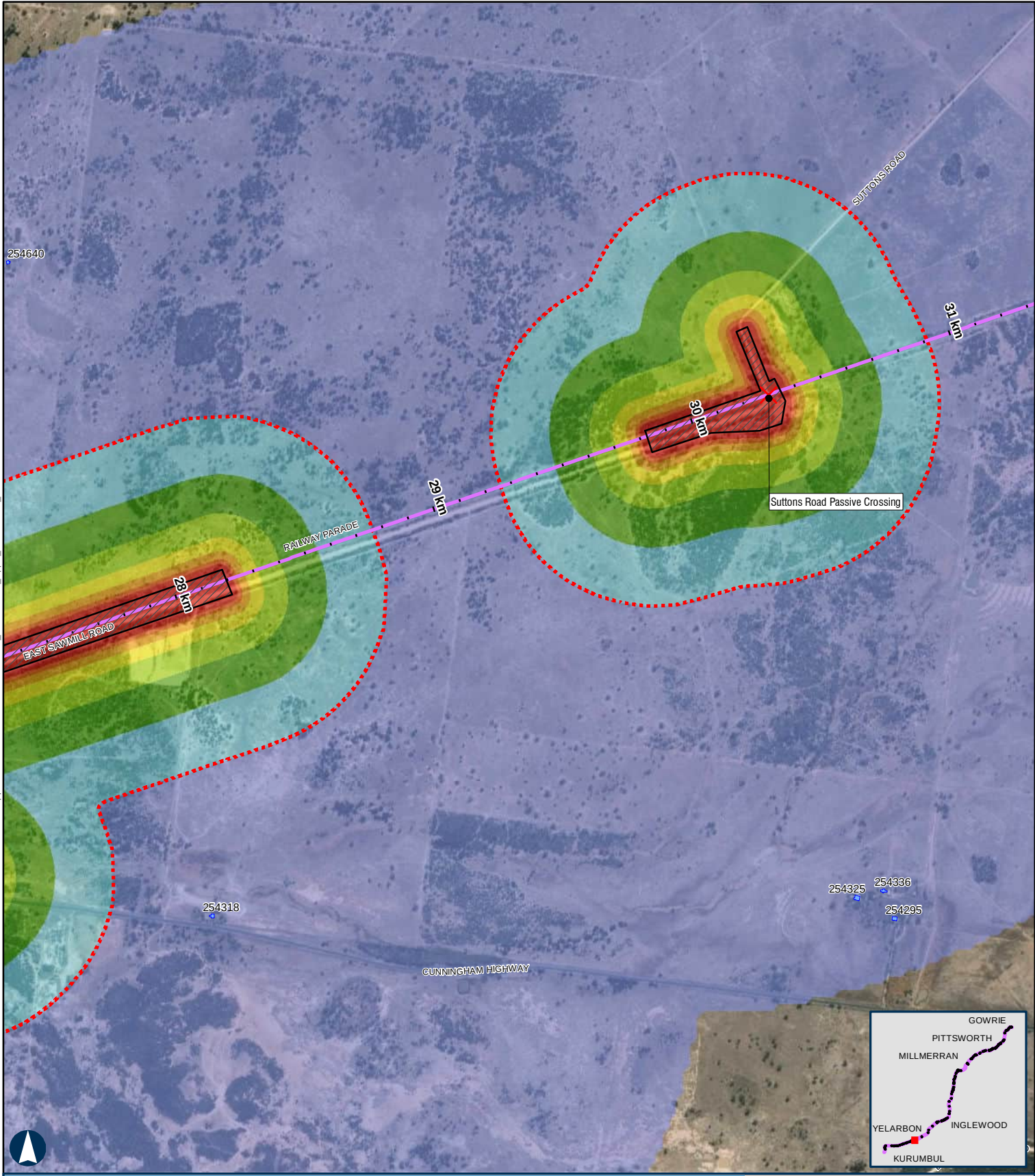
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA



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BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Non-Standard Hours

APPENDIX D - MAP 11 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

- ✗ Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

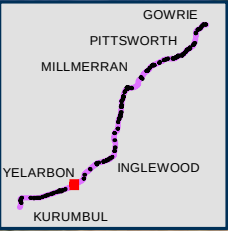
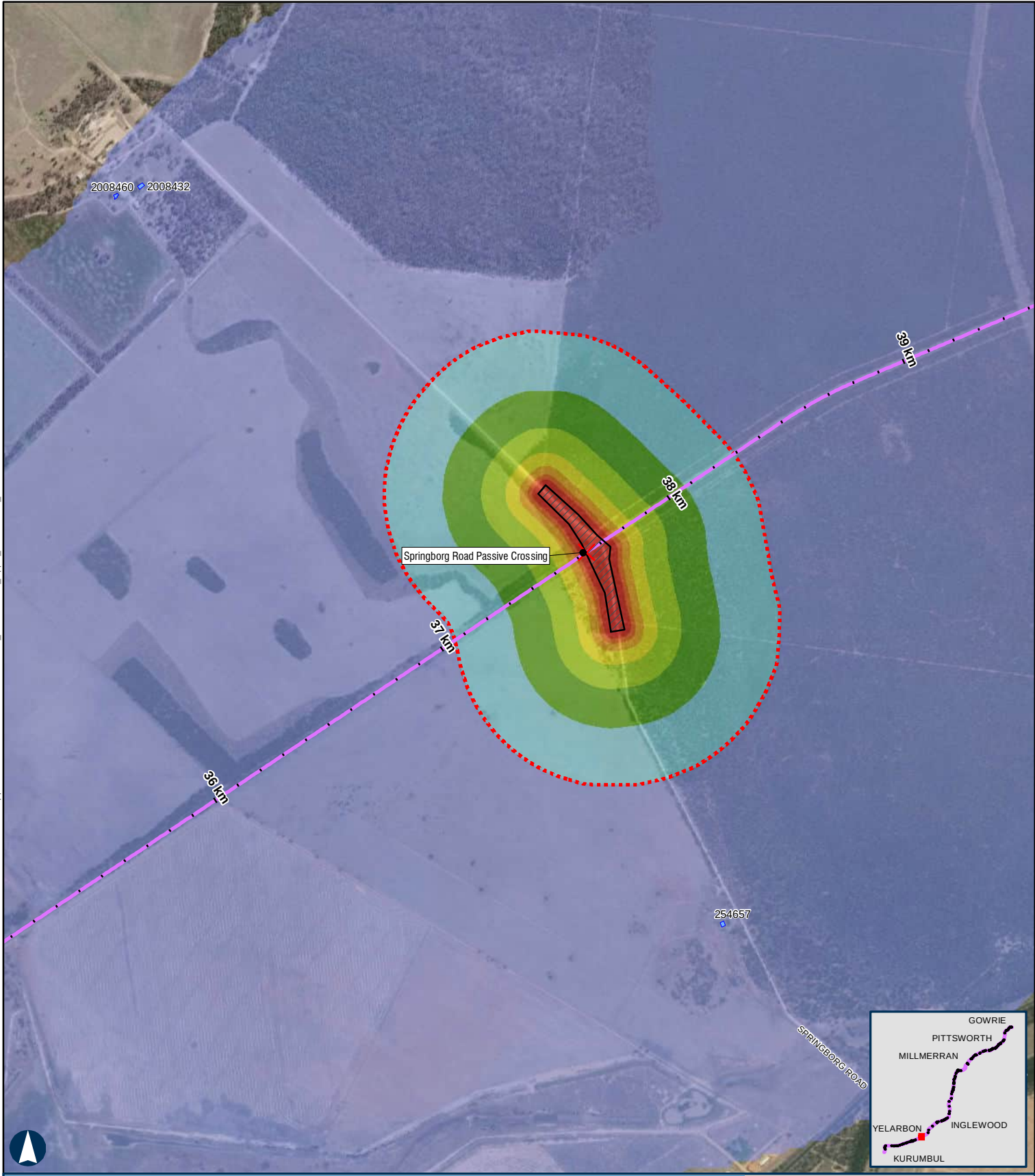
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA



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BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Non-Standard Hours

APPENDIX D - MAP 12 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

- ✕ Level Crossings
- Flying Fox Camp
- ⋯ Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

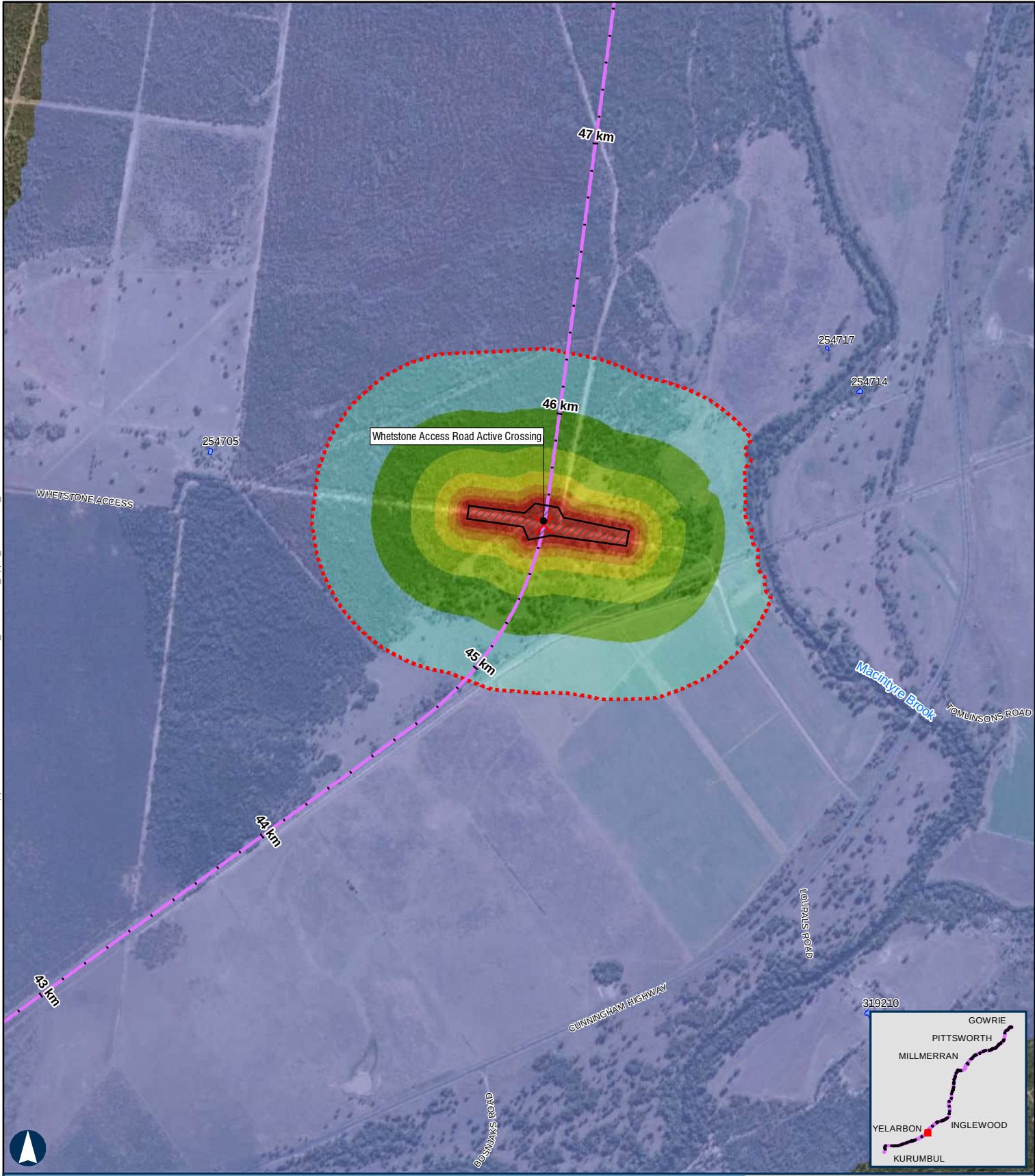
Noise Levels

- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA



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BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Non-Standard Hours

APPENDIX D - MAP 13 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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- ✕ Level Crossings
- Flying Fox Camp
- ⋯ Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

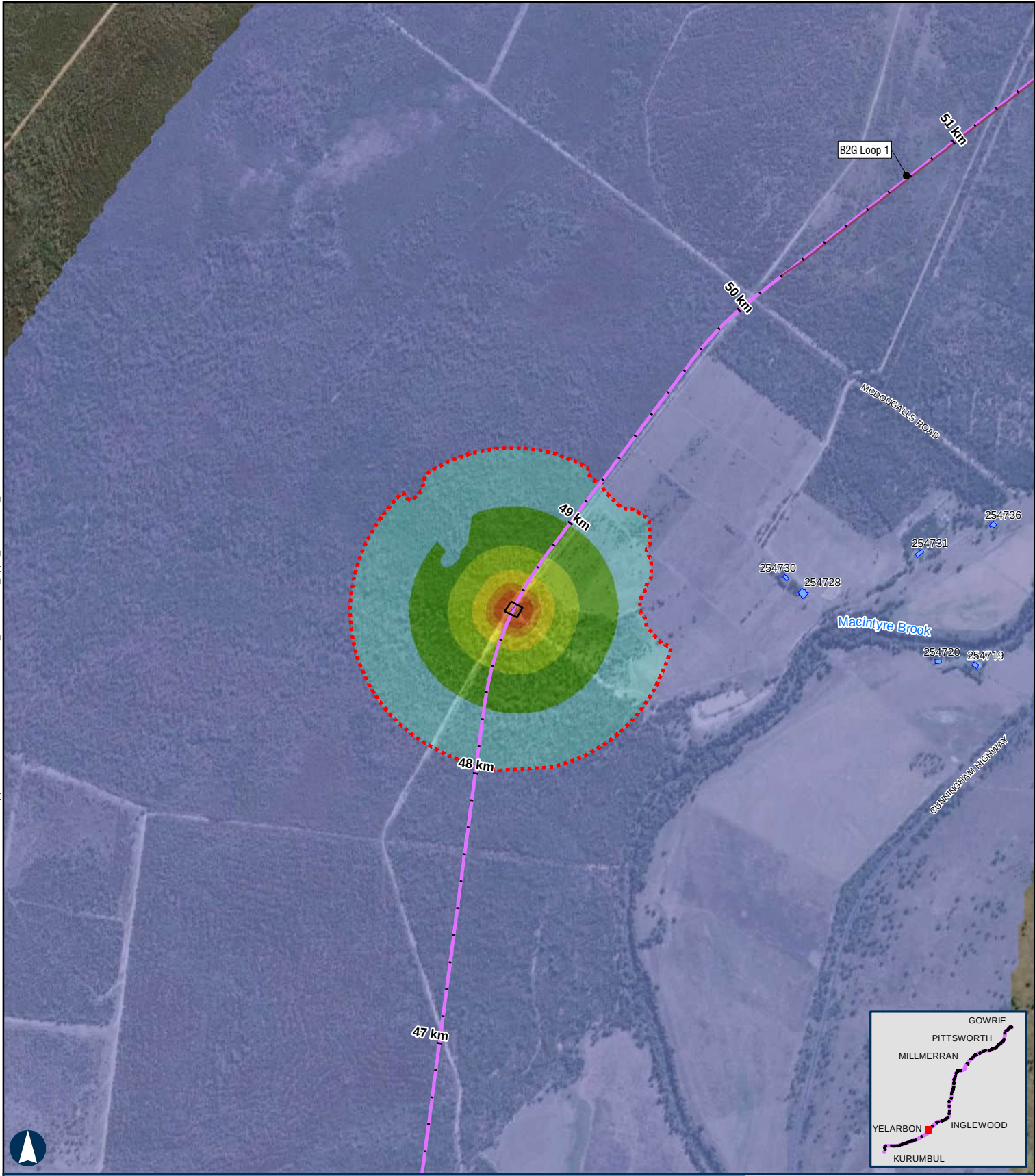
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA



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BORDER TO GOWRIE

**Scenario 18 - Road Civil - Asphalt
Non-Standard Hours**

APPENDIX D - MAP 14 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

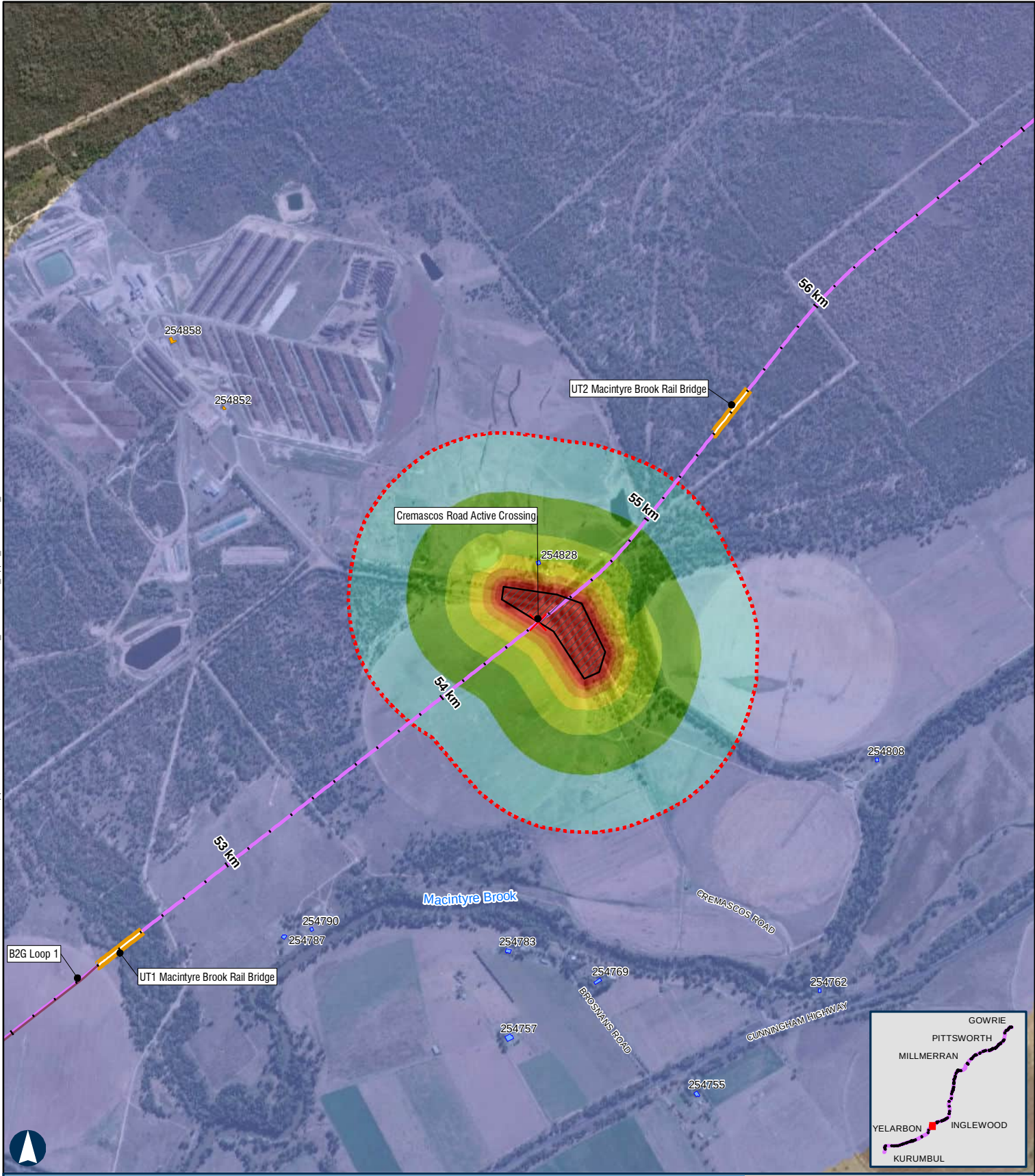
- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA

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BORDER TO GOWRIE

**Scenario 18 - Road Civil - Asphalt
Non-Standard Hours**

APPENDIX D - MAP 15 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

- ✗ Level Crossings
- Flying Fox Camp
- ⋯ Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

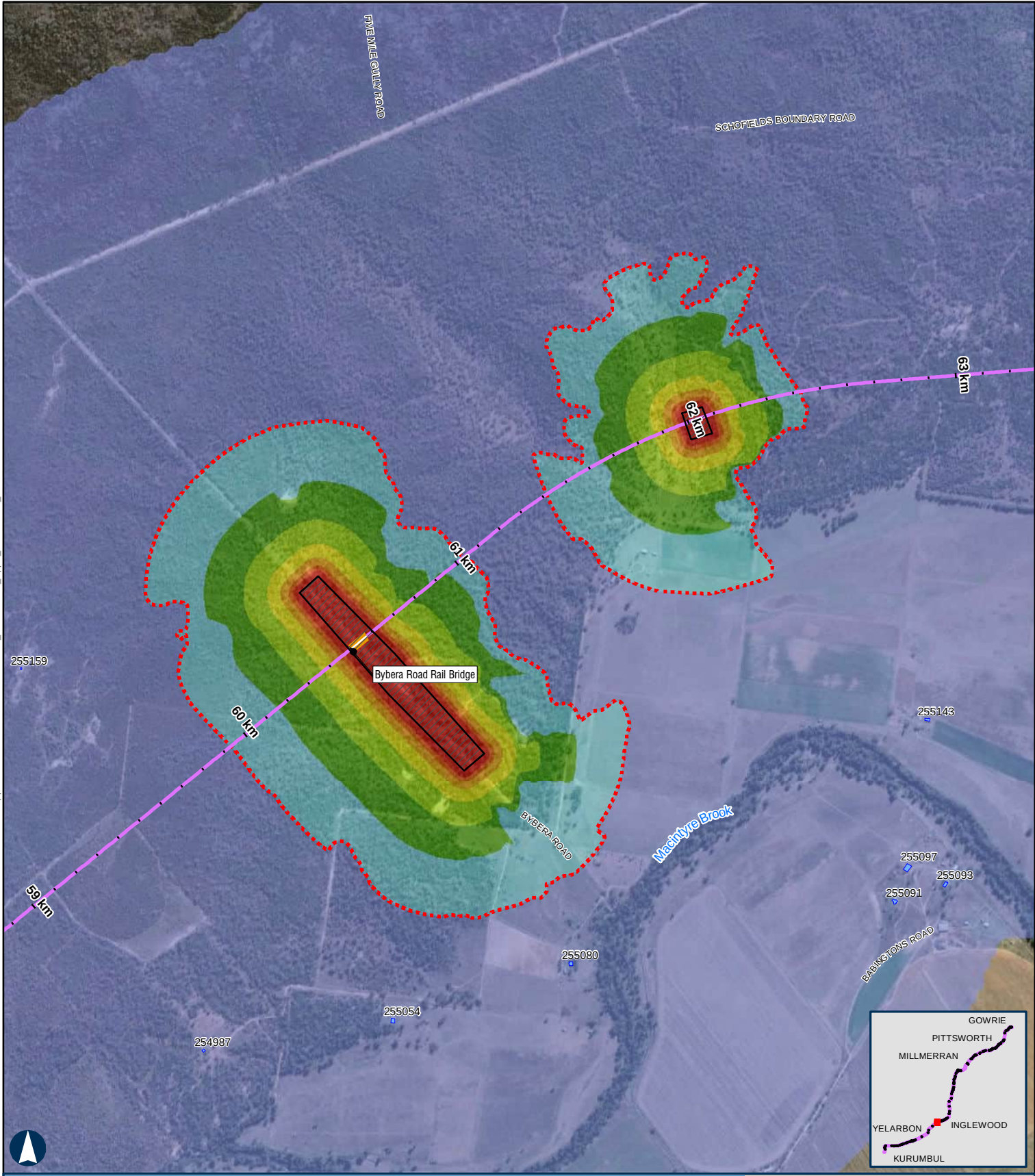
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA



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BORDER TO GOWRIE

**Scenario 18 - Road Civil - Asphalt
Non-Standard Hours**

APPENDIX D - MAP 16 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 13-Nov-2024
Author: JG

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- ✗ Level Crossings
- Flying Fox Camp
- ⋯ Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

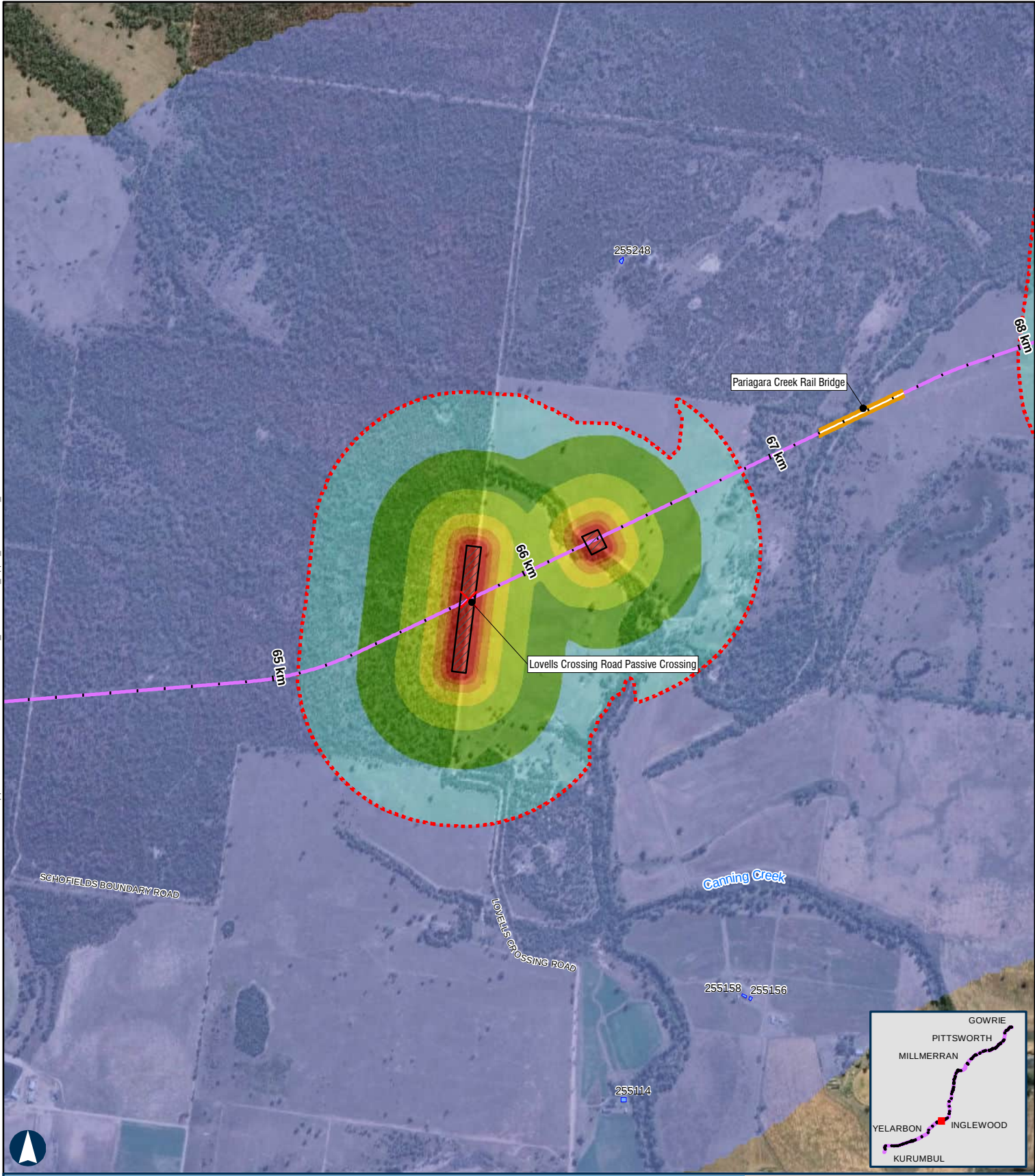
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA

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BORDER TO GOWRIE

**Scenario 18 - Road Civil - Asphalt
Non-Standard Hours**

APPENDIX D - MAP 17 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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- ✗ Level Crossings
- Flying Fox Camp
- ⋯ Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

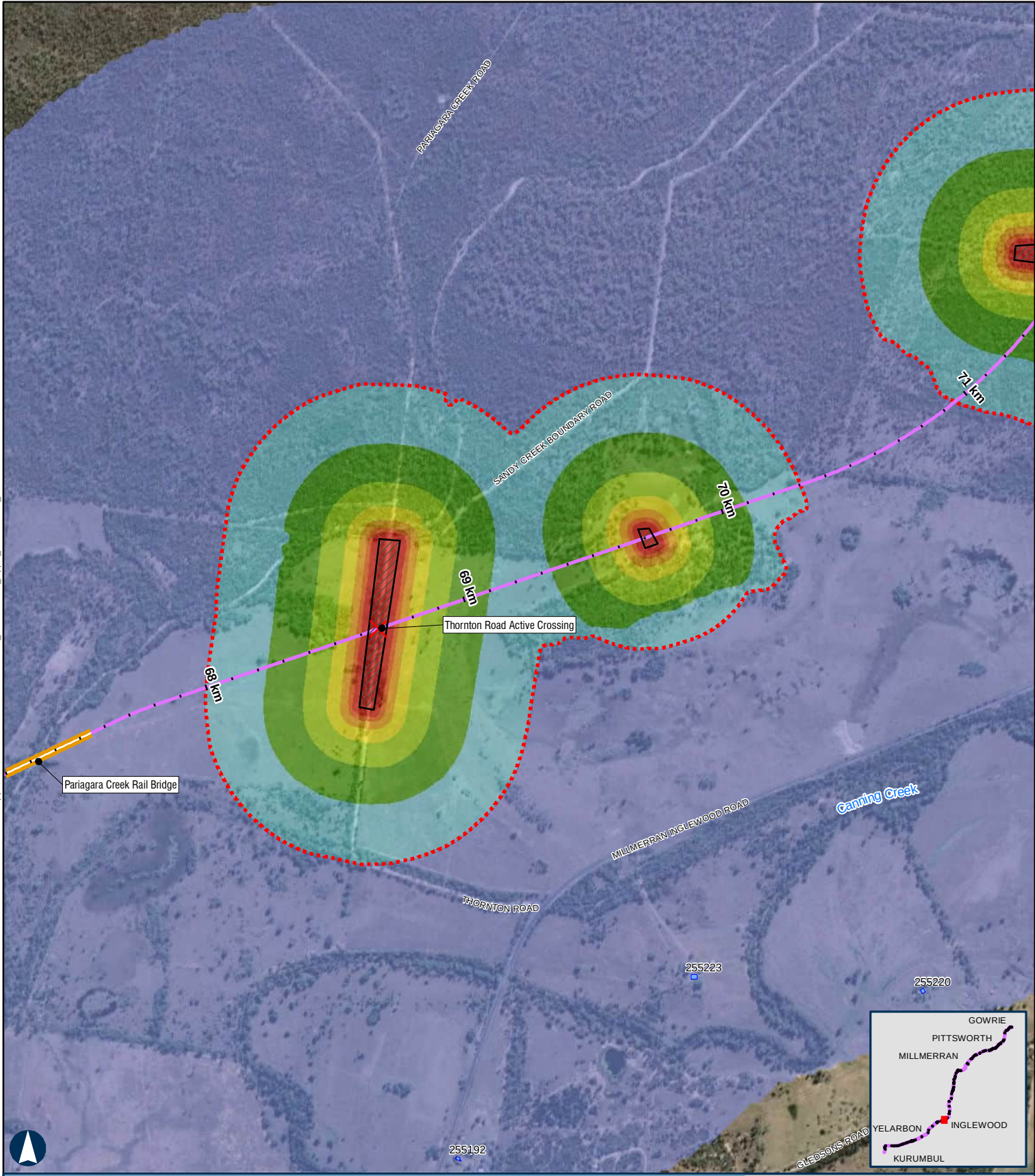
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA



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BORDER TO GOWRIE

**Scenario 18 - Road Civil - Asphalt
Non-Standard Hours**

APPENDIX D - MAP 18 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

Scale: 1:19,000

- ✗ Level Crossings
- Flying Fox Camp
- ⋯ Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

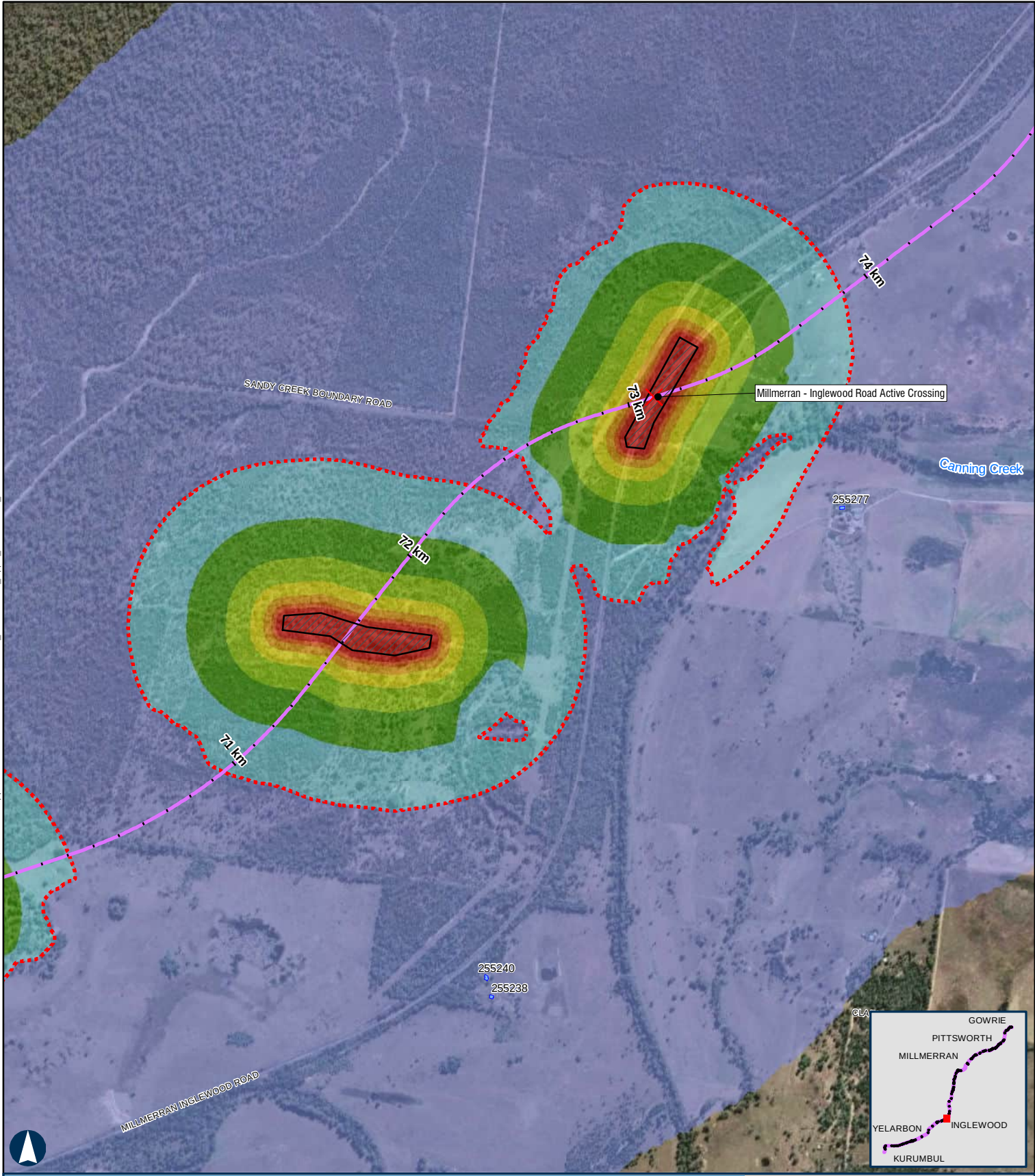
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA



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BORDER TO GOWRIE

**Scenario 18 - Road Civil - Asphalt
Non-Standard Hours**

APPENDIX D - MAP 19 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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- ✗ Level Crossings
- Flying Fox Camp
- ⋯ Criteria (45 dBA)
- ▬ Project Extent
- ▬ Crossing Loops
- ▬ Bridges and Viaducts
- ▬ Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA

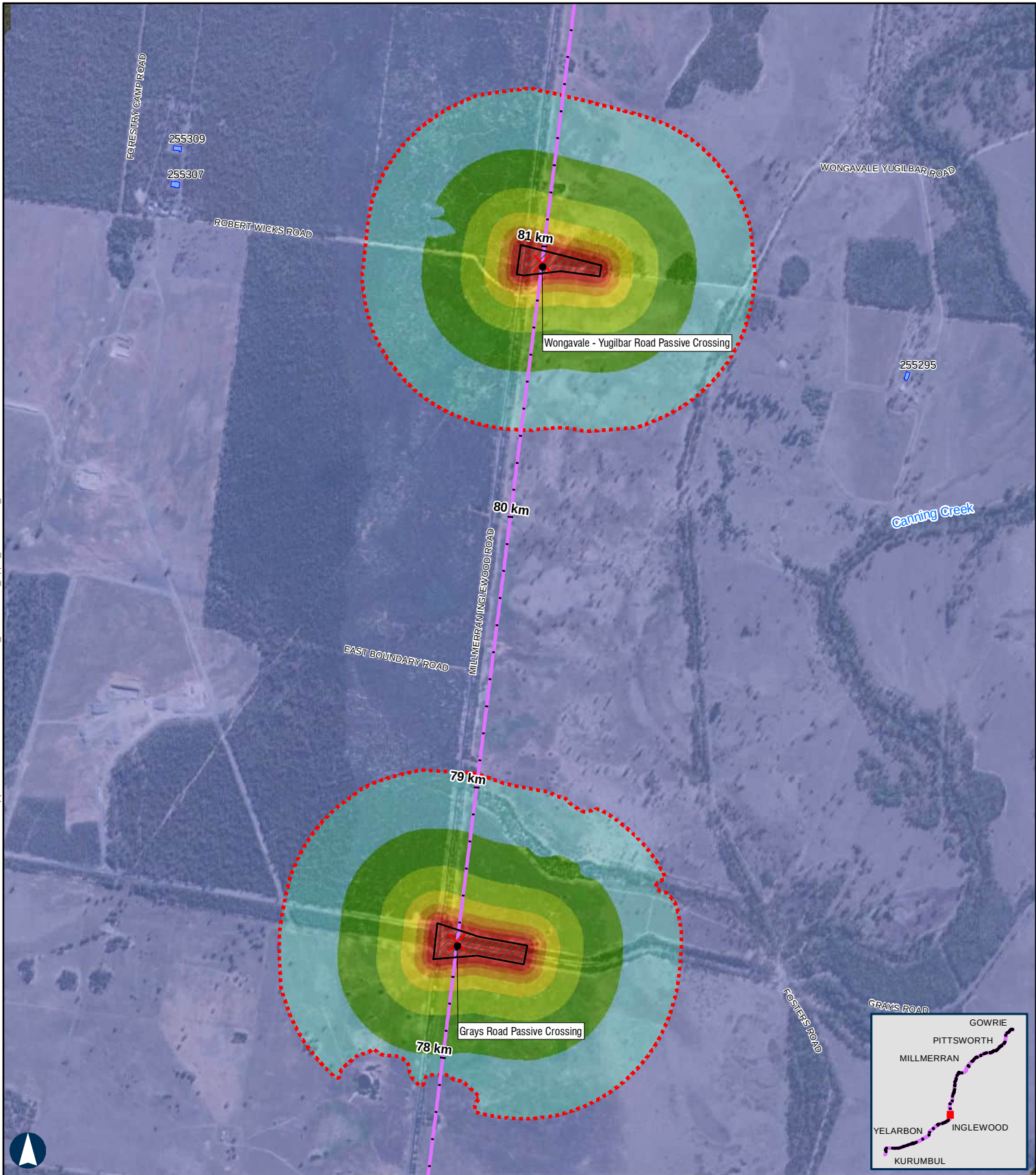
Paper: A4
Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

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BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Non-Standard Hours

APPENDIX D - MAP 20 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

✕ Level Crossings

● Flying Fox Camp

⋯ Criteria (45 dBA)

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/ Centreline

▨ Work Area

▨ Koala Habitat Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Noise Levels

<45 dBA

45-50 dBA

50-55 dBA

55-60 dBA

60-65 dBA

65-70 dBA

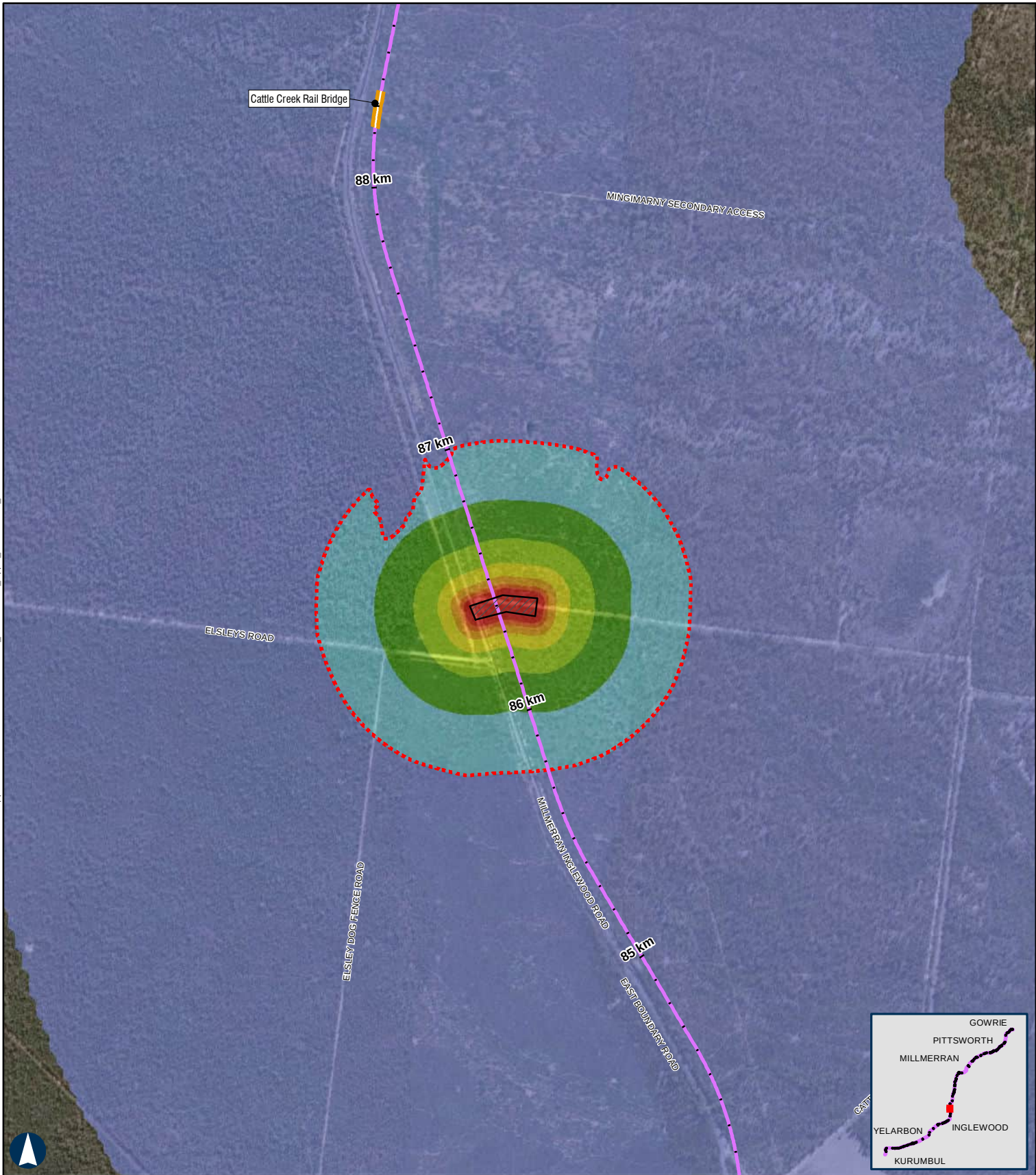
70-75 dBA

>75 dBA

ARTC InlandRail

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BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Non-Standard Hours

APPENDIX D - MAP 21 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

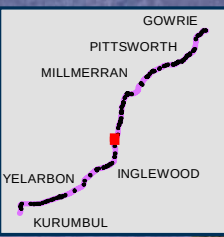
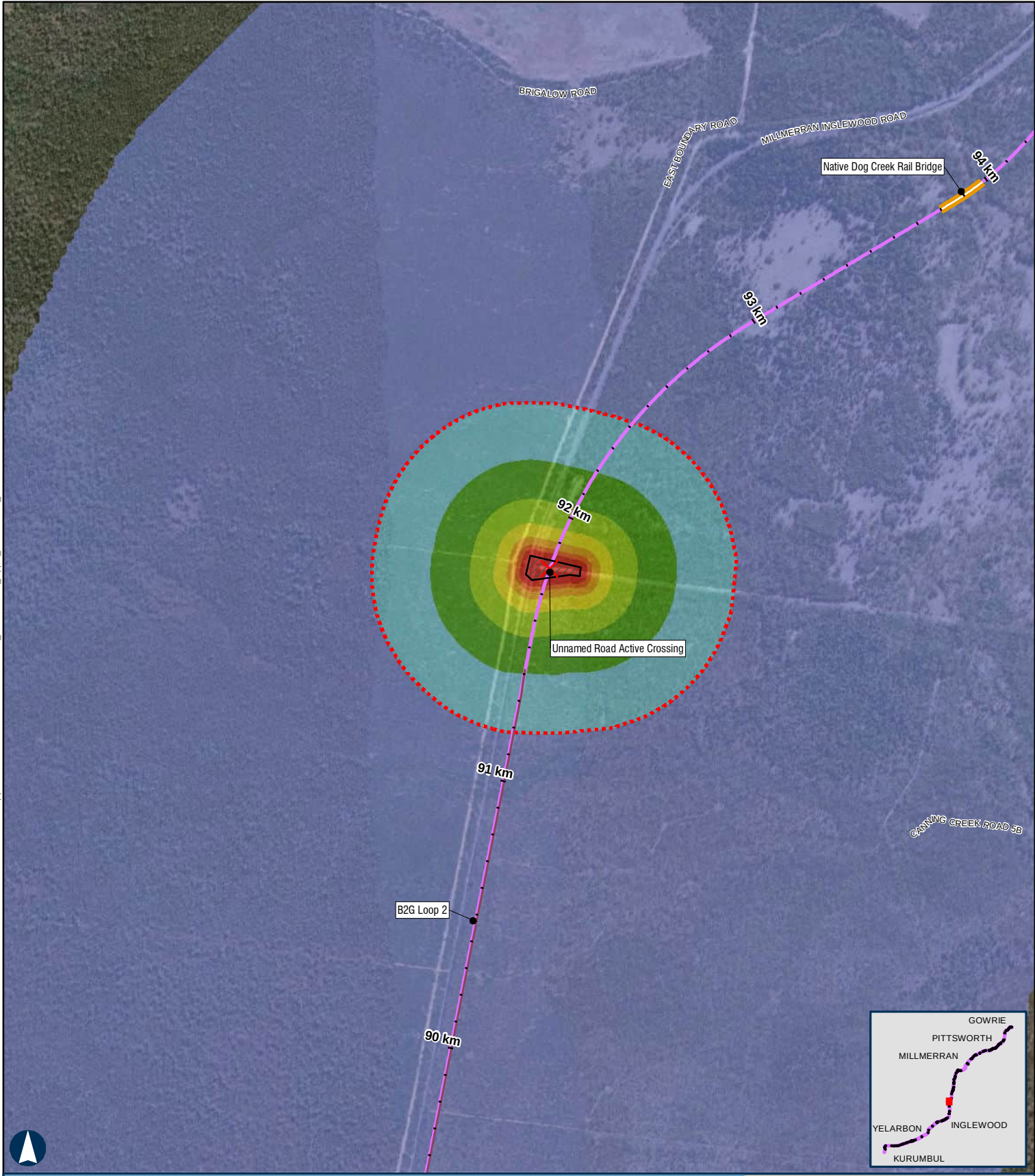
Noise Levels

- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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BORDER TO GOWRIE

**Scenario 18 - Road Civil - Asphalt
Non-Standard Hours**

APPENDIX D - MAP 22 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

- ✗ Level Crossings
- Flying Fox Camp
- ⋯ Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

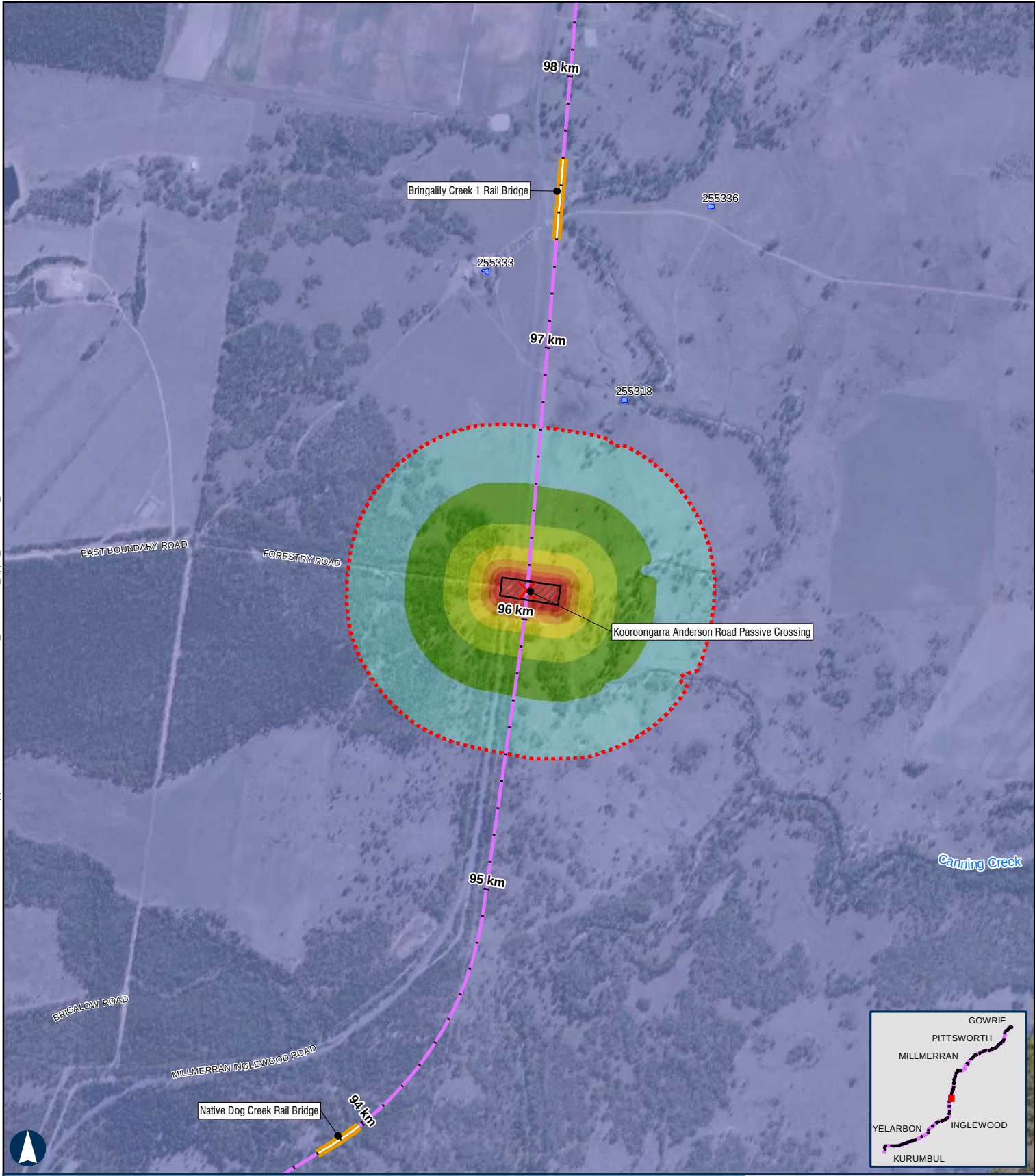
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA



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BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Non-Standard Hours

APPENDIX D - MAP 23 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

- ✗ Level Crossings
- Flying Fox Camp
- ⋯ Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

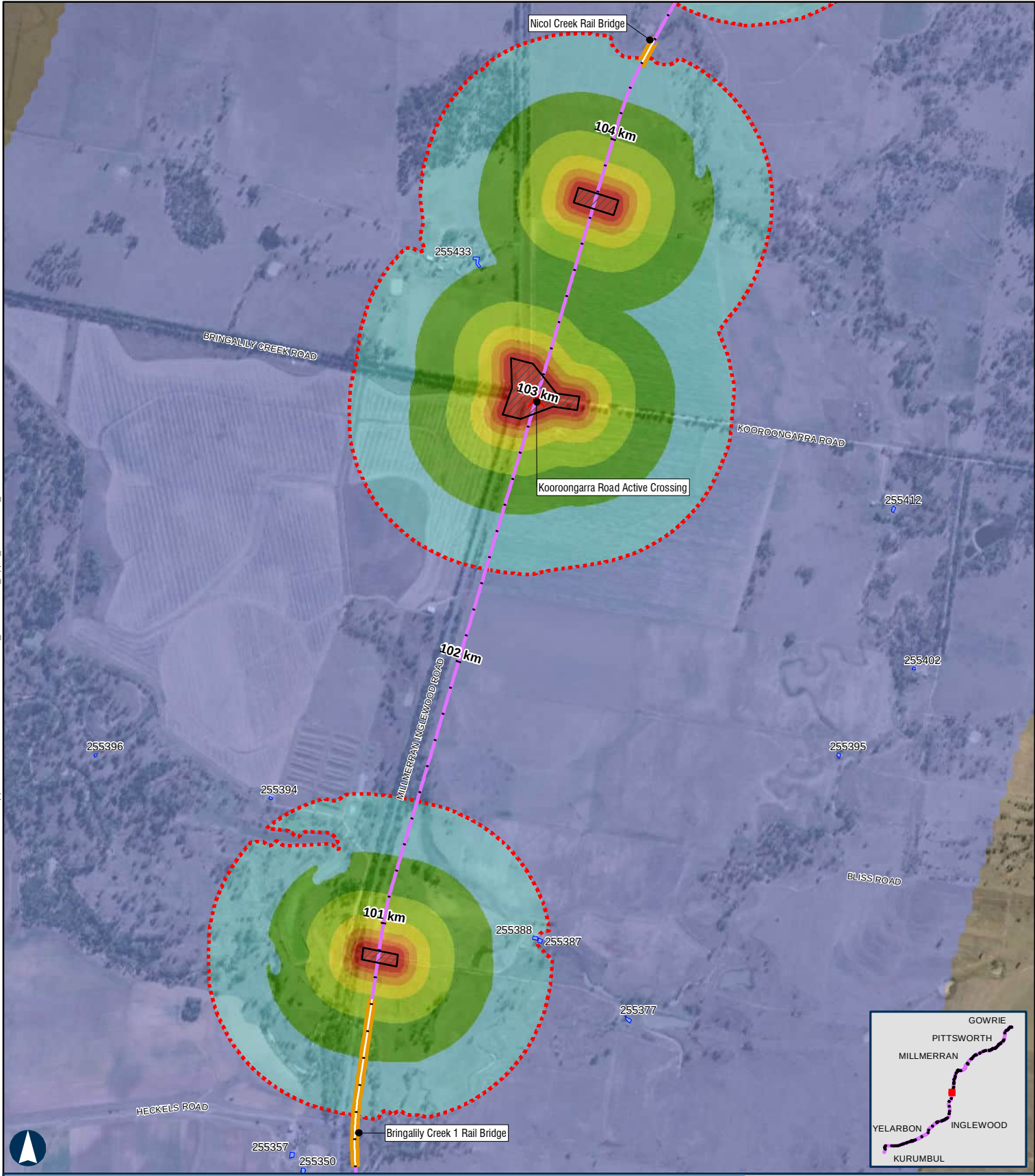
Noise Levels

- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA



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BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Non-Standard Hours

APPENDIX D - MAP 24 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

- ✗ Level Crossings
- Flying Fox Camp
- ⋯ Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

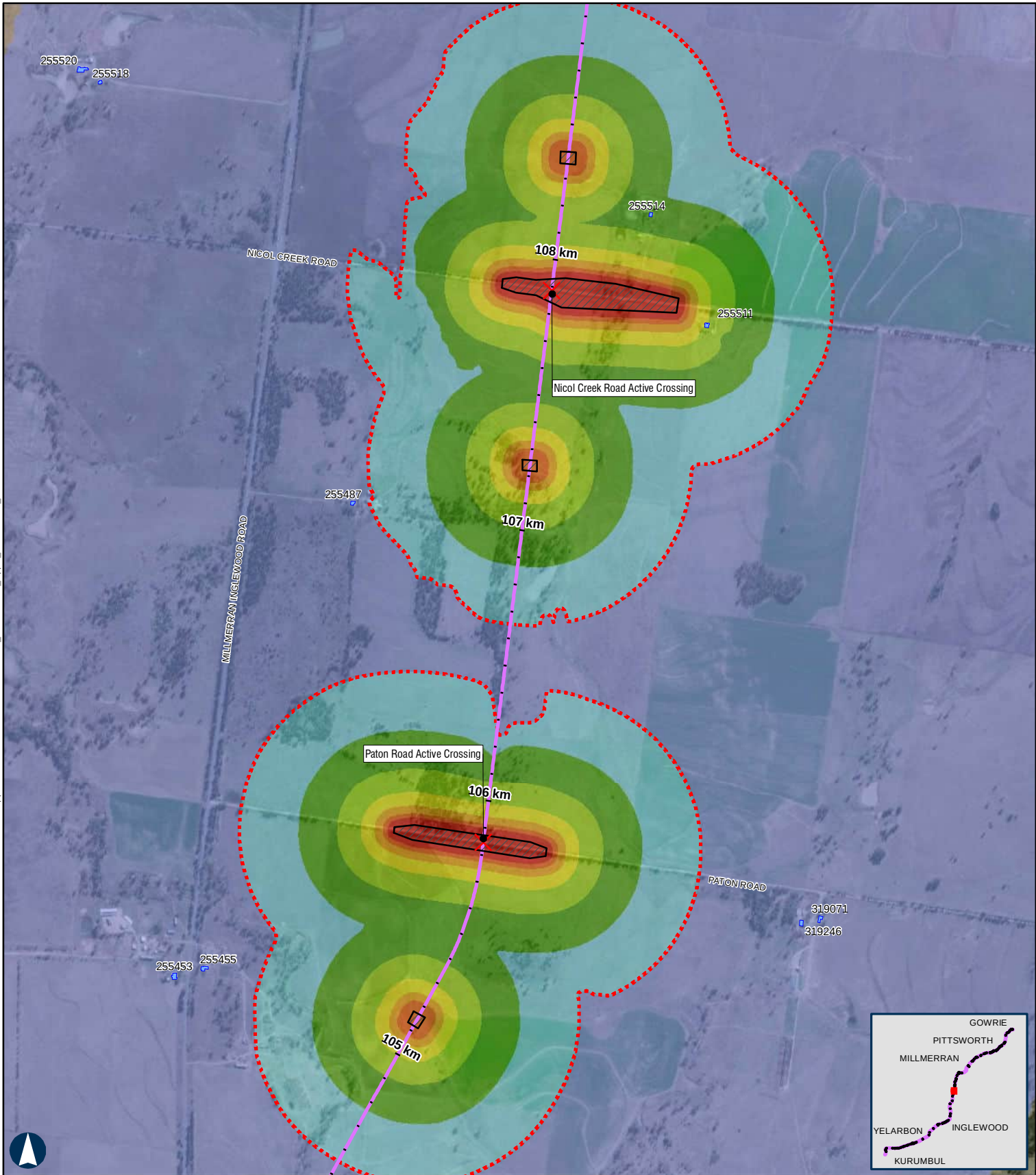
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA



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BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Non-Standard Hours

APPENDIX D - MAP 25 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

✕ Level Crossings

● Flying Fox Camp

⋯ Criteria (45 dBA)

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/ Centreline

▨ Work Area

▨ Koala Habitat Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Noise Levels

<45 dBA

45-50 dBA

50-55 dBA

55-60 dBA

60-65 dBA

65-70 dBA

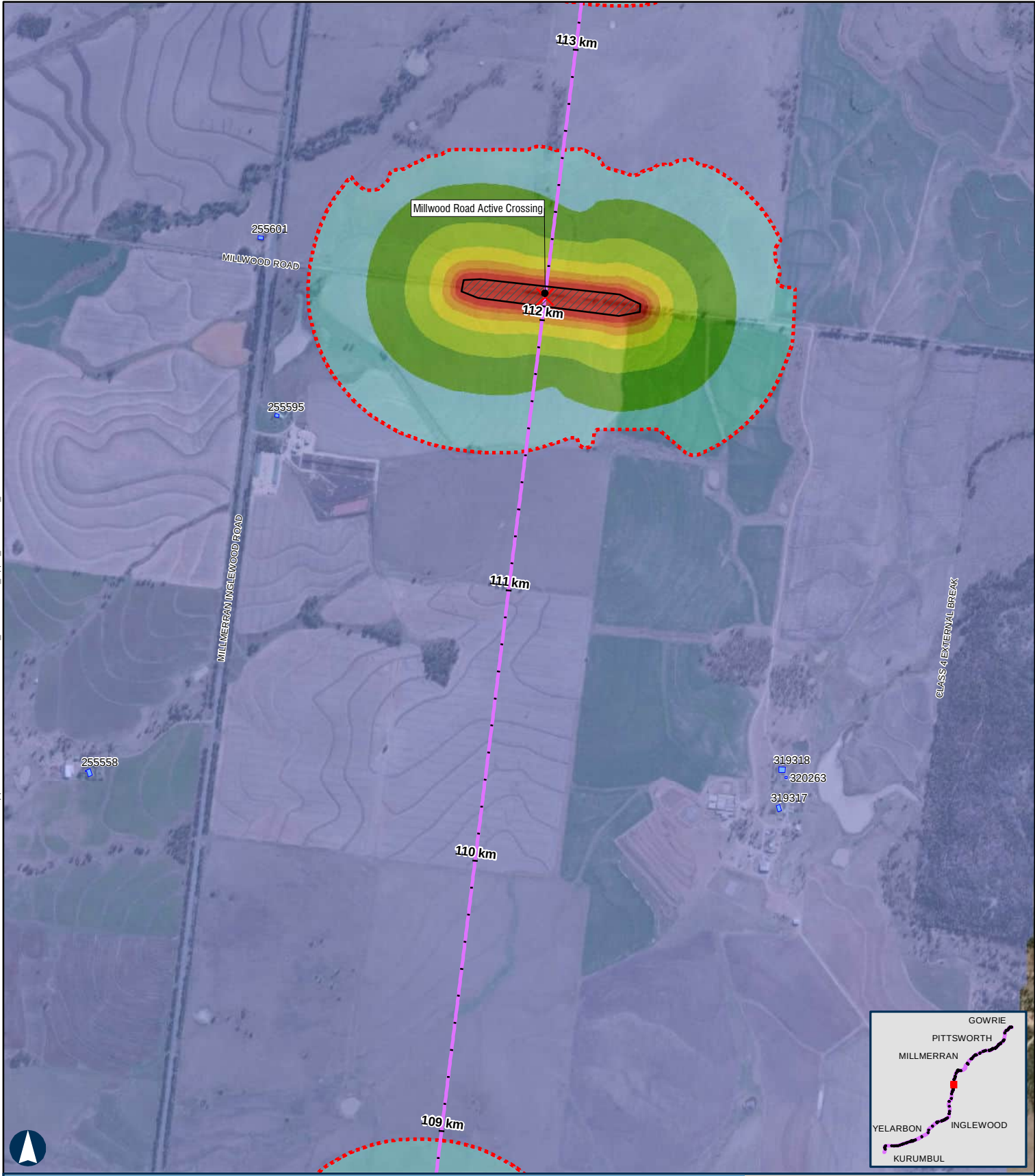
70-75 dBA

>75 dBA



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BORDER TO GOWRIE

**Scenario 18 - Road Civil - Asphalt
Non-Standard Hours**

APPENDIX D - MAP 26 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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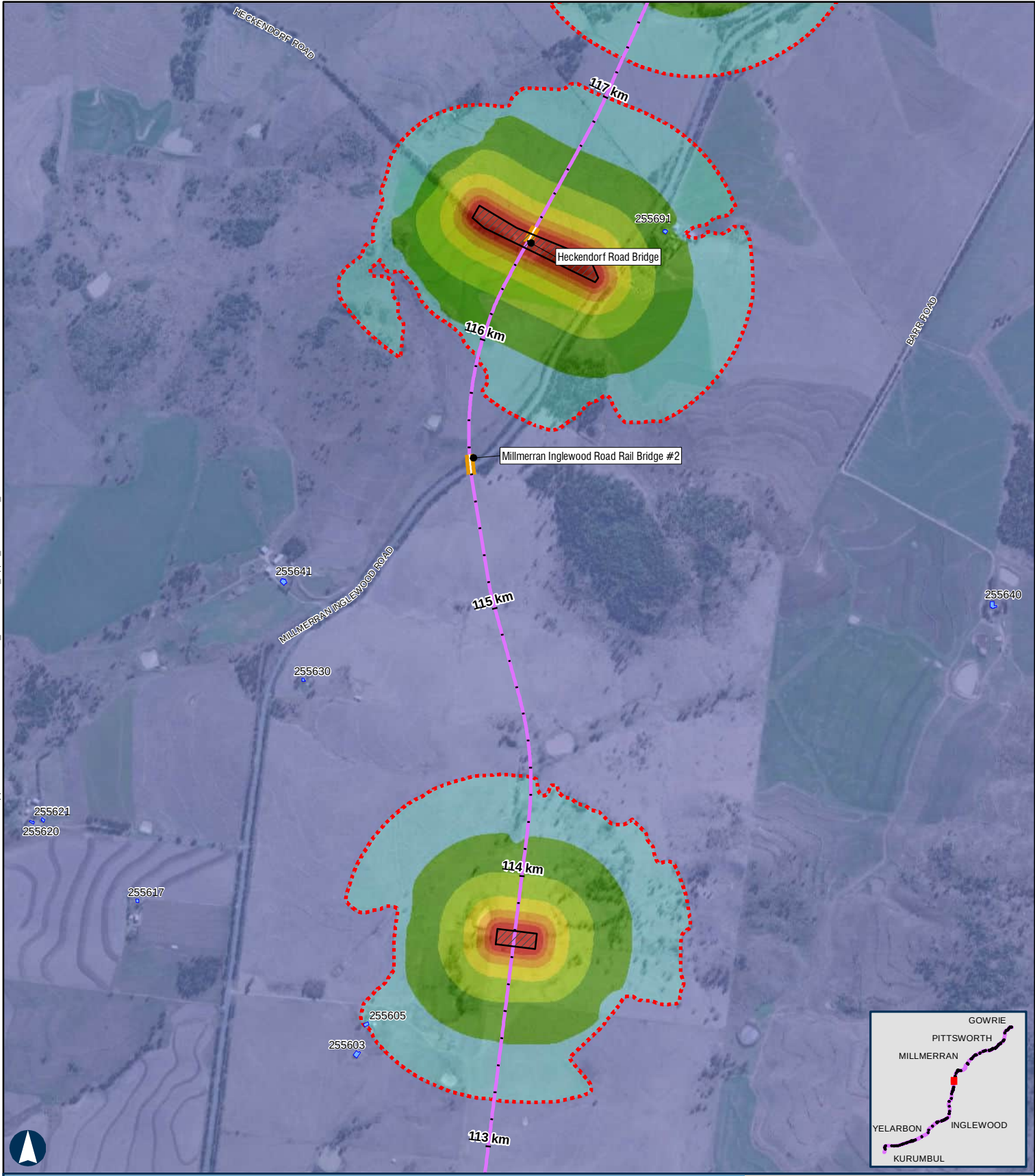
- | | | |
|----------------------------|---------------------|---------------------|
| Level Crossings | Residential | Noise Levels |
| Flying Fox Camp | Community | <45 dBA |
| Criteria (45 dBA) | Educational | 45-50 dBA |
| Project Extent | Commercial | 50-55 dBA |
| Crossing Loops | Parkland | 55-60 dBA |
| Bridges and Viaducts | Future Developments | 60-65 dBA |
| Rail Alignment/ Centreline | | 65-70 dBA |
| Work Area | | 70-75 dBA |
| Koala Habitat Area | | >75 dBA |

Paper: A4
Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

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BORDER TO GOWRIE

**Scenario 18 - Road Civil - Asphalt
Non-Standard Hours**

APPENDIX D - MAP 27 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

- ✗ Level Crossings
- Flying Fox Camp
- ⋯ Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

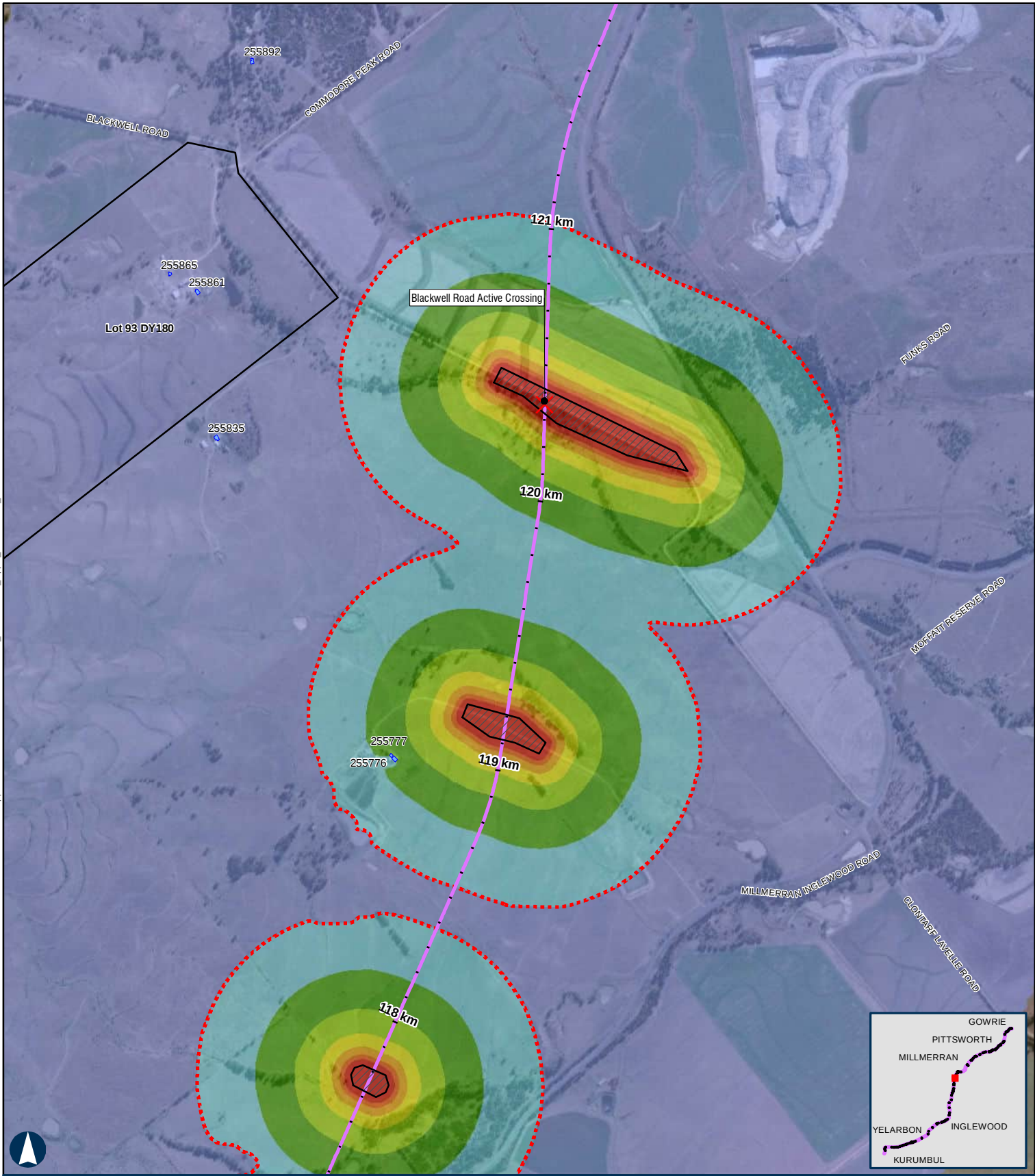
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA



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BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Non-Standard Hours

APPENDIX D - MAP 28 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

✕ Level Crossings

● Flying Fox Camp

⋯ Criteria (45 dBA)

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/ Centreline

▨ Work Area

▨ Koala Habitat Area

Sensitive Receptor Type

■ Residential

■ Community

■ Educational

■ Commercial

■ Parkland

□ Future Developments

Noise Levels

■ <45 dBA

■ 45-50 dBA

■ 50-55 dBA

■ 55-60 dBA

■ 60-65 dBA

■ 65-70 dBA

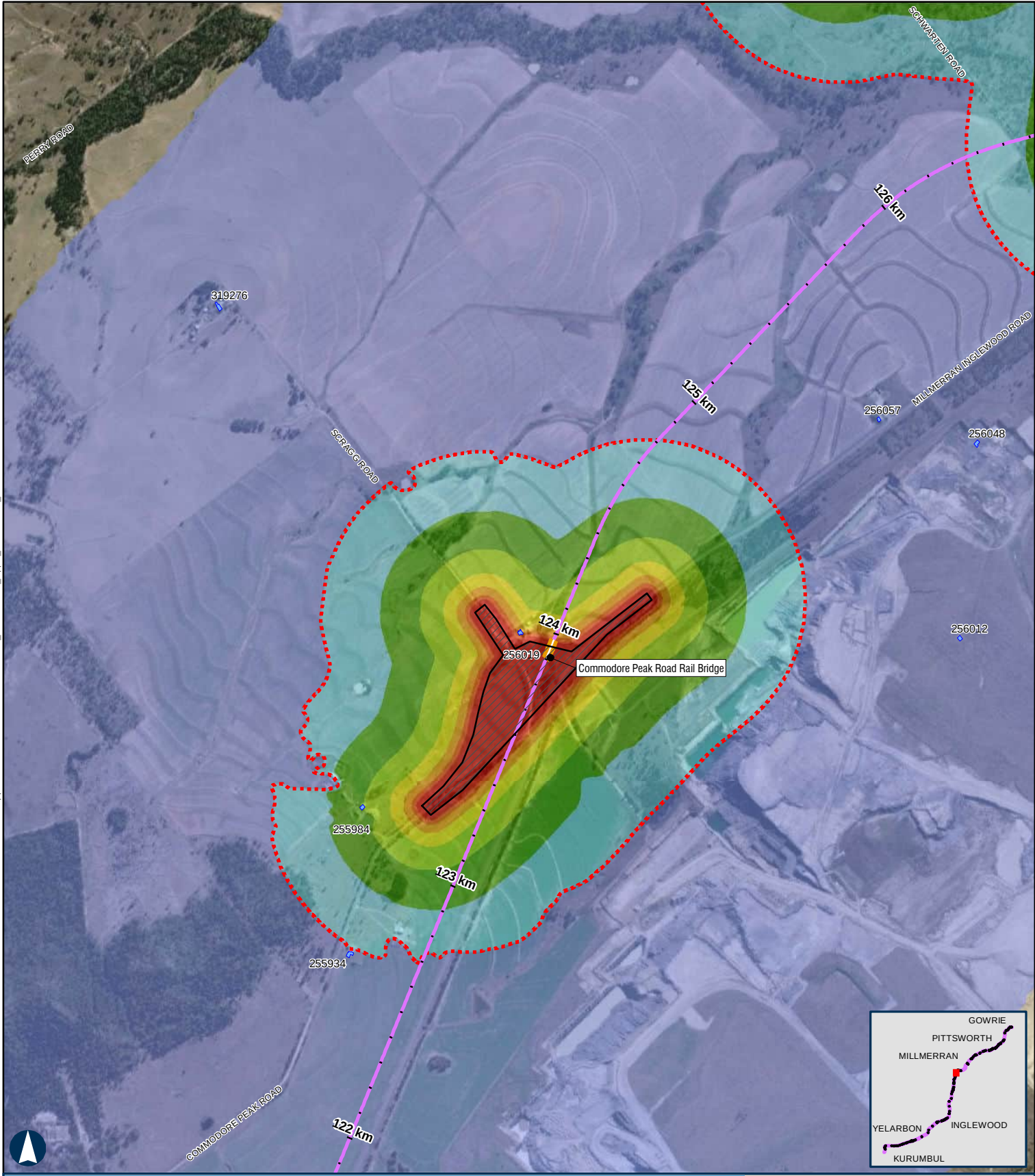
■ 70-75 dBA

■ >75 dBA

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BORDER TO GOWRIE

**Scenario 18 - Road Civil - Asphalt
Non-Standard Hours**

APPENDIX D - MAP 29 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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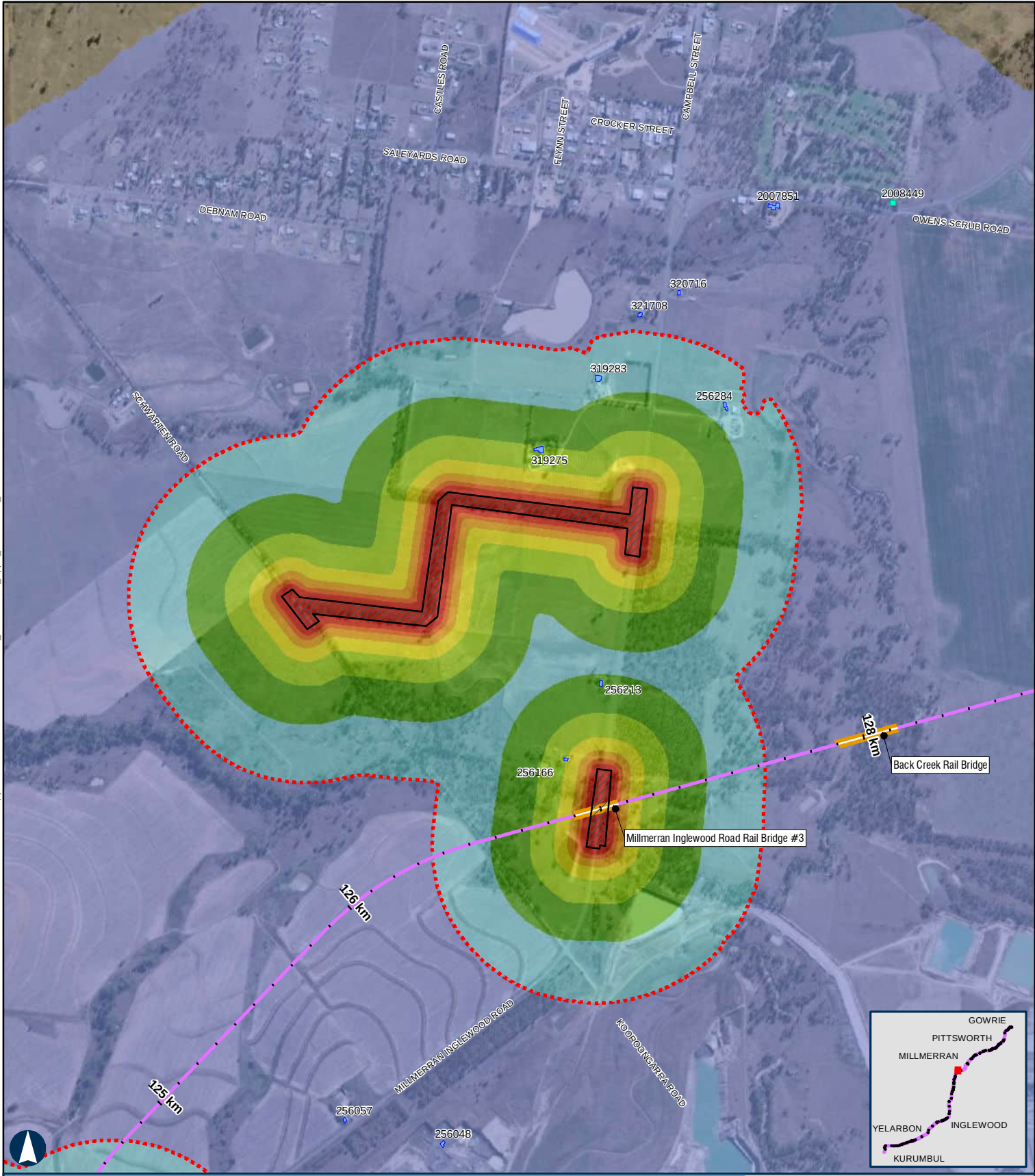
Paper: A4
Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

Level Crossings	Residential	<45 dBA
Flying Fox Camp	Community	45-50 dBA
Criteria (45 dBA)	Educational	50-55 dBA
Project Extent	Commercial	55-60 dBA
Crossing Loops	Parkland	60-65 dBA
Bridges and Viaducts	Future Developments	65-70 dBA
Rail Alignment/ Centreline		70-75 dBA
Work Area		>75 dBA
Koala Habitat Area		

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BORDER TO GOWRIE

**Scenario 18 - Road Civil - Asphalt
Non-Standard Hours**

APPENDIX D - MAP 30 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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- ✕ Level Crossings
- Flying Fox Camp
- ⋯ Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA

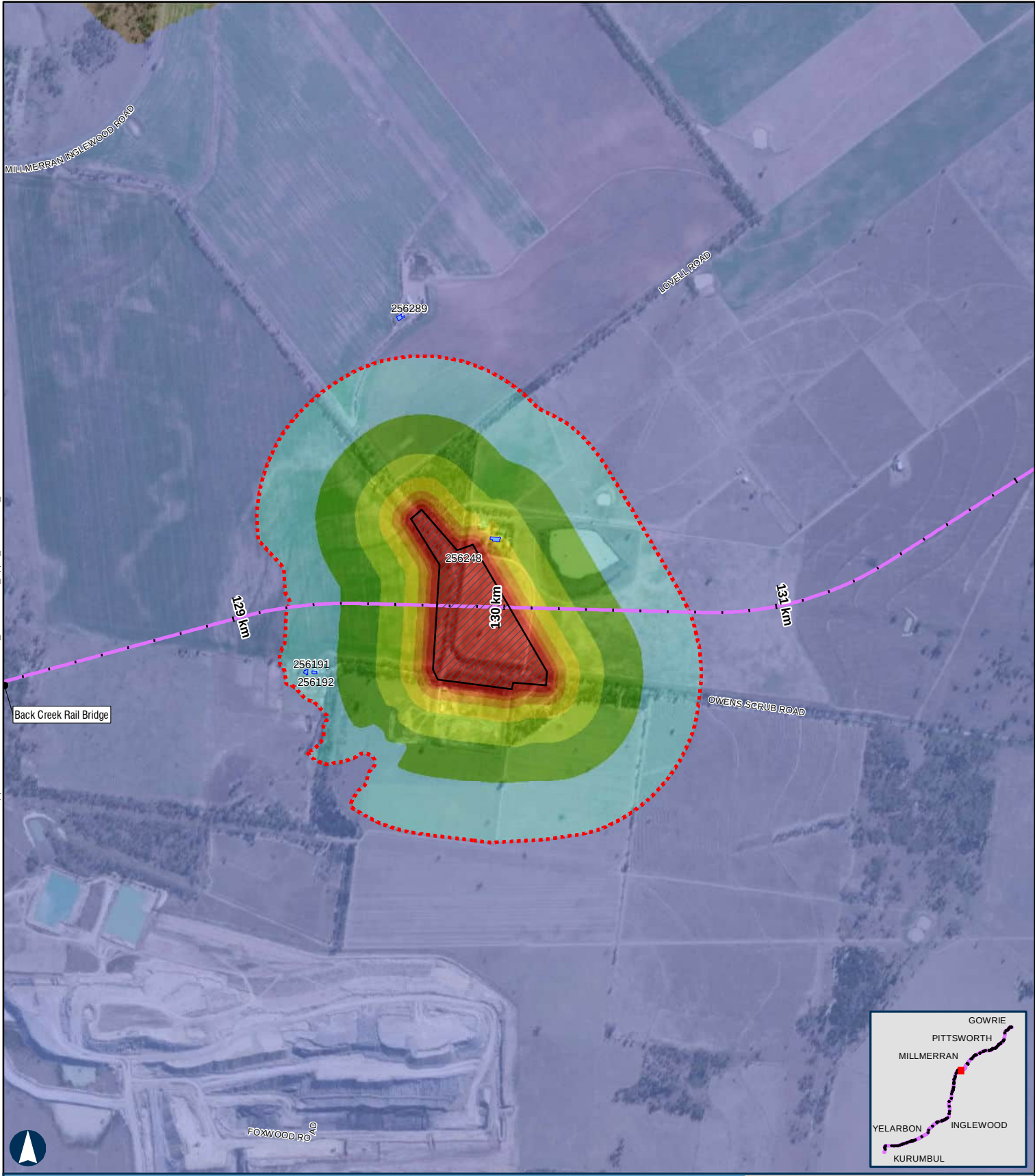
Paper: A4
Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

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BORDER TO GOWRIE

**Scenario 18 - Road Civil - Asphalt
Non-Standard Hours**

APPENDIX D - MAP 31 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 13-Nov-2024
Author: JG

✕ Level Crossings

● Flying Fox Camp

⋯ Criteria (45 dBA)

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/ Centreline

▨ Work Area

▨ Koala Habitat Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

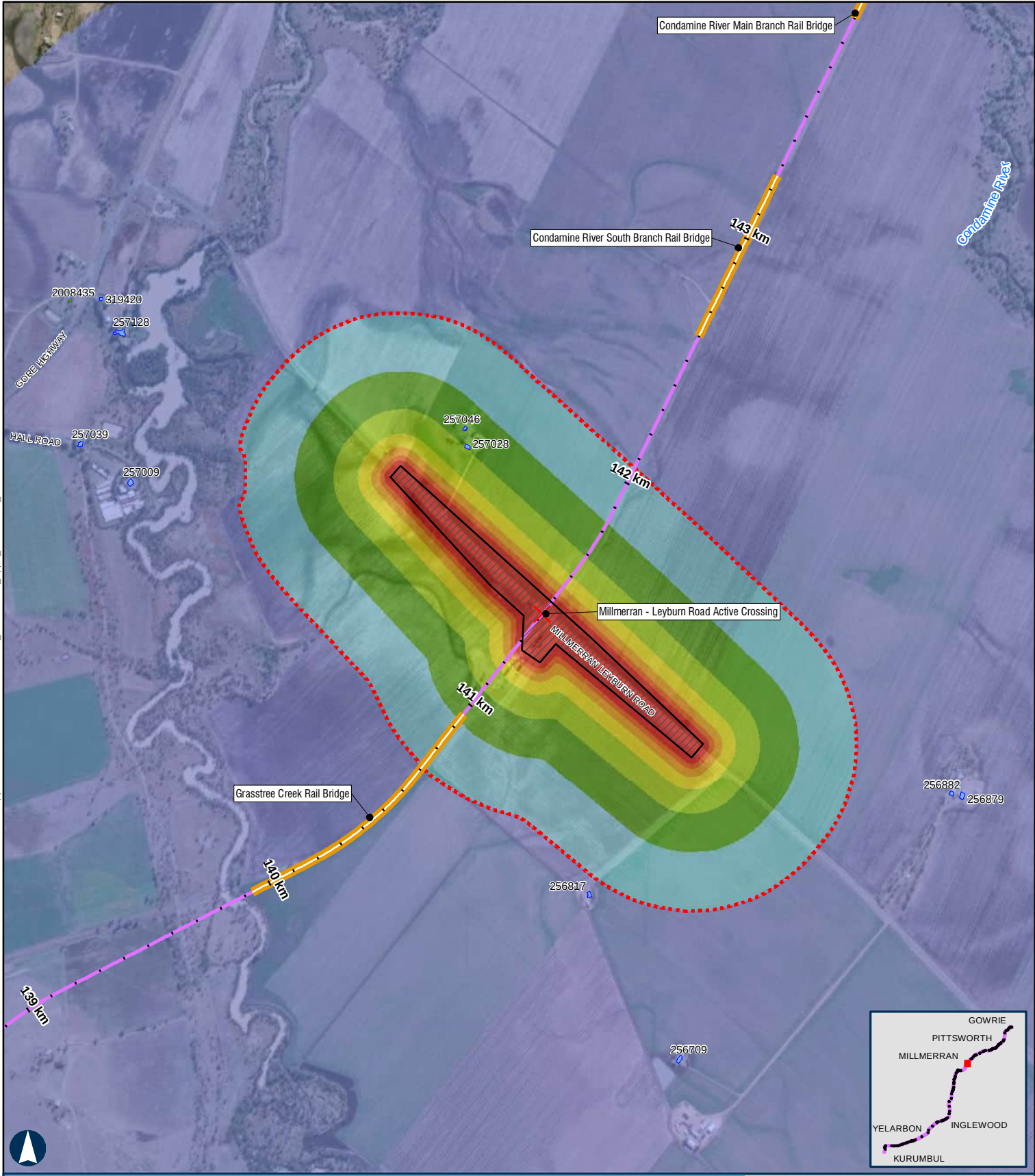
Noise Levels

- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA



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BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Non-Standard Hours

APPENDIX D - MAP 32 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

- ✕ Level Crossings
- Flying Fox Camp
- ⋯ Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

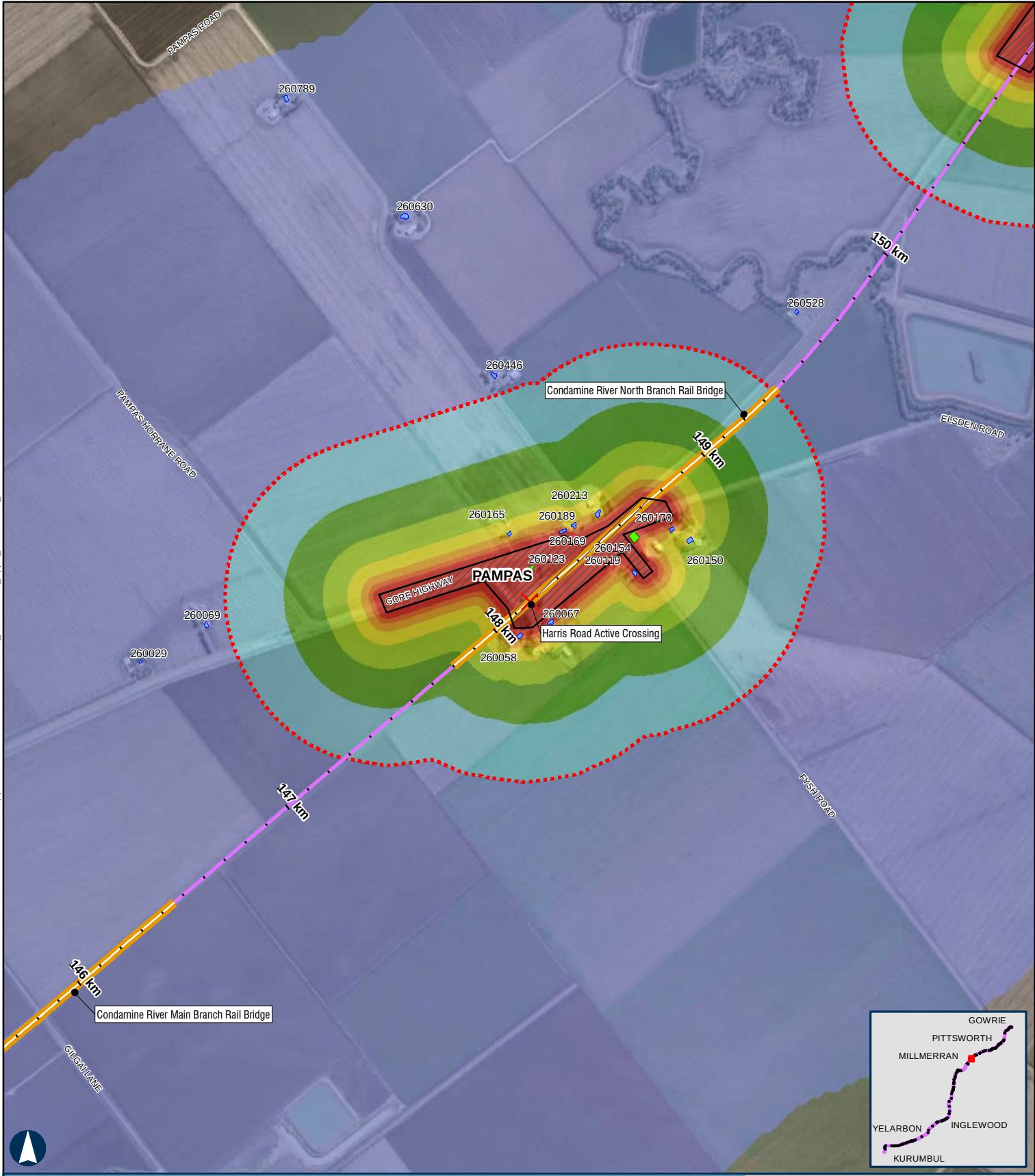
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA



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BORDER TO GOWRIE

**Scenario 18 - Road Civil - Asphalt
Non-Standard Hours**

APPENDIX D - MAP 33 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 13-Nov-2024
Author: JG

✕ Level Crossings

● Flying Fox Camp

⋯ Criteria (45 dBA)

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/ Centreline

▨ Work Area

▨ Koala Habitat Area

Sensitive Receptor Type

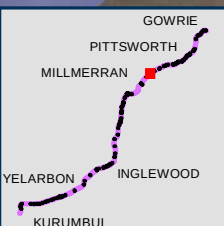
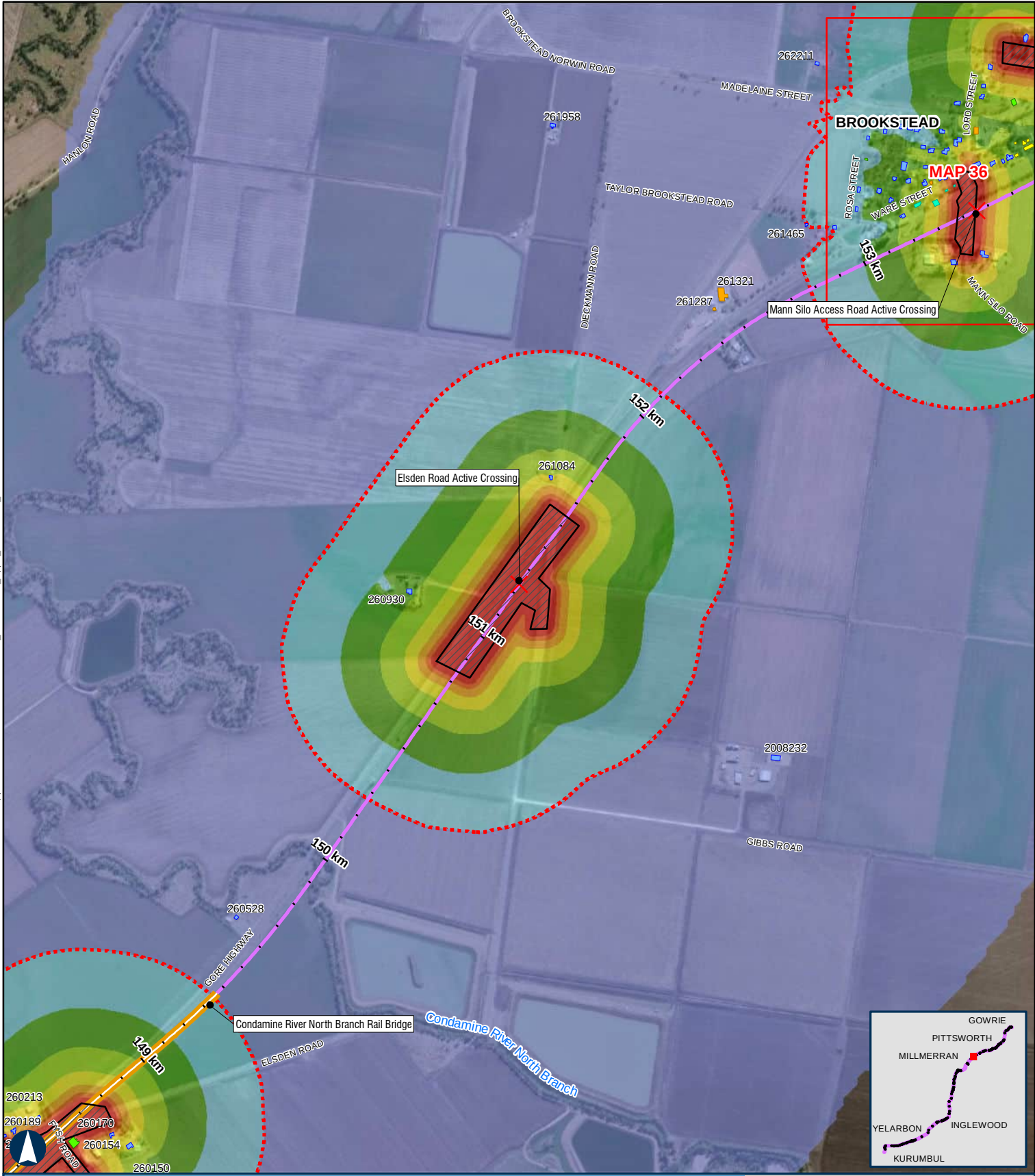
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels

- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Non-Standard Hours

APPENDIX D - MAP 34 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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- ✕ Level Crossings
- Flying Fox Camp
- ⋯ Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA

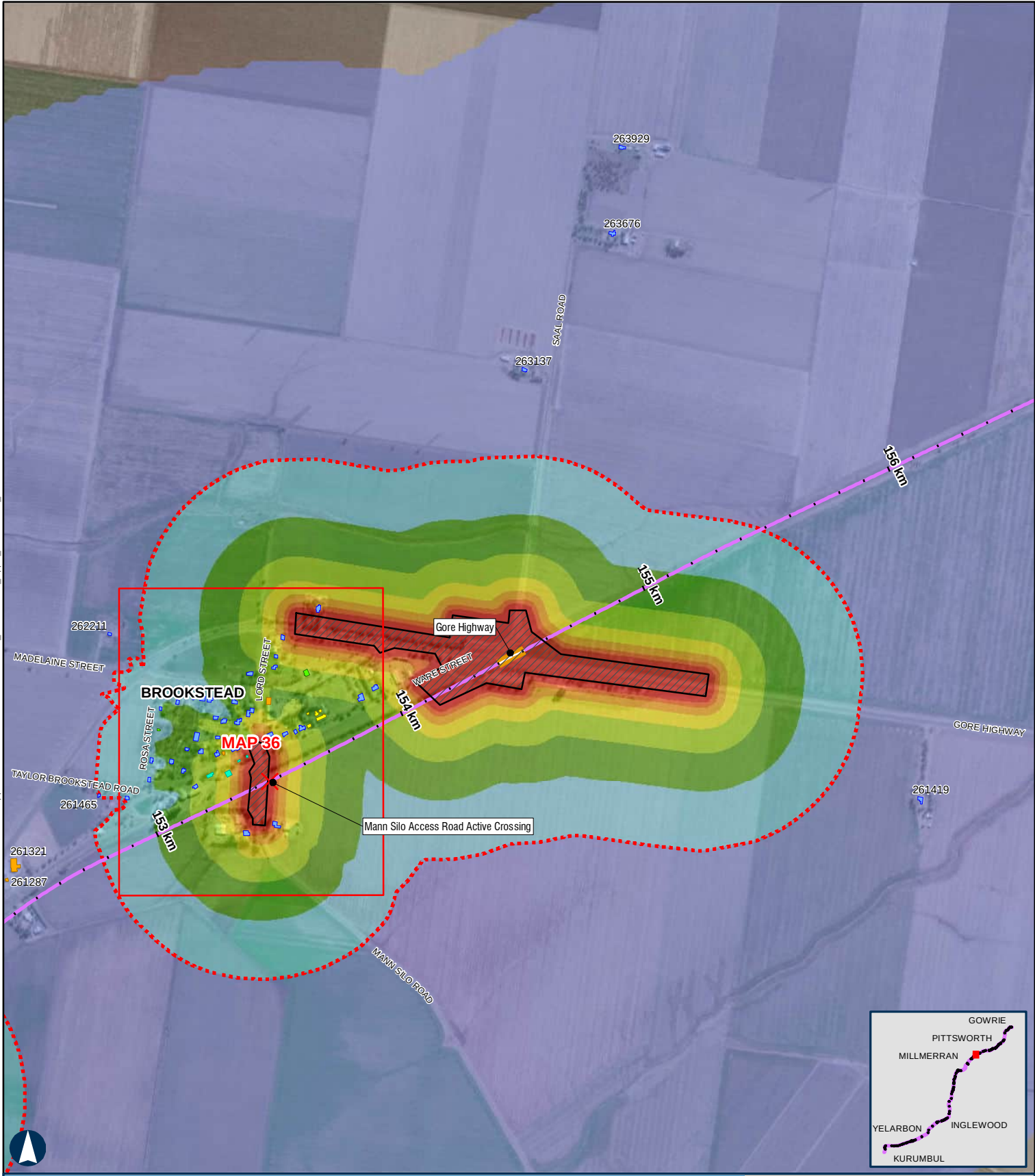
Paper: A4
Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

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BORDER TO GOWRIE

**Scenario 18 - Road Civil - Asphalt
Non-Standard Hours**

APPENDIX D - MAP 35 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

- ✕ Level Crossings
- Flying Fox Camp
- ⋯ Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

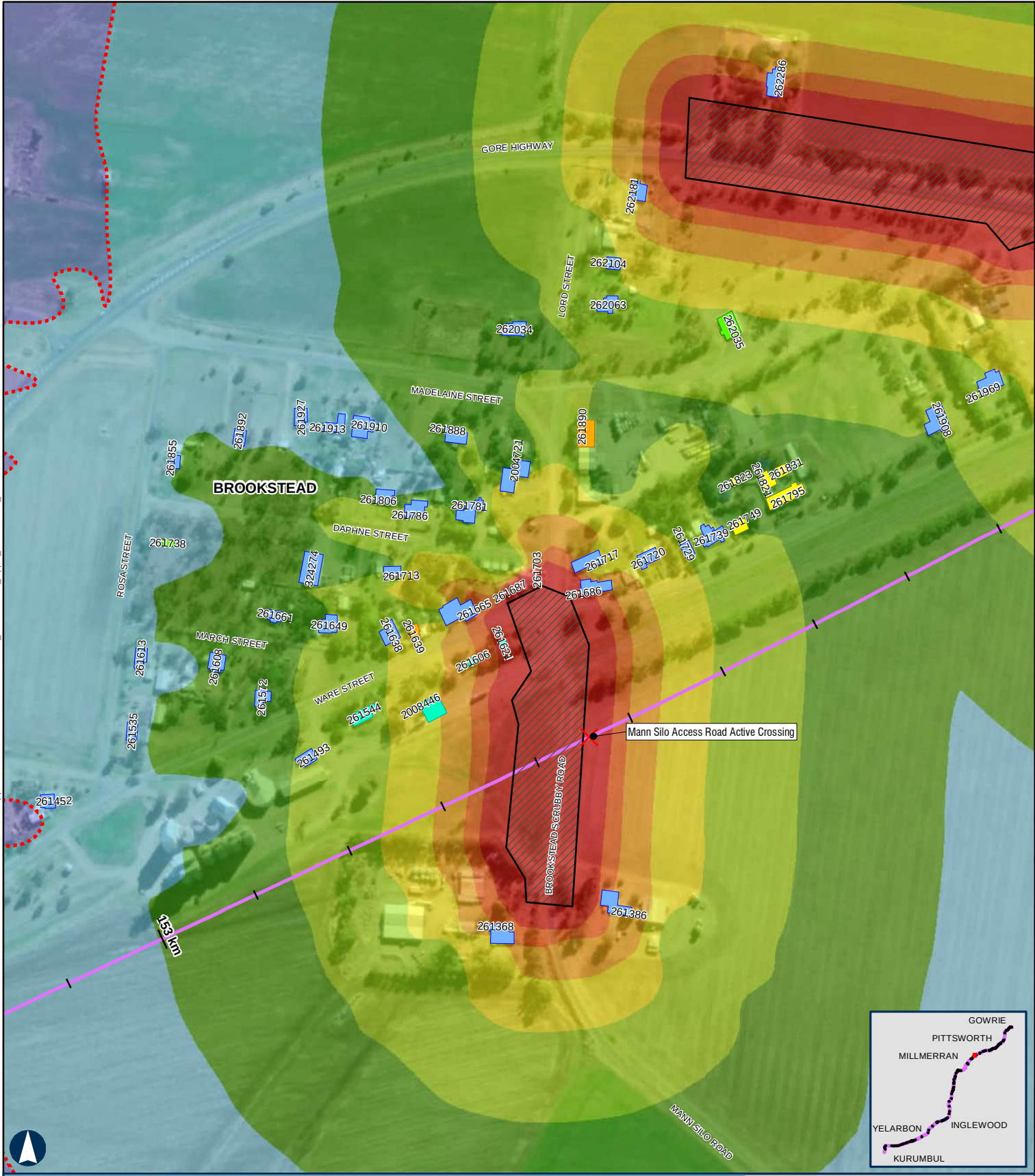
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA



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BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Non-Standard Hours

APPENDIX D - MAP 36 OF 54

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 13-Nov-2024
Author: JG

Scale: 1:5,000

- ✗ Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- ▨ Koala Habitat Area

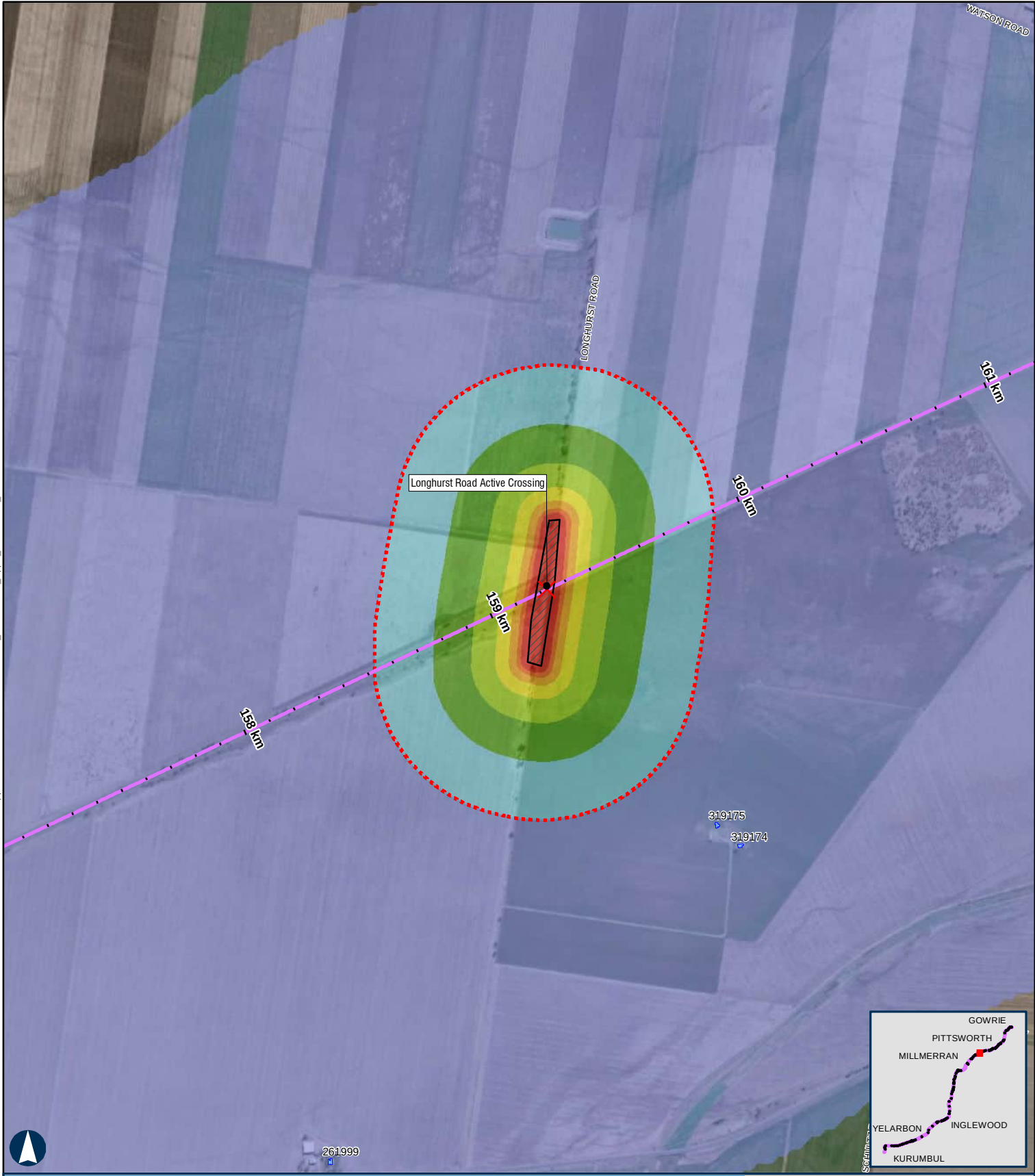
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA



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BORDER TO GOWRIE

**Scenario 18 - Road Civil - Asphalt
Non-Standard Hours**

APPENDIX D - MAP 37 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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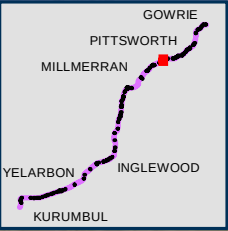
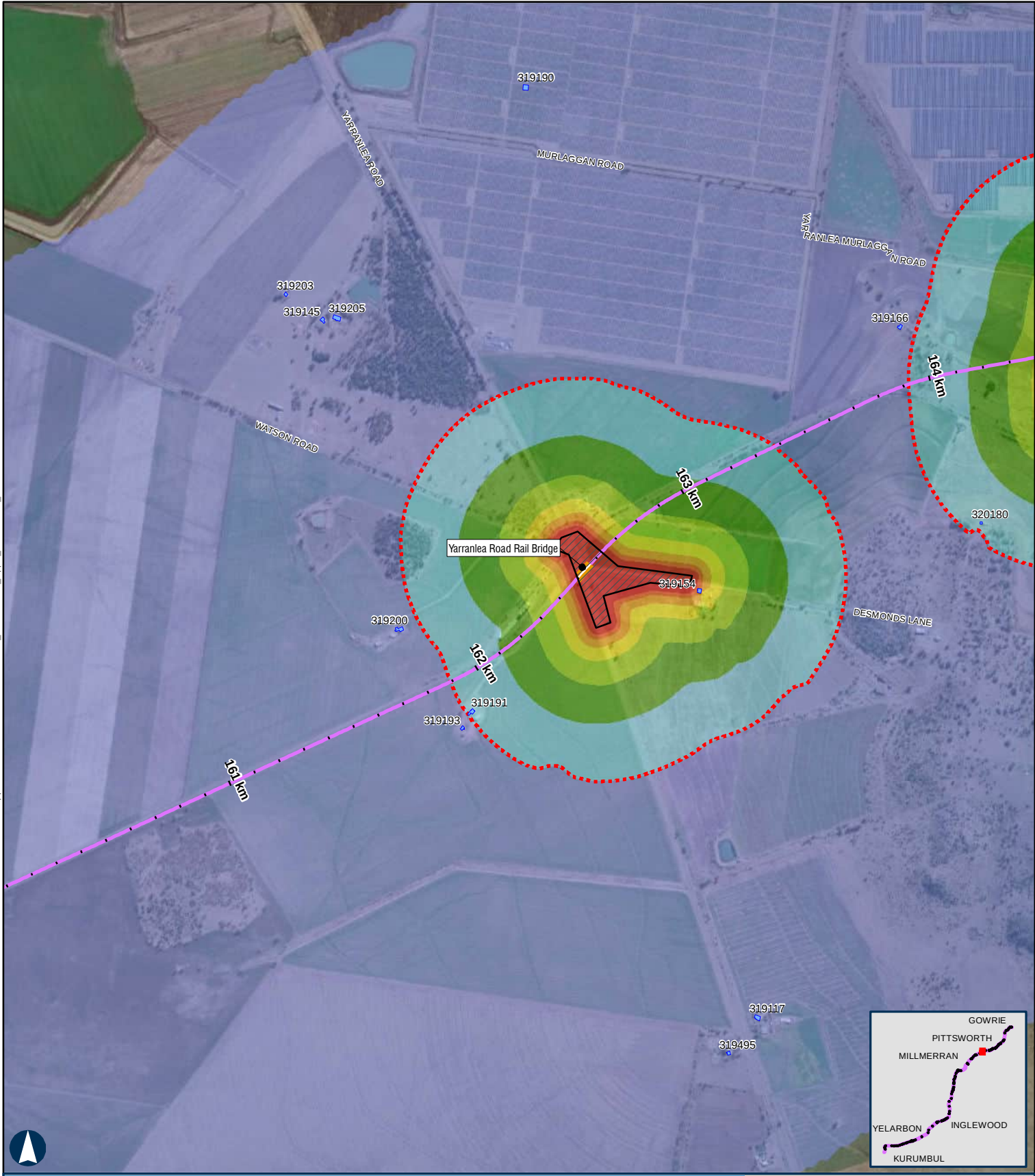
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Paper: A4
Date: 13-Nov-2024
Author: JG

Level Crossings	Residential	<45 dBA
Flying Fox Camp	Community	45-50 dBA
Criteria (45 dBA)	Educational	50-55 dBA
Project Extent	Commercial	55-60 dBA
Crossing Loops	Parkland	60-65 dBA
Bridges and Viaducts	Future Developments	65-70 dBA
Rail Alignment/ Centreline		70-75 dBA
Work Area		>75 dBA
Koala Habitat Area		

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BORDER TO GOWRIE

**Scenario 18 - Road Civil - Asphalt
Non-Standard Hours**

APPENDIX D - MAP 38 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

✕ Level Crossings

● Flying Fox Camp

⋯ Criteria (45 dBA)

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/ Centreline

▨ Work Area

▨ Koala Habitat Area

Sensitive Receptor Type

■ Residential

■ Community

■ Educational

■ Commercial

■ Parkland

□ Future Developments

Noise Levels

■ <45 dBA

■ 45-50 dBA

■ 50-55 dBA

■ 55-60 dBA

■ 60-65 dBA

■ 65-70 dBA

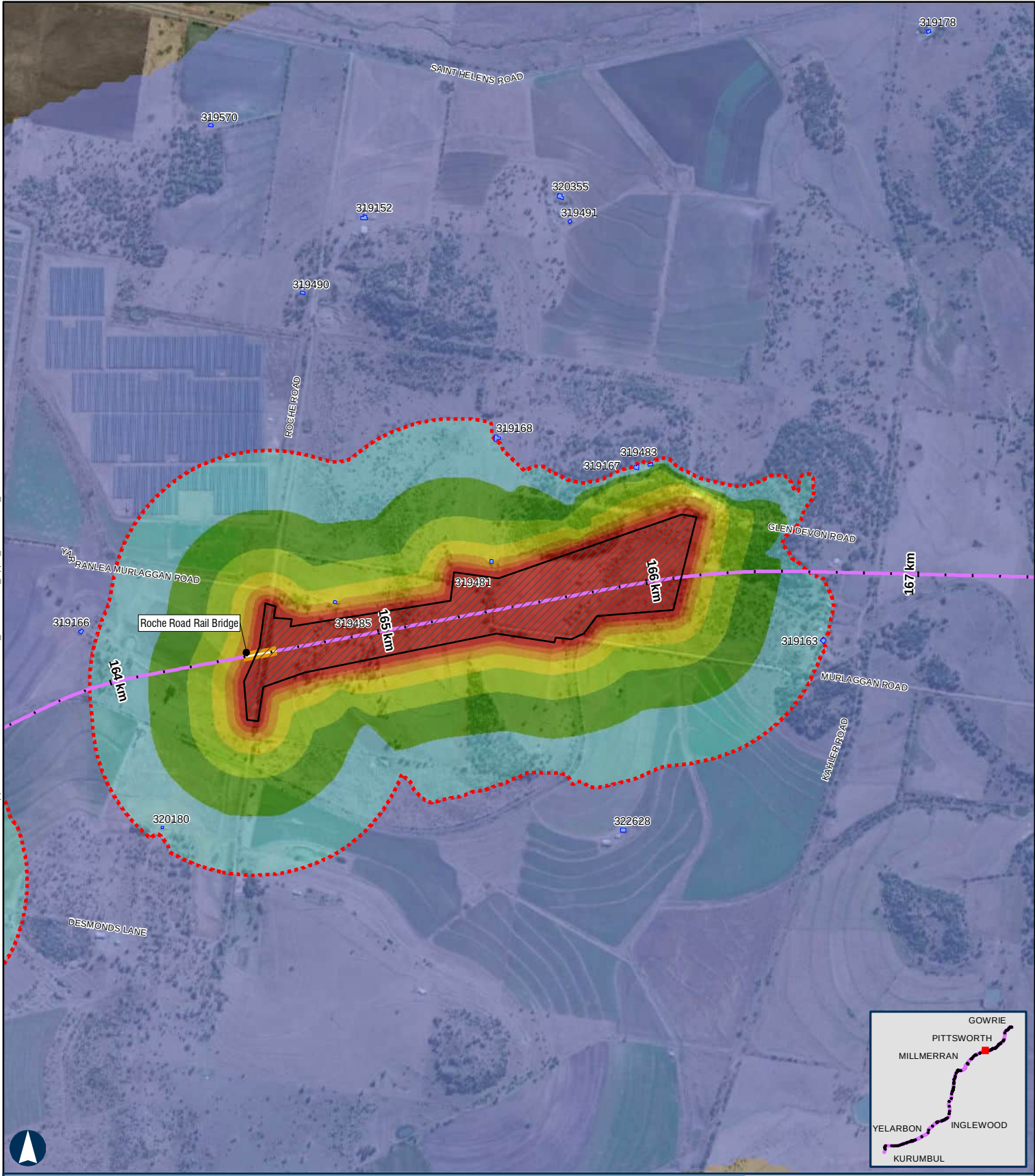
■ 70-75 dBA

■ >75 dBA



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BORDER TO GOWRIE

**Scenario 18 - Road Civil - Asphalt
Non-Standard Hours**

APPENDIX D - MAP 39 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

- ✕ Level Crossings
- Flying Fox Camp
- ⋯ Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

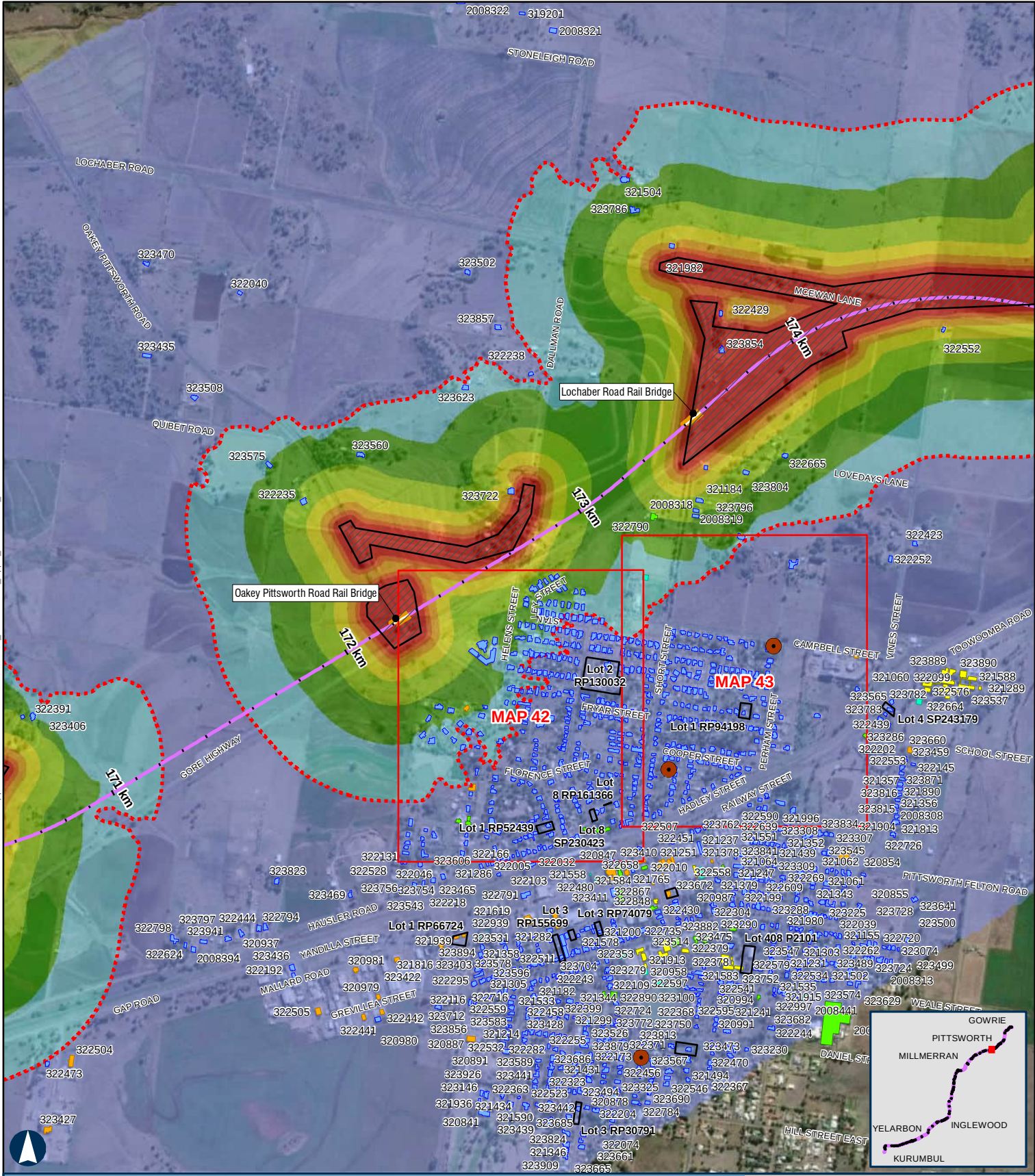
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA



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BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Non-Standard Hours

APPENDIX D - MAP 41 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

- ✗ Level Crossings
- Flying Fox Camp
- ⋯ Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

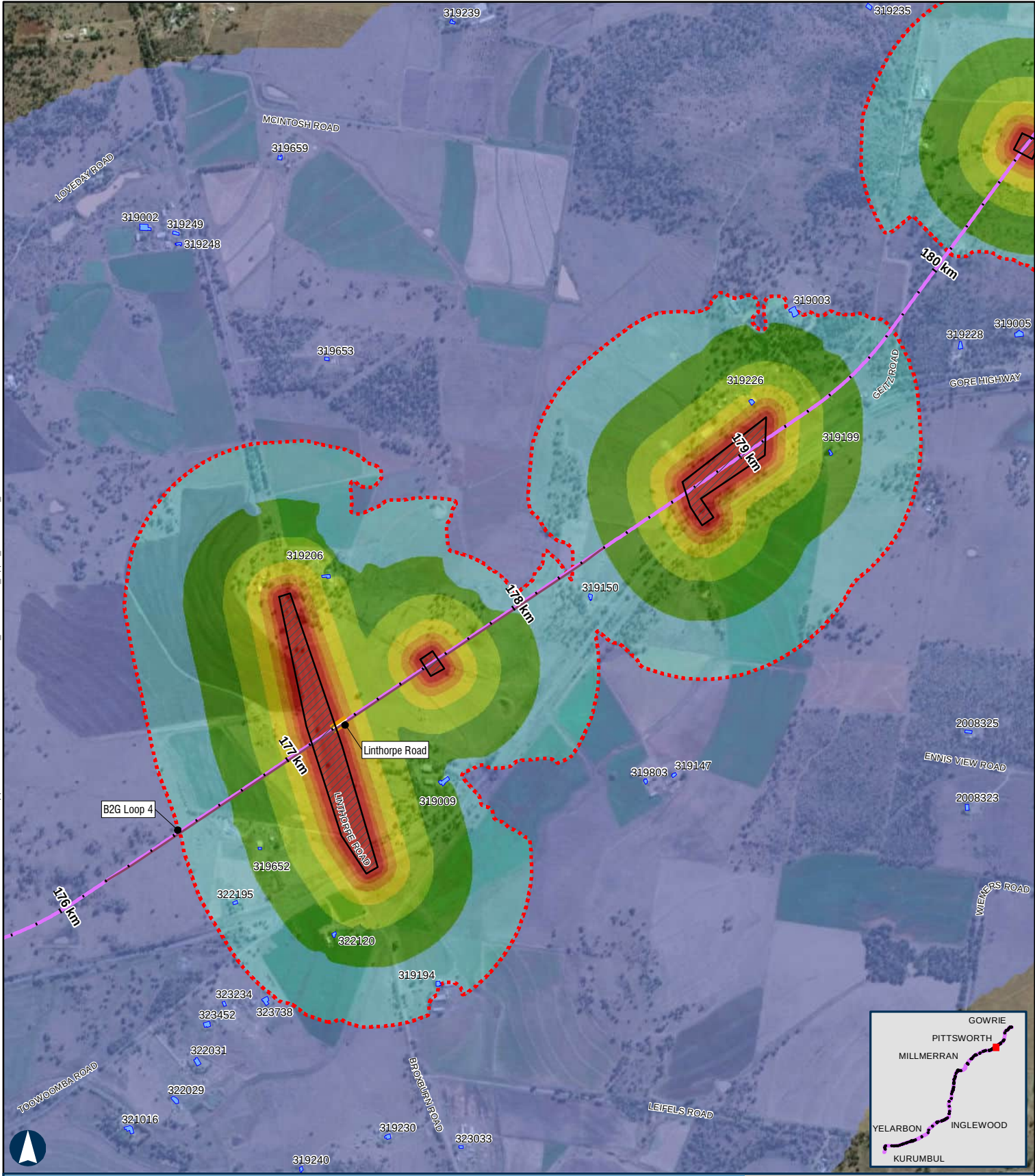
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA

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BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Non-Standard Hours

APPENDIX D - MAP 45 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

- ✗ Level Crossings
- Flying Fox Camp
- ⋯ Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- ▨ Koala Habitat Area

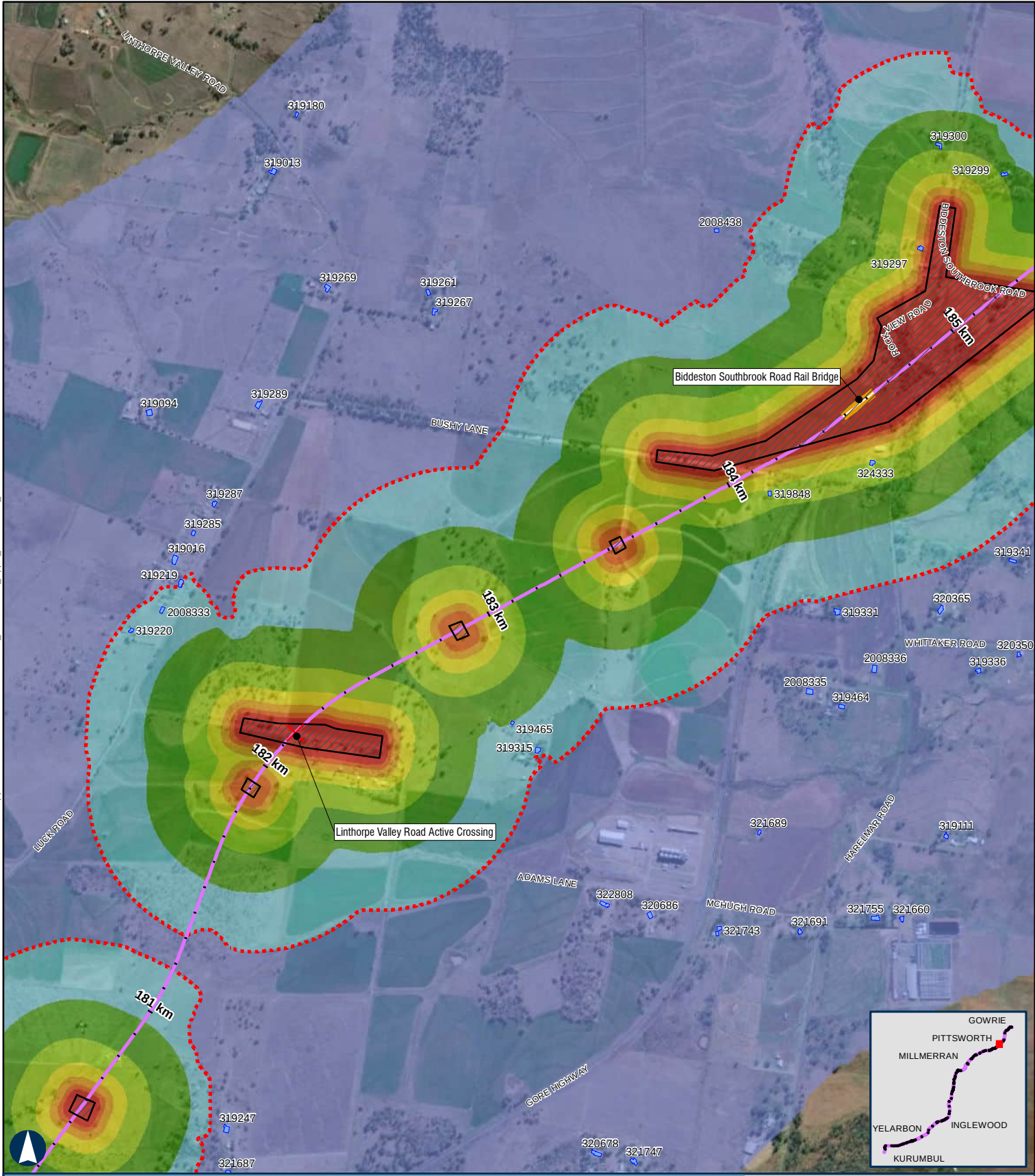
- ### Sensitive Receptor Type
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- ### Noise Levels
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA



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BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Non-Standard Hours

APPENDIX D - MAP 47 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

- ✕ Level Crossings
- Flying Fox Camp
- ⋯ Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

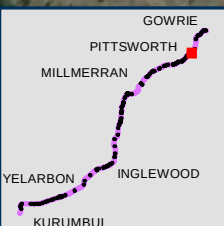
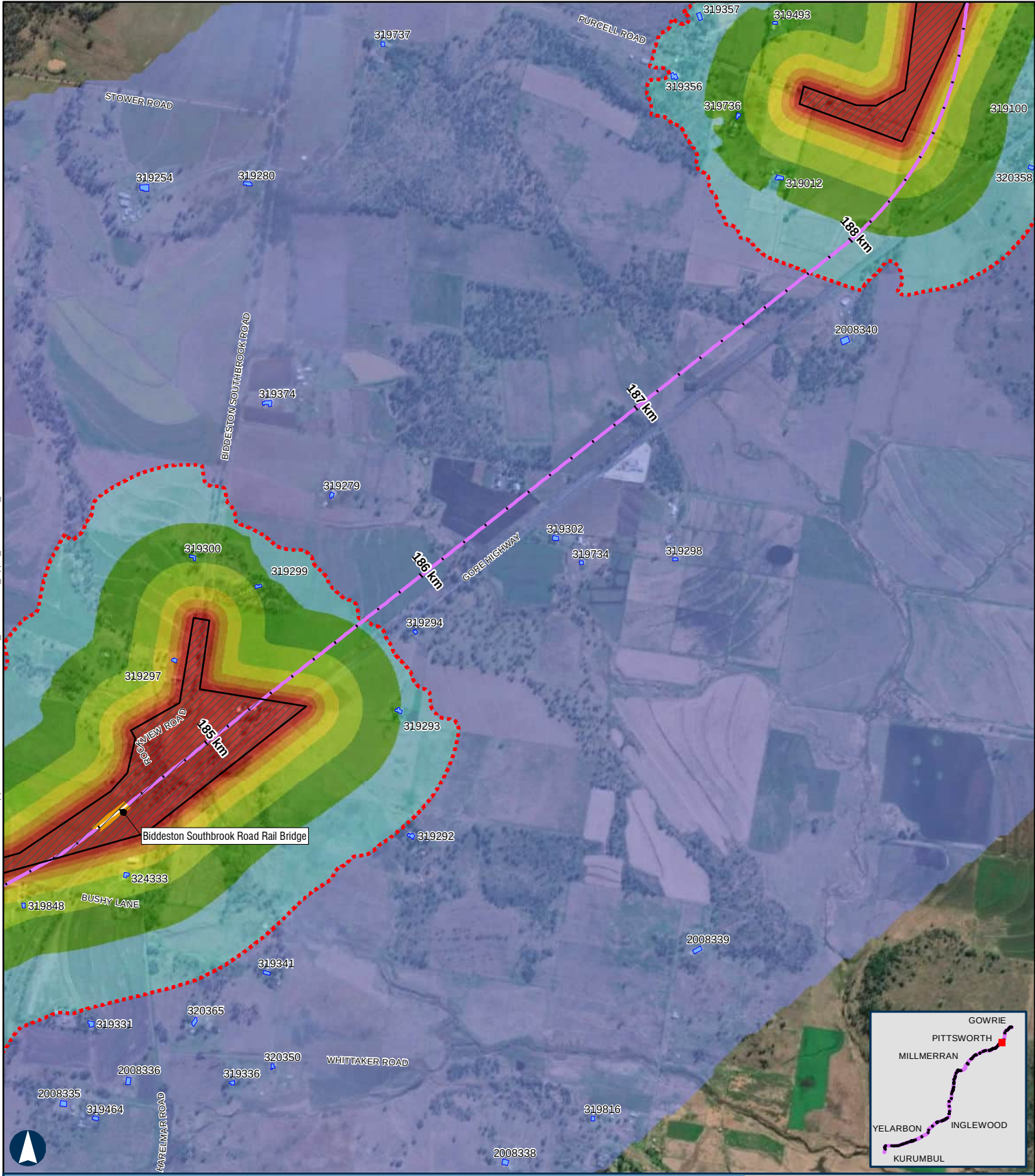
- ### Sensitive Receptor Type
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- ### Noise Levels
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA



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BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Non-Standard Hours

APPENDIX D - MAP 48 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

- ✗ Level Crossings
- Flying Fox Camp
- ⋯ Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

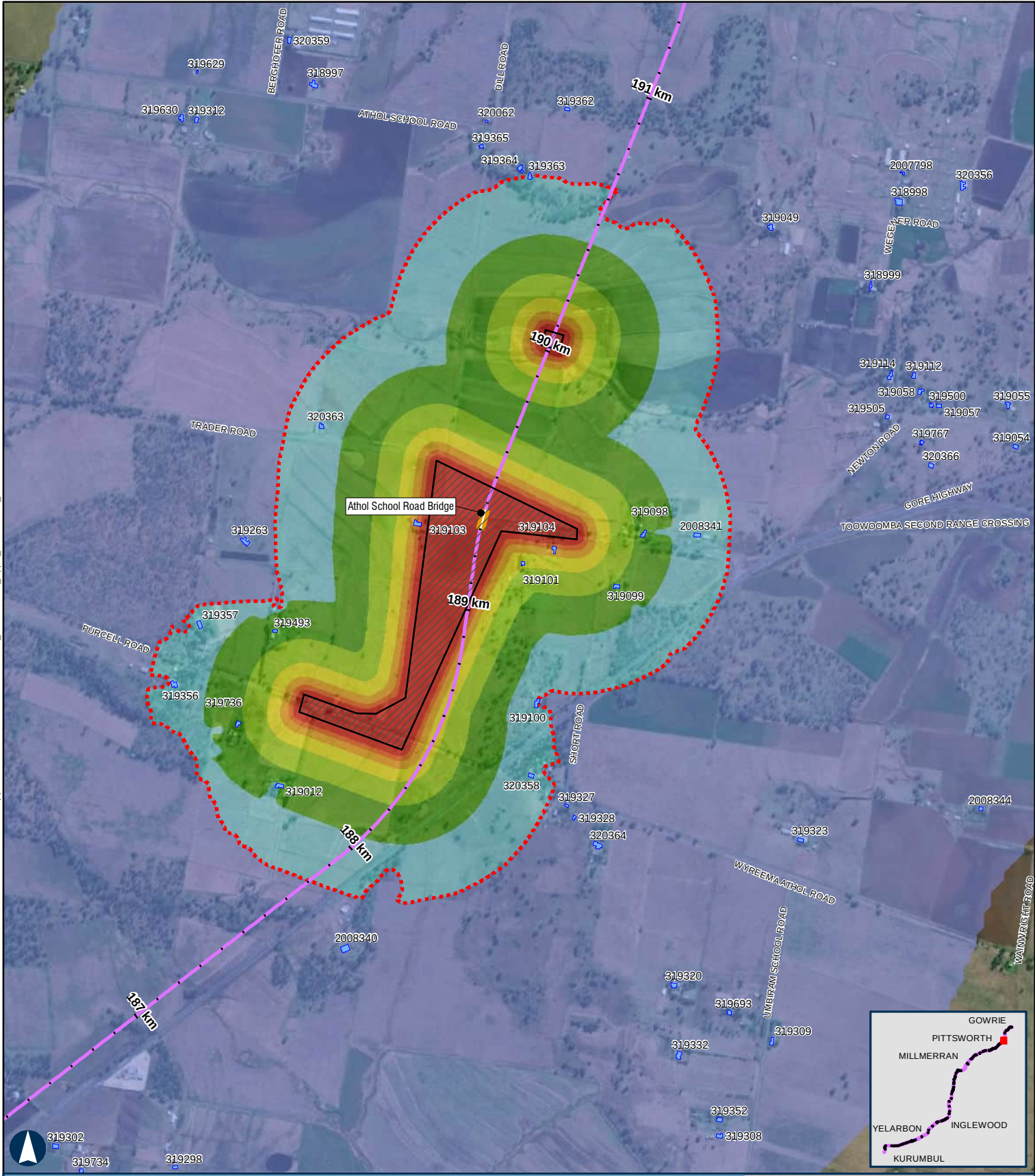
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA

ARTC **InlandRail**

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\\au.sl.local\Corporate\Projects\SLR\620-BNE\620-031489-00001\Inland Rail B2G Construction R06 SLR Data\01 CAD\GIS\GIS\Construction noise contour\Appendix D - Noise Contours\620031489_Construction_AppD_Scenario 18_Non-Standard hours.mxd



BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Non-Standard Hours

APPENDIX D - MAP 49 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

- ✗ Level Crossings
- Flying Fox Camp
- ⋯ Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

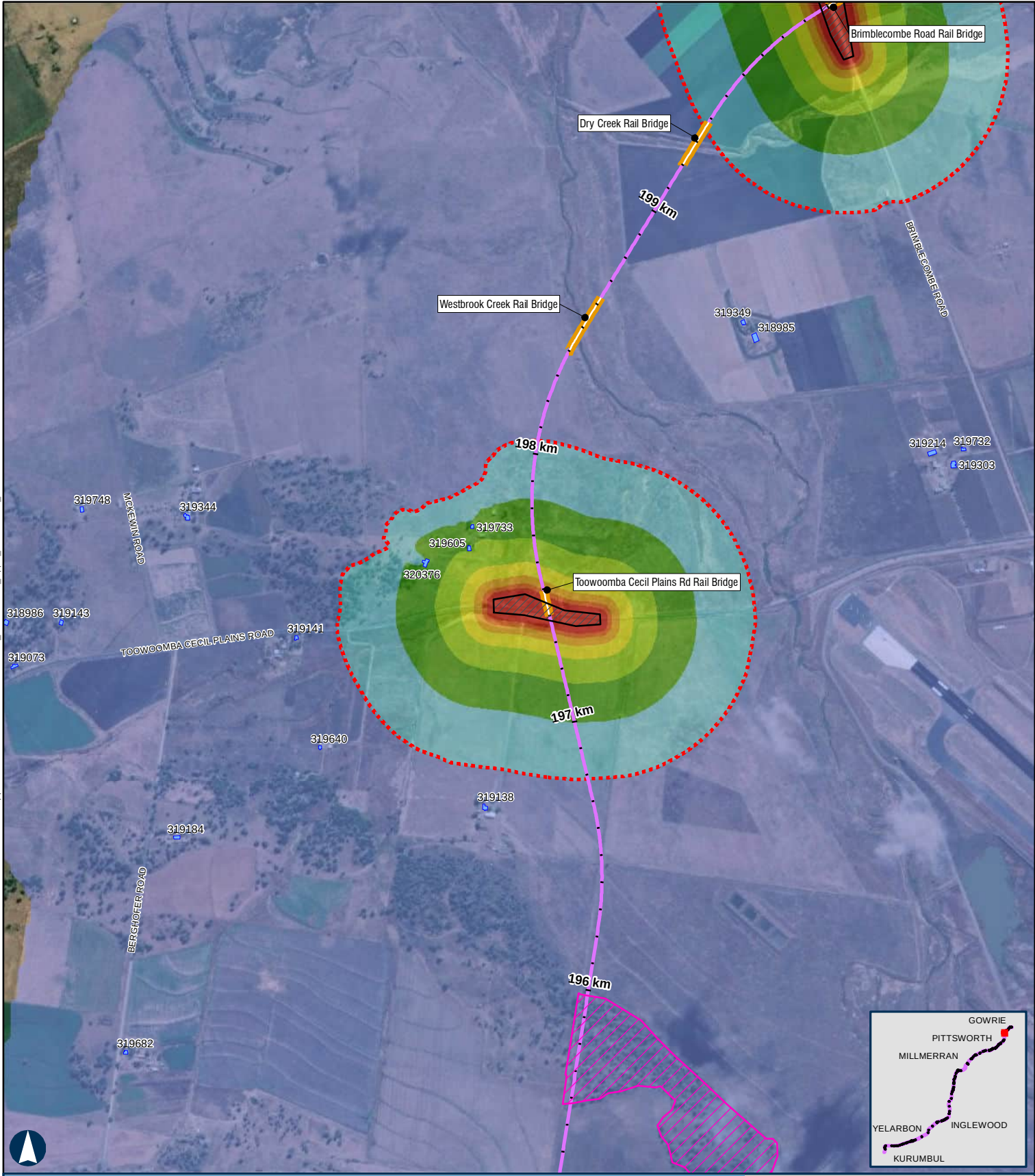
- #### Sensitive Receptor Type
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- #### Noise Levels
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA



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BORDER TO GOWRIE

**Scenario 18 - Road Civil - Asphalt
Non-Standard Hours**

APPENDIX D - MAP 50 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

- ✕ Level Crossings
- Flying Fox Camp
- ⋯ Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

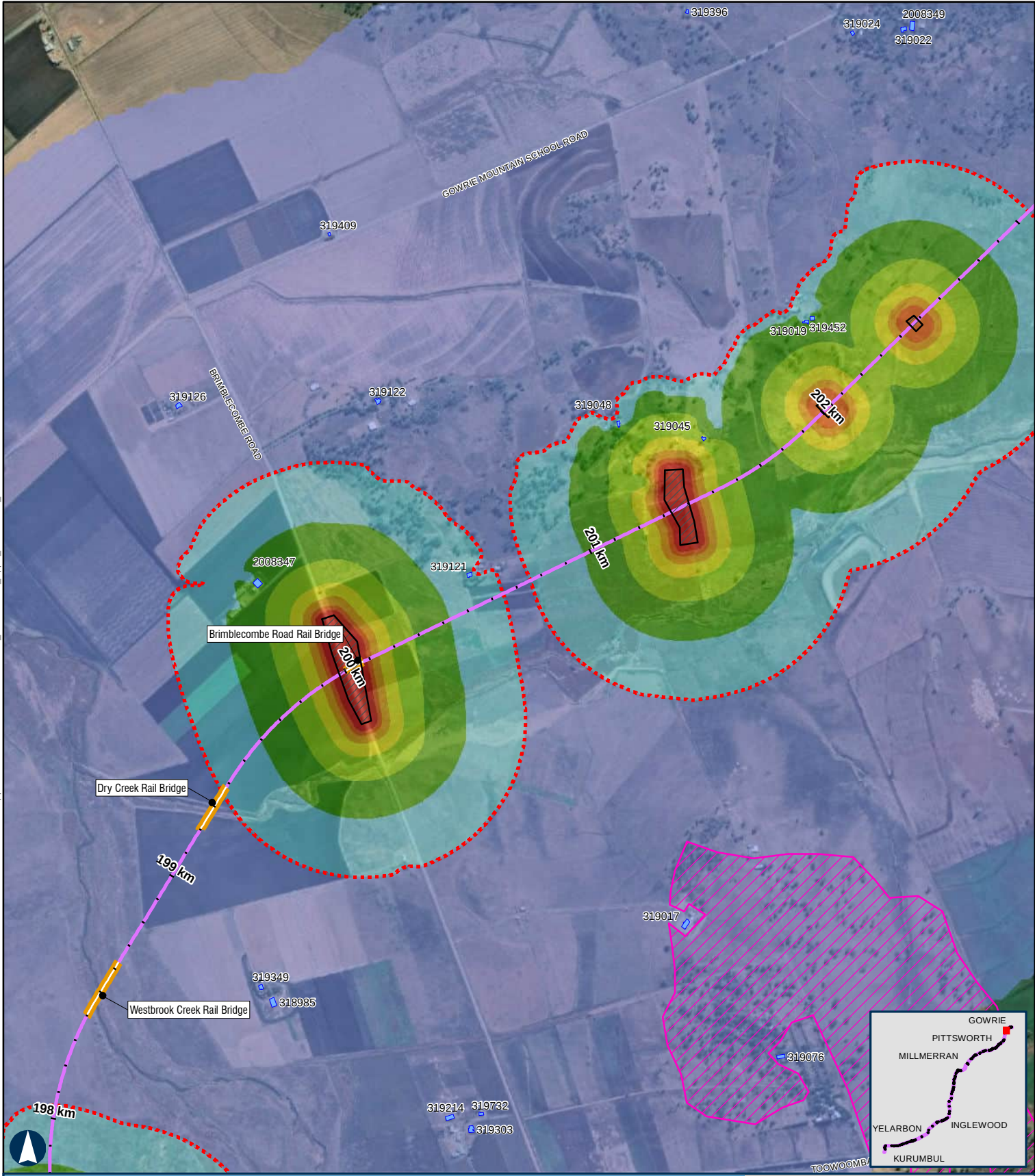
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA



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BORDER TO GOWRIE

**Scenario 18 - Road Civil - Asphalt
Non-Standard Hours**

APPENDIX D - MAP 51 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

- ✗ Level Crossings
- Flying Fox Camp
- ⋯ Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Work Area
- ▨ Koala Habitat Area

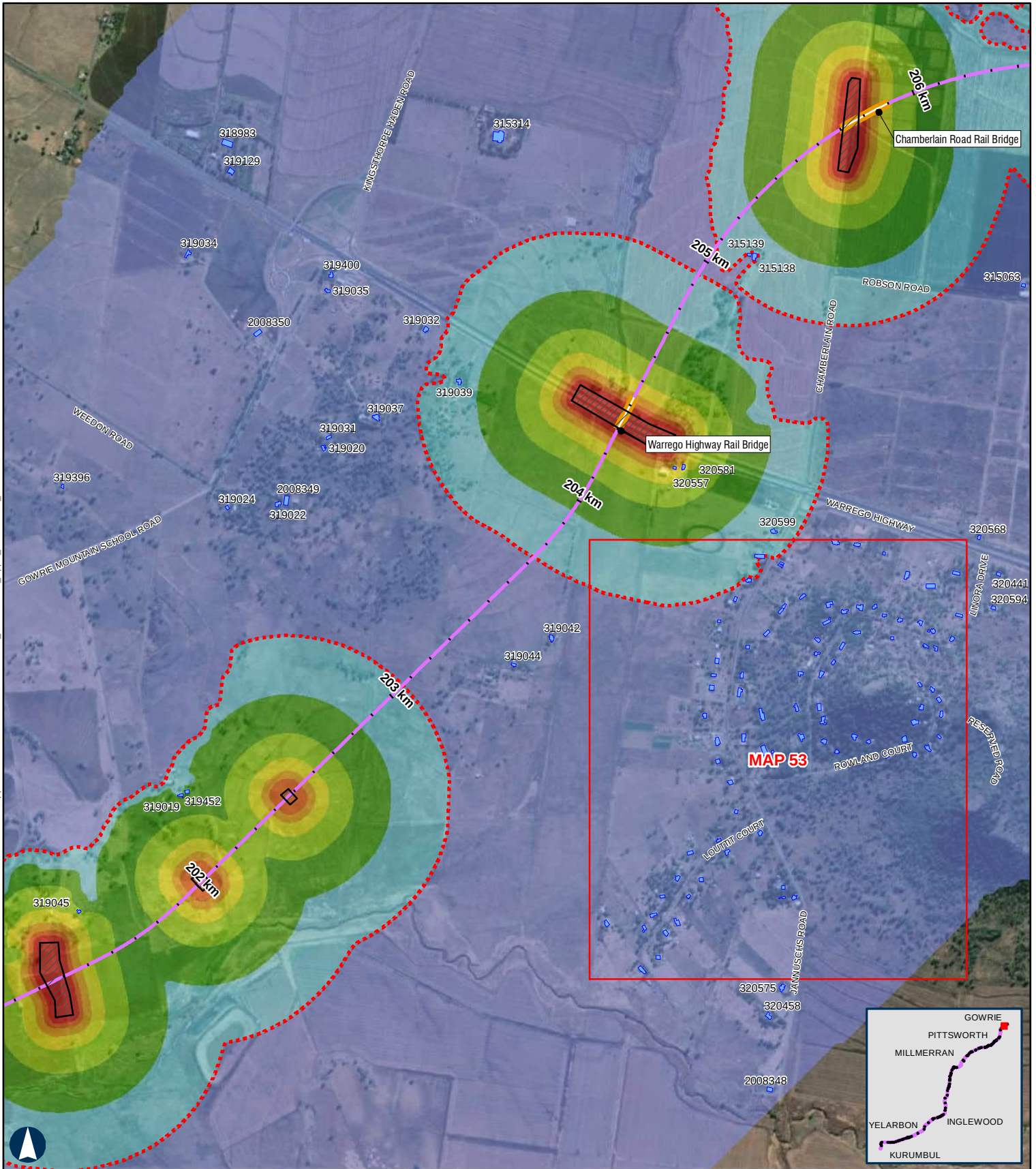
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA

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BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Non-Standard Hours

APPENDIX D - MAP 52 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 13-Nov-2024
Author: JG

Scale: 1:19,000

✕ Level Crossings

● Flying Fox Camp

⋯ Criteria (45 dBA)

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/ Centreline

— Work Area

— Koala Habitat Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

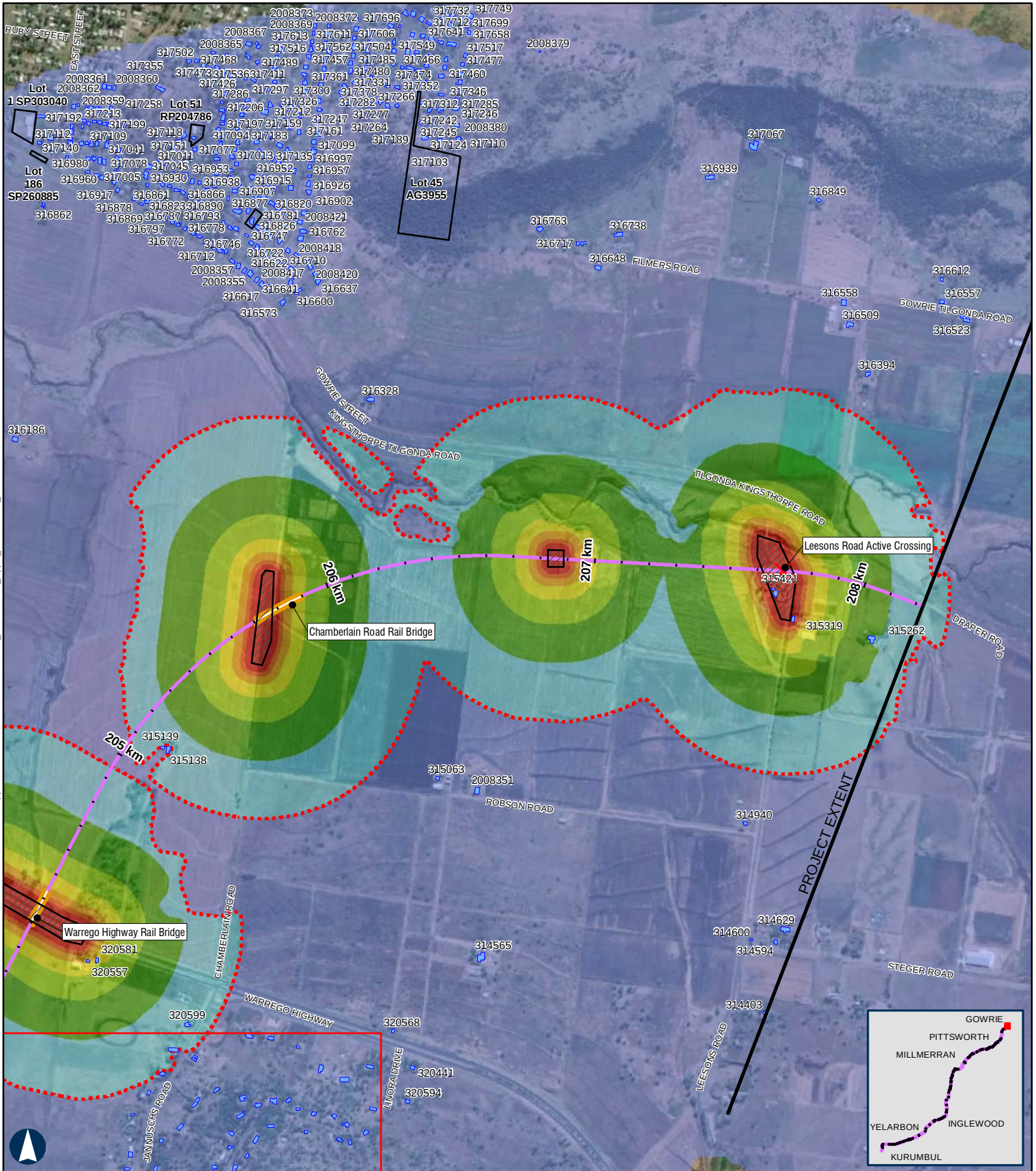
Noise Levels

- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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BORDER TO GOWRIE

Scenario 18 - Road Civil - Asphalt Non-Standard Hours

APPENDIX D - MAP 54 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Scale: 1:19,000

- ✕ Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Noise Levels**
- <45 dBA
 - 45-50 dBA
 - 50-55 dBA
 - 55-60 dBA
 - 60-65 dBA
 - 65-70 dBA
 - 70-75 dBA
 - >75 dBA

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APPENDIX

V

Noise and Vibration Assessment—Construction and Road Traffic

Appendix E Vibration safe working distance contour maps

BORDER TO GOWRIE REVISED DRAFT ENVIRONMENTAL IMPACT STATEMENT

Vibration safe working distance contour maps, which are essentially exclusion zones for all relevant sources of Project construction vibration, are provided for the following sensitive receptor limits:

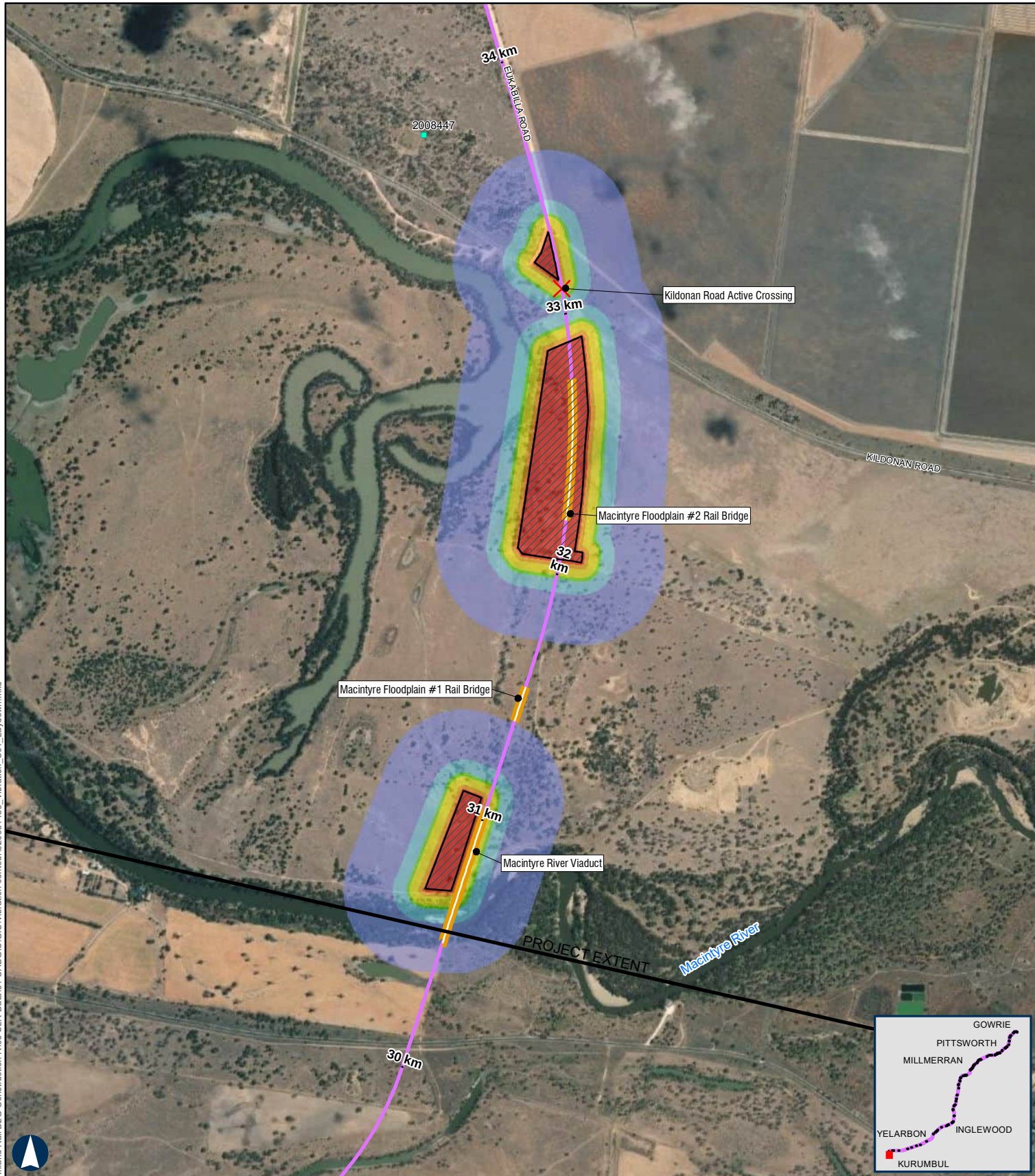
- Human comfort limits of 0.3 mm/s, 1.0 mm/s and 2.0 mm/s
- Heritage structures limit of 2.5 mm/s
- Light framed structures, residential or light commercial type buildings limit of 7.5 mm/s

Safe working distance contour maps are provided for the following vibration intensive sources:

- Rock breaking activities potentially required across the Project.
- Vibratory rollers operated during earthworks, civil rail and road works.
- Vibratory piling potentially required at bridge construction sites.
- Driven (percussive) piling potentially required at bridge construction sites.

As detailed in **Section 6.1.2**, the vibration safe working distances provide a simple and conservative guide to site personnel to manage the likelihood of vibration impacts to sensitive receptors. For example, the safe working distance contour map indicates that a sensitive receptor building is located within the 25 m safe working distance exclusion zone for the 12T vibratory roller on the high vibrate amplitude setting. Site personnel would then confirm (via the safe working distances) that the works can proceed with the 12T vibratory roller operating on the low amplitude setting or alternatively consider static operation or a smaller size vibratory roller.





BORDER TO GOWRIE Scenario 1 - Earthworks

APPENDIX E - MAP 1 OF 48

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 15-Nov-2024
Author: JG

Scale: 1:20,000

✕ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

— Koala Habitat Area

— Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

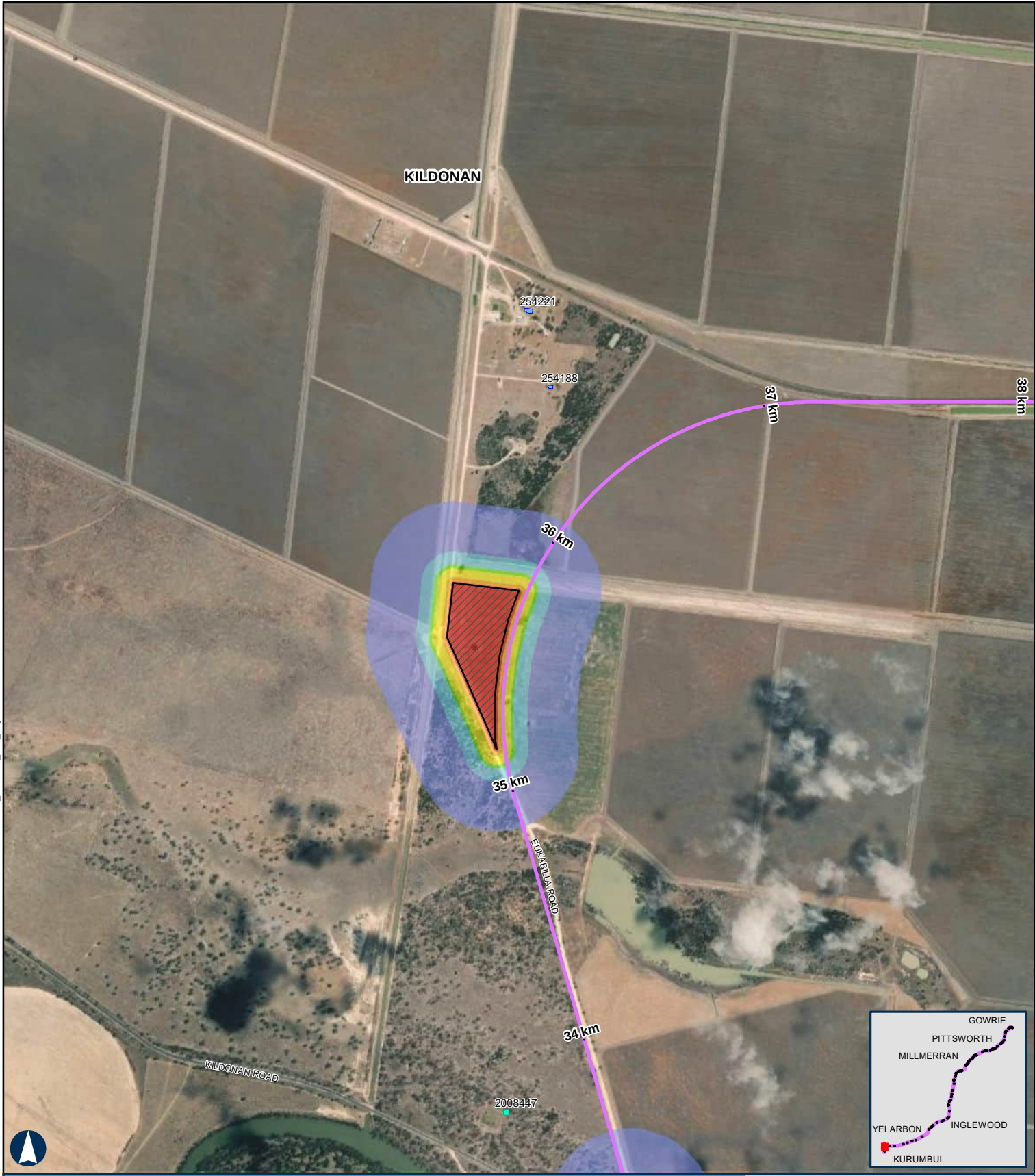
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

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BORDER TO GOWRIE Scenario 1 - Earthworks

APPENDIX E - MAP 2 OF 48

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/ Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

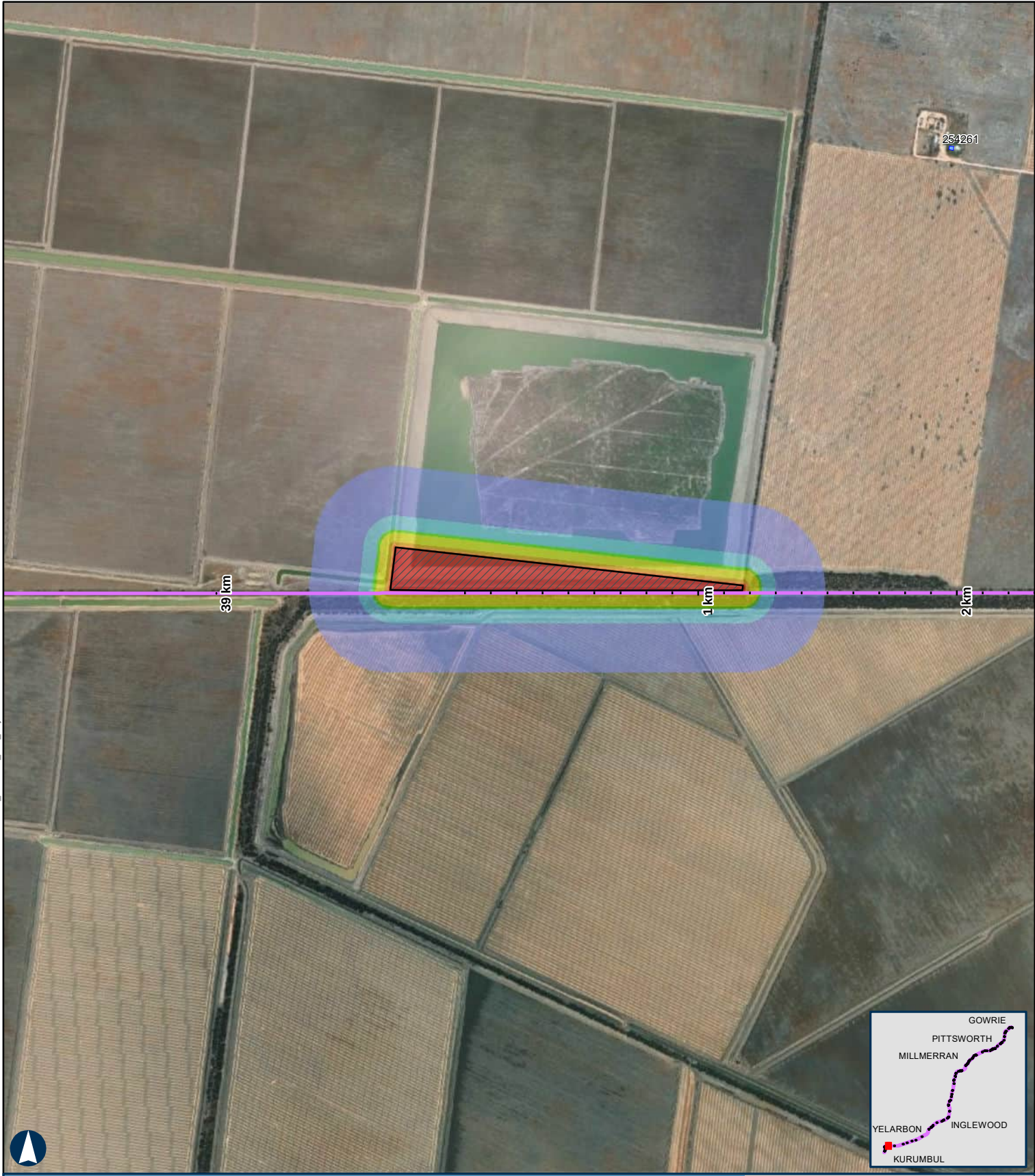
Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

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BORDER TO GOWRIE Scenario 1 - Earthworks

APPENDIX E - MAP 3 OF 48

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:20,000

- ✗ Level Crossings
- Flying Fox Camp
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Koala Habitat Area
- ▨ Work Area

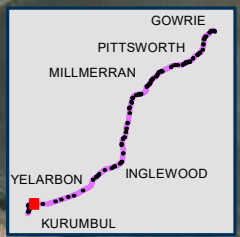
Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

- Human comfort – standards hours lower limit: 1 mm/s, 124m
- Human comfort – standards hours upper limit: 2 mm/s, 72m
- Heritage structures: 2.5 mm/s, 60m
- Residential or light framed commercial: 7.5 mm/s, 25m
- Industrial or framed commercial: 25 mm/s, 8m



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BORDER TO GOWRIE Scenario 1 - Earthworks

APPENDIX E - MAP 4 OF 48

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:20,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

■ Residential

■ Community

■ Educational

■ Commercial

■ Parkland

□ Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

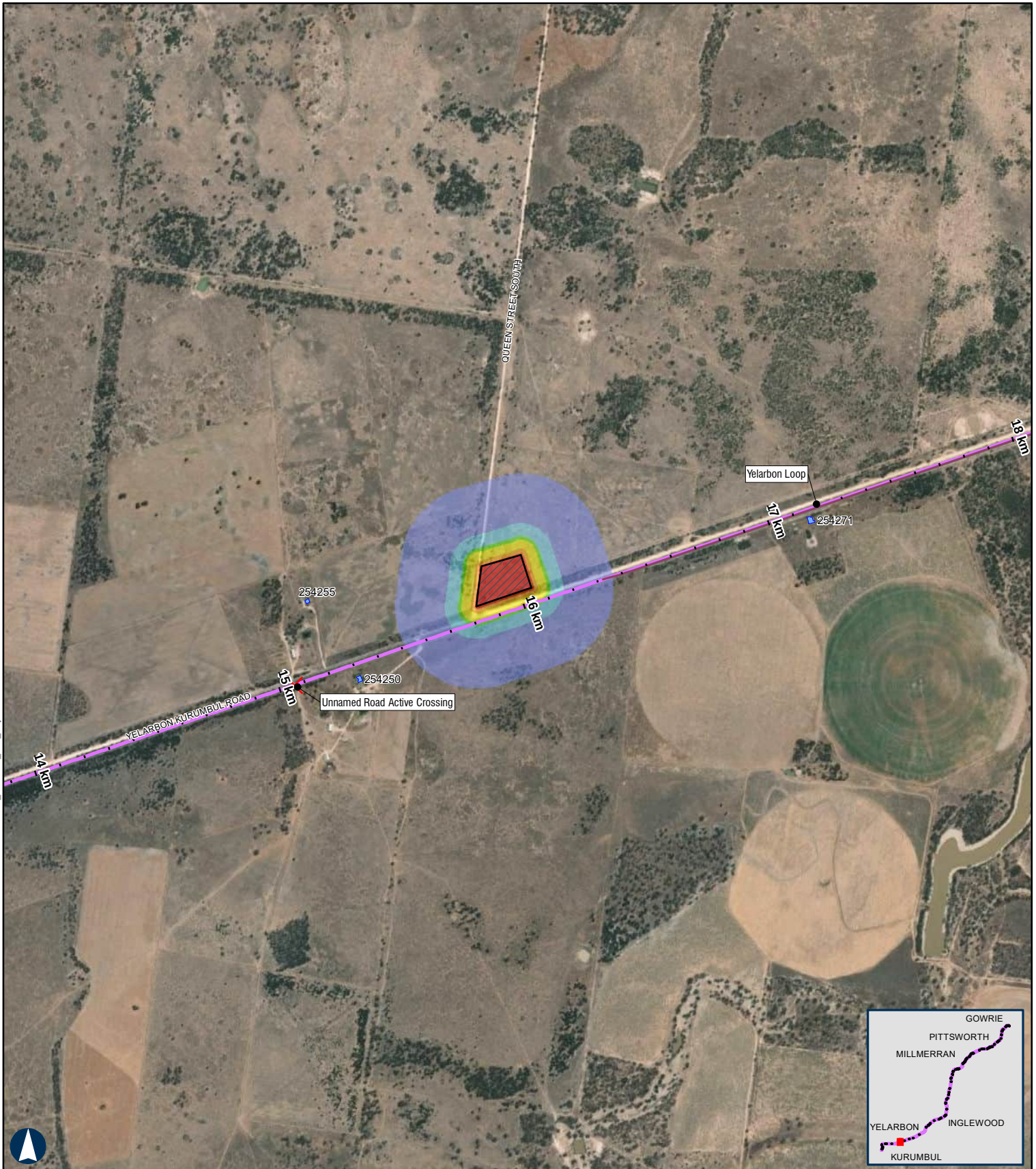
Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

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BORDER TO GOWRIE Scenario 1 - Earthworks

APPENDIX E - MAP 5 OF 48

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 15-Nov-2024
Author: JG

Scale: 1:20,000

✕ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distances

Human comfort – non-

standards hours lower

limit: 0.3 mm/s, 316m

Human comfort –
standards hours lower
limit: 1 mm/s, 124m

Human comfort –
standards hours upper
limit: 2 mm/s, 72m

Heritage structures:
2.5 mm/s, 60m

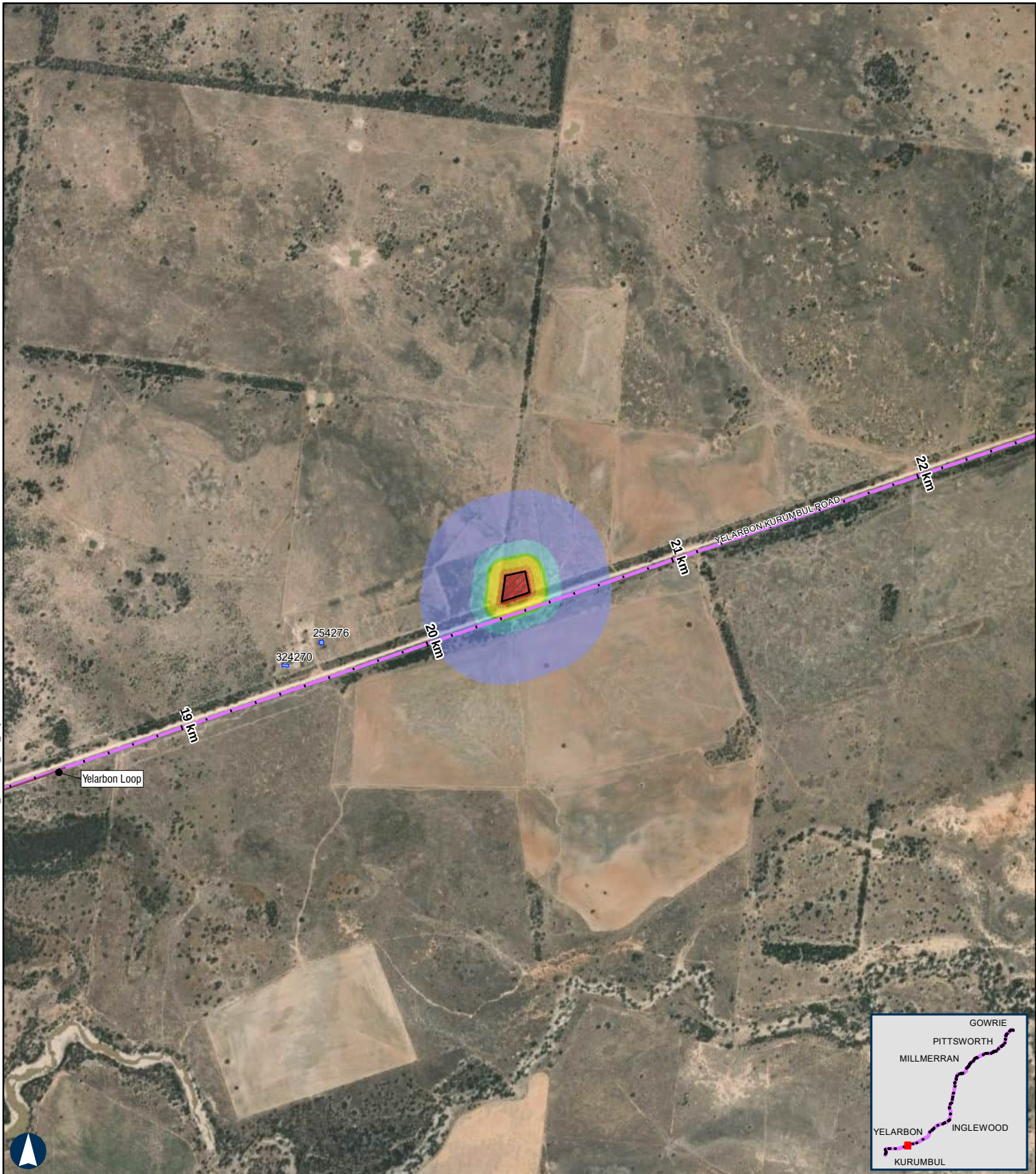
Residential or light
framed commercial:
7.5 mm/s, 25m

Industrial or framed
commercial: 25 mm/s,
8m

ARTC InlandRail

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BORDER TO GOWRIE Scenario 1 - Earthworks

APPENDIX E - MAP 6 OF 48

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 15-Nov-2024
Author: JG

Scale: 1:20,000

✕ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

— Koala Habitat Area

— Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

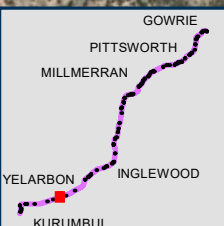
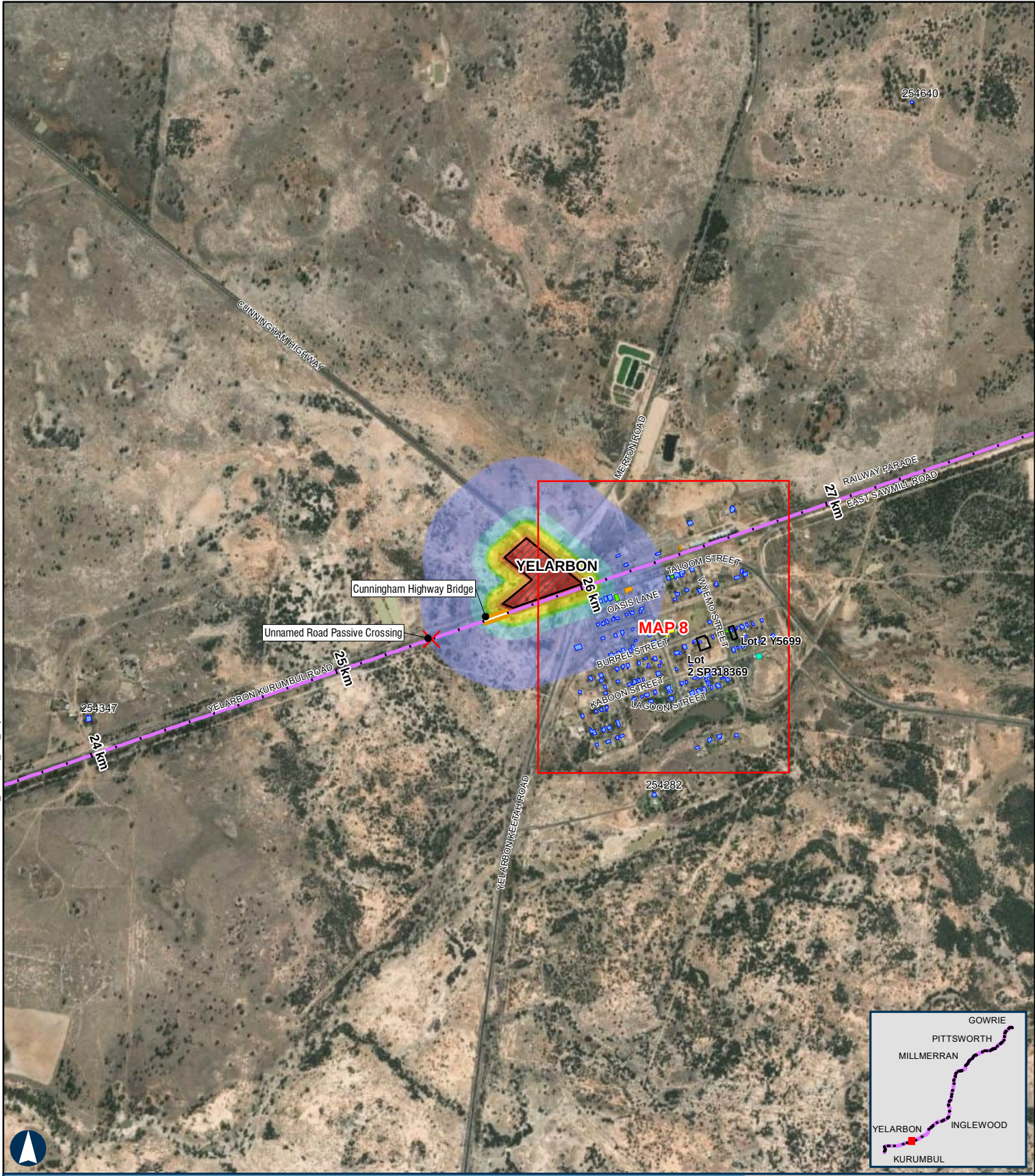
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

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BORDER TO GOWRIE

Scenario 1 - Earthworks

APPENDIX E - MAP 7 OF 48

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/ Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

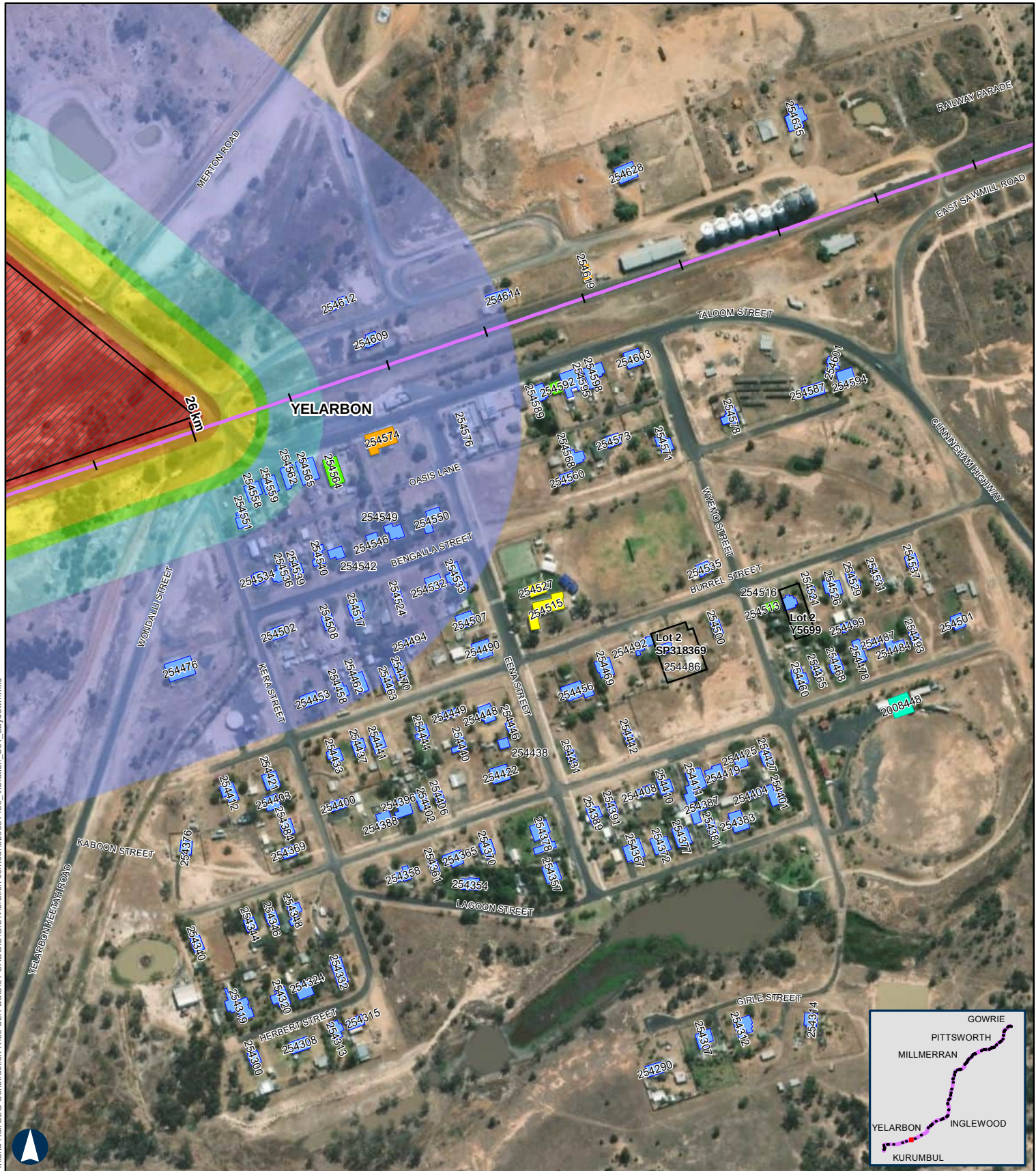
Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC

InlandRail

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BORDER TO GOWRIE Scenario 1 - Earthworks

APPENDIX E - MAP 8 OF 48

100 m

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:5,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

— Koala Habitat Area

— Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

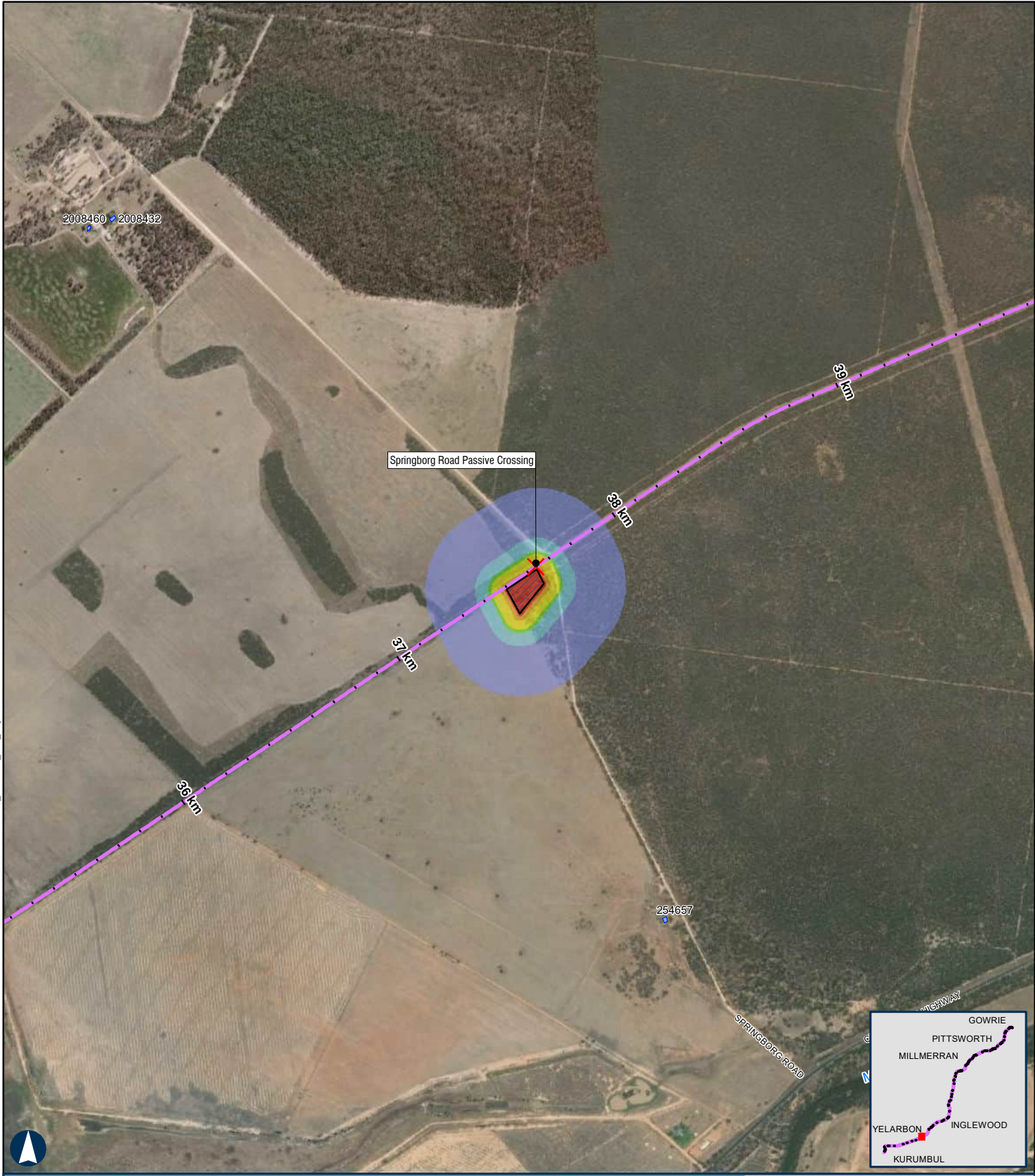
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC InlandRail

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BORDER TO GOWRIE Scenario 1 - Earthworks

APPENDIX E - MAP 10 OF 48

100m

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Author: JG

Scale: 1:20,000

Level Crossings

Flying Fox Camp

Project Extent

Crossing Loops

Bridges and Viaducts

Rail Alignment/ Centreline

Koala Habitat Area

Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

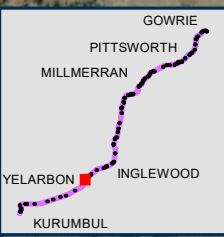
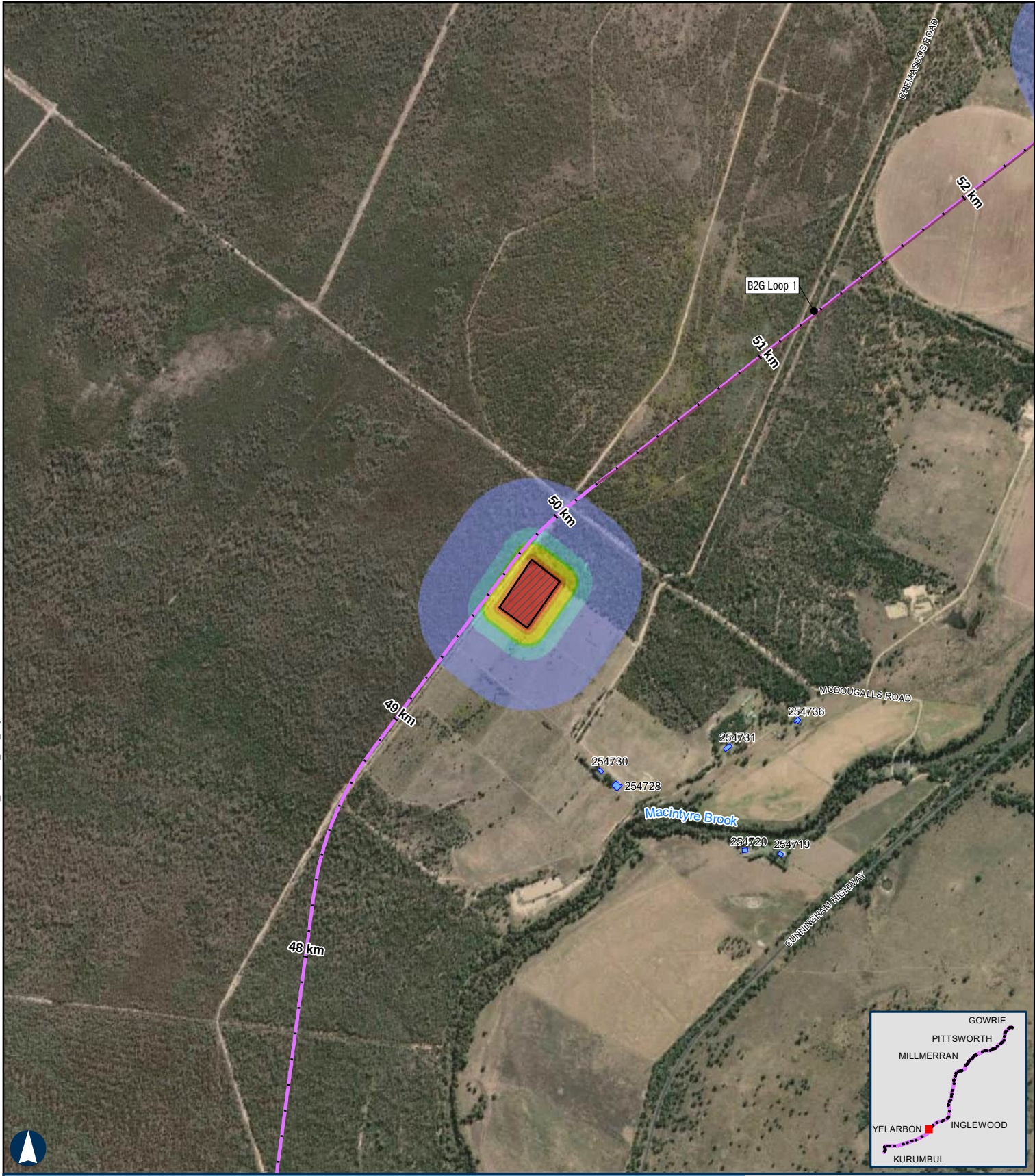
Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

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BORDER TO GOWRIE

Scenario 1 - Earthworks

APPENDIX E - MAP 11 OF 48

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:20,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/ Centreline

▨ Koala Habitat Area

▨ Work Area

Residential

Community

Educational

Commercial

Parkland

Future Developments

Sensitive Receptor Type

Safe Working Distances

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

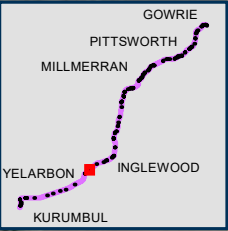
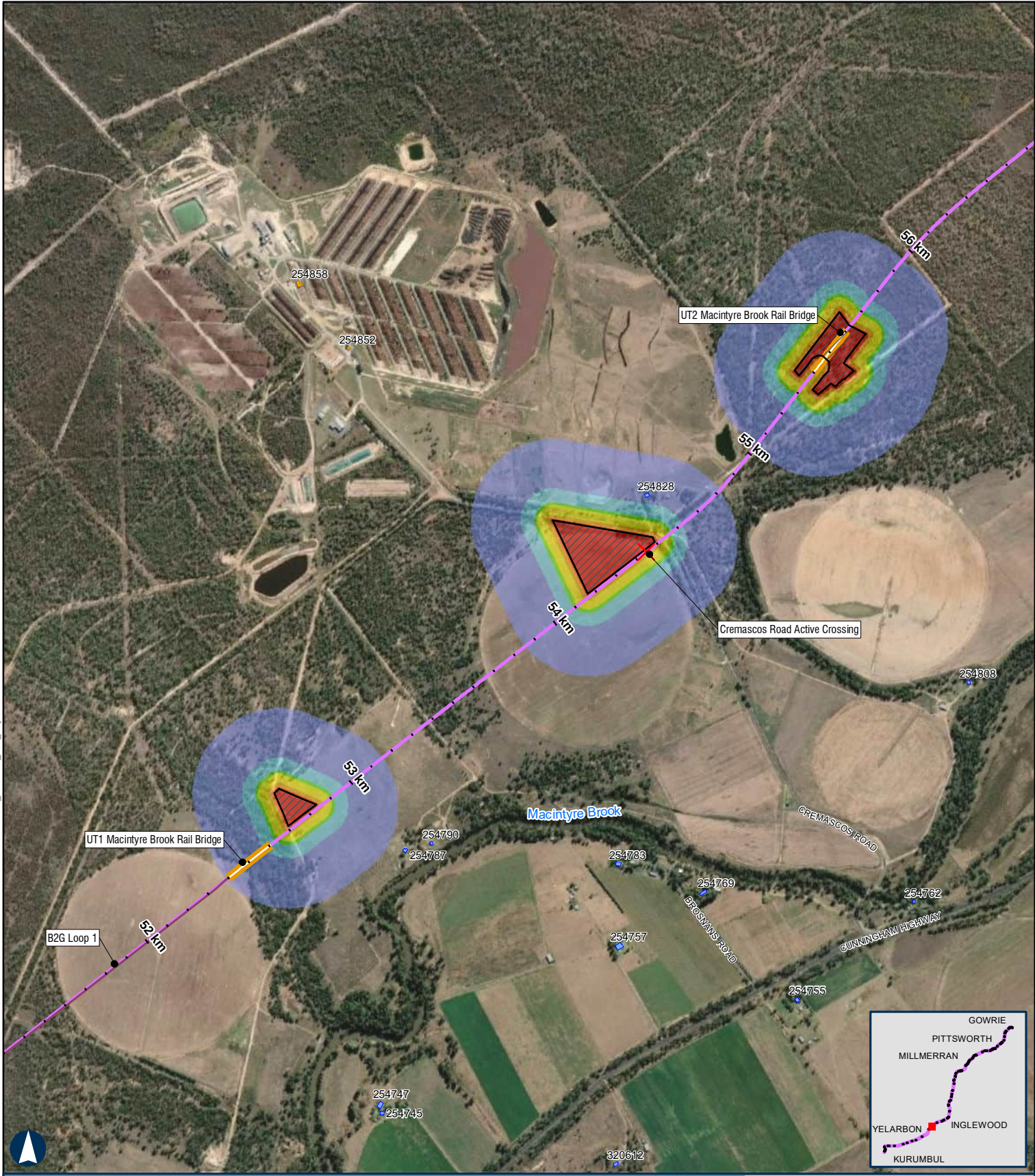
Industrial or framed commercial: 25 mm/s, 8m

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

ARTC

InlandRail

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BORDER TO GOWRIE Scenario 1 - Earthworks

APPENDIX E - MAP 12 OF 48

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:20,000

Level Crossings

Flying Fox Camp

Project Extent

Crossing Loops

Bridges and Viaducts

Rail Alignment/ Centreline

Koala Habitat Area

Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

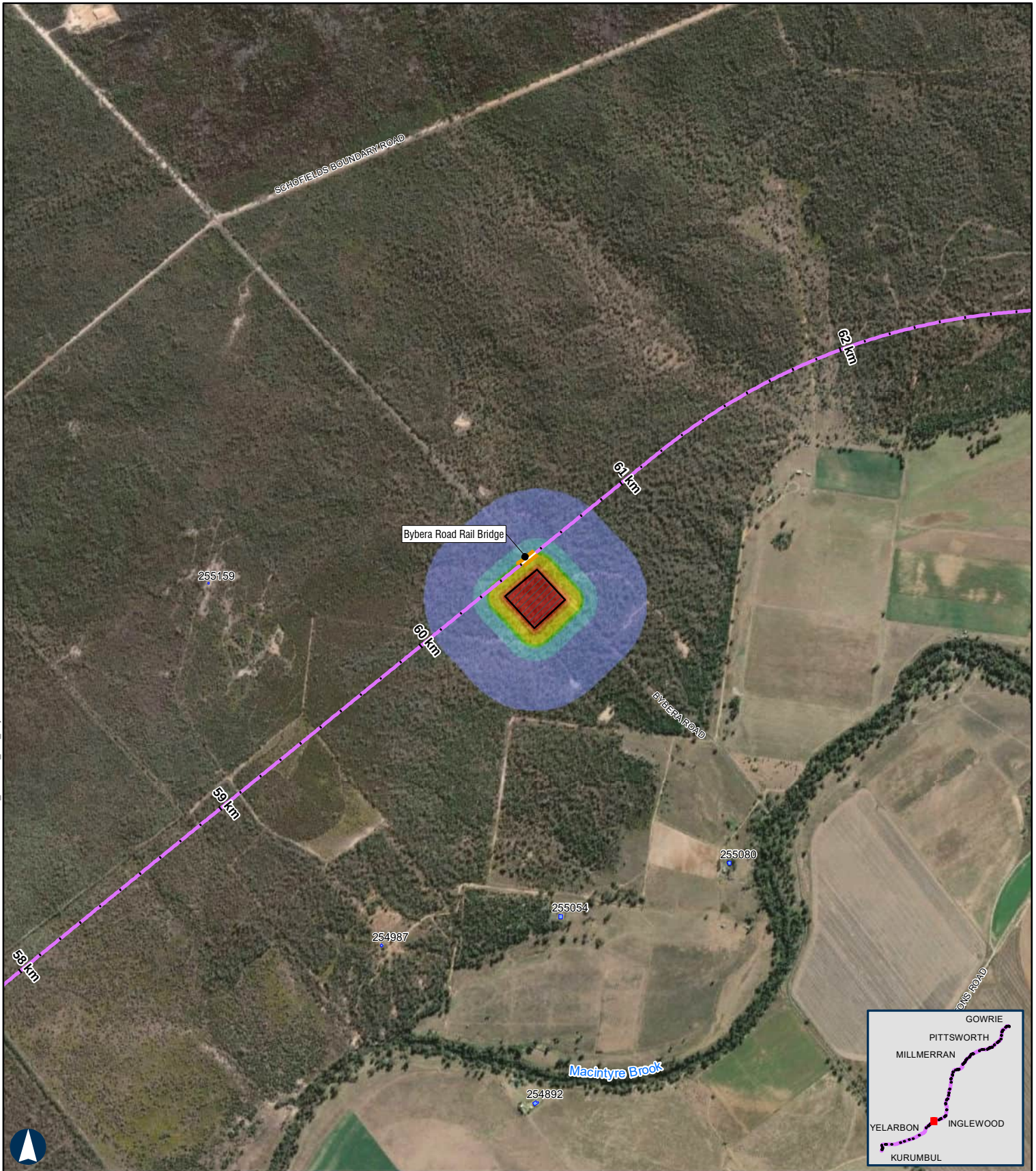
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

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BORDER TO GOWRIE Scenario 1 - Earthworks

APPENDIX E - MAP 13 OF 48

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 15-Nov-2024
Author: JG

Scale: 1:20,000

✕ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

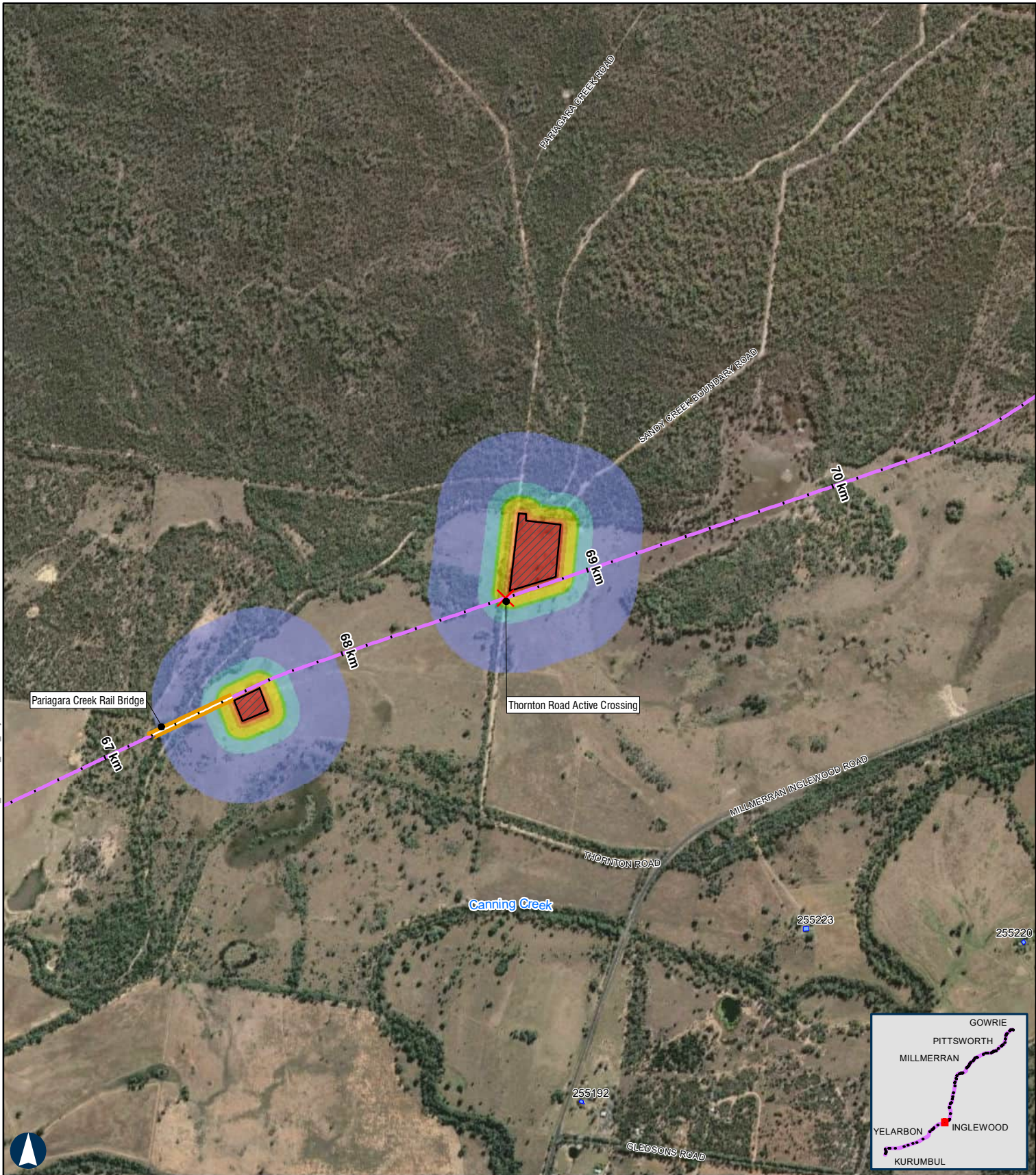
Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC **InlandRail**

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BORDER TO GOWRIE Scenario 1 - Earthworks

APPENDIX E - MAP 15 OF 48

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:20,000

✕ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distances

Human comfort – non-

standards hours lower

limit: 0.3 mm/s, 316m

Human comfort –
standards hours lower
limit: 1 mm/s, 124m

Human comfort –
standards hours upper
limit: 2 mm/s, 72m

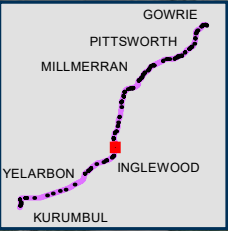
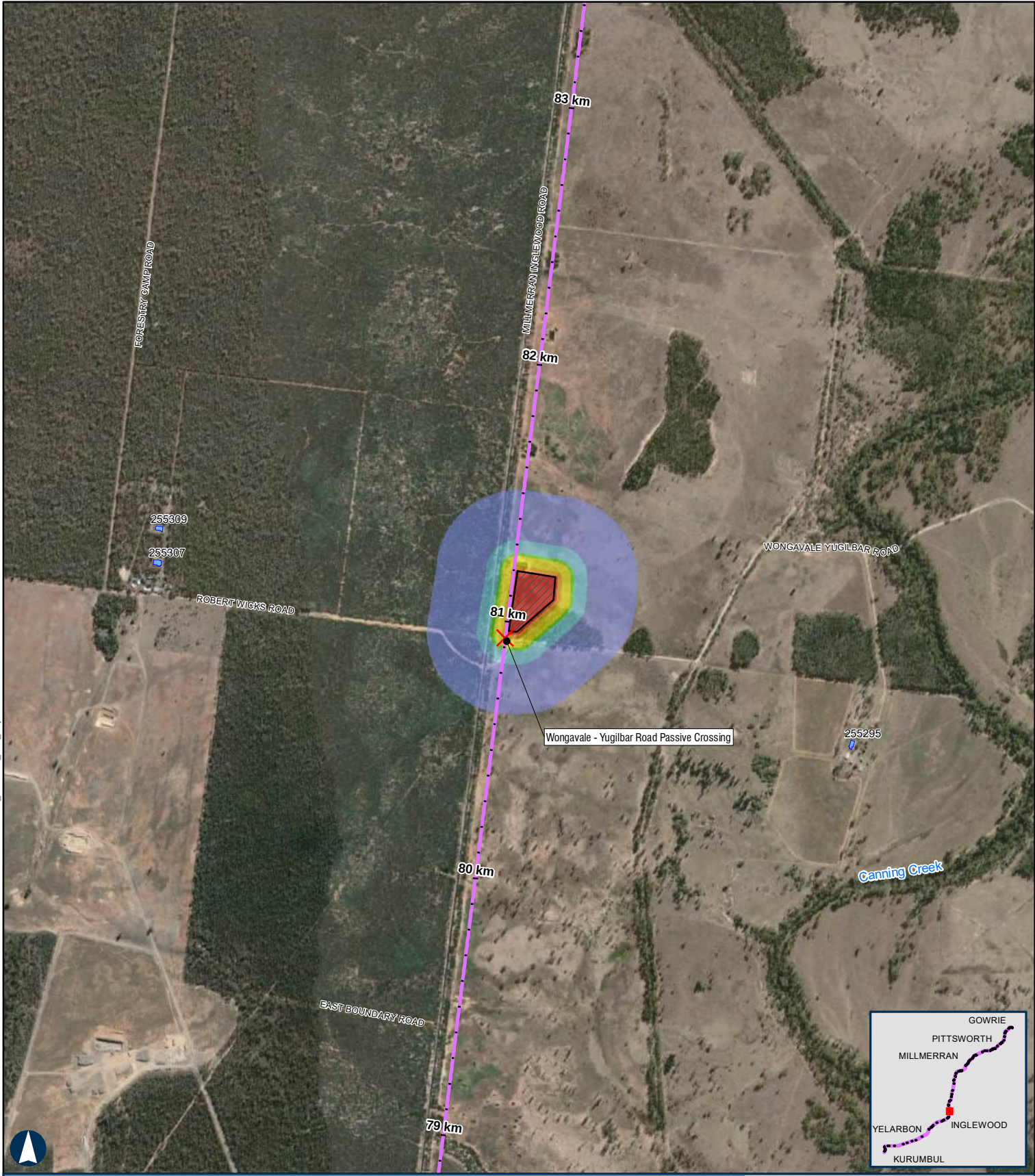
Heritage structures:
2.5 mm/s, 60m

Residential or light
framed commercial:
7.5 mm/s, 25m

Industrial or framed
commercial: 25 mm/s,
8m

ARTC InlandRail

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BORDER TO GOWRIE **Scenario 1 - Earthworks**

APPENDIX E - MAP 17 OF 48

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:20,000

Level Crossings

- ✗ Level Crossings
- Flying Fox Camp
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Koala Habitat Area
- ▨ Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Safe Working Distances

- Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

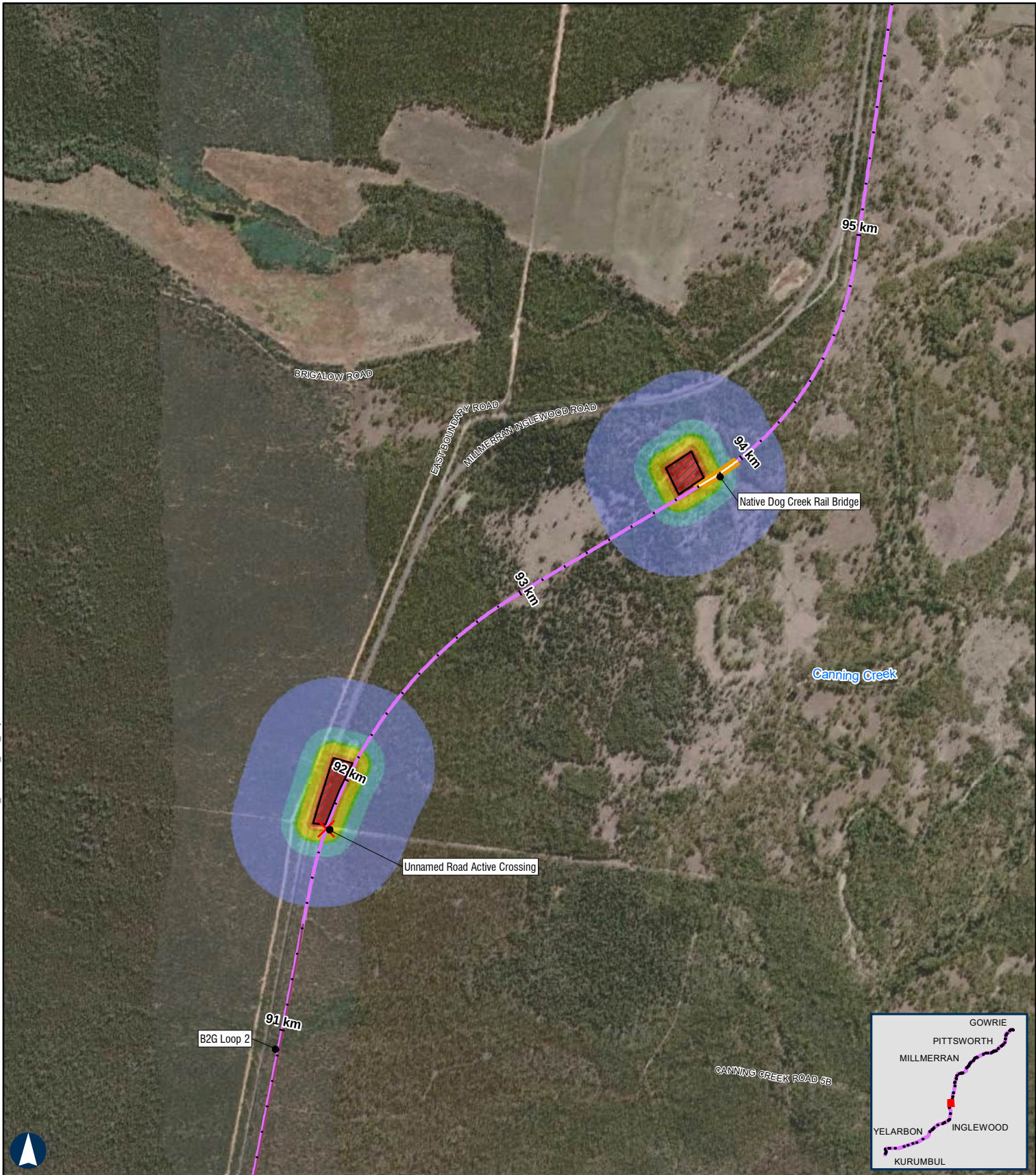
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

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BORDER TO GOWRIE Scenario 1 - Earthworks

APPENDIX E - MAP 19 OF 48

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 15-Nov-2024
Author: JG

Scale: 1:20,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▭ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

▭ Residential

▭ Community

▭ Educational

▭ Commercial

▭ Parkland

▭ Future Developments

Safe Working Distances
Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

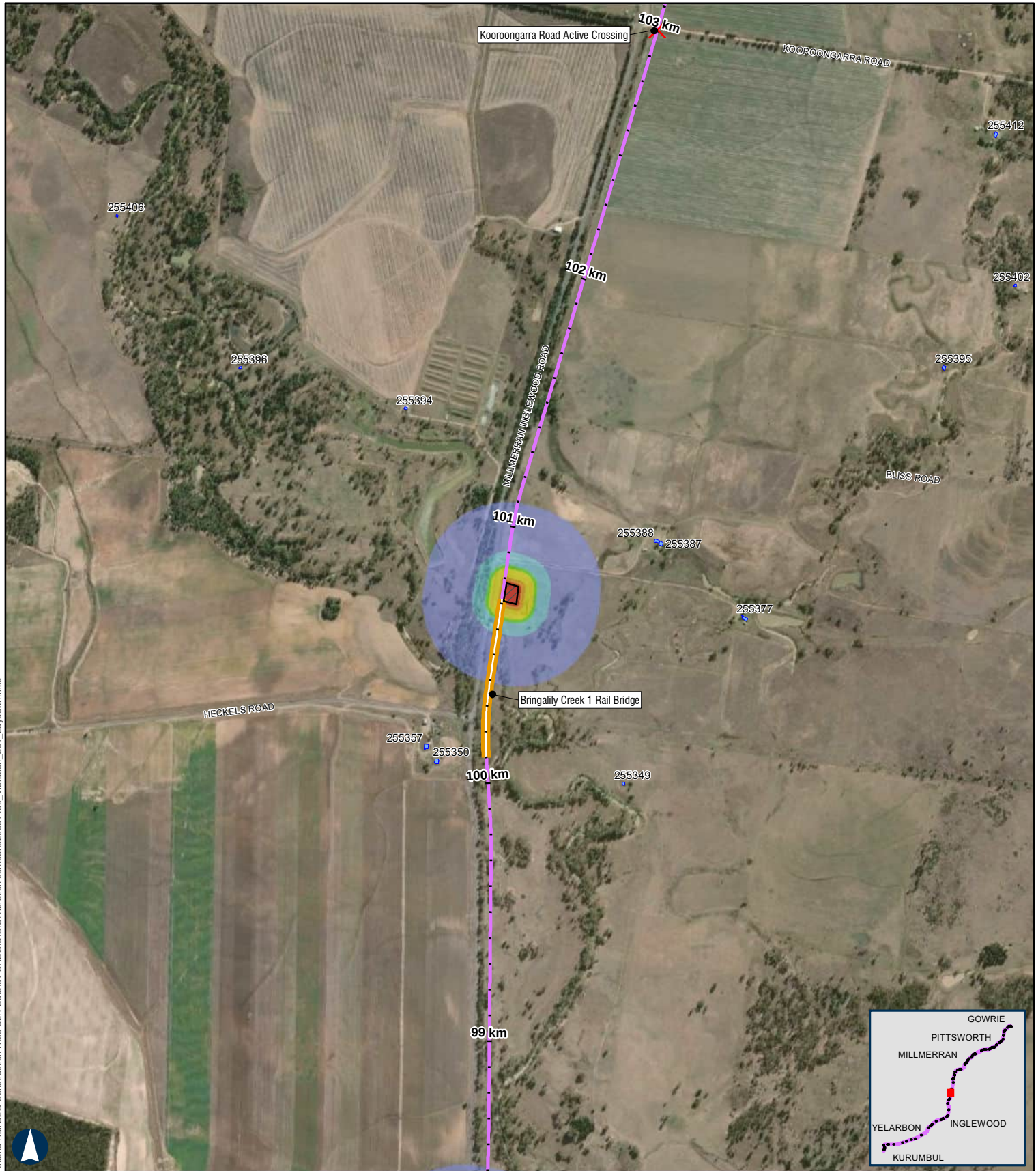
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC InlandRail

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BORDER TO GOWRIE Scenario 1 - Earthworks

APPENDIX E - MAP 21 OF 48

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:20,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

□ Future Developments

Safe Working Distances

Human comfort – non-

standards hours lower

limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

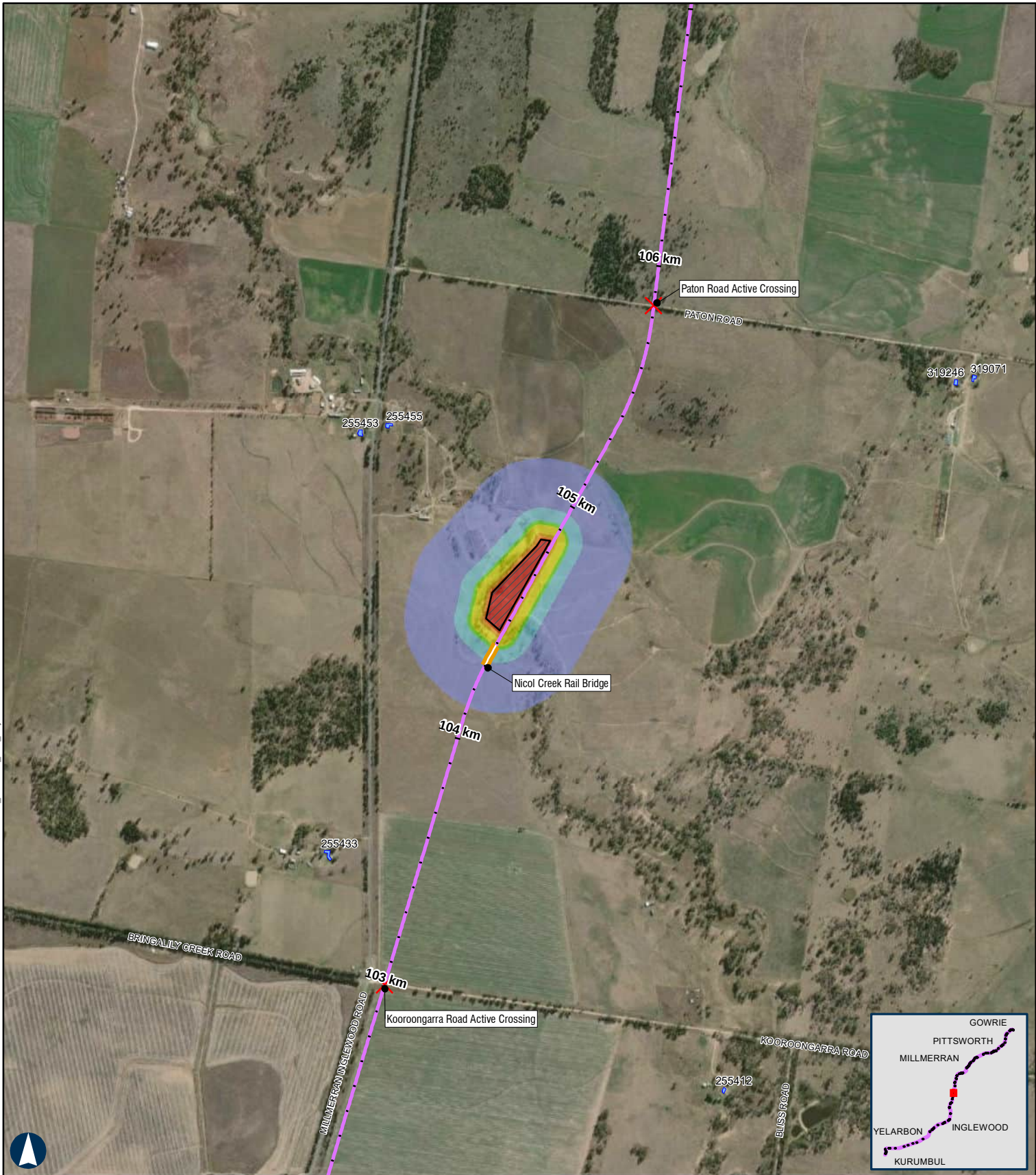
Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC **InlandRail**

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BORDER TO GOWRIE Scenario 1 - Earthworks

APPENDIX E - MAP 22 OF 48

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:20,000

✕ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▭ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

□ Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

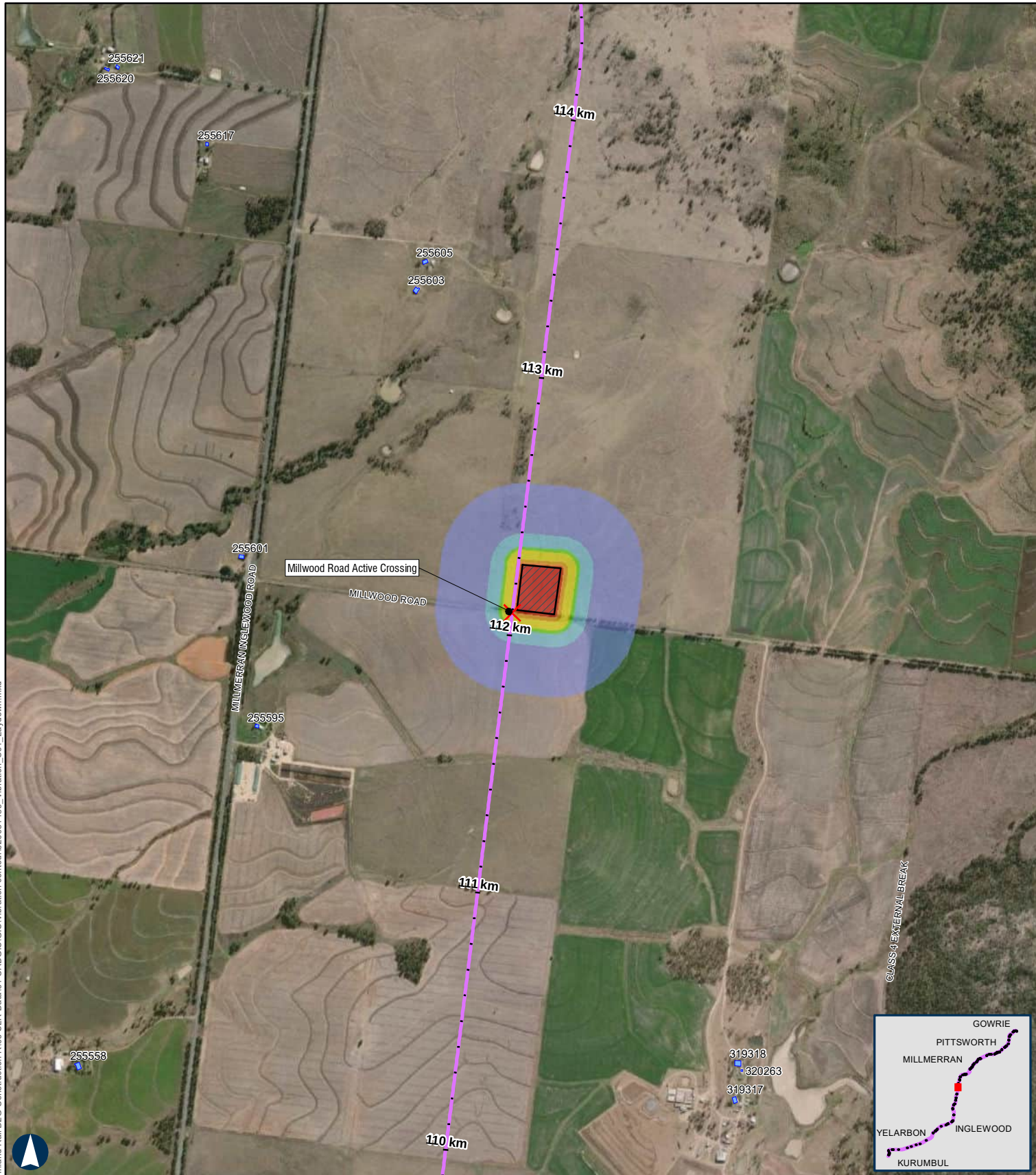
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC **InlandRail**

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BORDER TO GOWRIE Scenario 1 - Earthworks

APPENDIX E - MAP 23 OF 48

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4

Scale: 1:20,000

Date: 15-Nov-2024

Author: JG

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

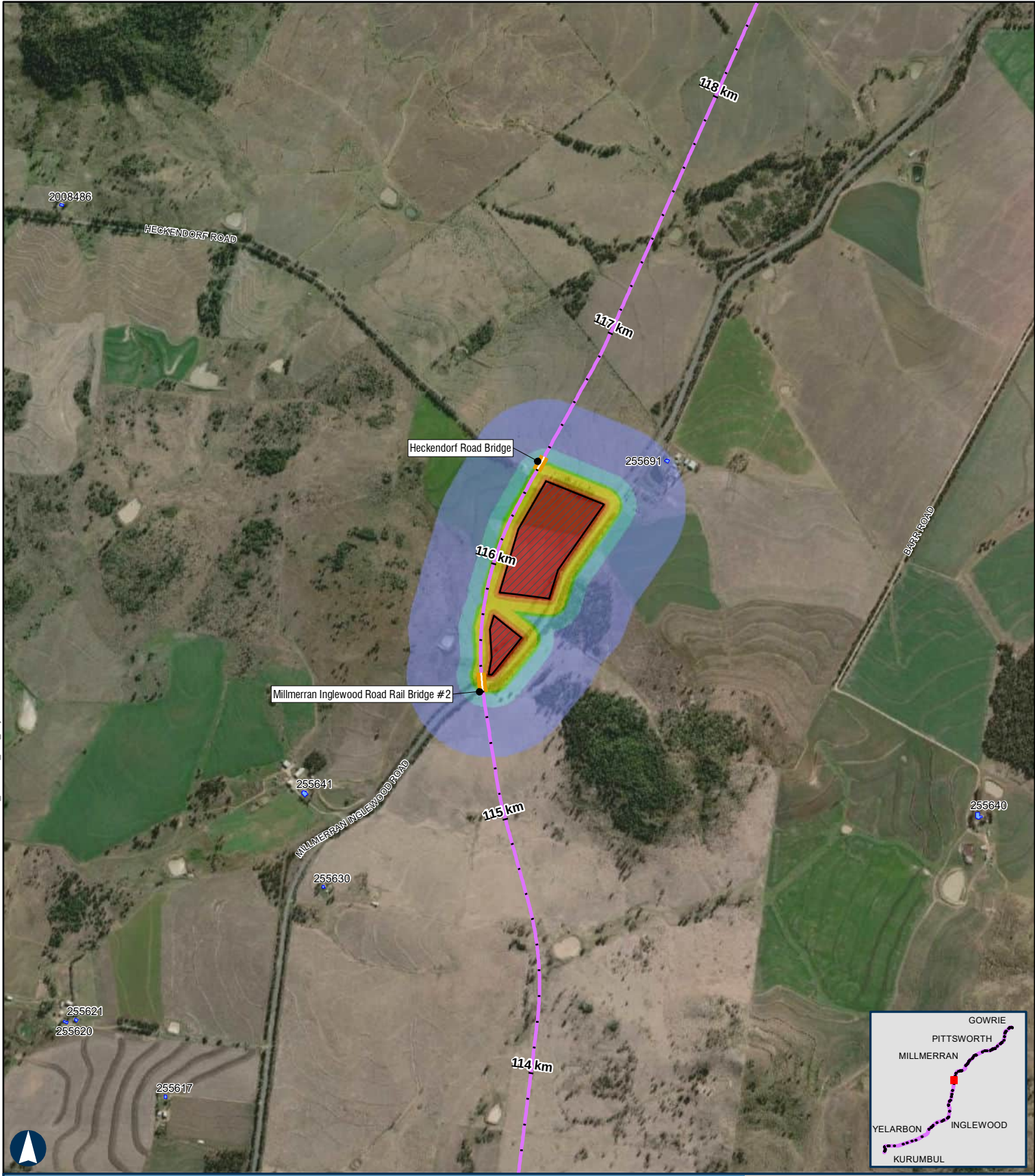
Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m



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BORDER TO GOWRIE **Scenario 1 - Earthworks**

APPENDIX E - MAP 24 OF 48

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:20,000
Date: 15-Nov-2024
Author: JG

- ✗ Level Crossings
- Flying Fox Camp
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Koala Habitat Area
- ▨ Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

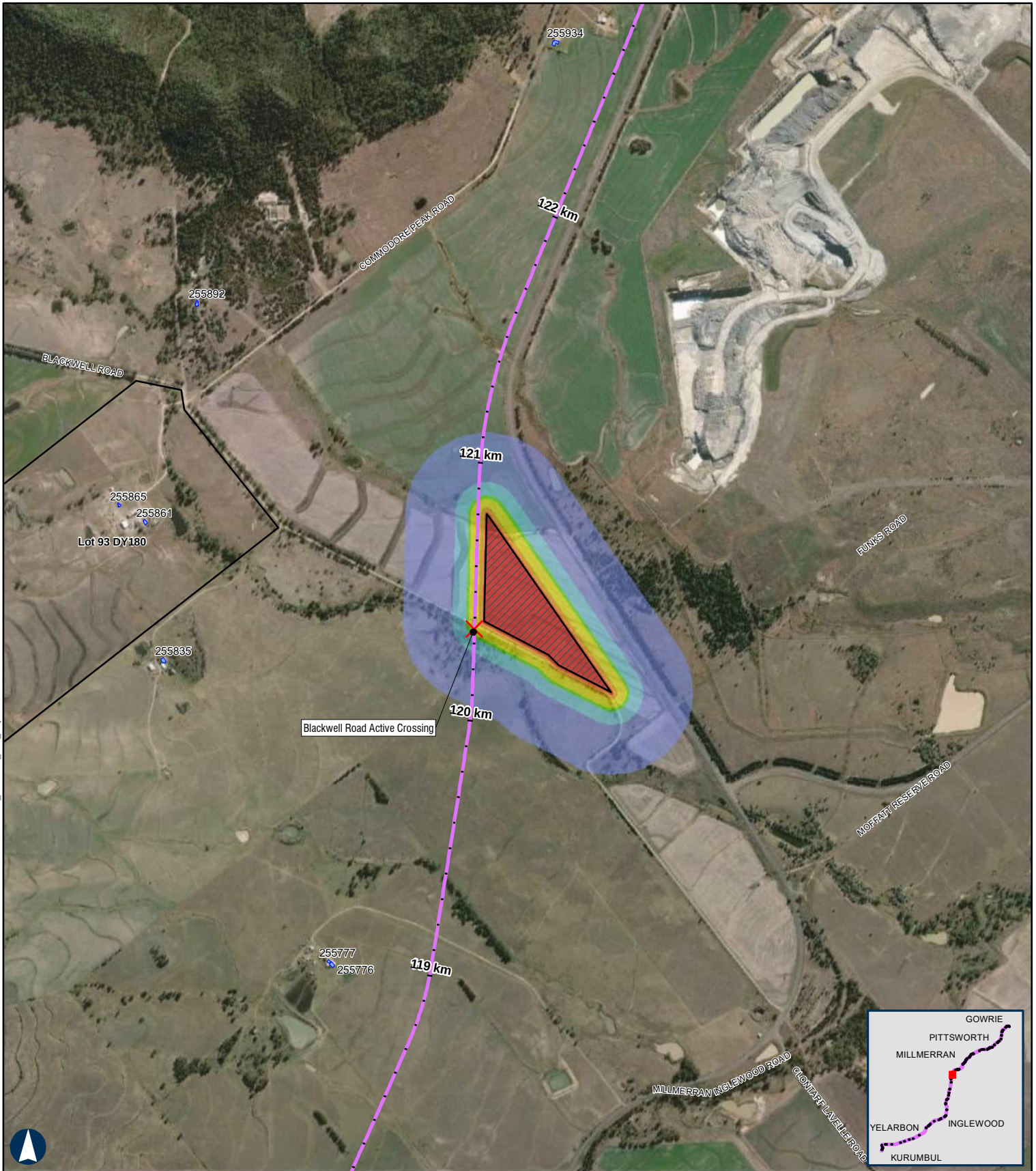
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m



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BORDER TO GOWRIE Scenario 1 - Earthworks

APPENDIX E - MAP 25 OF 48

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:20,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

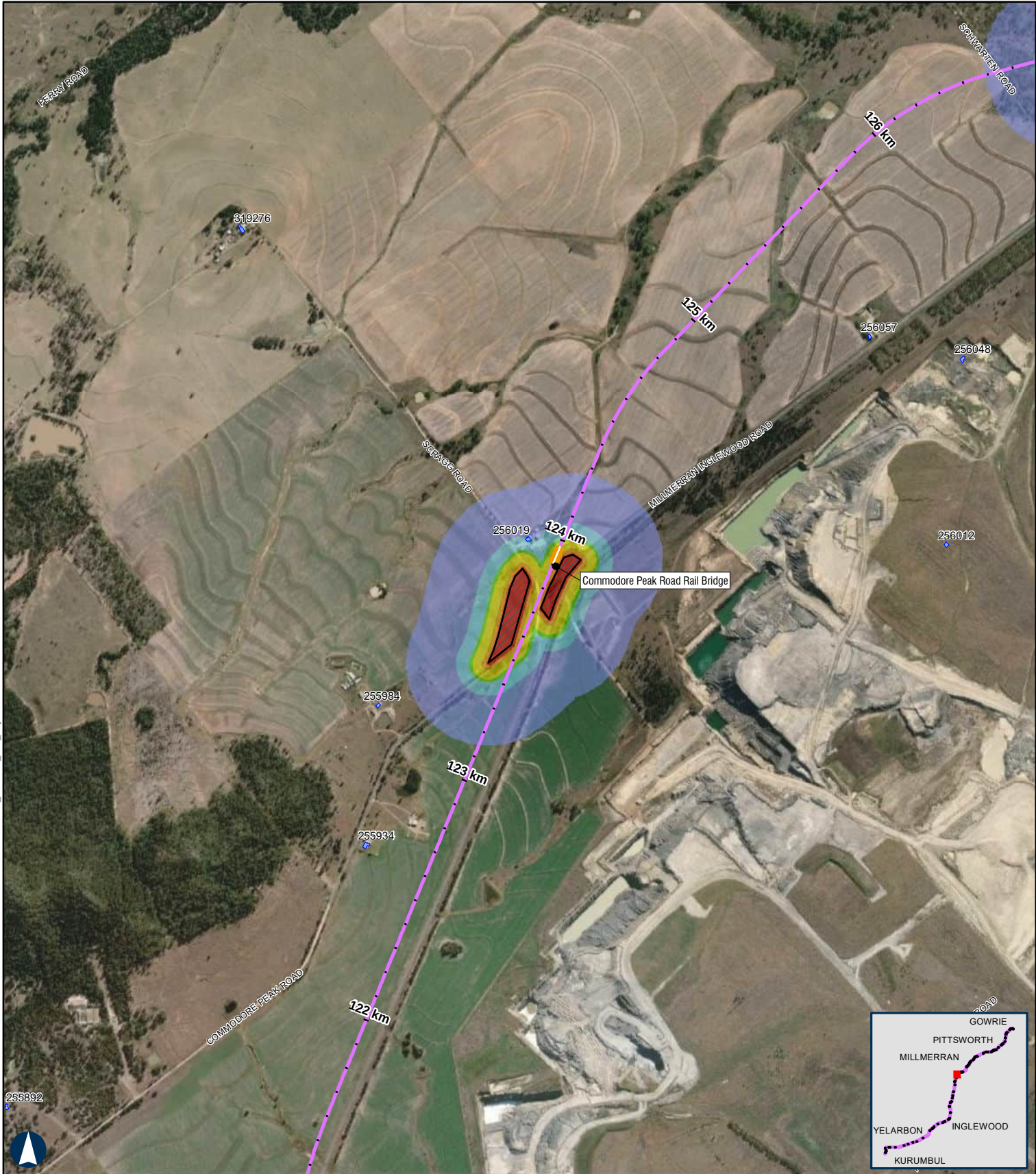
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC **InlandRail**

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BORDER TO GOWRIE Scenario 1 - Earthworks

APPENDIX E - MAP 26 OF 48

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:20,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

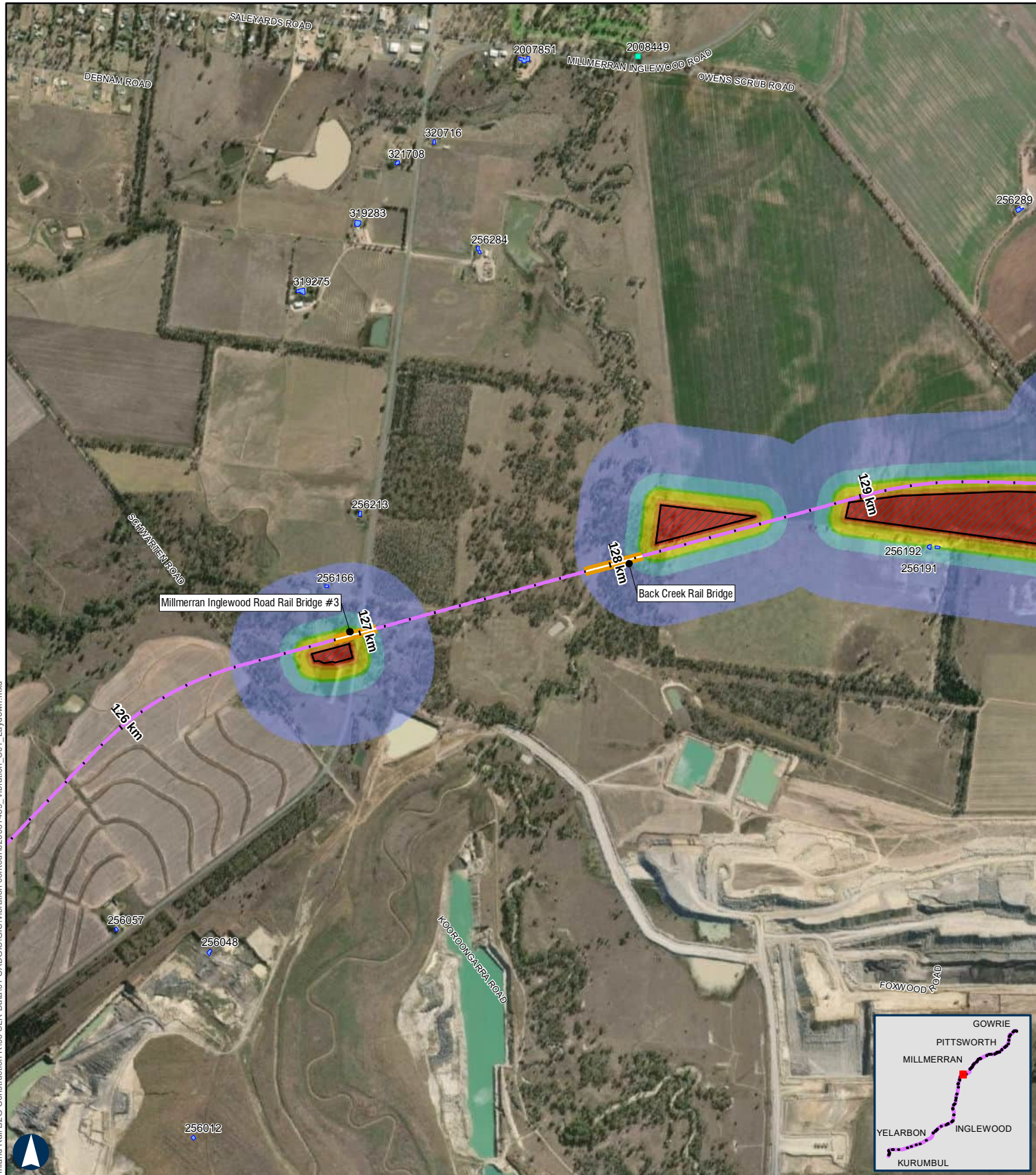
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC InlandRail

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BORDER TO GOWRIE Scenario 1 - Earthworks

APPENDIX E - MAP 27 OF 48

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:20,000

✕ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

— Koala Habitat Area

— Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

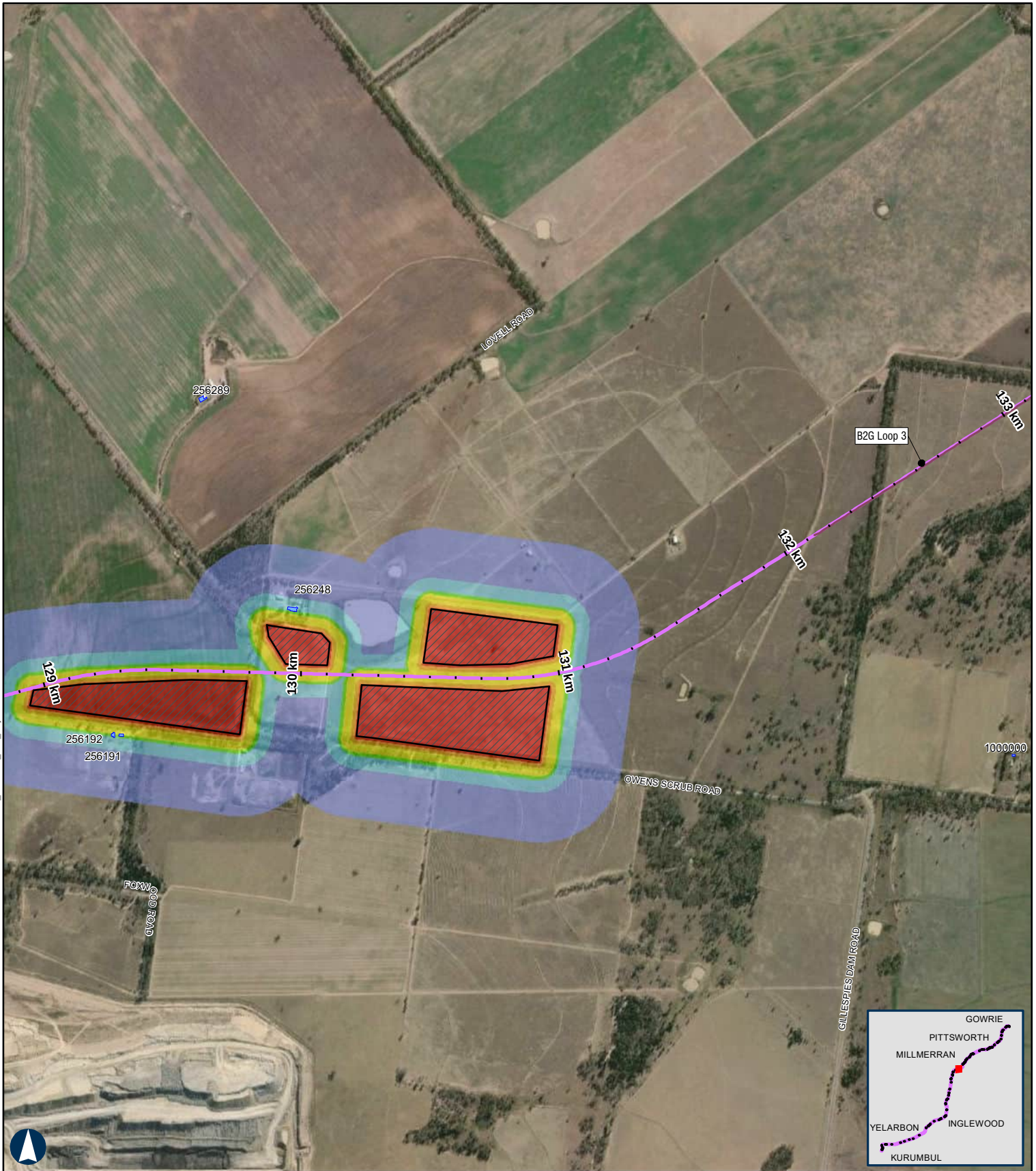
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC InlandRail

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BORDER TO GOWRIE Scenario 1 - Earthworks

APPENDIX E - MAP 28 OF 48

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 15-Nov-2024
Author: JG

Scale: 1:20,000

✕ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

— Koala Habitat Area

— Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

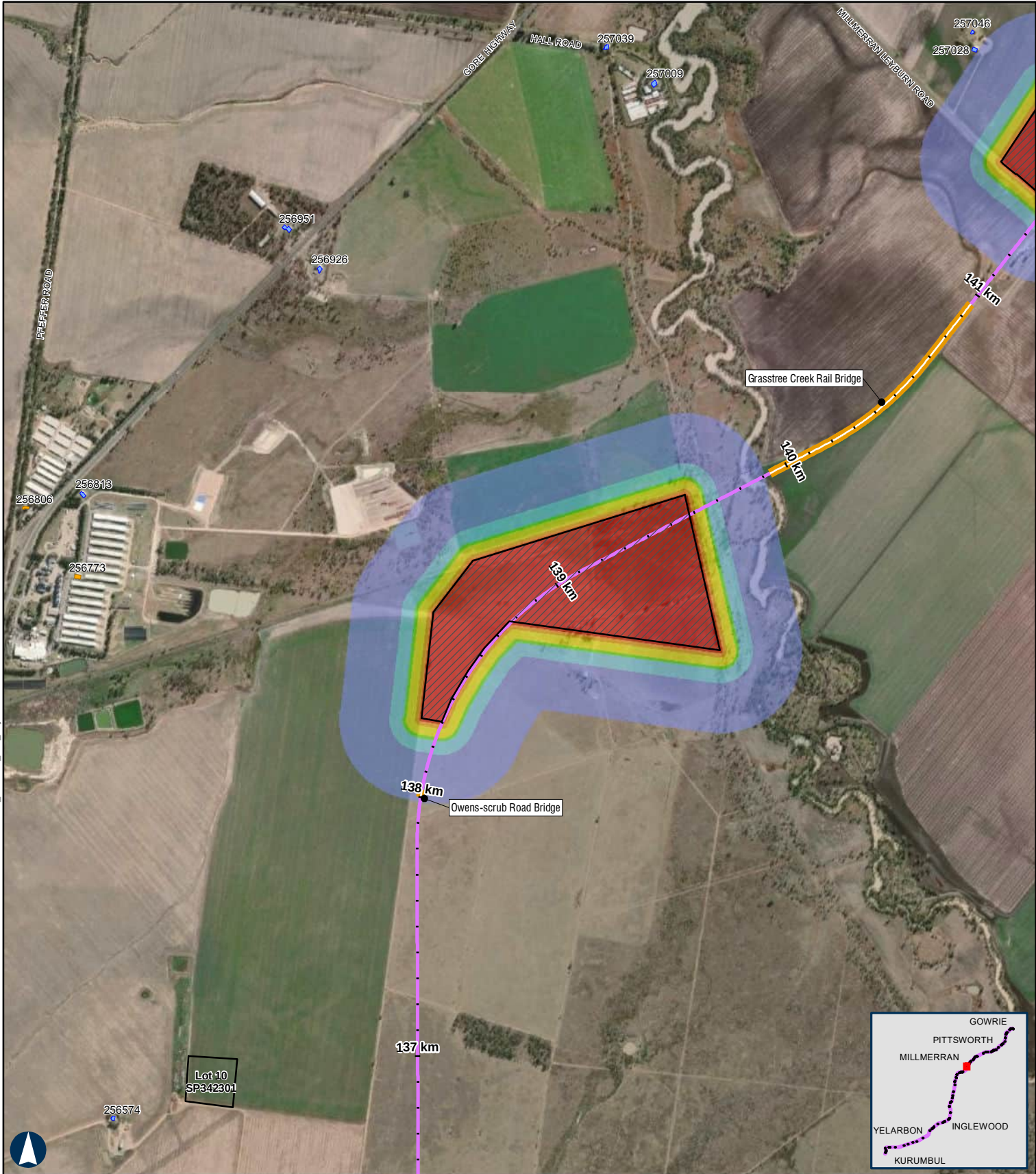
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC InlandRail

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BORDER TO GOWRIE Scenario 1 - Earthworks

APPENDIX E - MAP 29 OF 48

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:20,000

✕ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/ Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

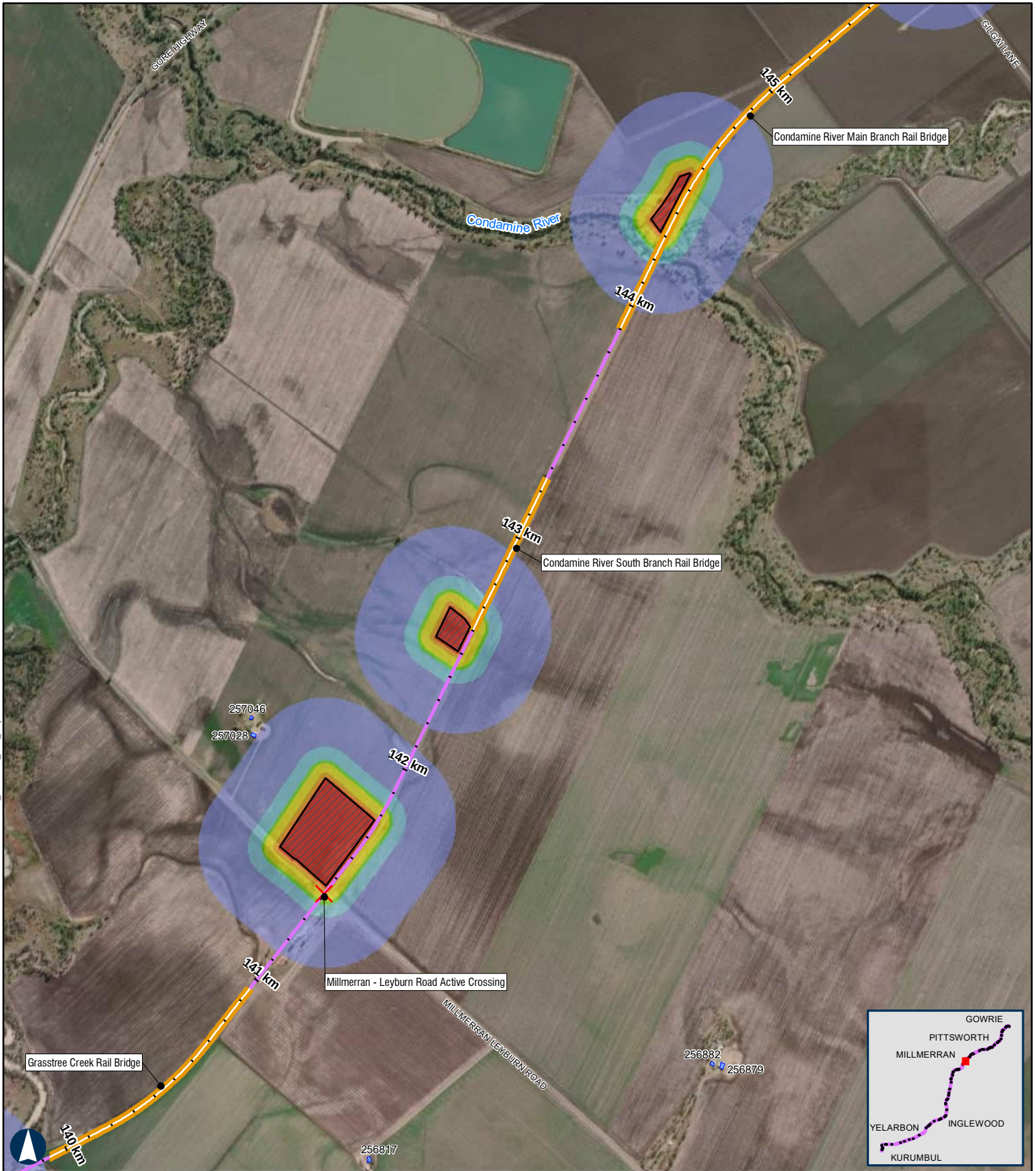
Industrial or framed commercial: 25 mm/s, 8m

ARTC

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InlandRail

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BORDER TO GOWRIE Scenario 1 - Earthworks

APPENDIX E - MAP 30 OF 48

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:20,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

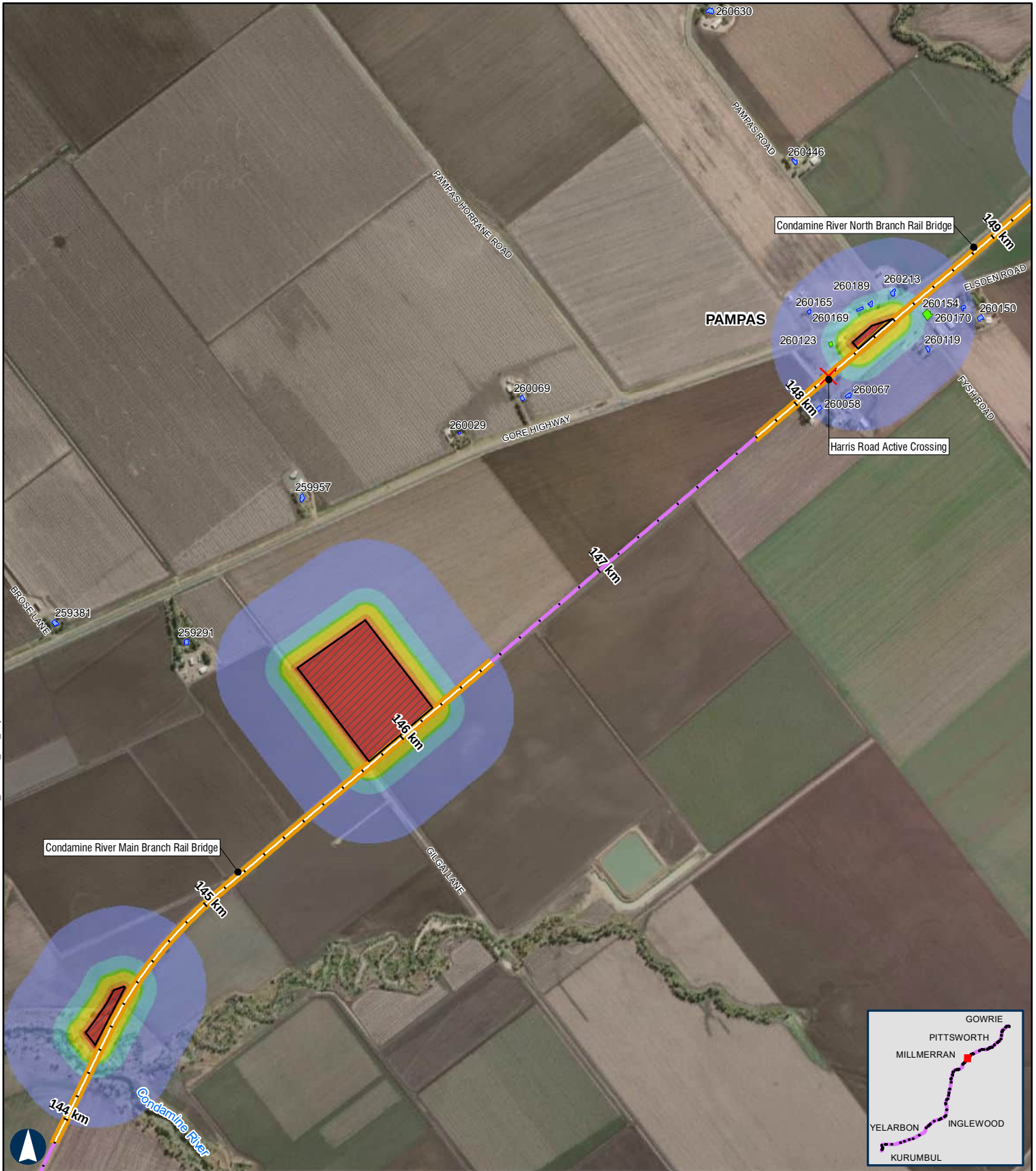
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC InlandRail

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BORDER TO GOWRIE Scenario 1 - Earthworks

APPENDIX E - MAP 31 OF 48

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:20,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▭ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland

□ Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

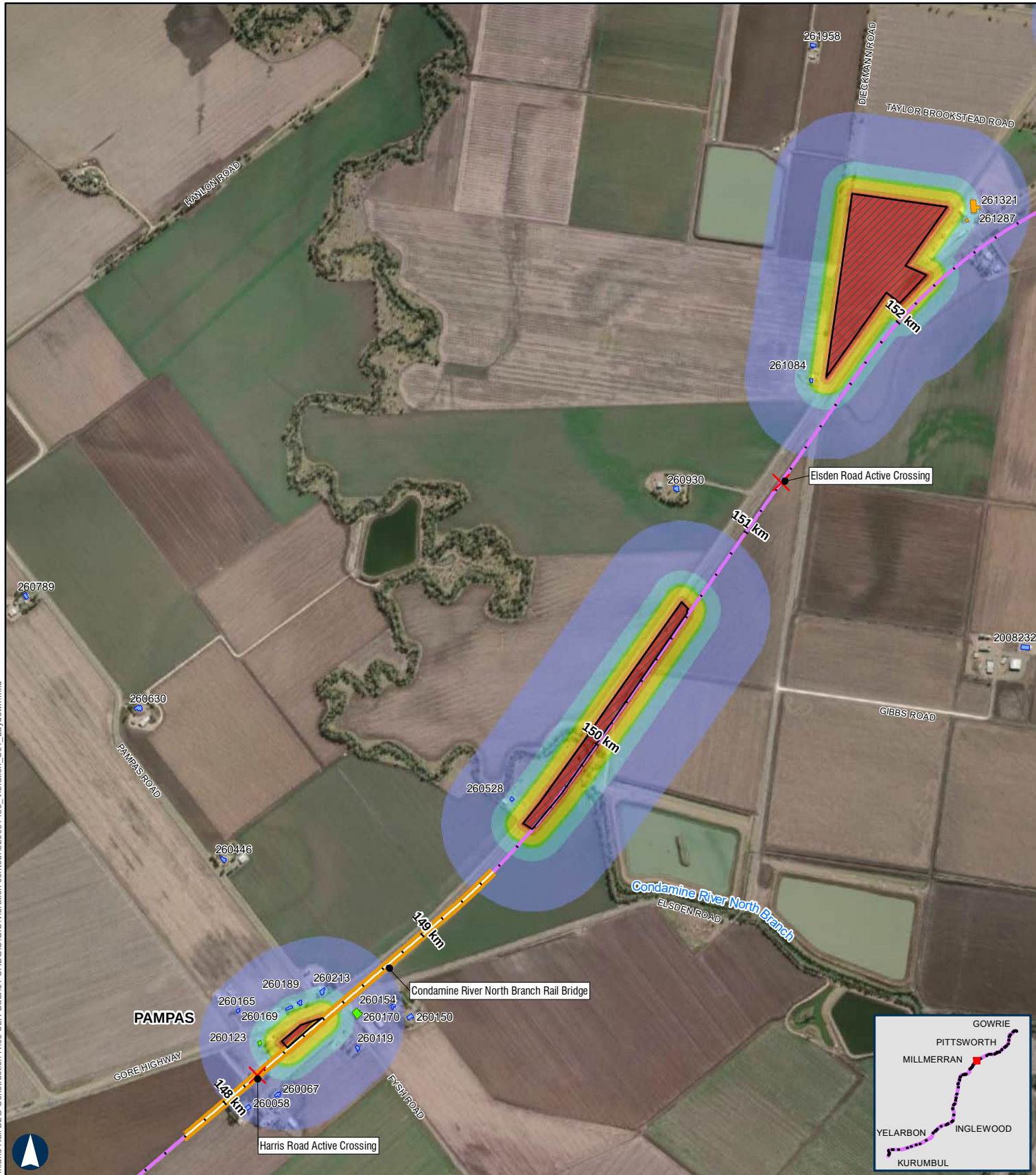
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m



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BORDER TO GOWRIE Scenario 1 - Earthworks

APPENDIX E - MAP 32 OF 48

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 15-Nov-2024
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✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC **InlandRail**

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BORDER TO GOWRIE Scenario 1 - Earthworks

APPENDIX E - MAP 33 OF 48

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 15-Nov-2024
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✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/ Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

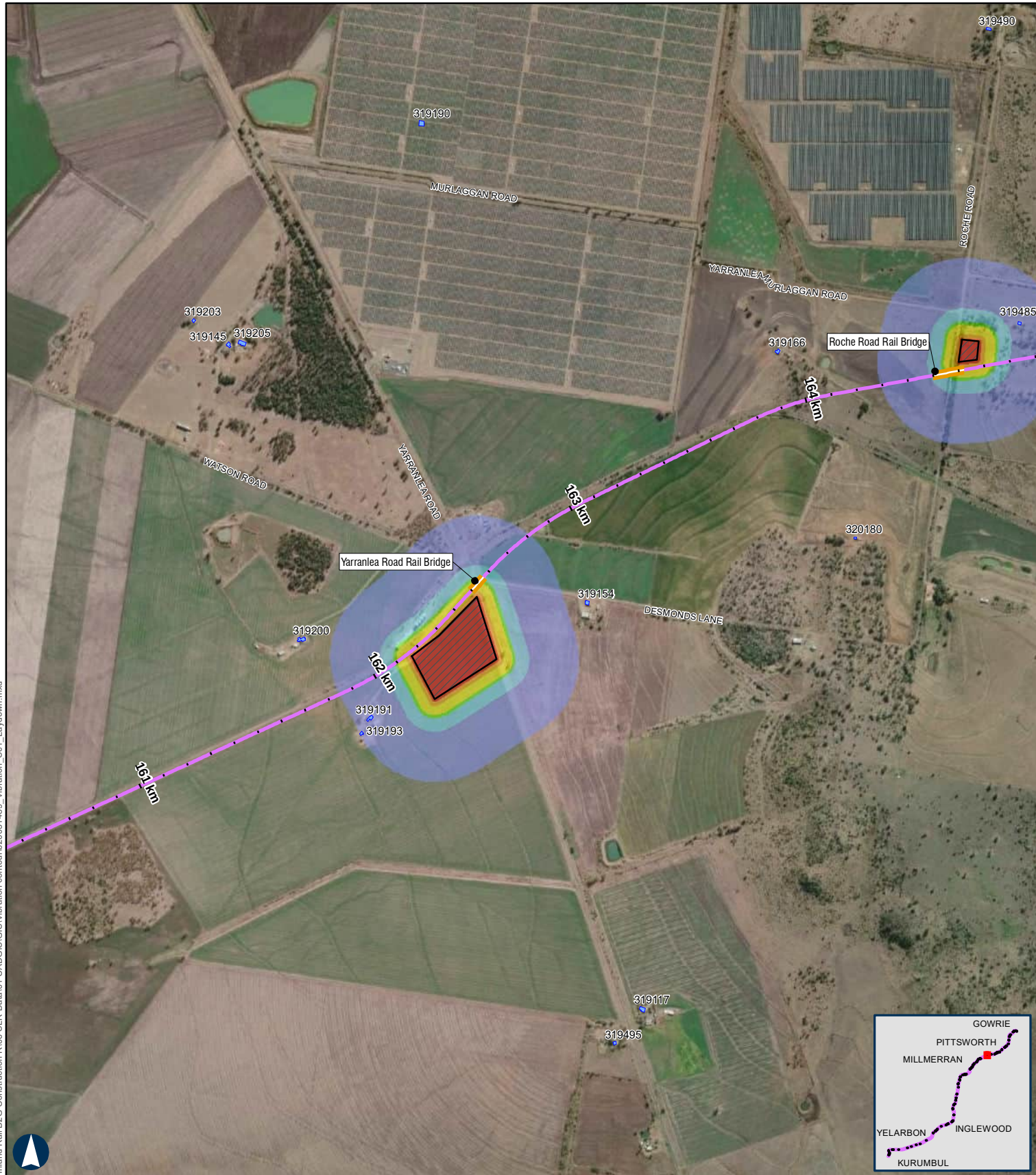
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

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BORDER TO GOWRIE Scenario 1 - Earthworks

APPENDIX E - MAP 35 OF 48

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:20,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

— Koala Habitat Area

— Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

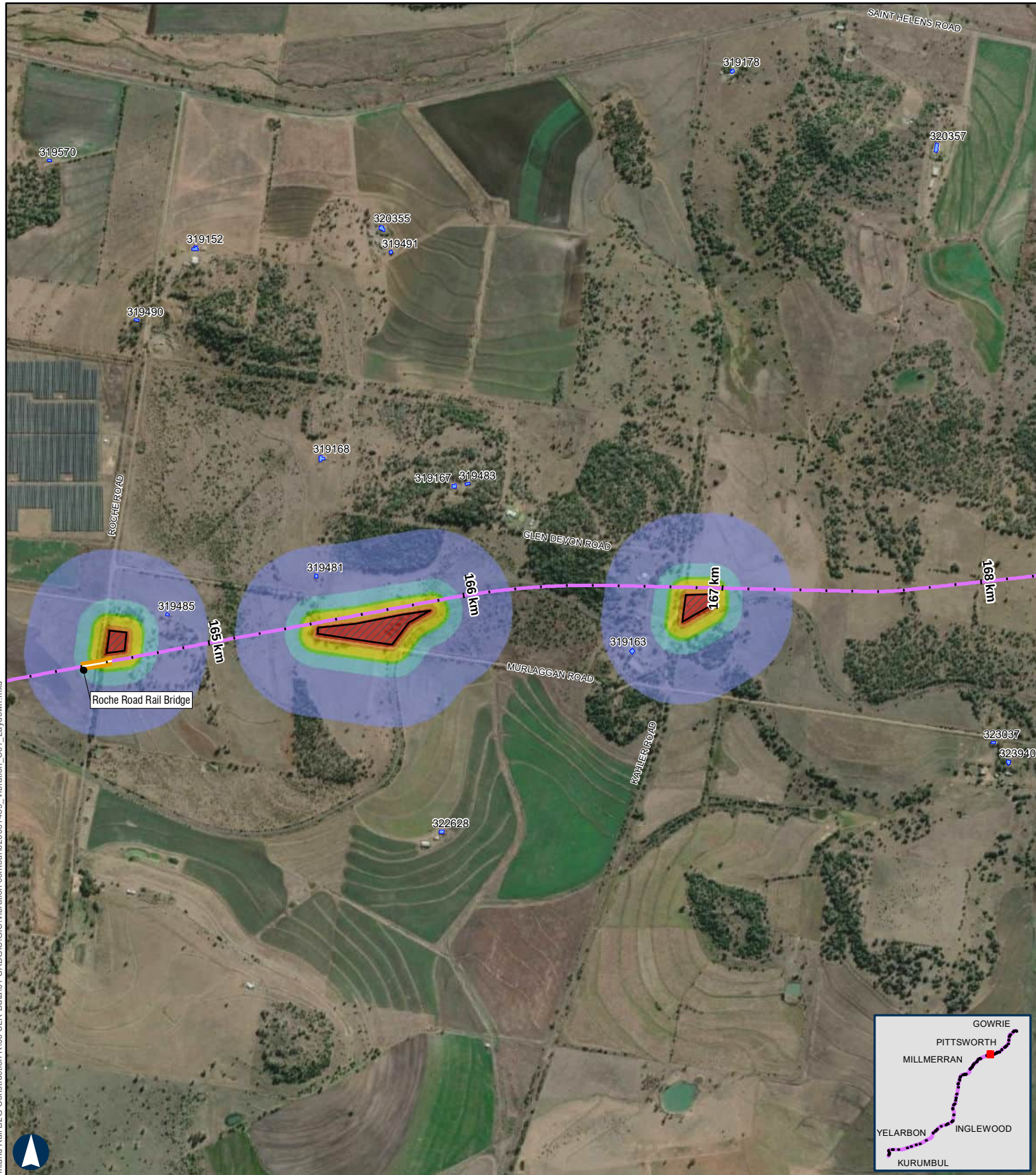
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC InlandRail

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BORDER TO GOWRIE Scenario 1 - Earthworks

APPENDIX E - MAP 36 OF 48

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:20,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

— Koala Habitat Area

— Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

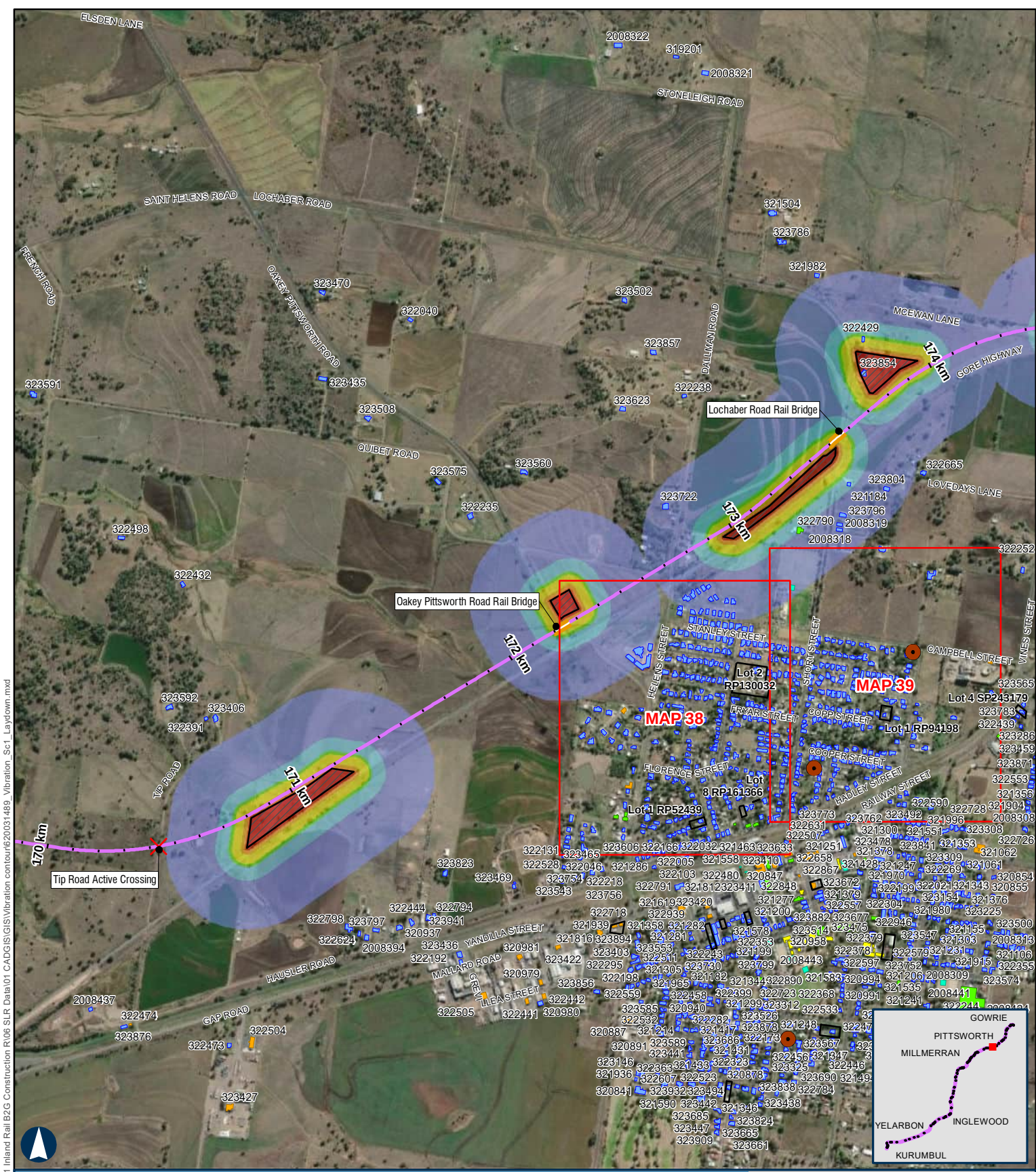
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC **InlandRail**

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BORDER TO GOWRIE Scenario 1 - Earthworks

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:20,000

- ✗ Level Crossings
- Flying Fox Camp
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Koala Habitat Area
- Work Area

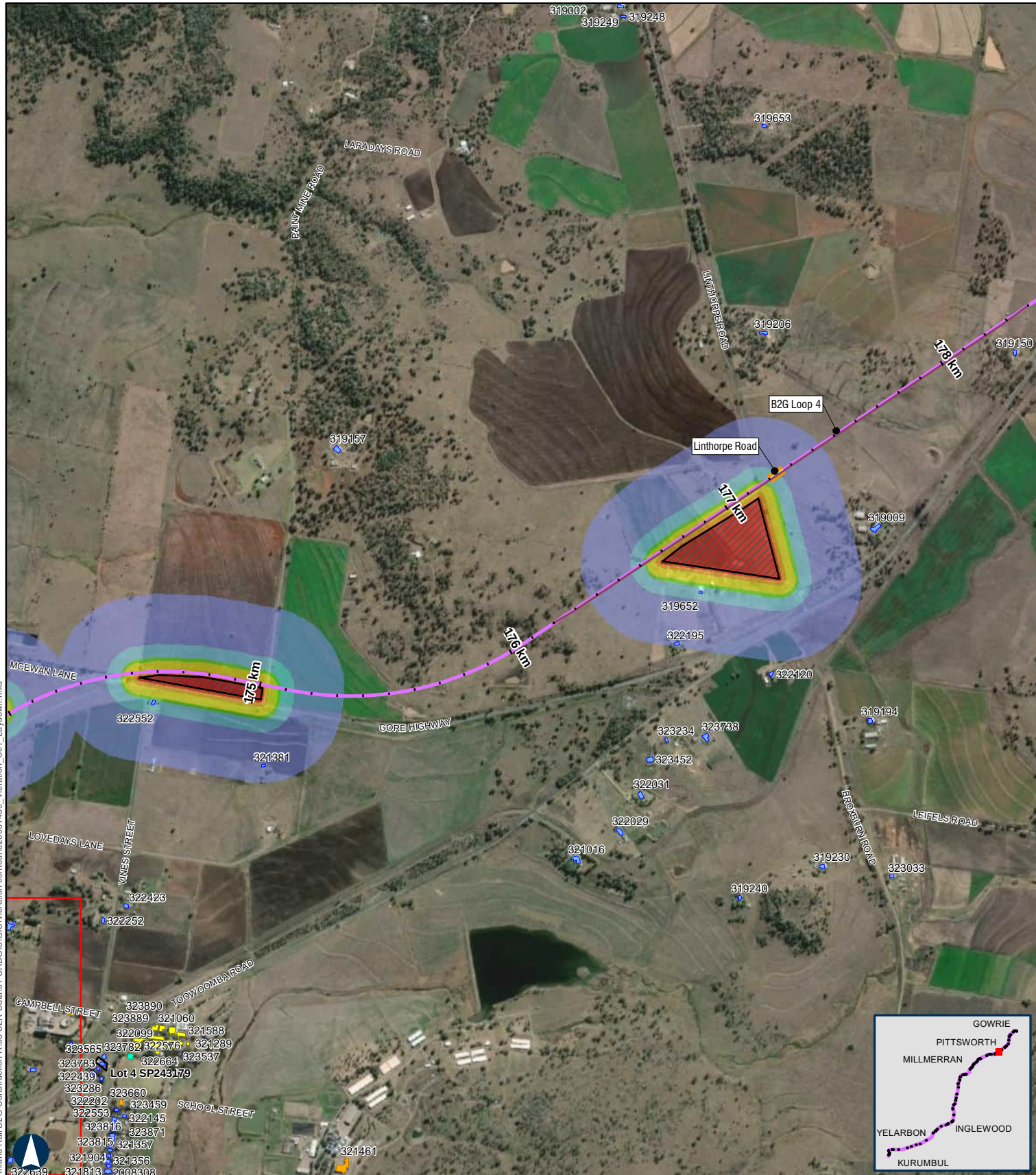
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments
- Safe Working Distances**
- Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

- Human comfort – standards hours lower limit: 1 mm/s, 124m
- Human comfort – standards hours upper limit: 2 mm/s, 72m
- Heritage structures: 2.5 mm/s, 60m
- Residential or light framed commercial: 7.5 mm/s, 25m
- Industrial or framed commercial: 25 mm/s, 8m

APPENDIX E - MAP 37 OF 48



The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation, in partnership with the private sector.



BORDER TO GOWRIE Scenario 1 - Earthworks

APPENDIX E - MAP 40 OF 48

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:20,000
Date: 15-Nov-2024
Author: JG

- ✗ Level Crossings
- Flying Fox Camp
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Koala Habitat Area
- ▨ Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

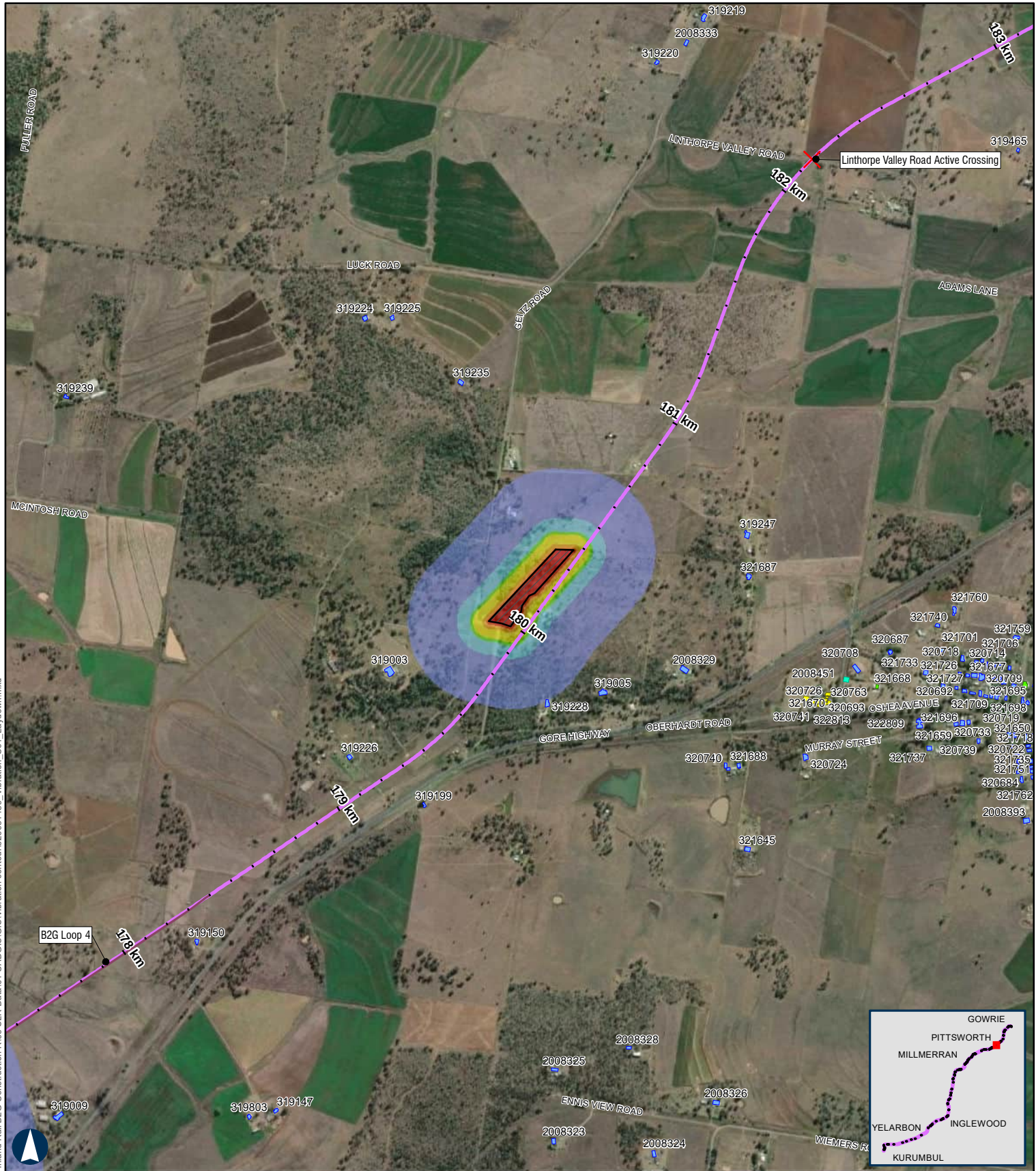
Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

- Human comfort – standards hours lower limit: 1 mm/s, 124m
- Human comfort – standards hours upper limit: 2 mm/s, 72m
- Heritage structures: 2.5 mm/s, 60m
- Residential or light framed commercial: 7.5 mm/s, 25m
- Industrial or framed commercial: 25 mm/s, 8m



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BORDER TO GOWRIE Scenario 1 - Earthworks

APPENDIX E - MAP 41 OF 48

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:20,000

✕ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distances

Human comfort – non-

standards hours lower

limit: 0.3 mm/s, 316m

Human comfort –
standards hours lower
limit: 1 mm/s, 124m

Human comfort –
standards hours upper
limit: 2 mm/s, 72m

Heritage structures:
2.5 mm/s, 60m

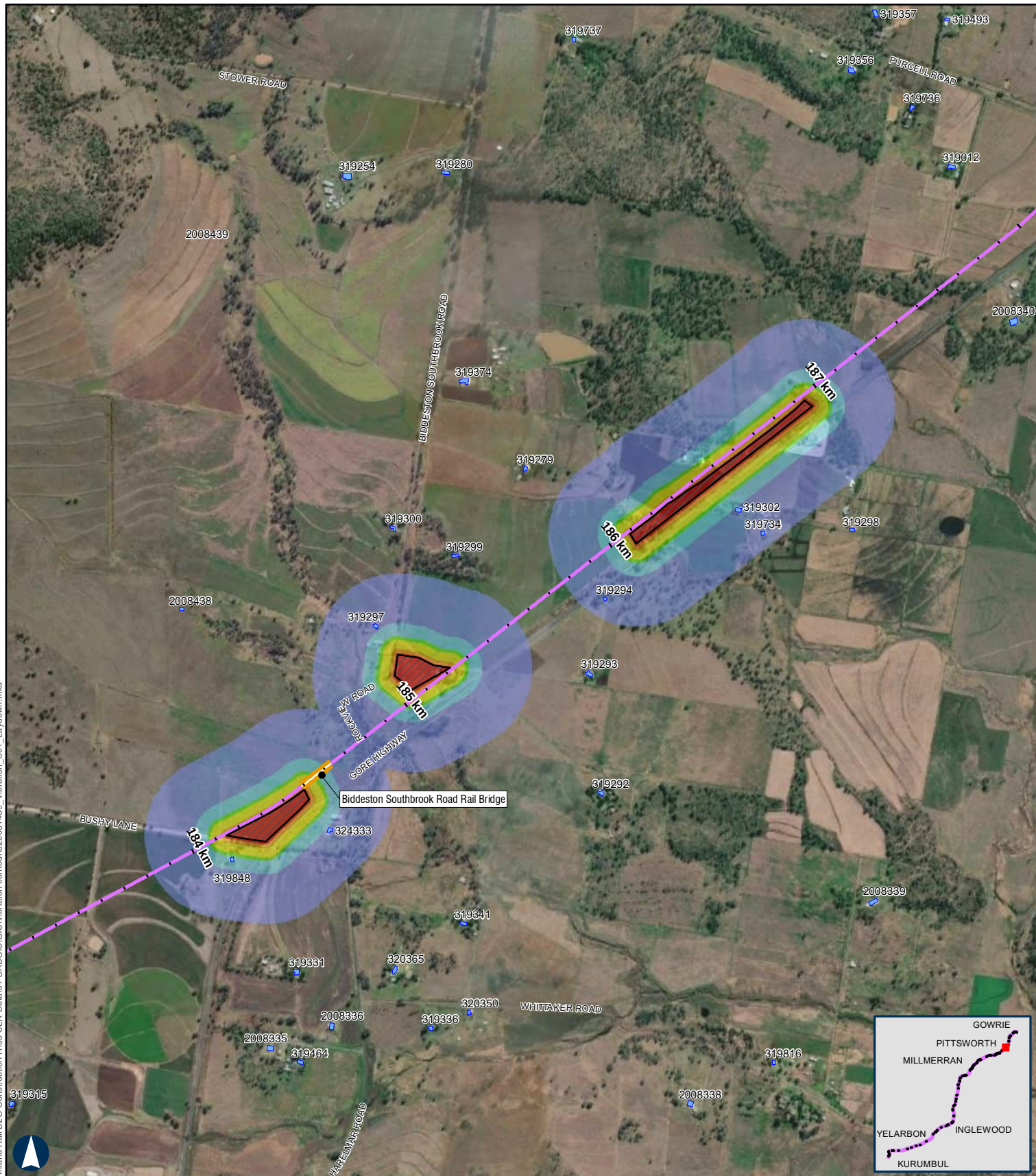
Residential or light
framed commercial:
7.5 mm/s, 25m

Industrial or framed
commercial: 25 mm/s,
8m



ARTC **InlandRail**

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BORDER TO GOWRIE Scenario 1 - Earthworks

APPENDIX E - MAP 42 OF 48

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:20,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distances

Human comfort – non-

standards hours lower

limit: 0.3 mm/s, 316m

Human comfort –

standards hours lower

limit: 1 mm/s, 124m

Human comfort –

standards hours upper

limit: 2 mm/s, 72m

Heritage structures:

2.5 mm/s, 60m

Residential or light

framed commercial:

7.5 mm/s, 25m

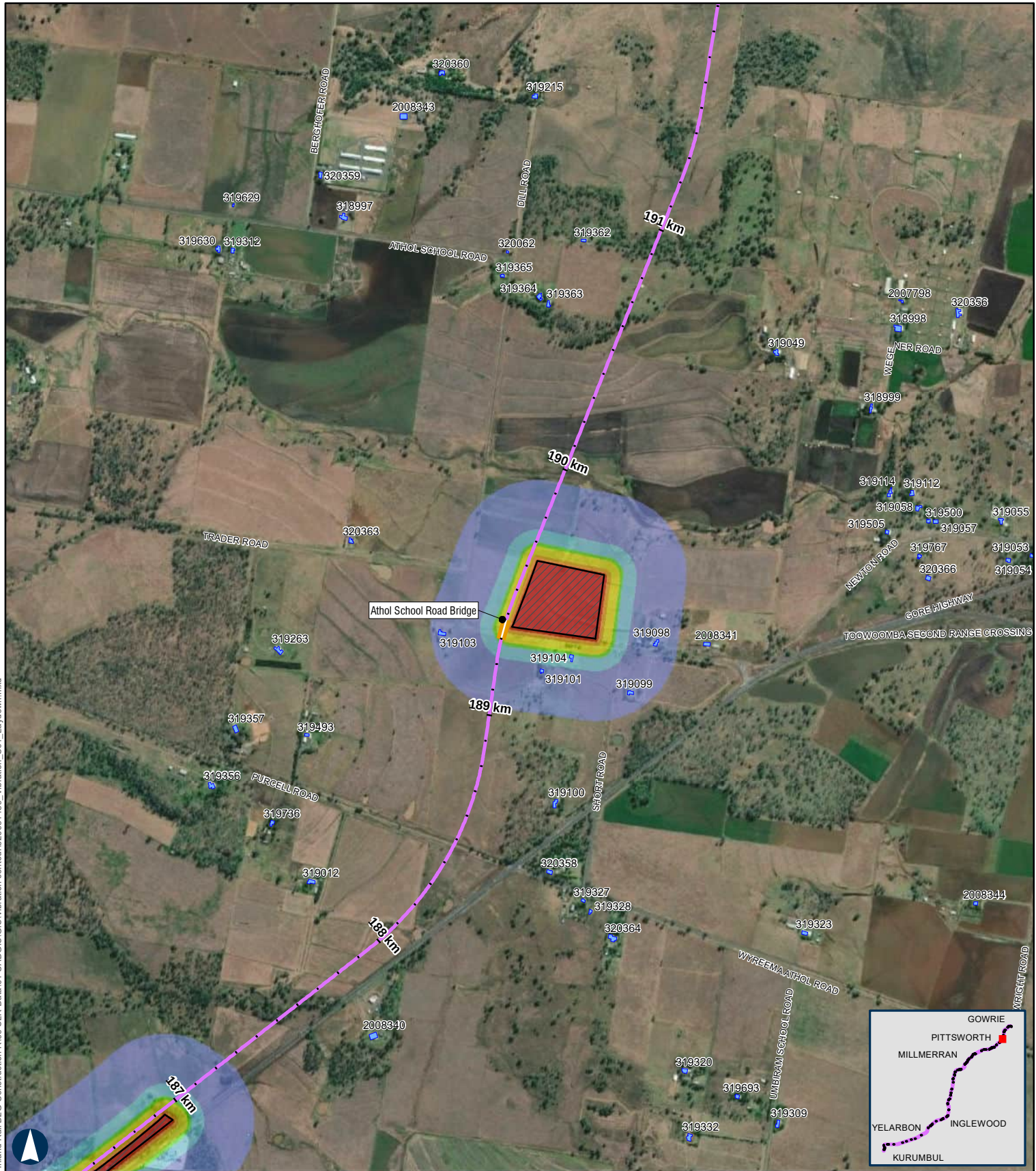
Industrial or framed

commercial: 25 mm/s,

8m

ARTC InlandRail

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BORDER TO GOWRIE Scenario 1 - Earthworks

APPENDIX E - MAP 43 OF 48

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 15-Nov-2024
Author: JG

Scale: 1:20,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

— Koala Habitat Area

— Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

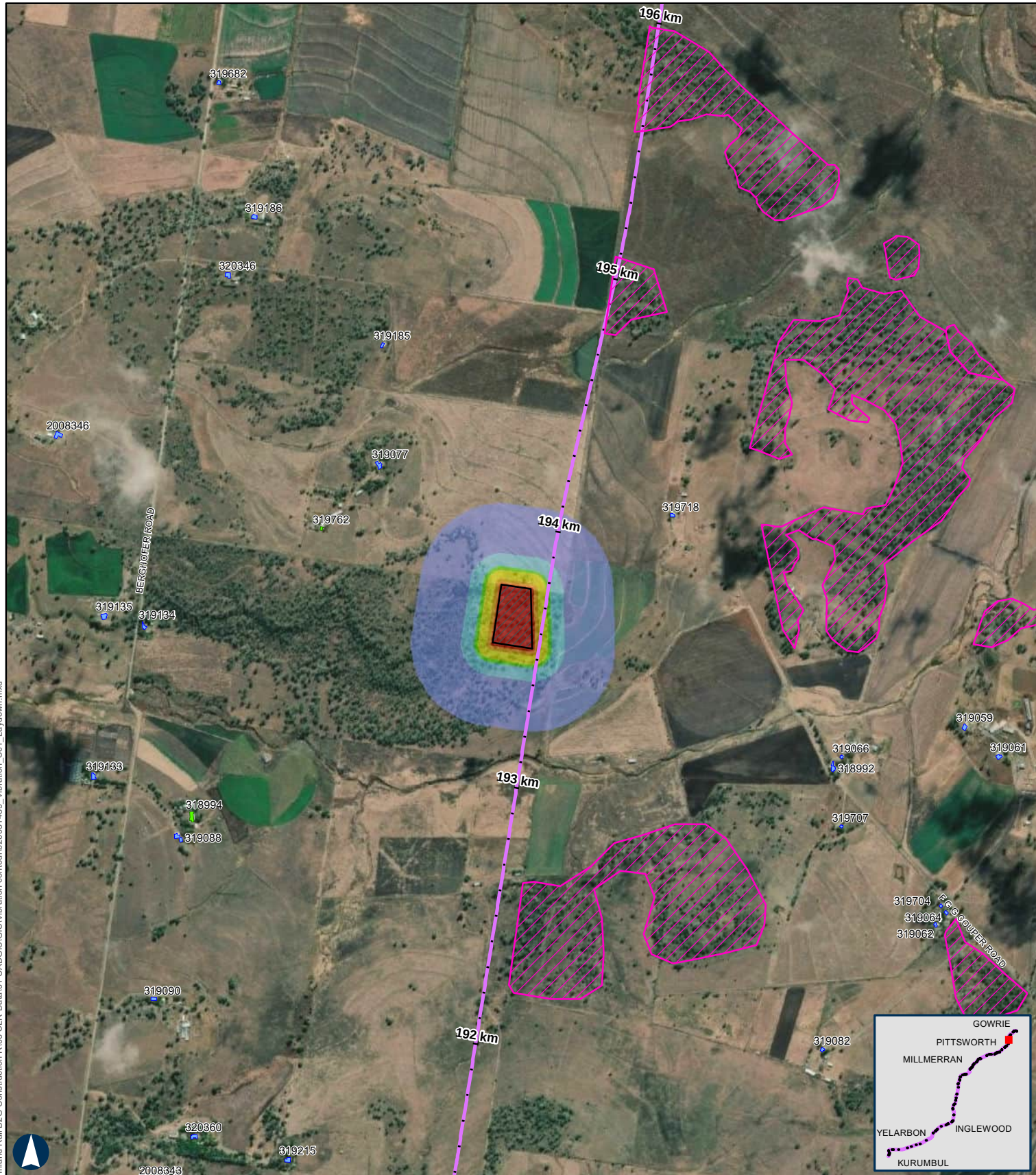
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC InlandRail

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BORDER TO GOWRIE Scenario 1 - Earthworks

APPENDIX E - MAP 44 OF 48

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 15-Nov-2024
Author: JG

Scale: 1:20,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

■ Residential

■ Community

■ Educational

■ Commercial

■ Parkland

□ Future Developments

Safe Working Distances

Human comfort – non-

standards hours lower

limit: 0.3 mm/s, 316m

Human comfort –

standards hours lower

limit: 1 mm/s, 124m

Human comfort –

standards hours upper

limit: 2 mm/s, 72m

Heritage structures:

2.5 mm/s, 60m

Residential or light

framed commercial:

7.5 mm/s, 25m

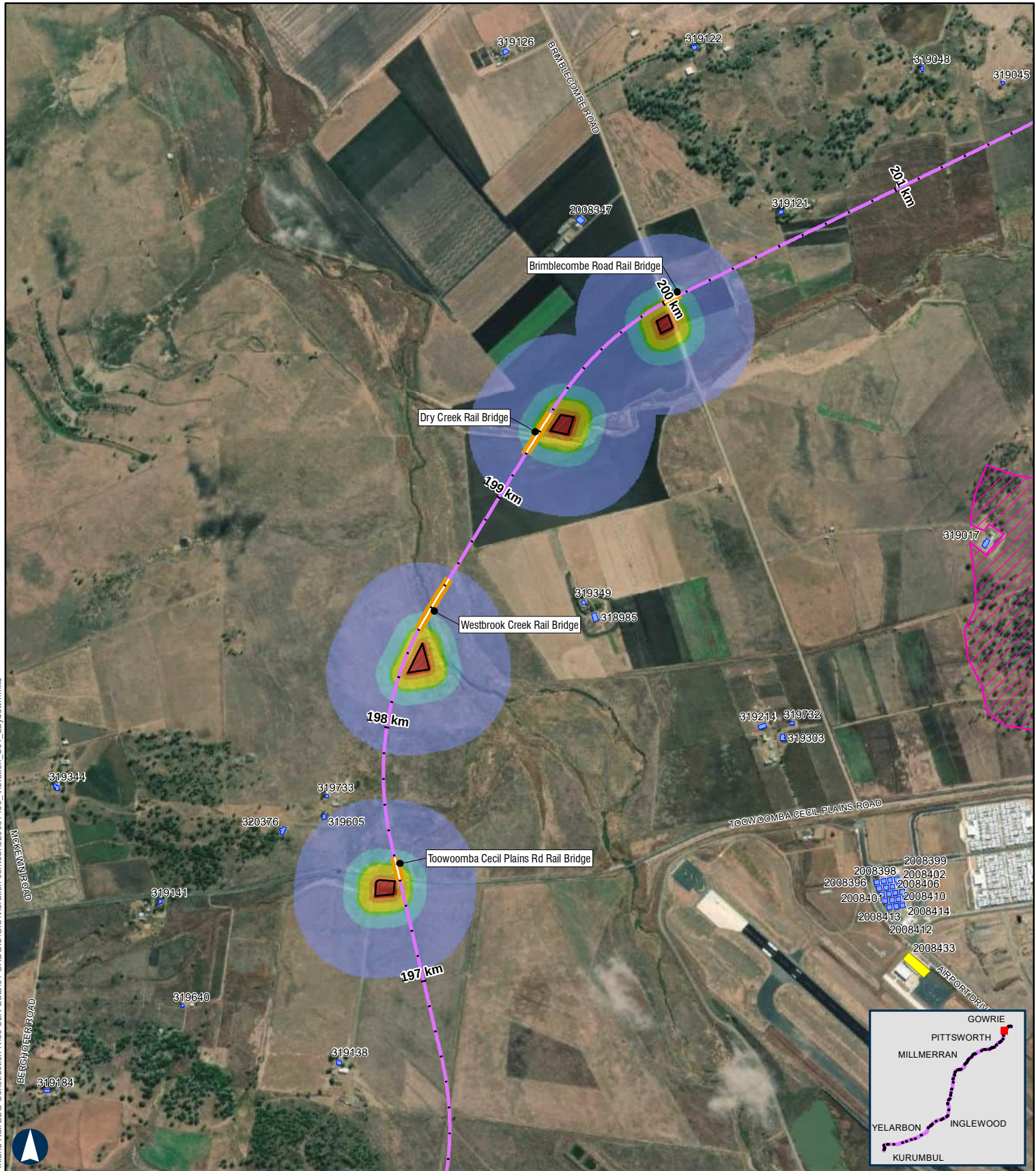
Industrial or framed

commercial: 25 mm/s,

8m

ARTC **InlandRail**

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BORDER TO GOWRIE Scenario 1 - Earthworks

APPENDIX E - MAP 45 OF 48

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:20,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/ Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Safe Working Distances

- Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

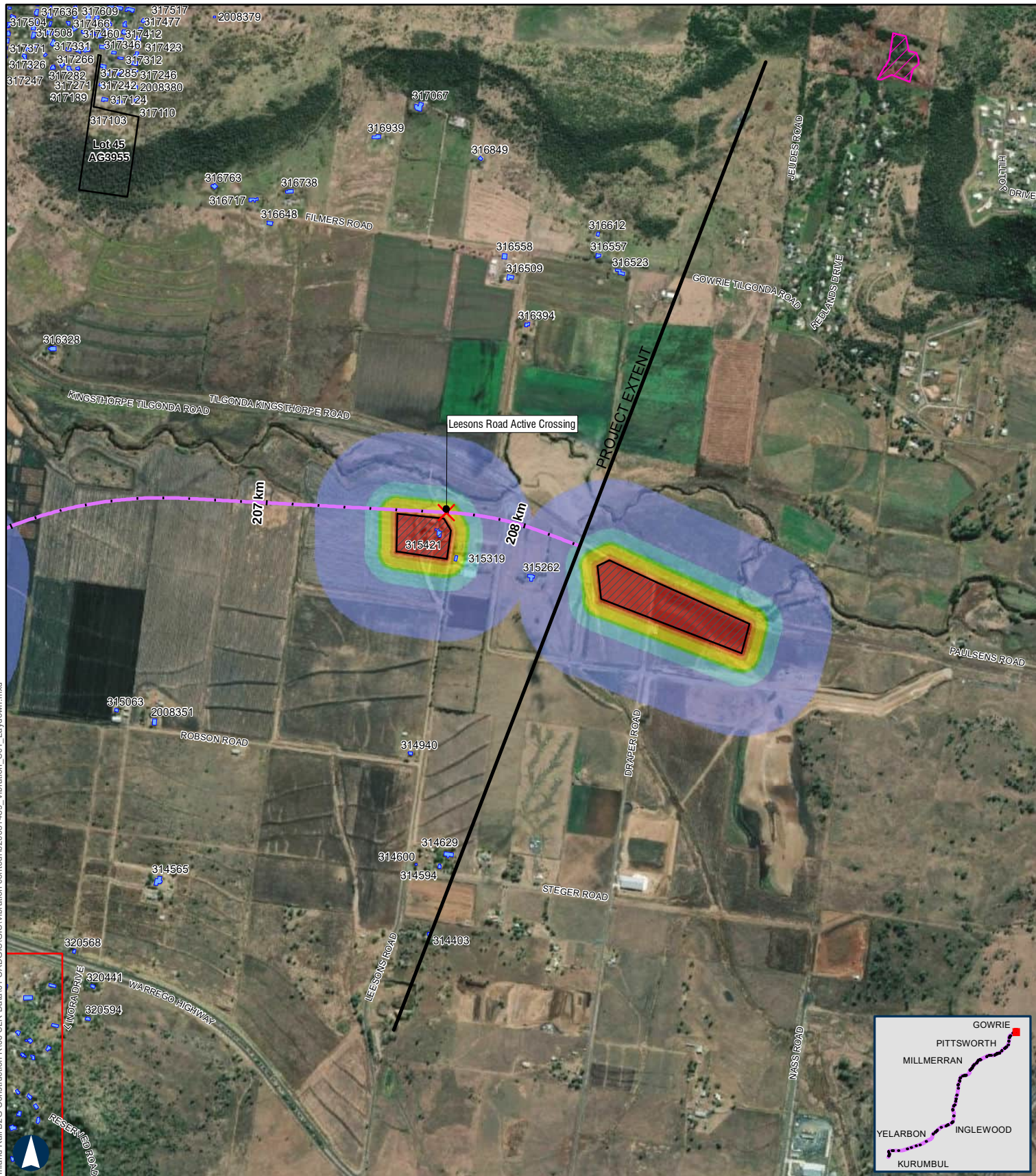
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC **InlandRail**

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BORDER TO GOWRIE Scenario 1 - Earthworks

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 15-Nov-2024
Author: JG

Scale: 1:20,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/ Centreline

▭ Koala Habitat Area

▭ Work Area

Sensitive Receptor Type

▭ Residential

▭ Community

▭ Educational

▭ Commercial

▭ Parkland

▭ Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

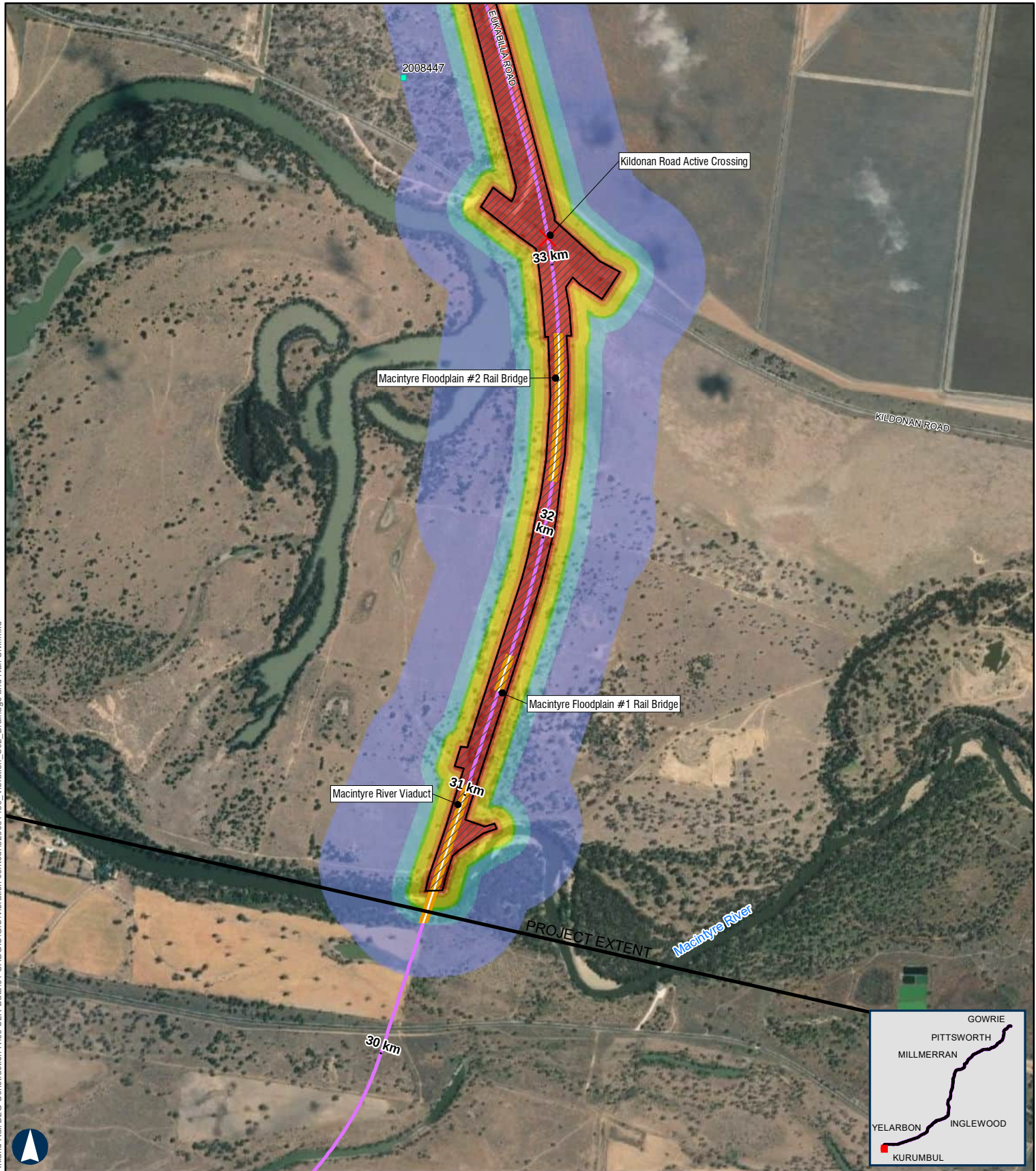
Industrial or framed commercial: 25 mm/s, 8m



APPENDIX E - MAP 48 OF 48

ARTC **InlandRail**

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BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 1 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✕ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

□ Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

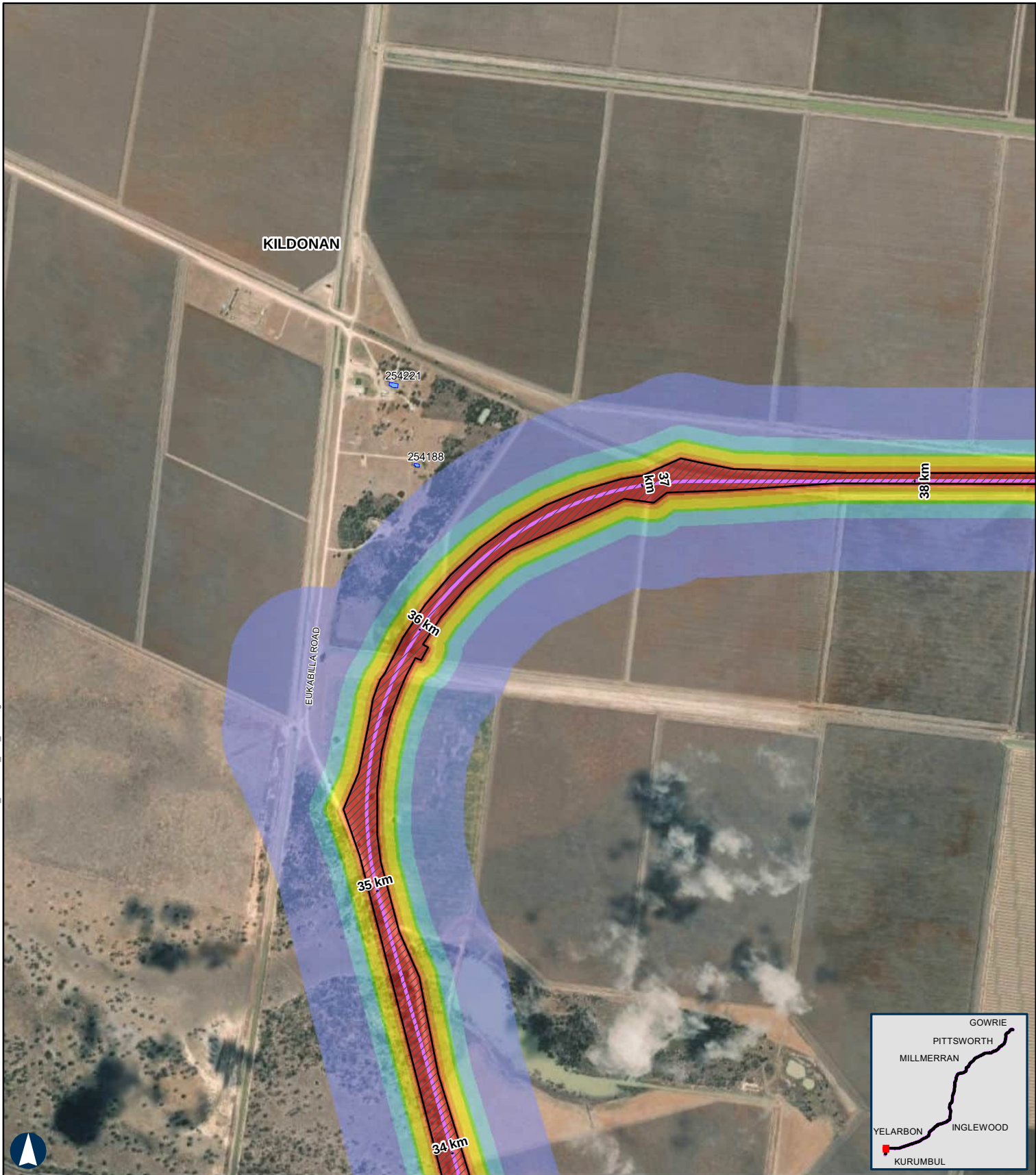
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC **InlandRail**

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BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 2 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC **InlandRail**

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BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 3 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC InlandRail

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BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 4 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/ Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

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BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 5 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4

Date: 15-Nov-2024

Author: JG

Scale: 1:19,000

✕ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/ Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

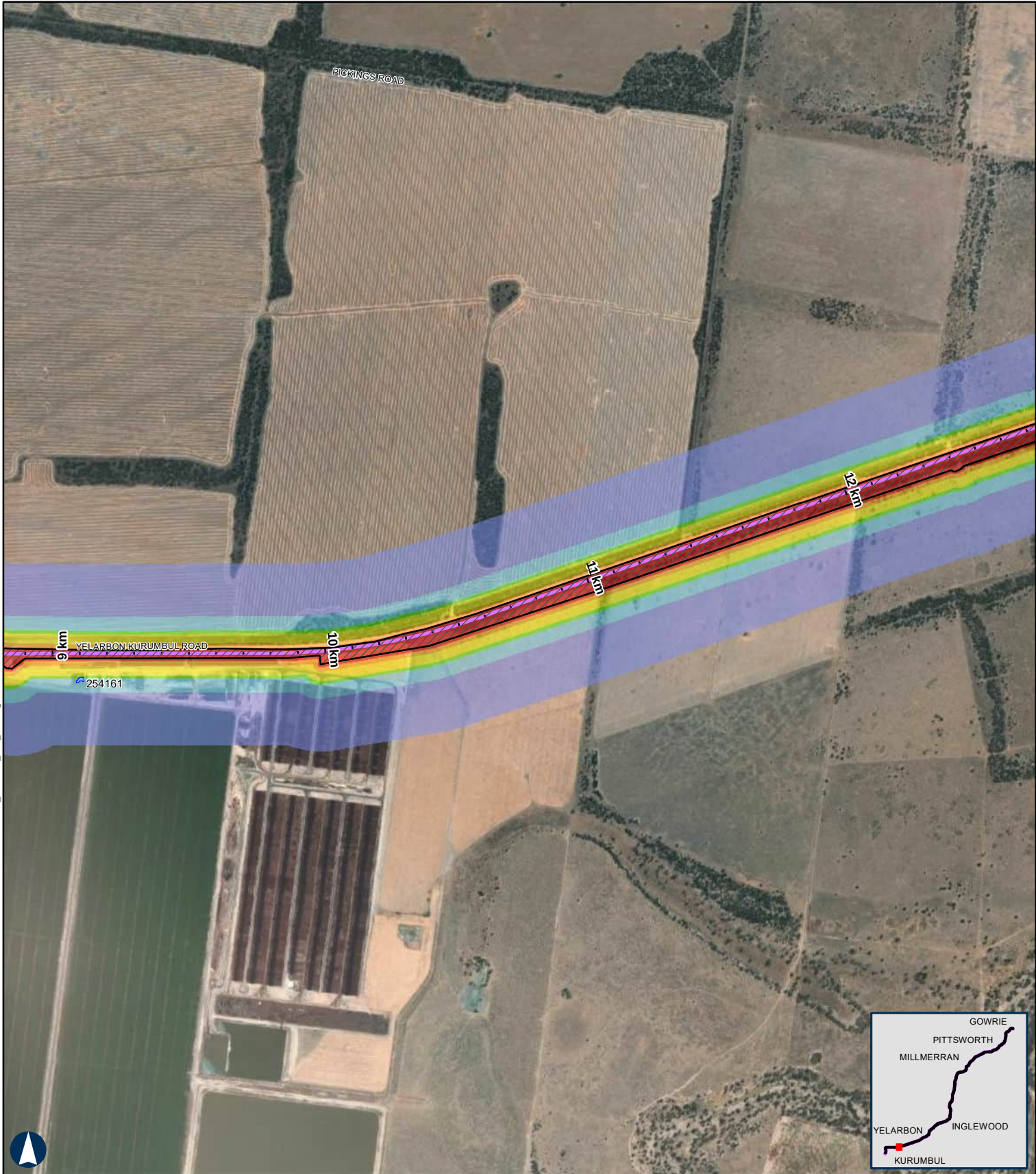
Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

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InlandRail

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BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 6 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

Level Crossings

- ✕ Level Crossings
- Flying Fox Camp
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Koala Habitat Area
- ▨ Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Safe Working Distances

- Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

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BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 7 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

Scale: 1:19,000

✕ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

□ Future Developments

Safe Working Distances

Human comfort – non-

standards hours lower

limit: 0.3 mm/s, 316m

Human comfort –
standards hours lower
limit: 1 mm/s, 124m

Human comfort –
standards hours upper
limit: 2 mm/s, 72m

Heritage structures:
2.5 mm/s, 60m

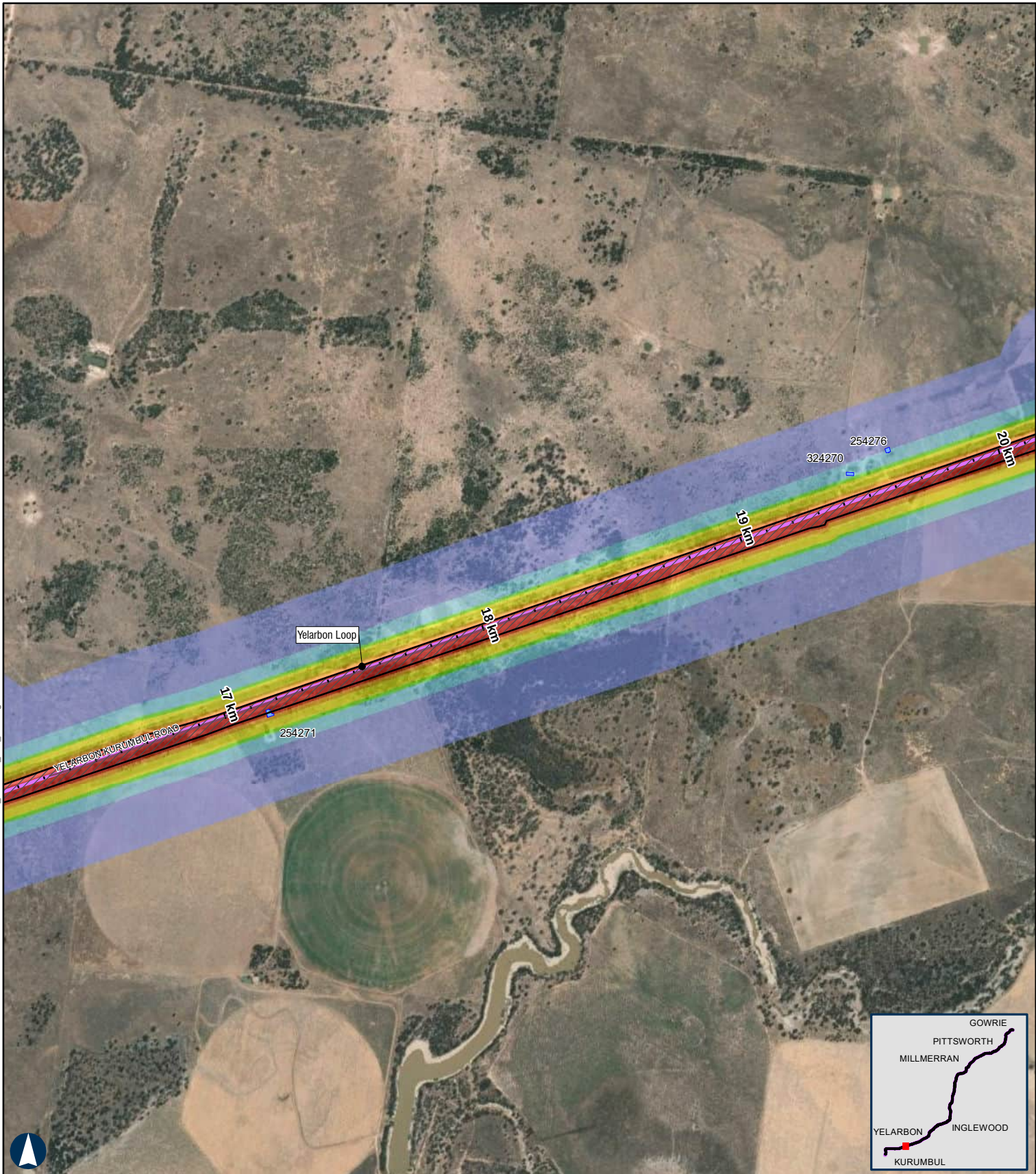
Residential or light
framed commercial:
7.5 mm/s, 25m

Industrial or framed
commercial: 25 mm/s,
8m

ARTC **InlandRail**

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BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 8 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✕ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

□ Future Developments

Safe Working Distances

Human comfort – non-

standards hours lower

limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

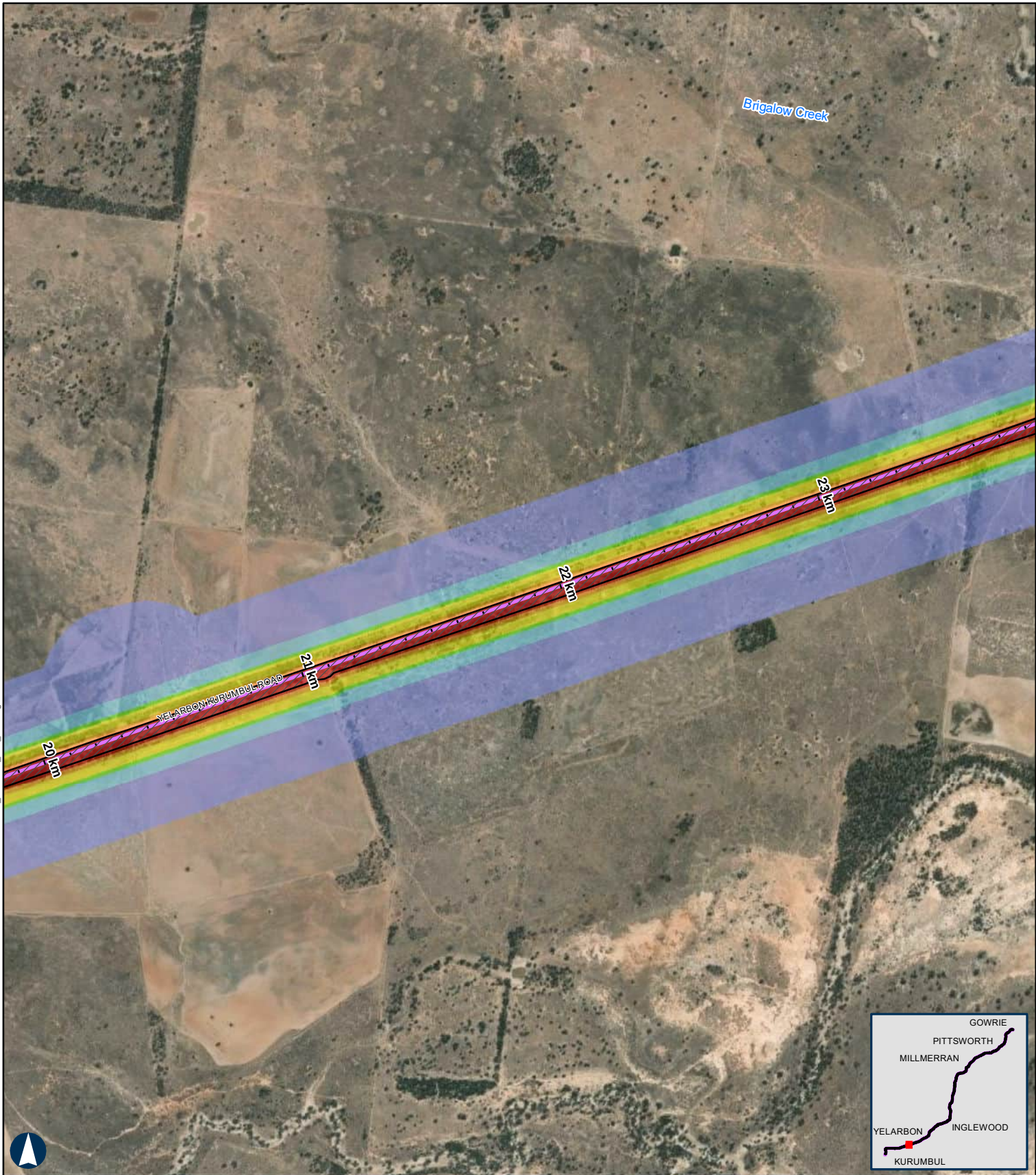
Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC **InlandRail**

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BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 9 OF 67

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:19,000

Date: 15-Nov-2024

Author: JG

✕ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/ Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

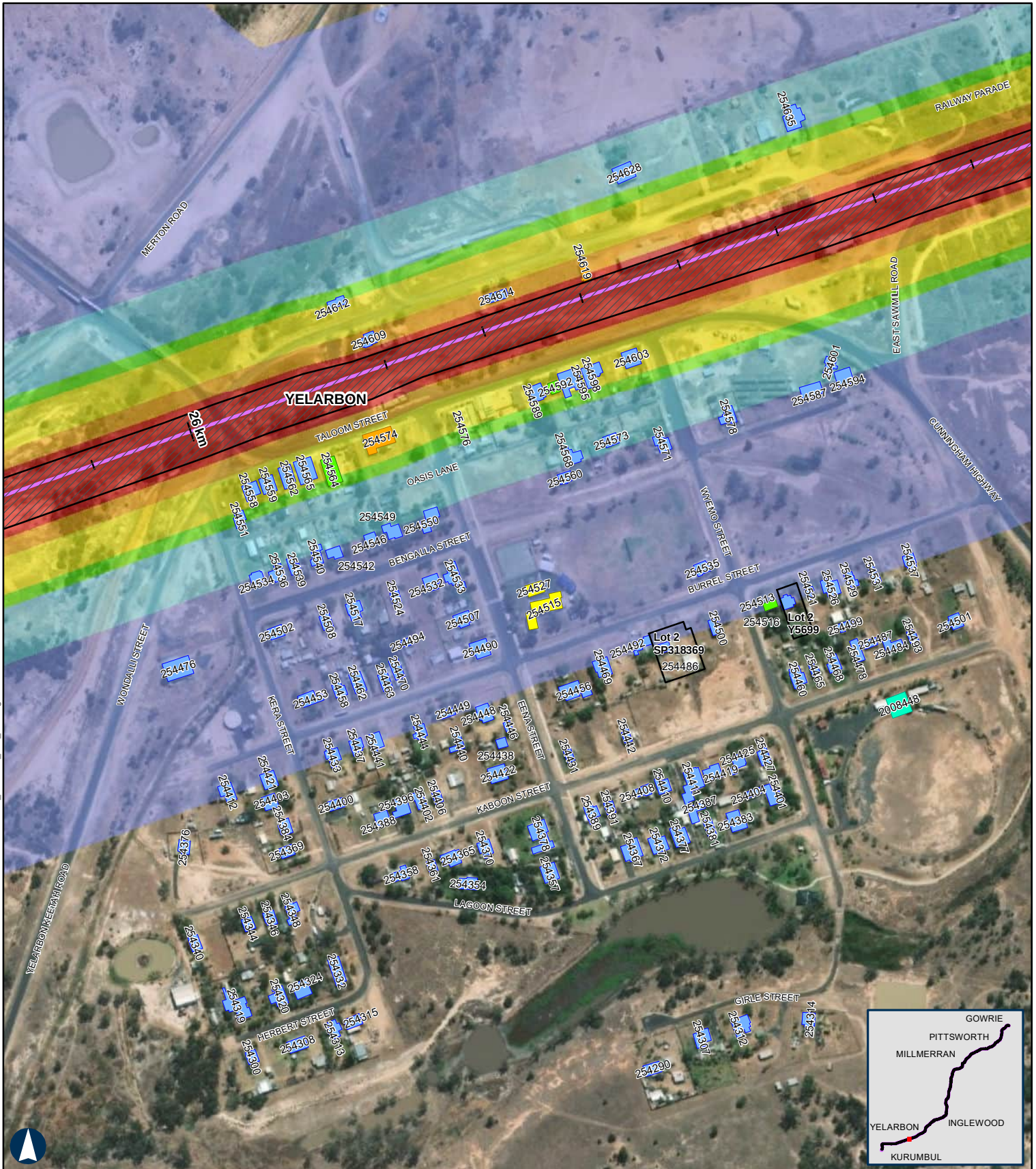
Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

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BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 11 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:5,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

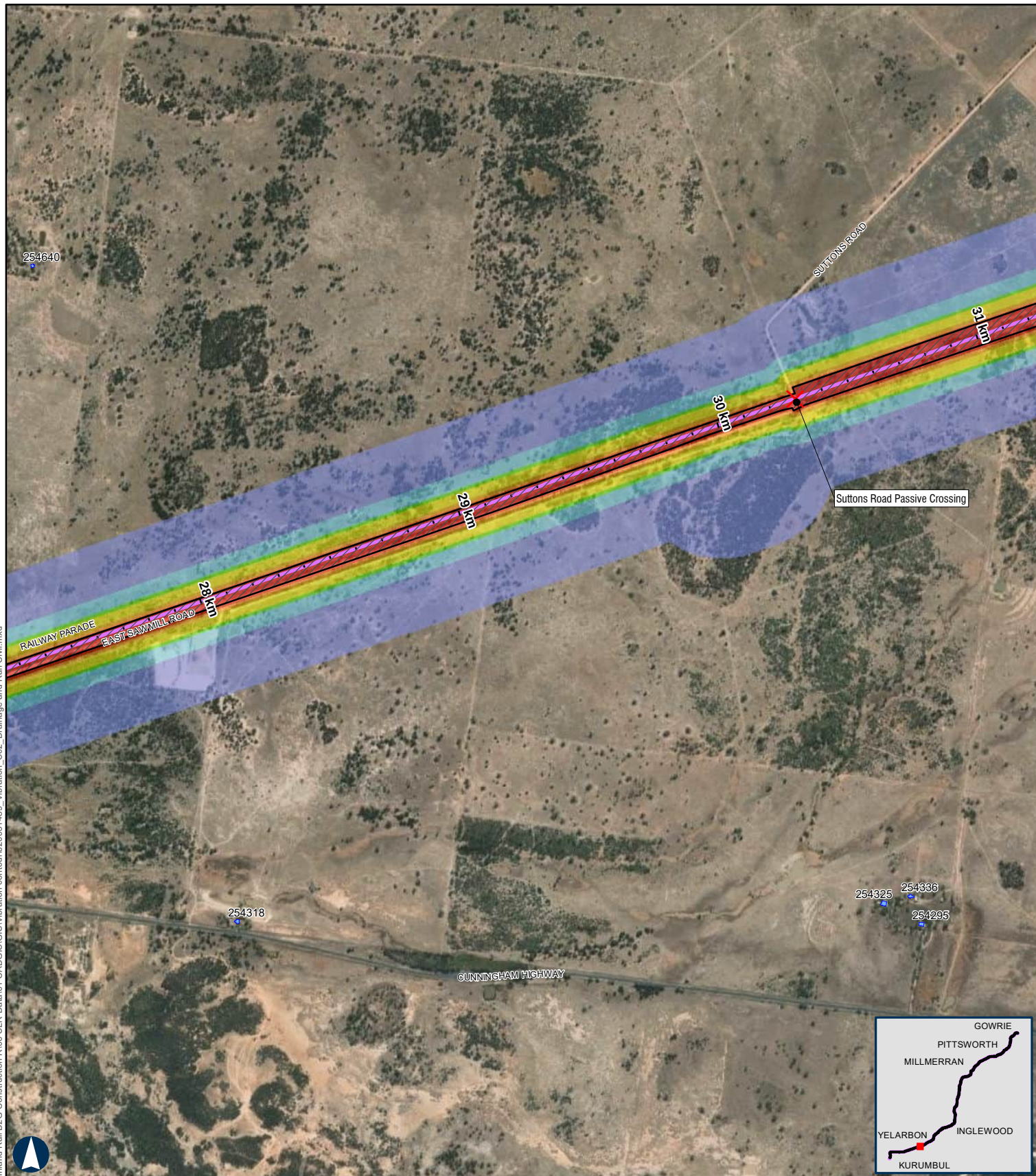
Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m



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BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 12 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✗ Level Crossings

 Flying Fox Camp

— Project Extent

— Crossing Loops

🚧 Bridges and Via

— Rail Alignment/
Centreline

 Koala Flab

 Work Area

Sensitive Receptor Type

☐ Residential

Community

Educational

 Commercial
 Parkland

☐ Future Deve

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures:
2.5 mm/s 60m

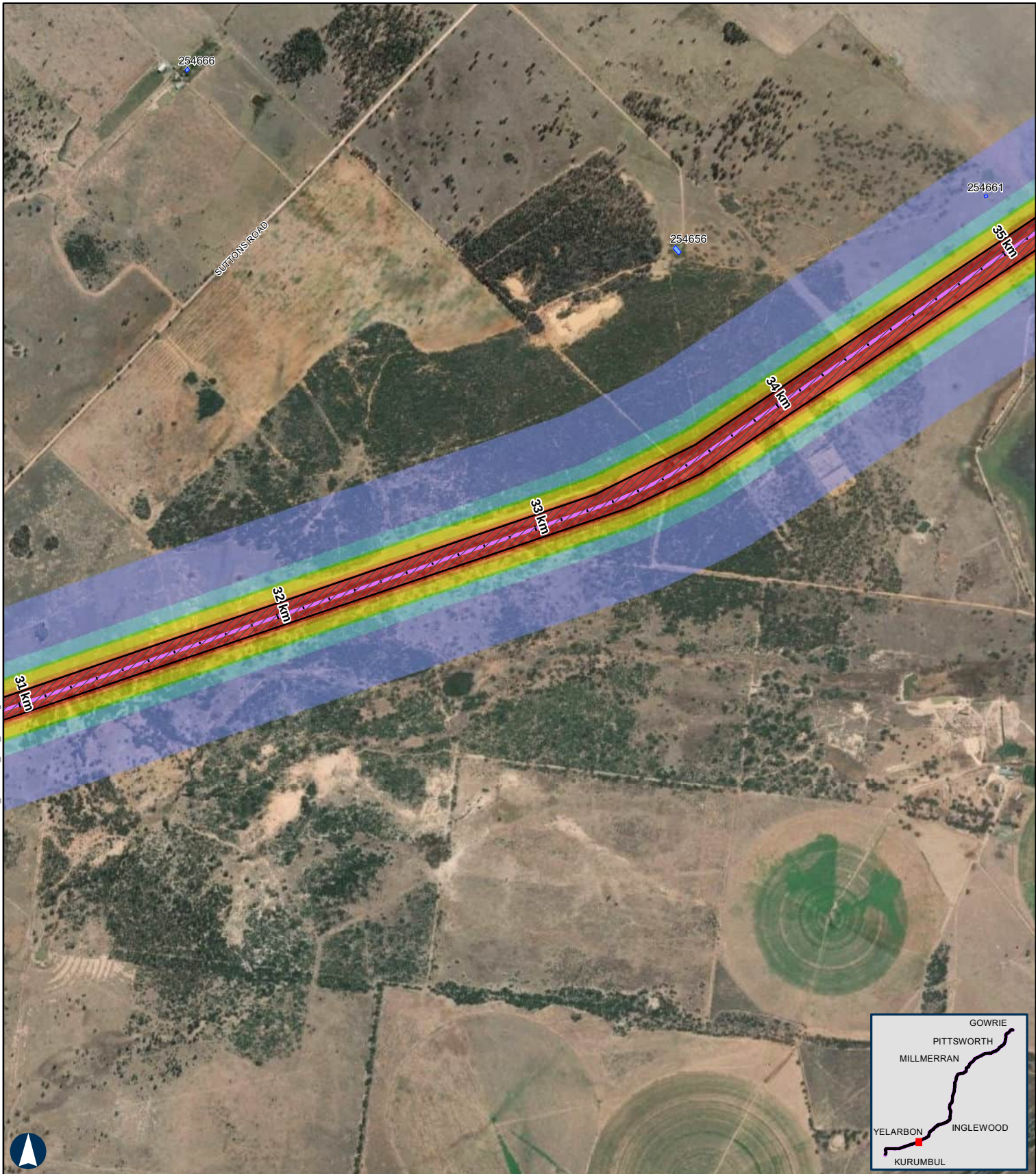
Residential or light
framed commercial:
7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m



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BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 13 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

Scale: 1:19,000

✕ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distances

Human comfort – non-

standards hours lower

limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

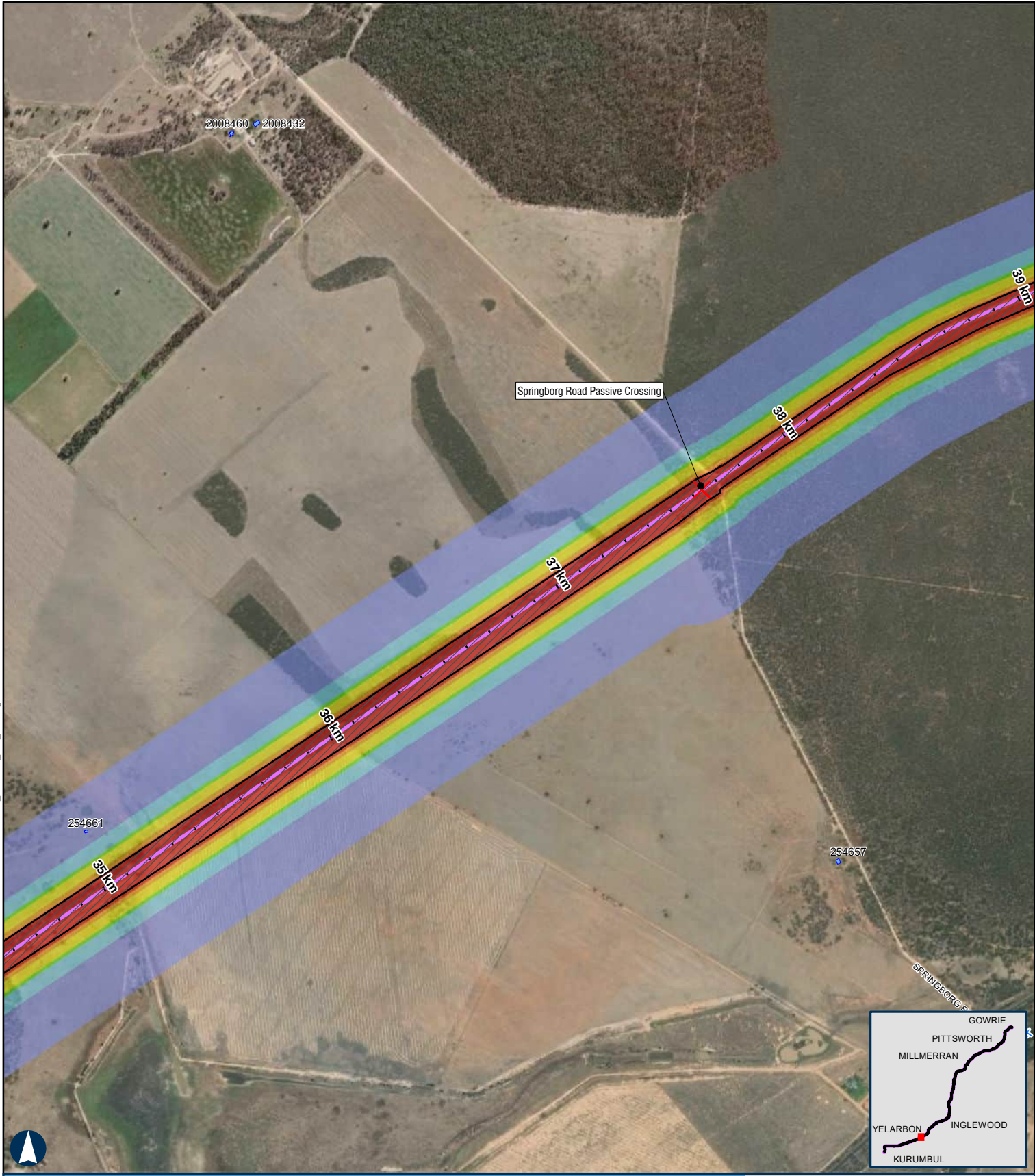
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

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BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 14 OF 67

100m

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Author: JG

Scale: 1:19,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/ Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

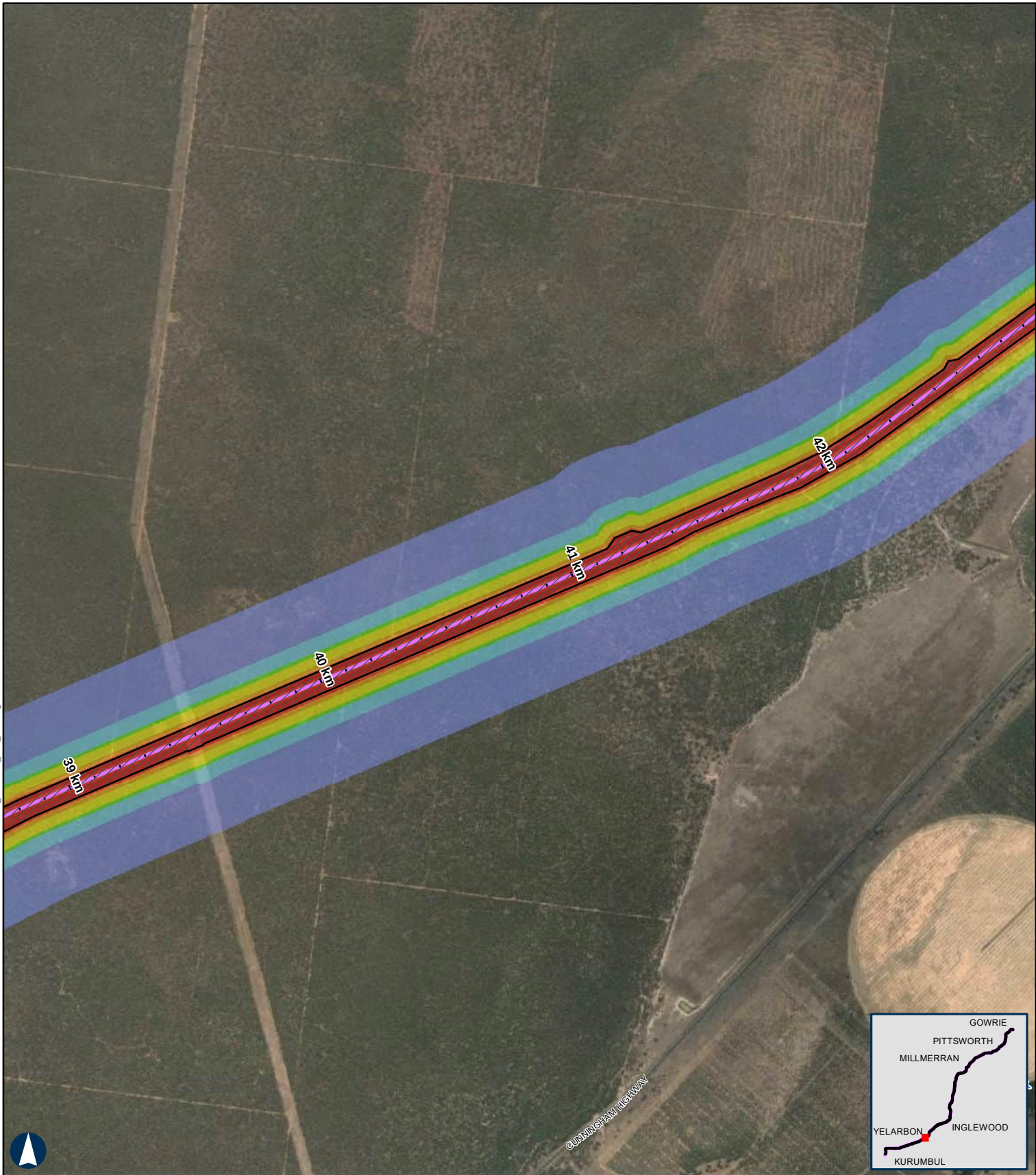
Industrial or framed commercial: 25 mm/s, 8m



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BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 15 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✕ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

□ Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

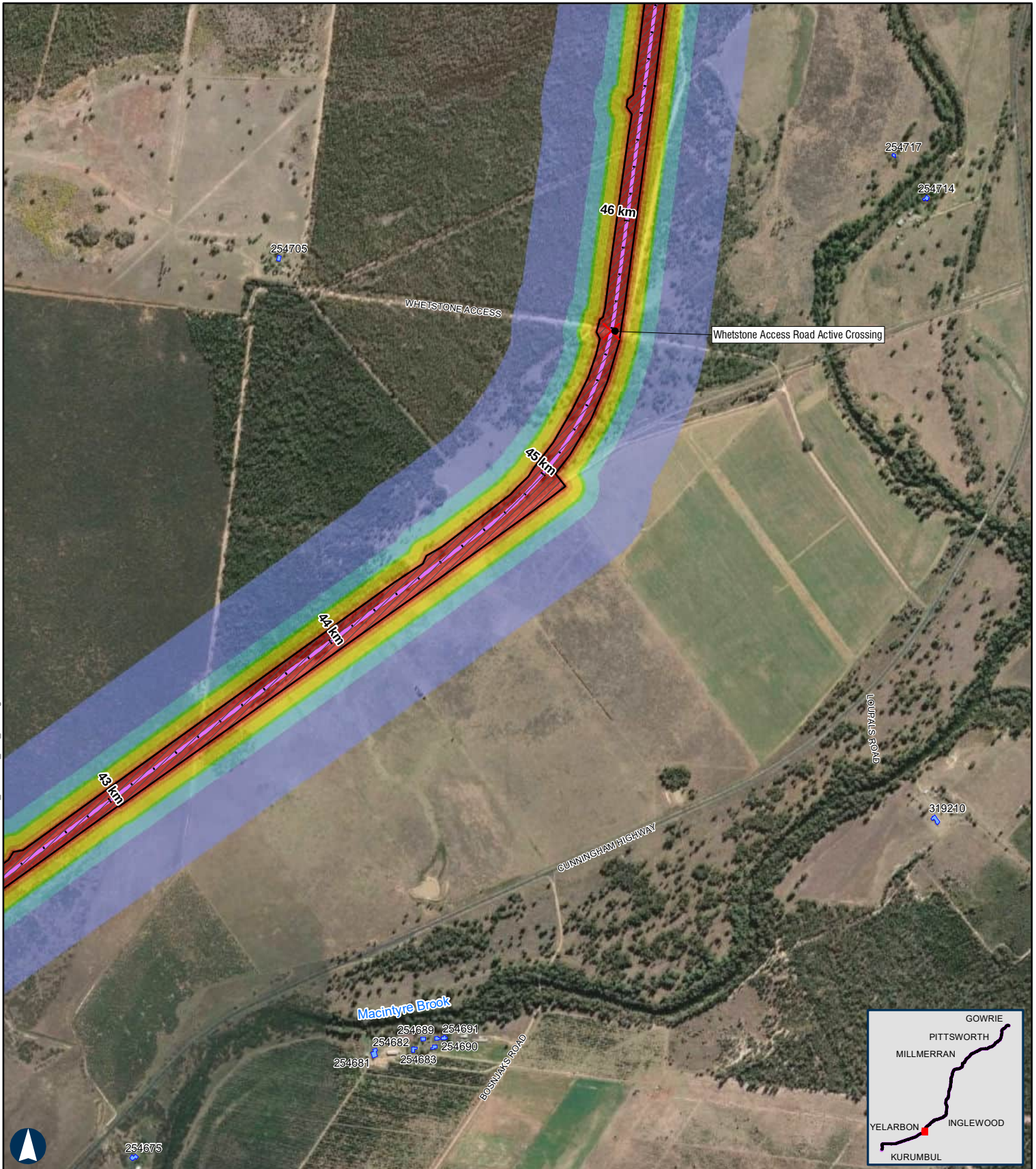
Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m



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BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 16 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✕ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

— Koala Habitat Area

— Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

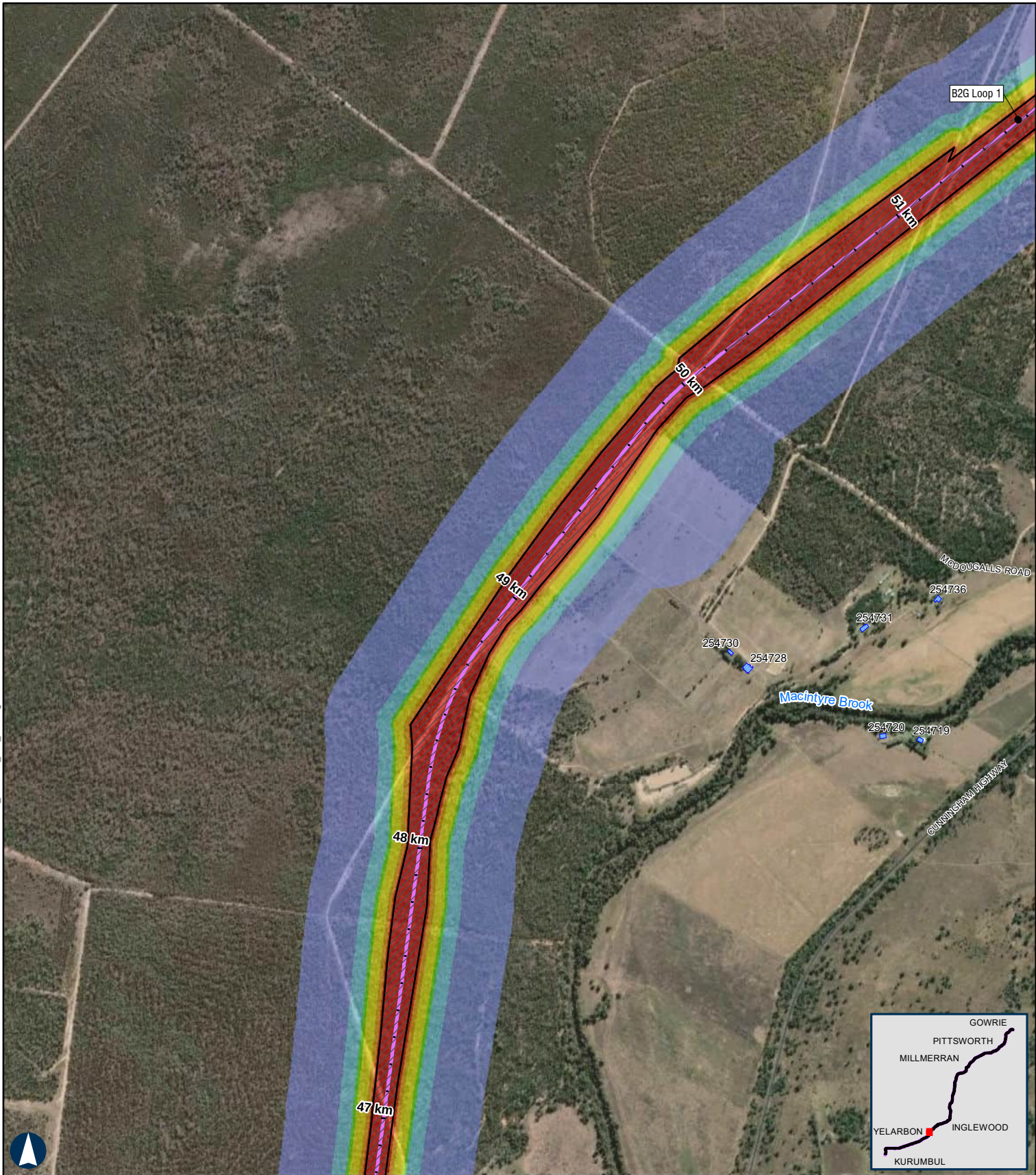
Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC **InlandRail**

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BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 17 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

Scale: 1:19,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

□ Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

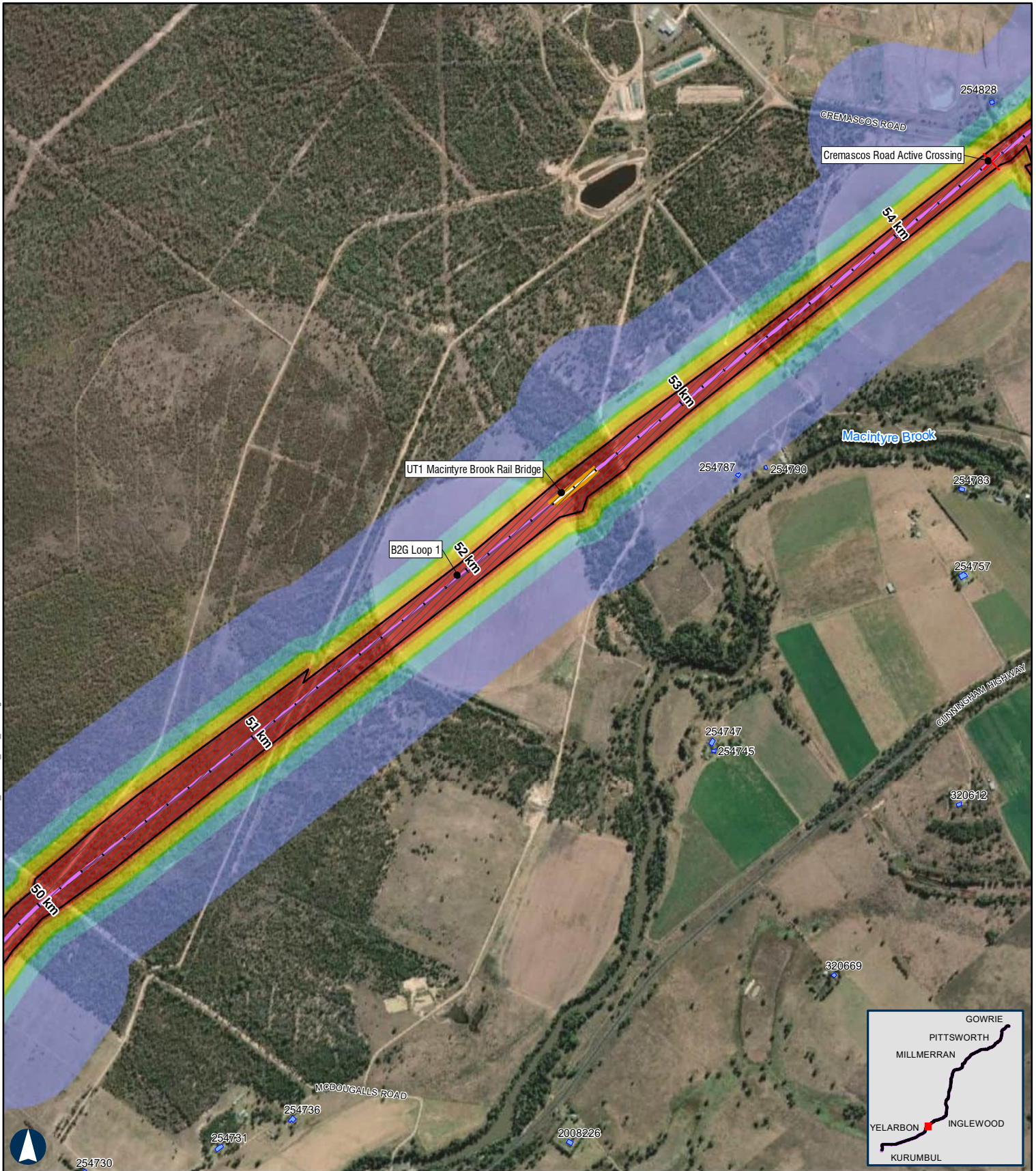
Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC InlandRail

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BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 18 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

□ Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

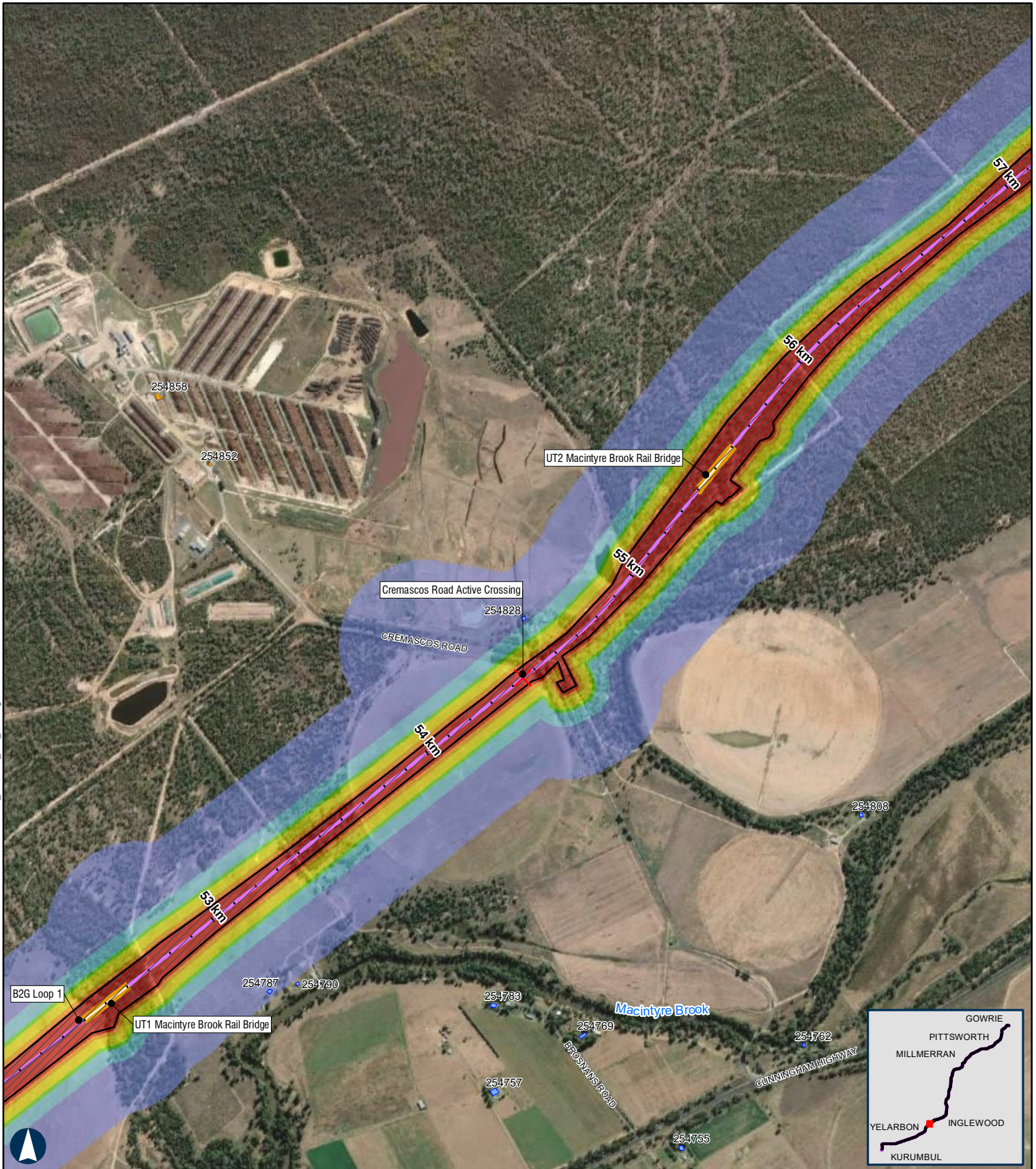
Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC **InlandRail**

The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation, in partnership with the private sector.

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BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 19 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

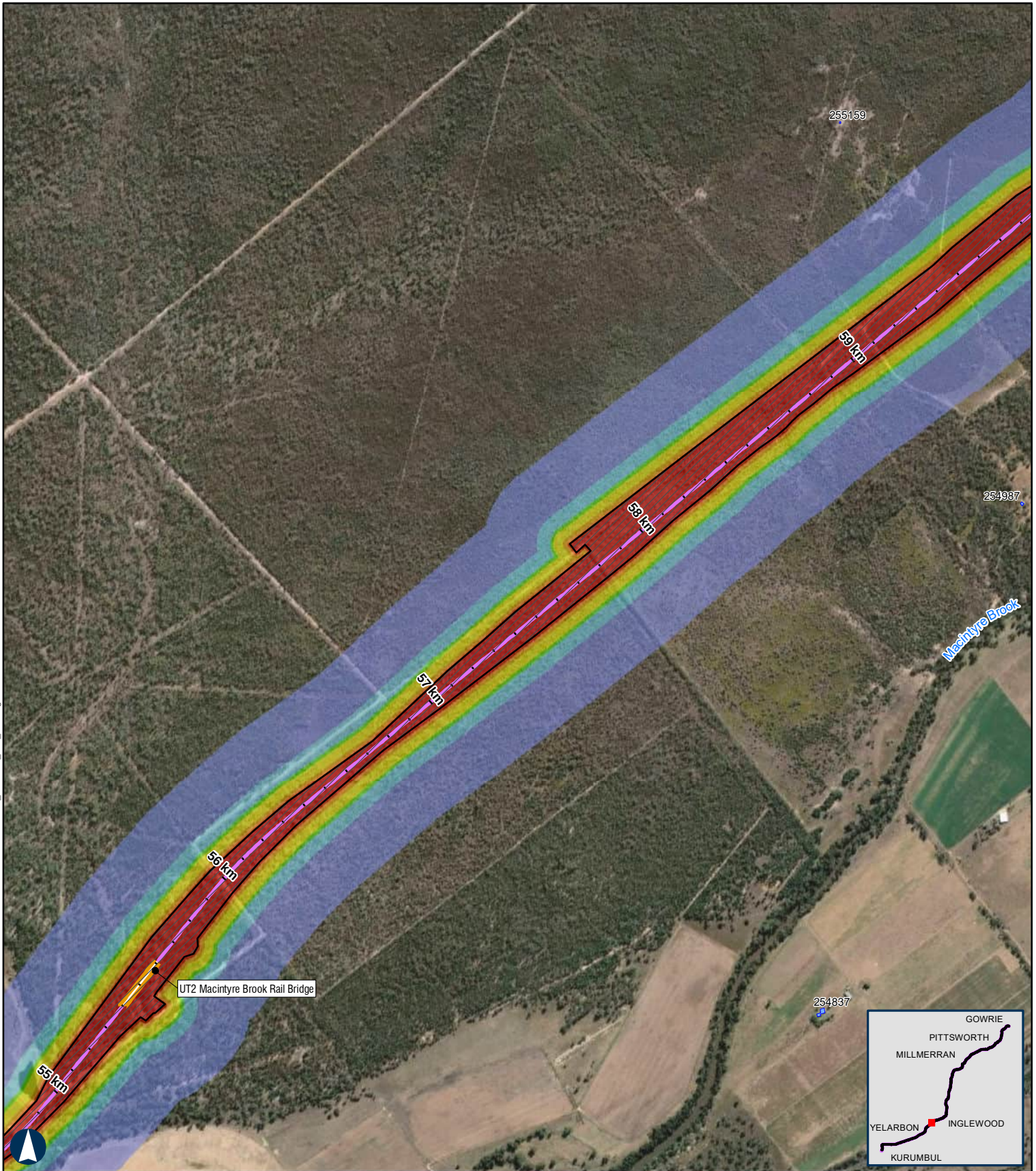
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC InlandRail

The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation, in partnership with the private sector.



BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 20 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

□ Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

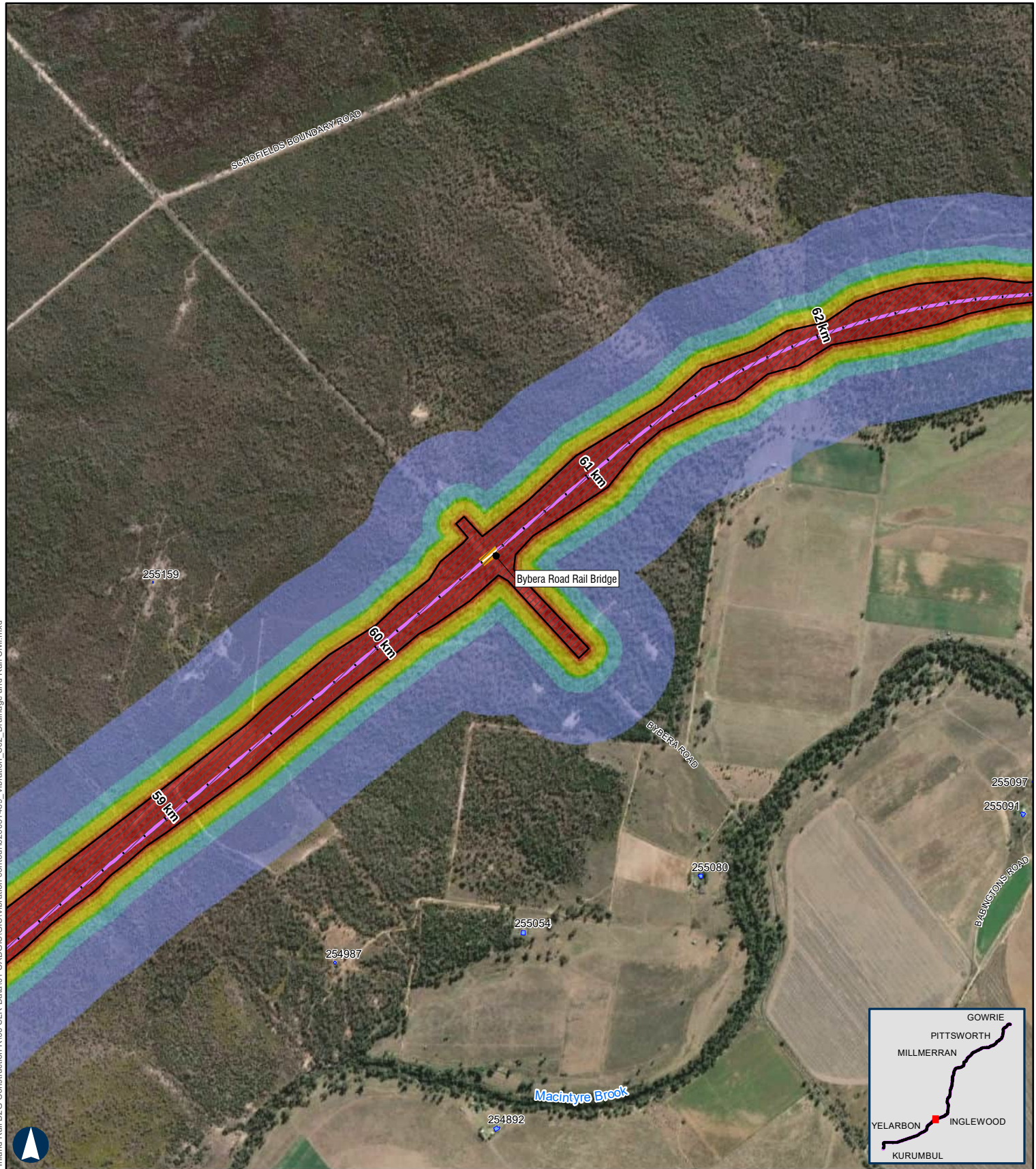
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC **InlandRail**

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BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 21 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✕ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

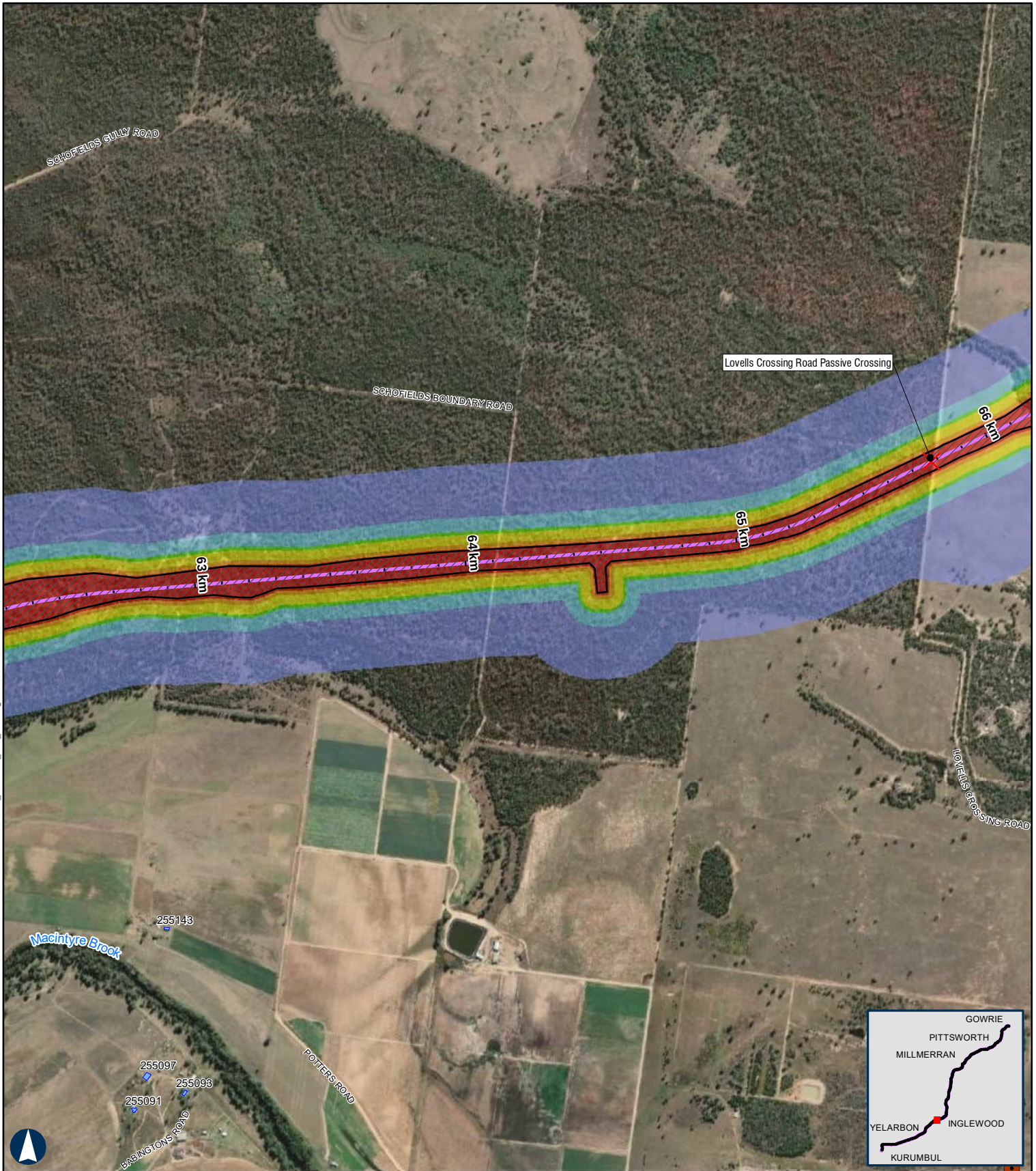
Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m



ARTC **InlandRail**

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BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 22 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

□ Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

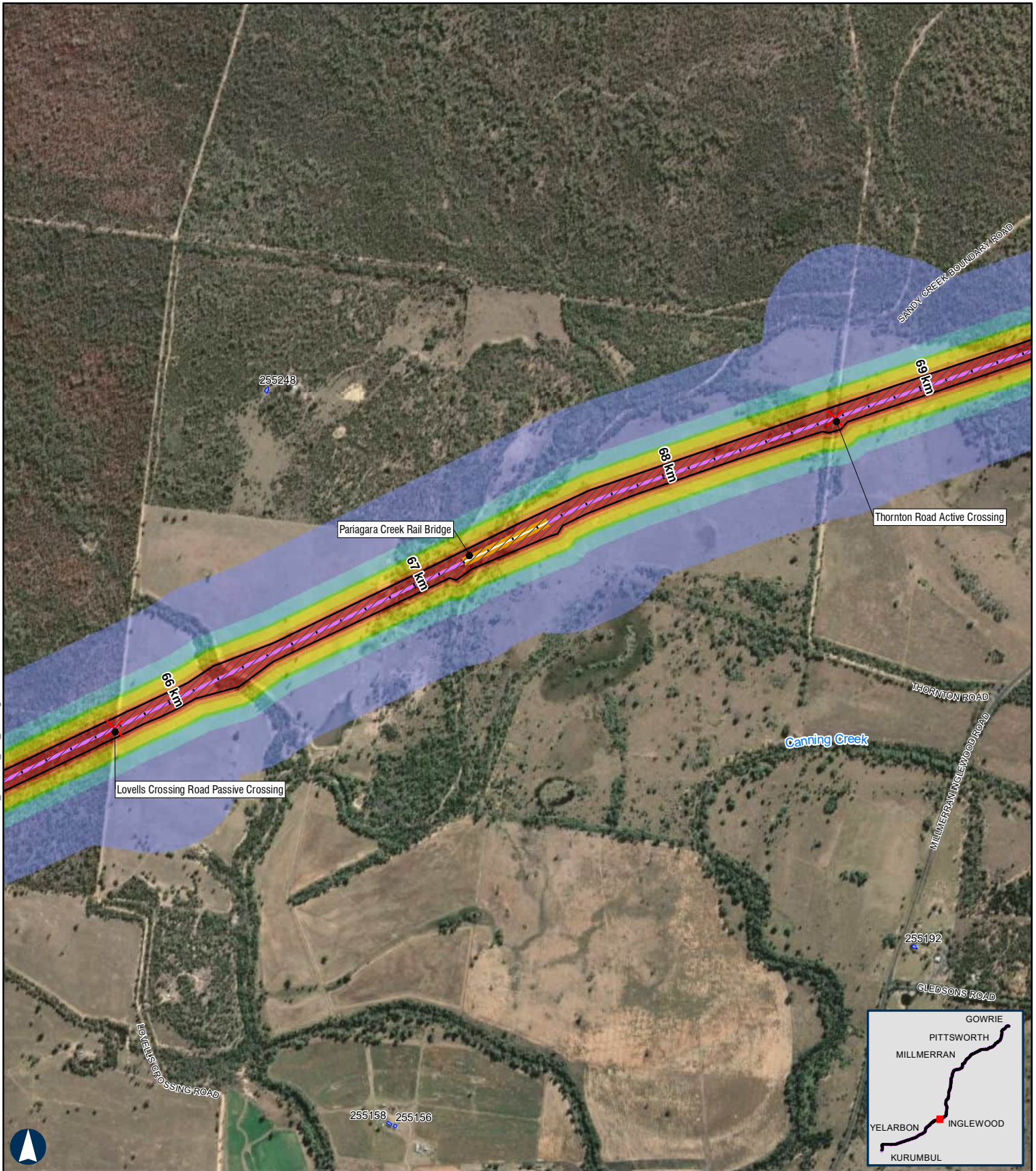
Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC **InlandRail**

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BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 23 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

Scale: 1:19,000

✕ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

□ Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

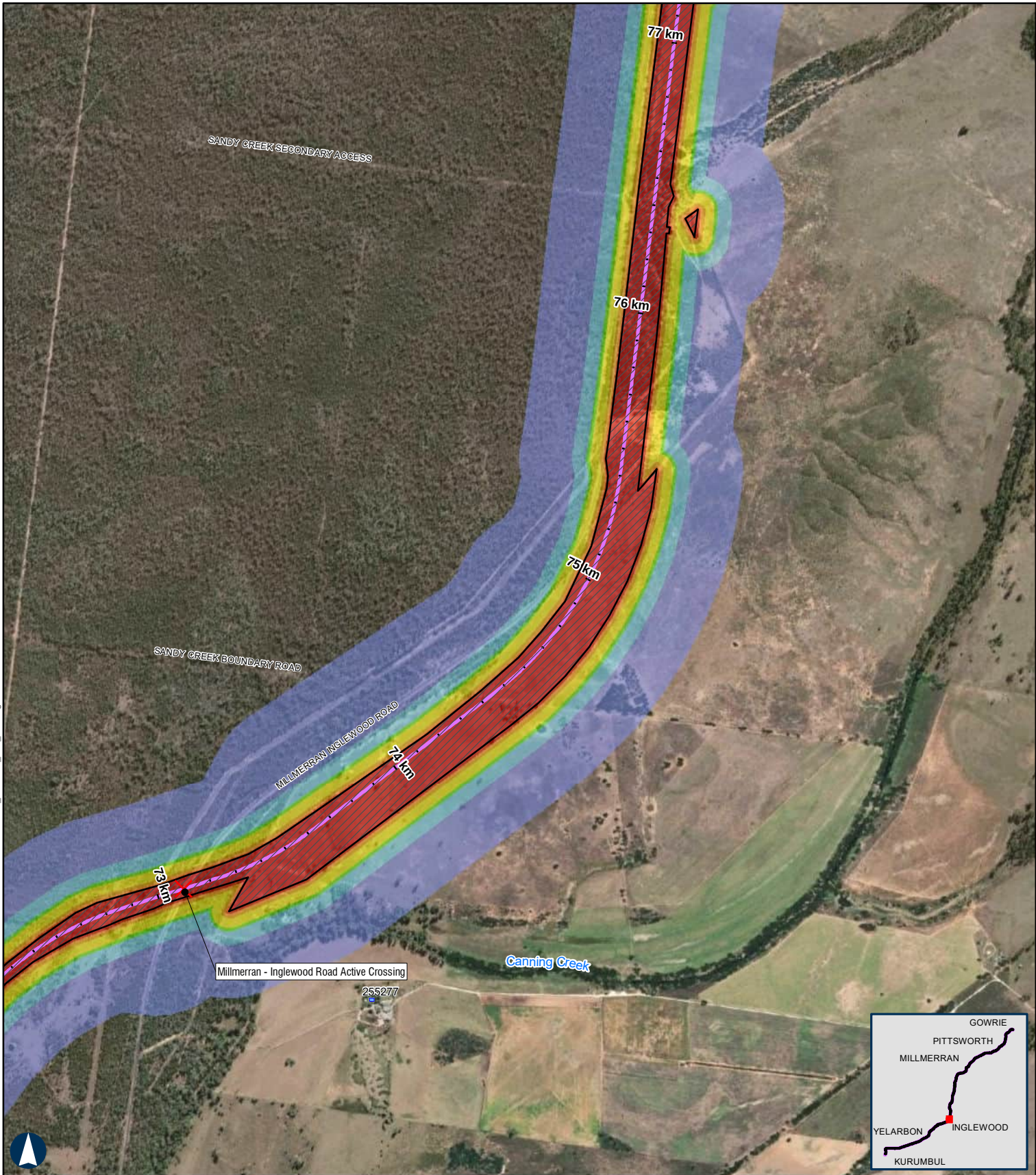
Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC **InlandRail**

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BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 25 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

□ Future Developments

Safe Working Distances

Human comfort – non-

standards hours lower

limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

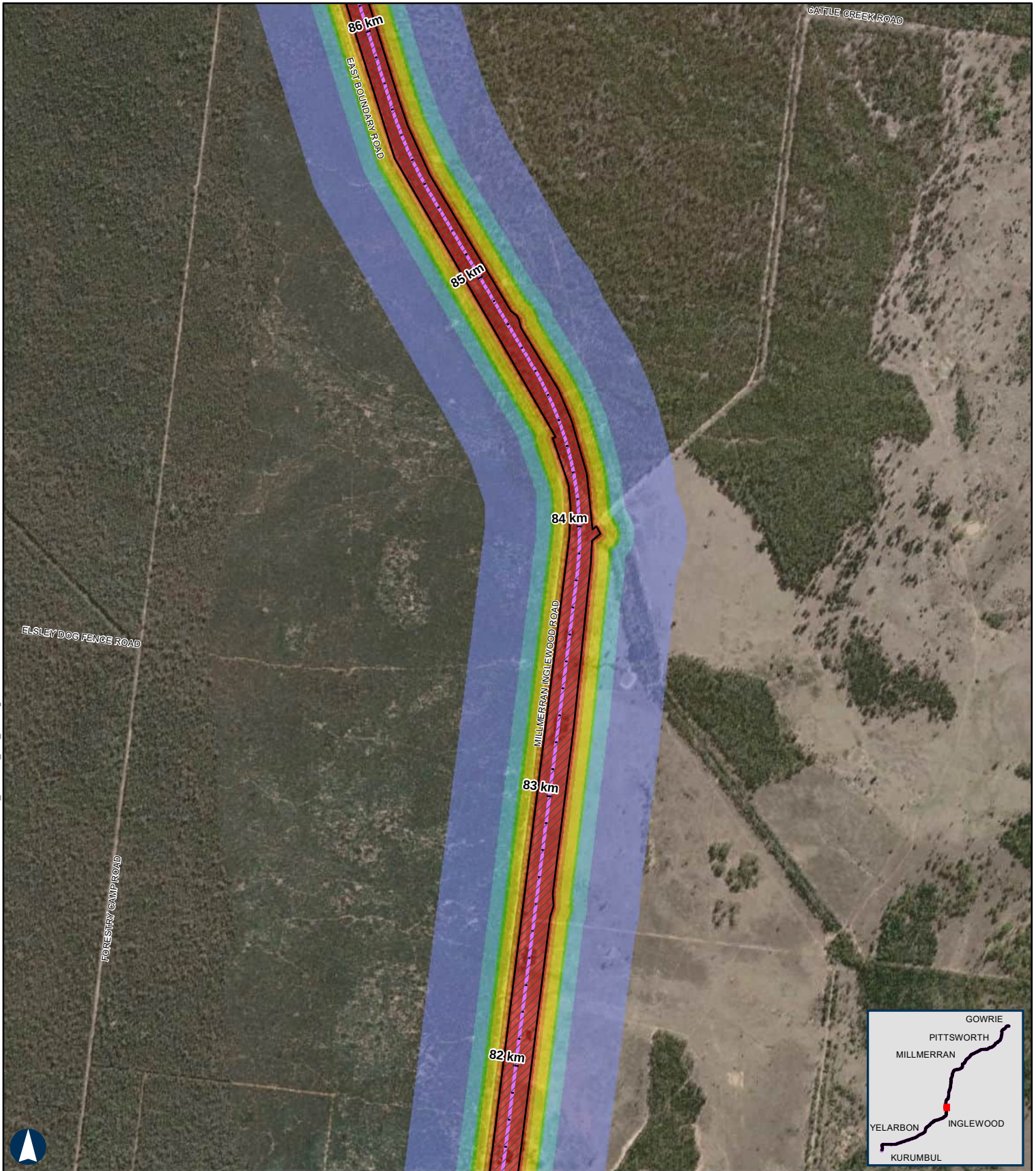
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC **InlandRail**

The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation, in partnership with the private sector.



BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 27 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✕ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

□ Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

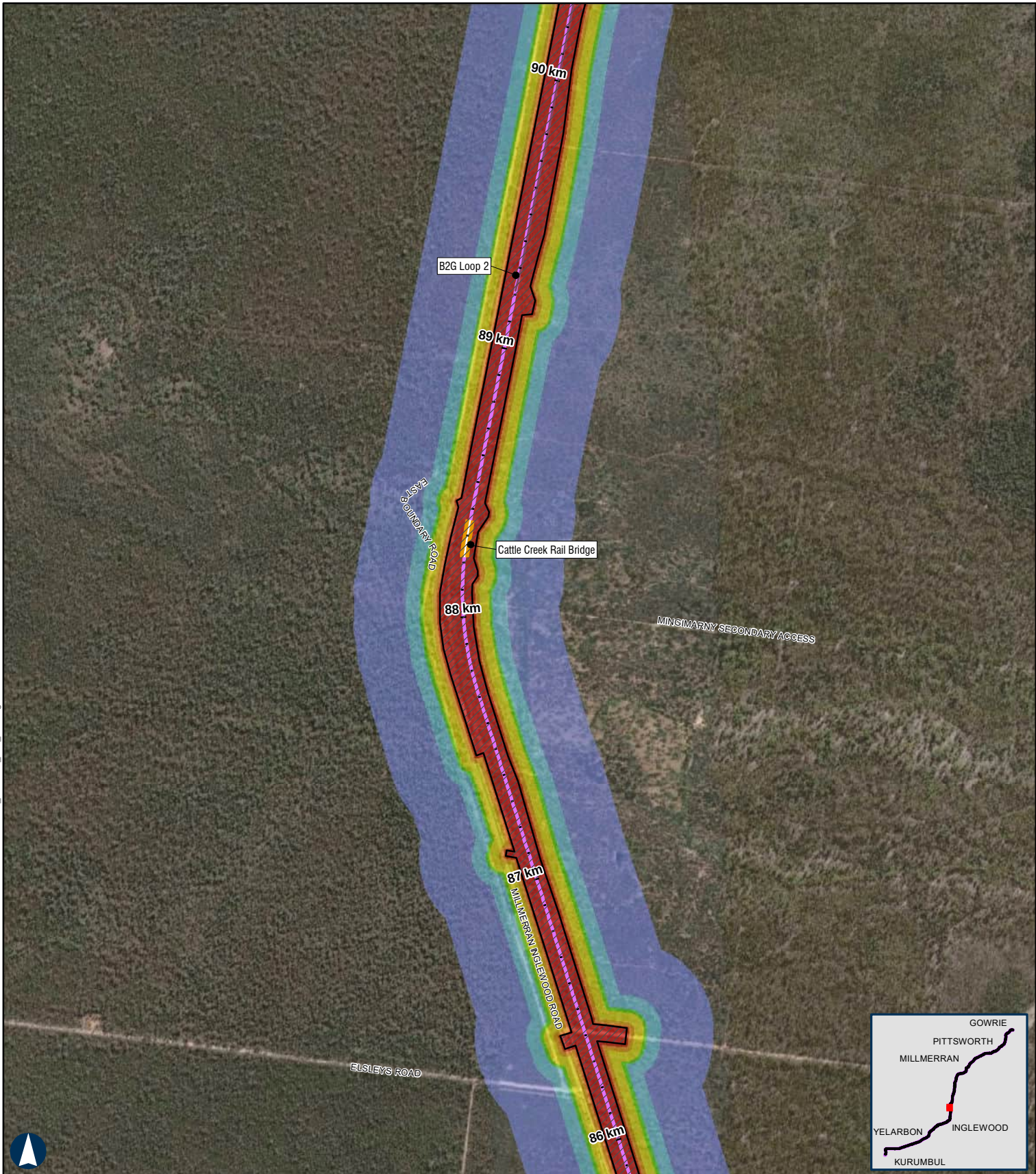
Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC **InlandRail**

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BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 28 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✕ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

□ Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

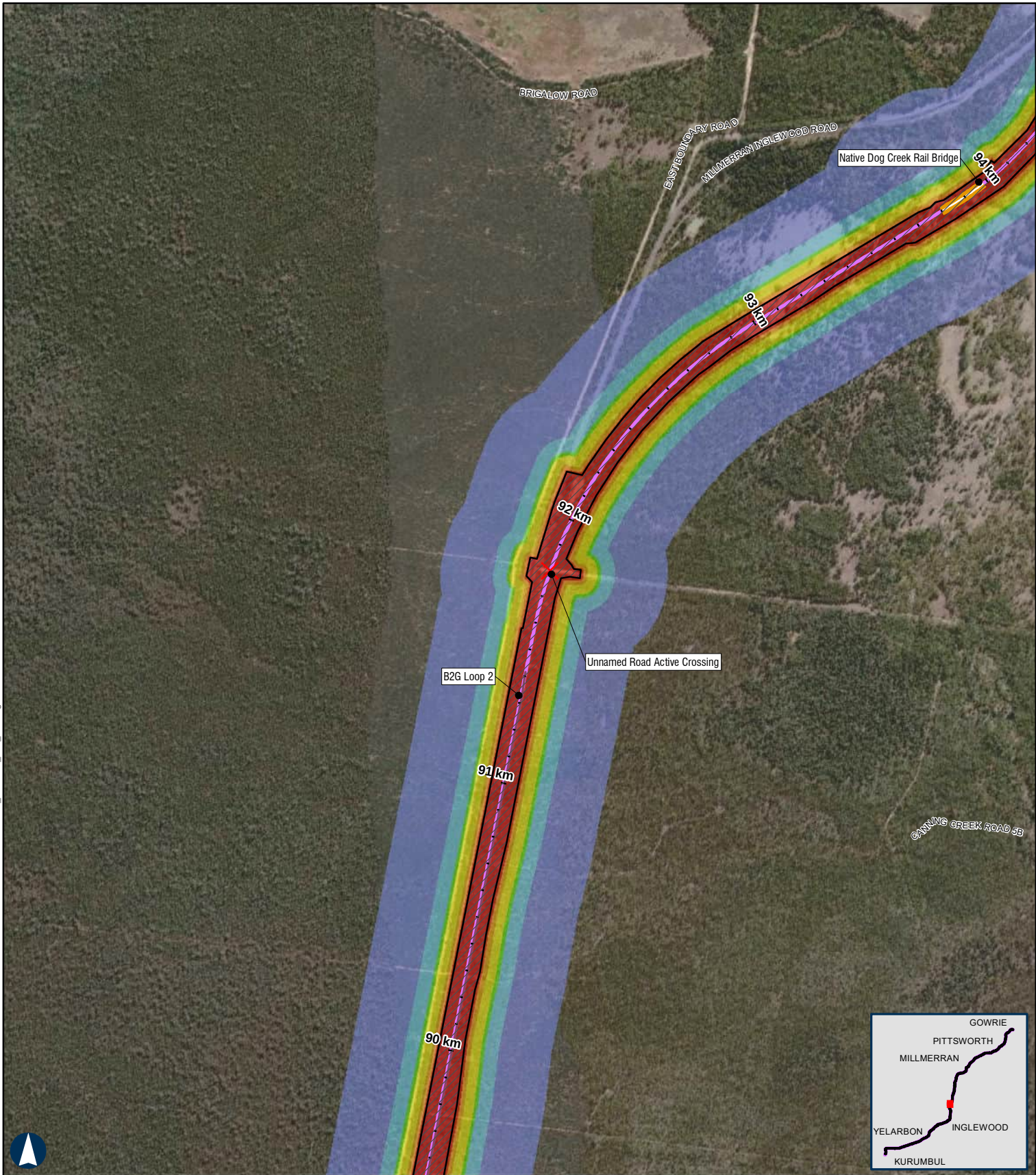
Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m



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BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 29 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

Scale: 1:19,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

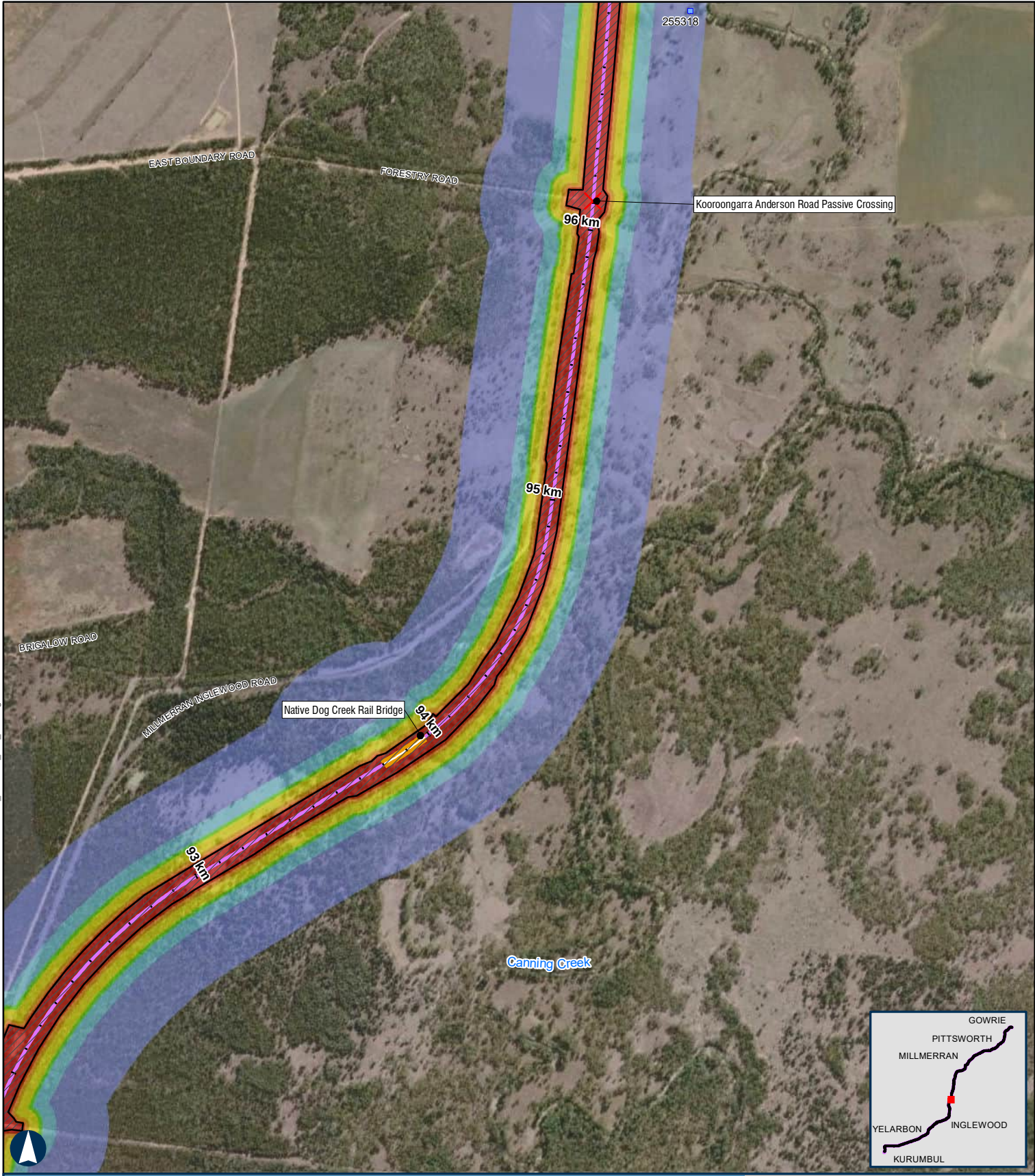
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC InlandRail

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BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 30 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

- ✗ Level Crossings
- Flying Fox Camp
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Koala Habitat Area
- ▨ Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

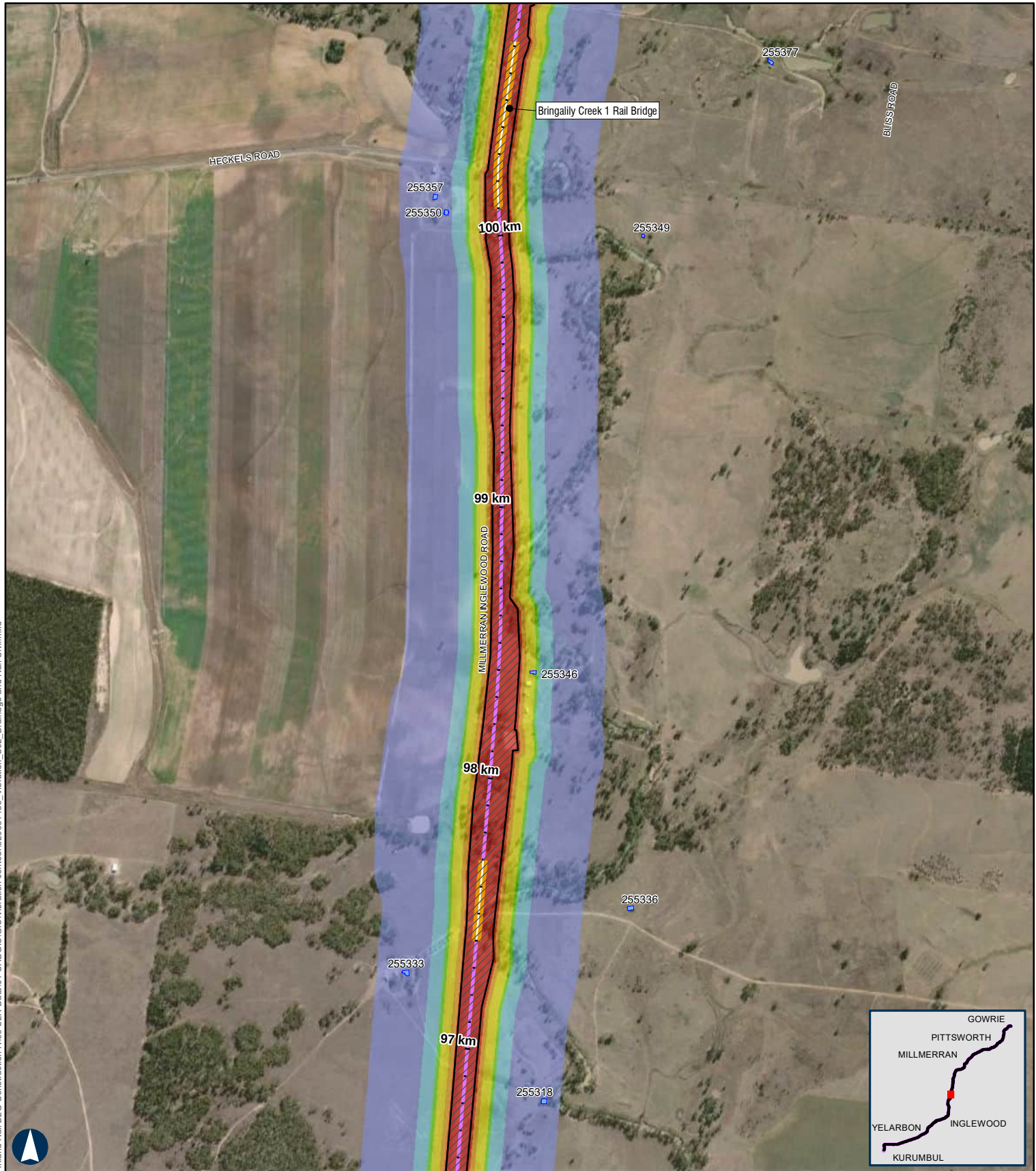
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m



The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation, in partnership with the private sector.



BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 31 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✕ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

□ Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

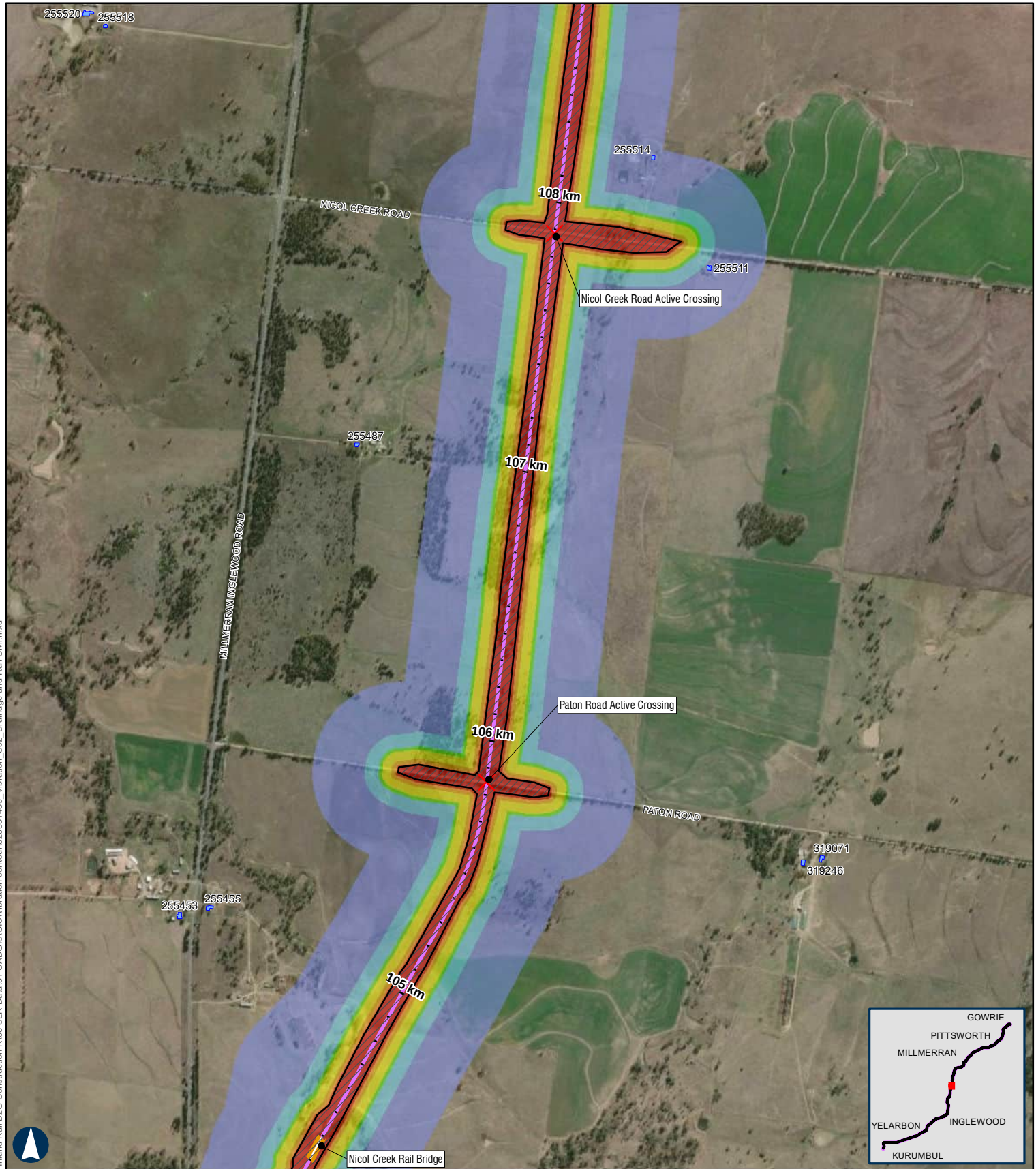
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC **InlandRail**

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BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 33 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

Scale: 1:19,000

✕ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

□ Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

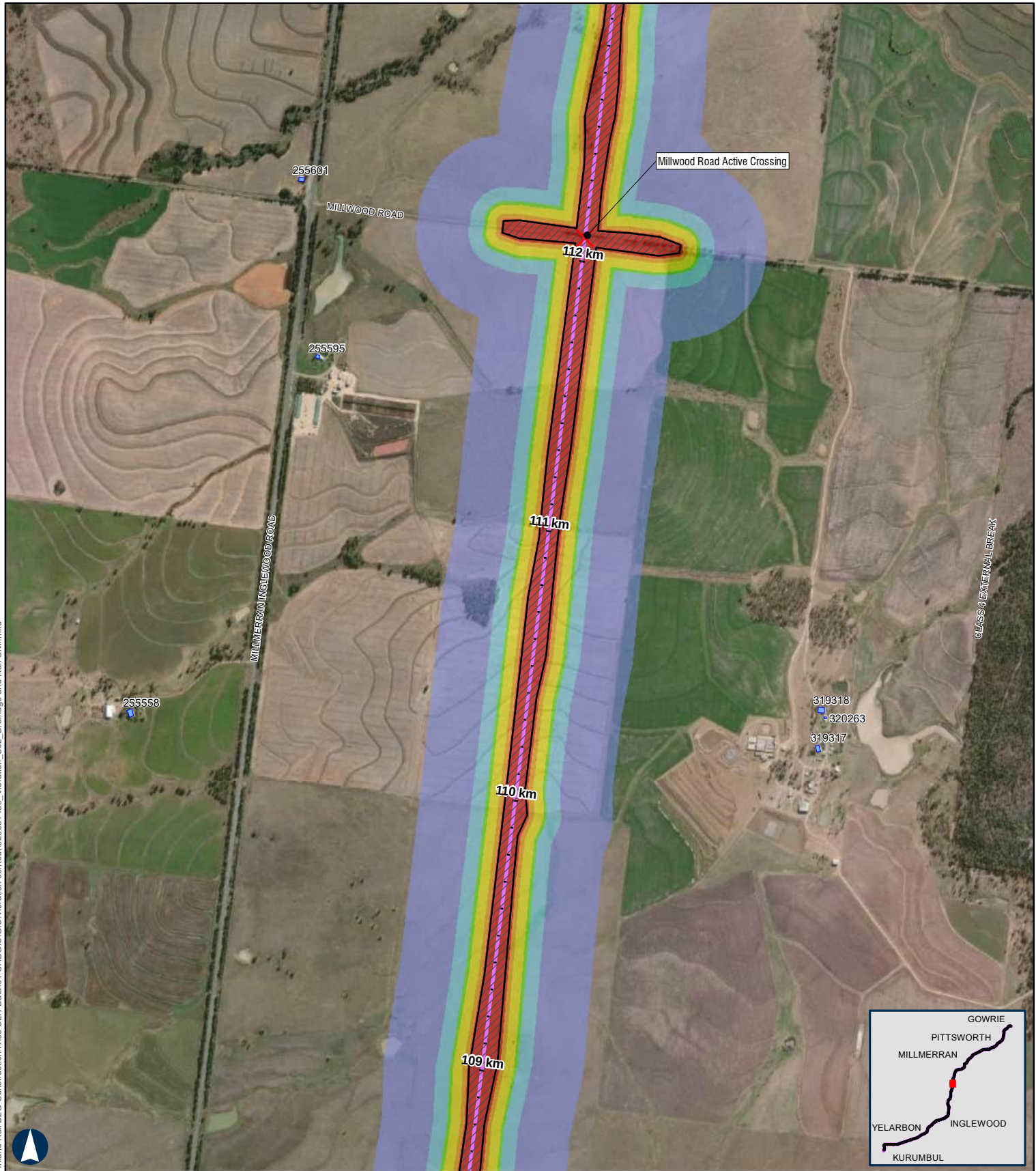
Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m



ARTC **InlandRail**

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BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 34 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

Scale: 1:19,000

- ✗ Level Crossings
- Flying Fox Camp
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Koala Habitat Area
- ▨ Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

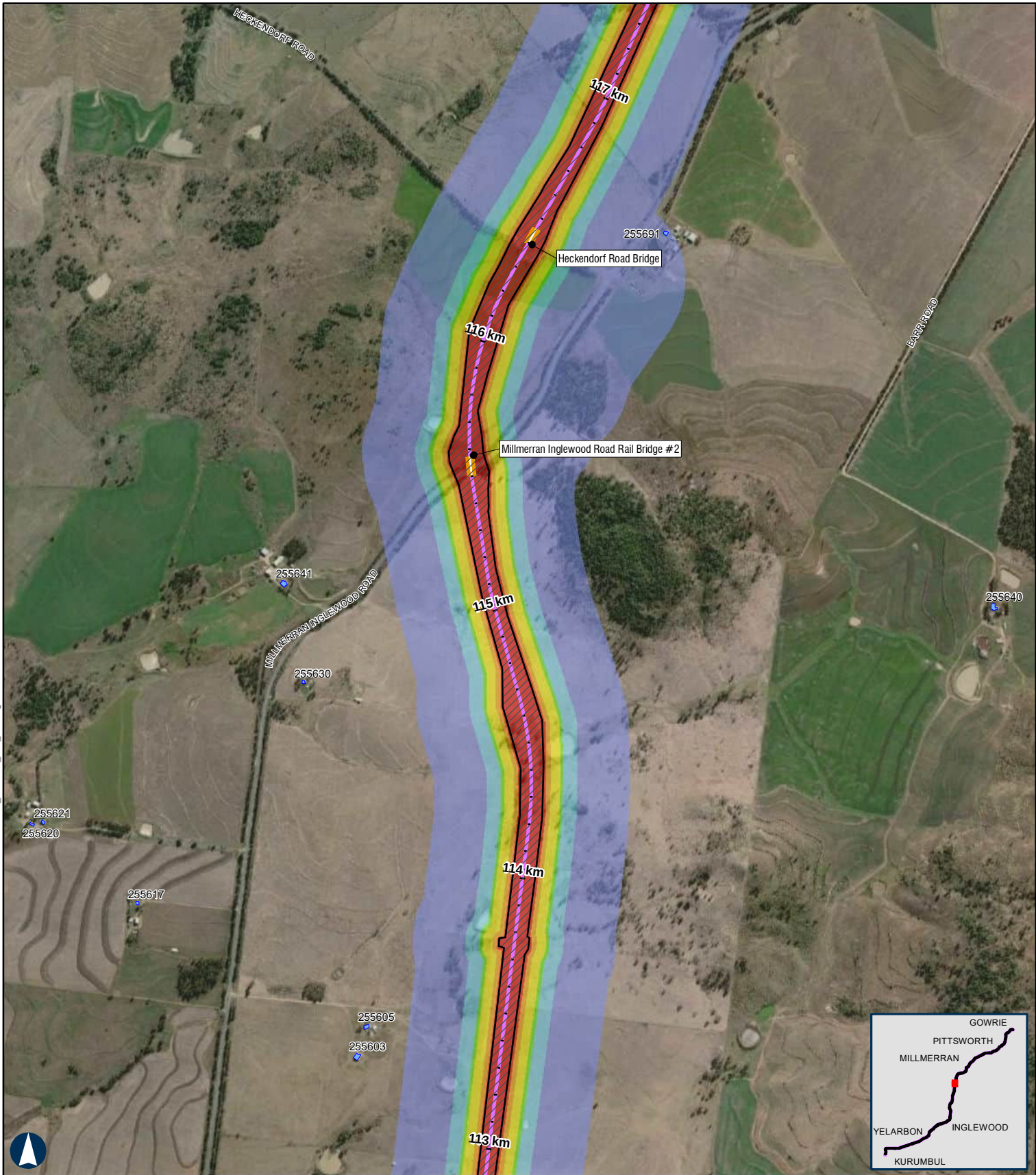
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

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BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 35 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

Scale: 1:19,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distances

Human comfort – non-

standards hours lower

limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

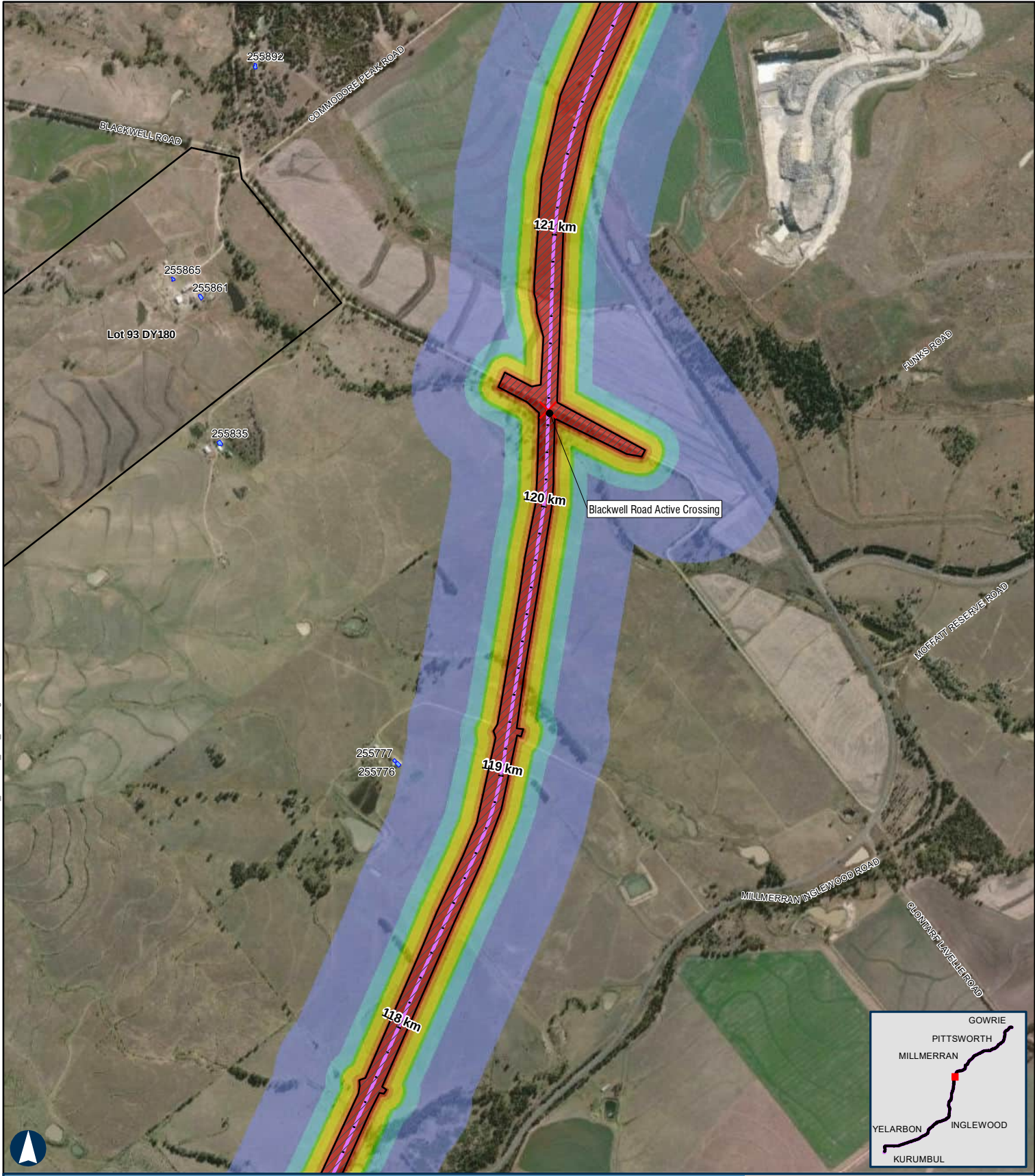
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC InlandRail

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BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 36 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

Level Crossings

Flying Fox Camp

Project Extent

Crossing Loops

Bridges and Viaducts

Rail Alignment/ Centreline

Koala Habitat Area

Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

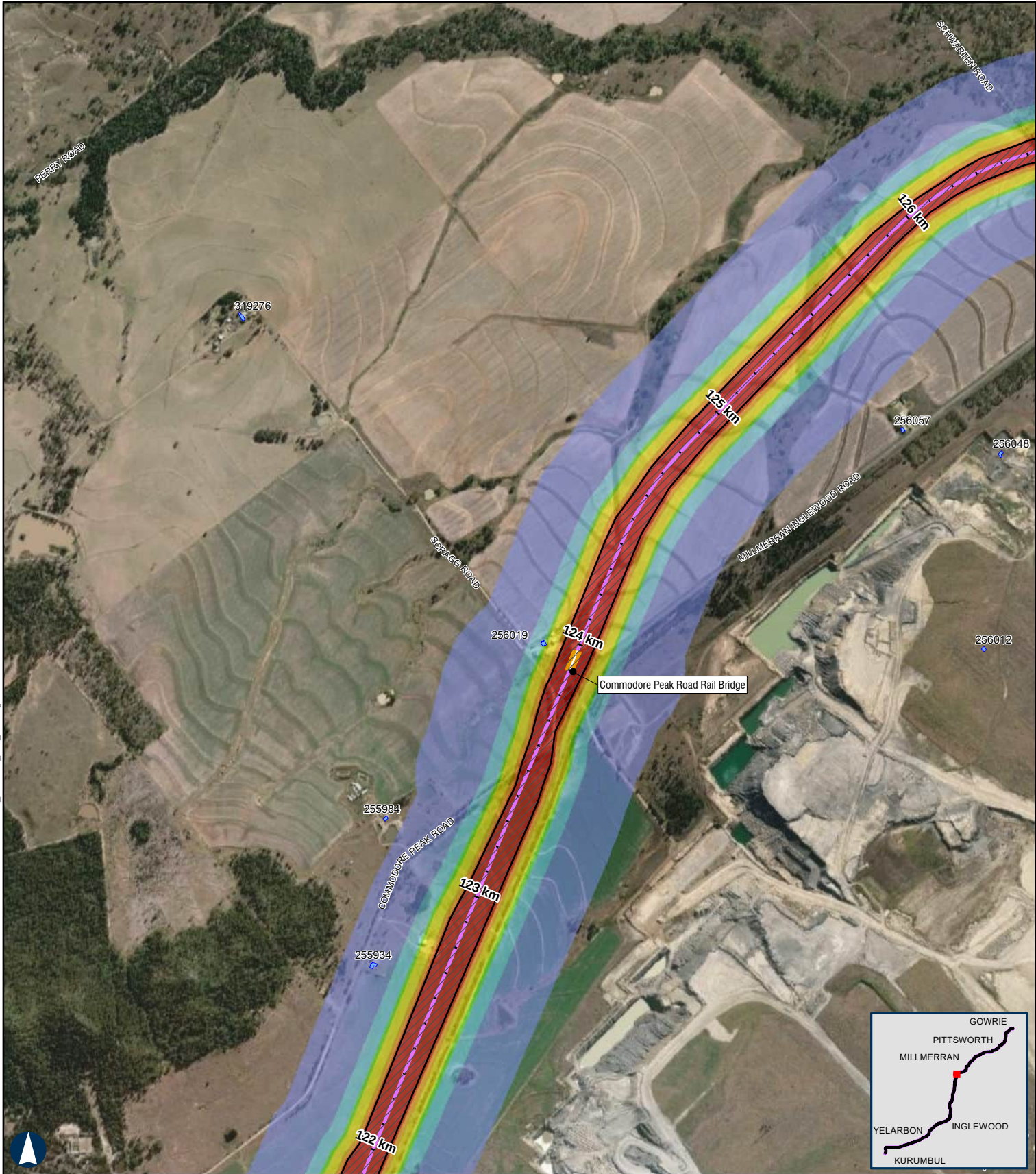
Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation, in partnership with the private sector.



BORDER TO GOWRIE **Scenario 2 - Drainage and Rail Civil**

APPENDIX E - MAP 37 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

Level Crossings

Flying Fox Camp

Project Extent

Crossing Loops

Bridges and Viaducts

Rail Alignment/ Centreline

Koala Habitat Area

Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

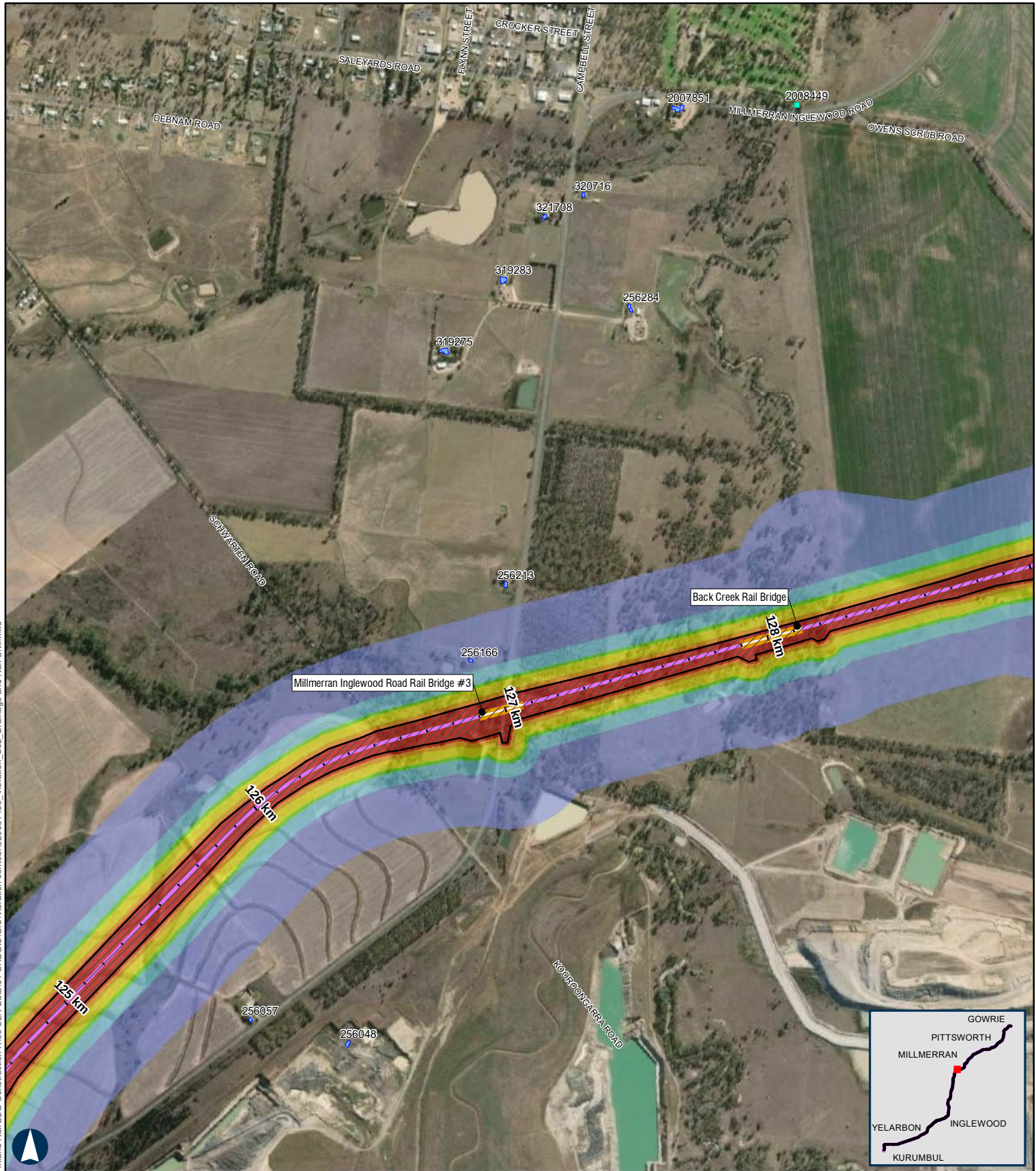
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation, in partnership with the private sector.

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BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 38 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

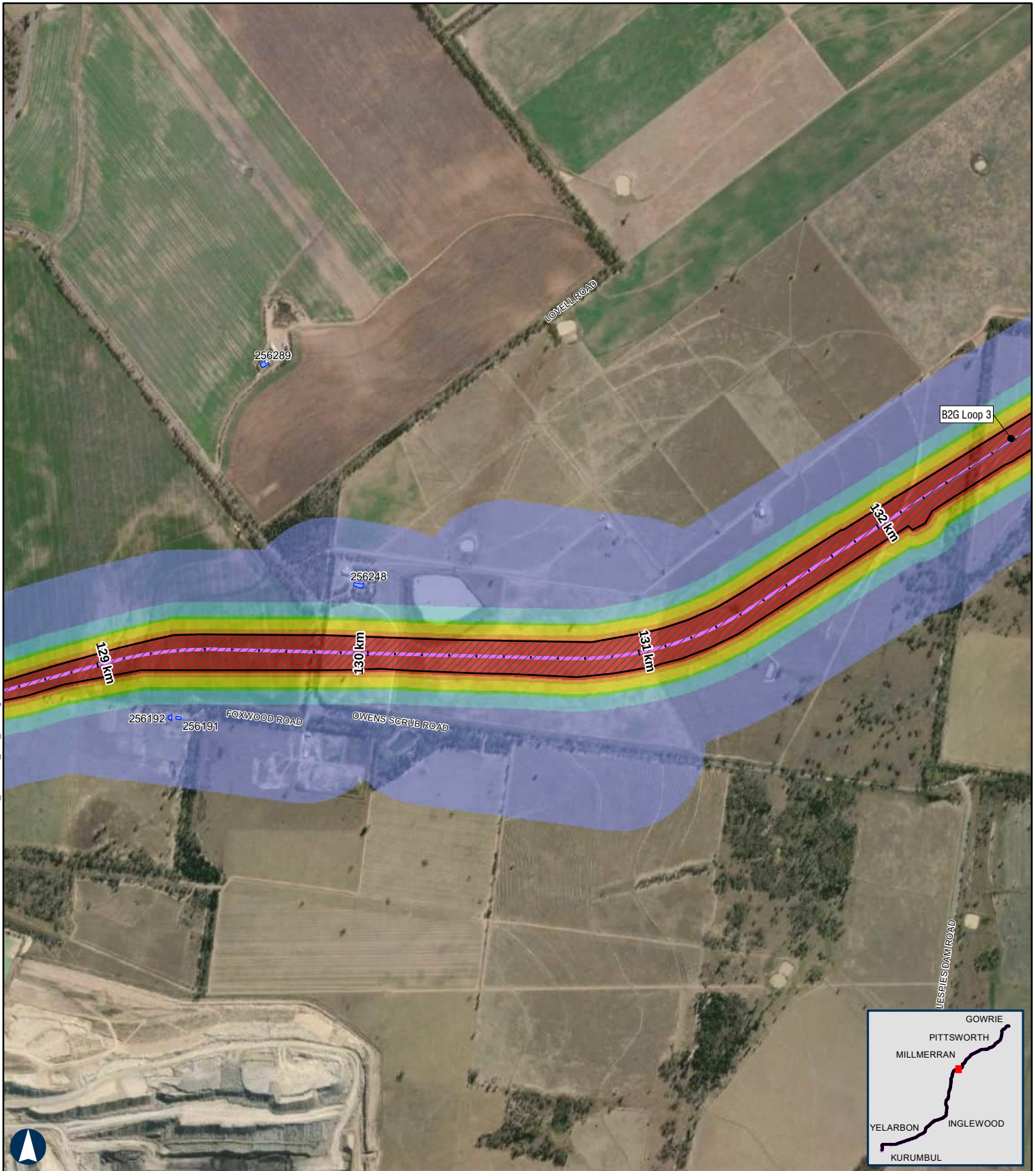
Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC **InlandRail**

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BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 39 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distances
Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

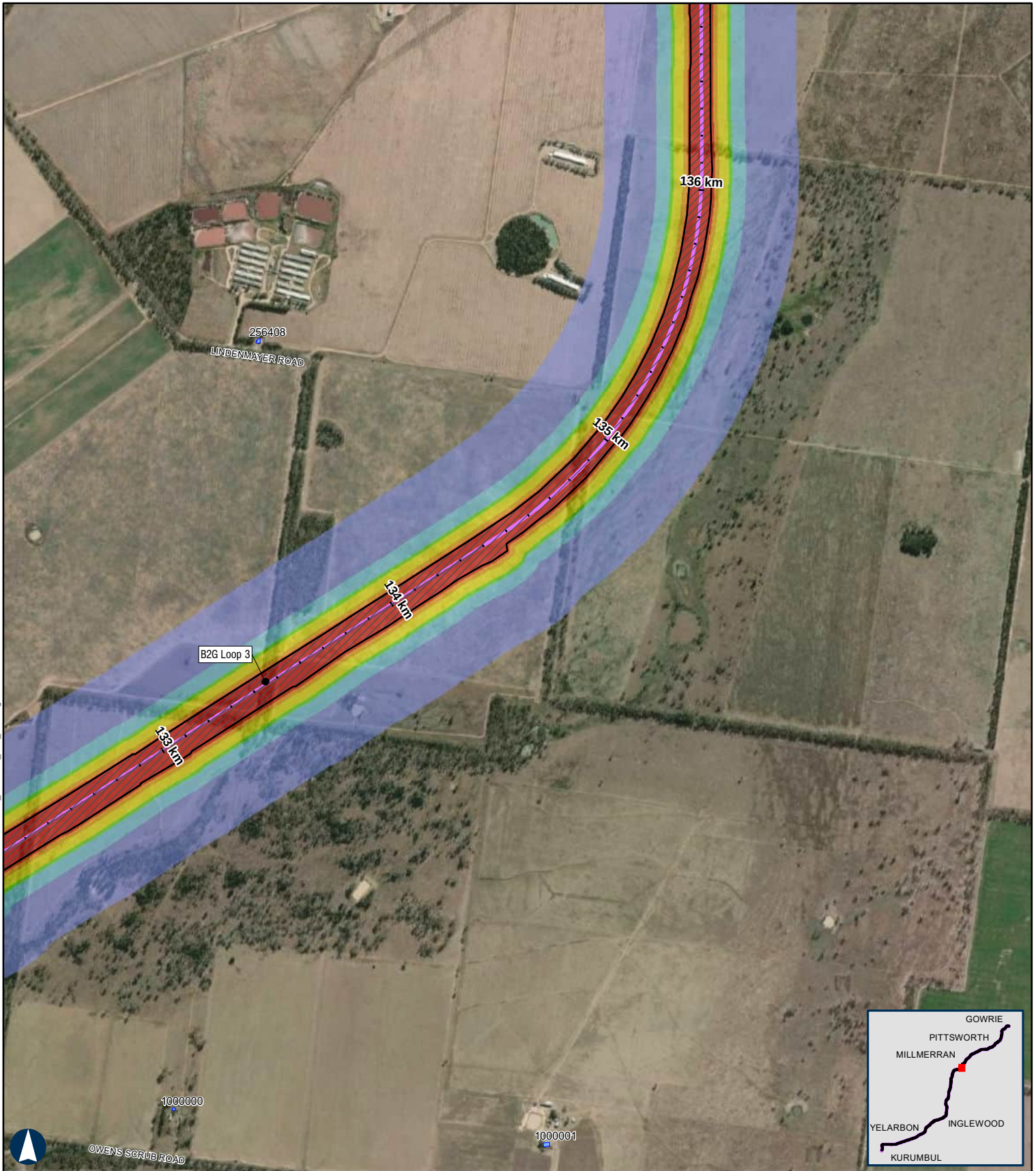
Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC **InlandRail**

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BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 40 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

□ Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

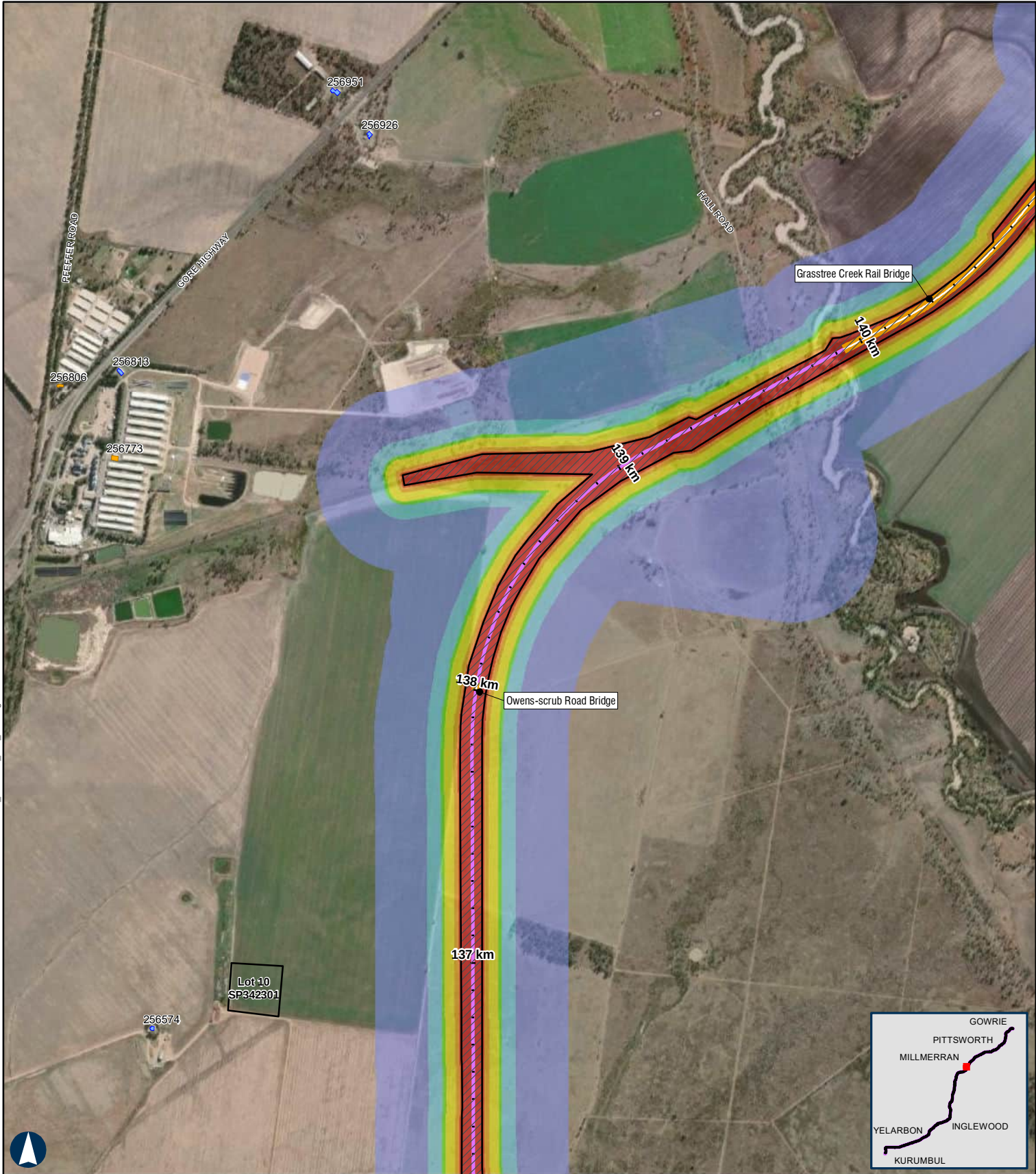
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC **InlandRail**

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BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 41 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

✕ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/ Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

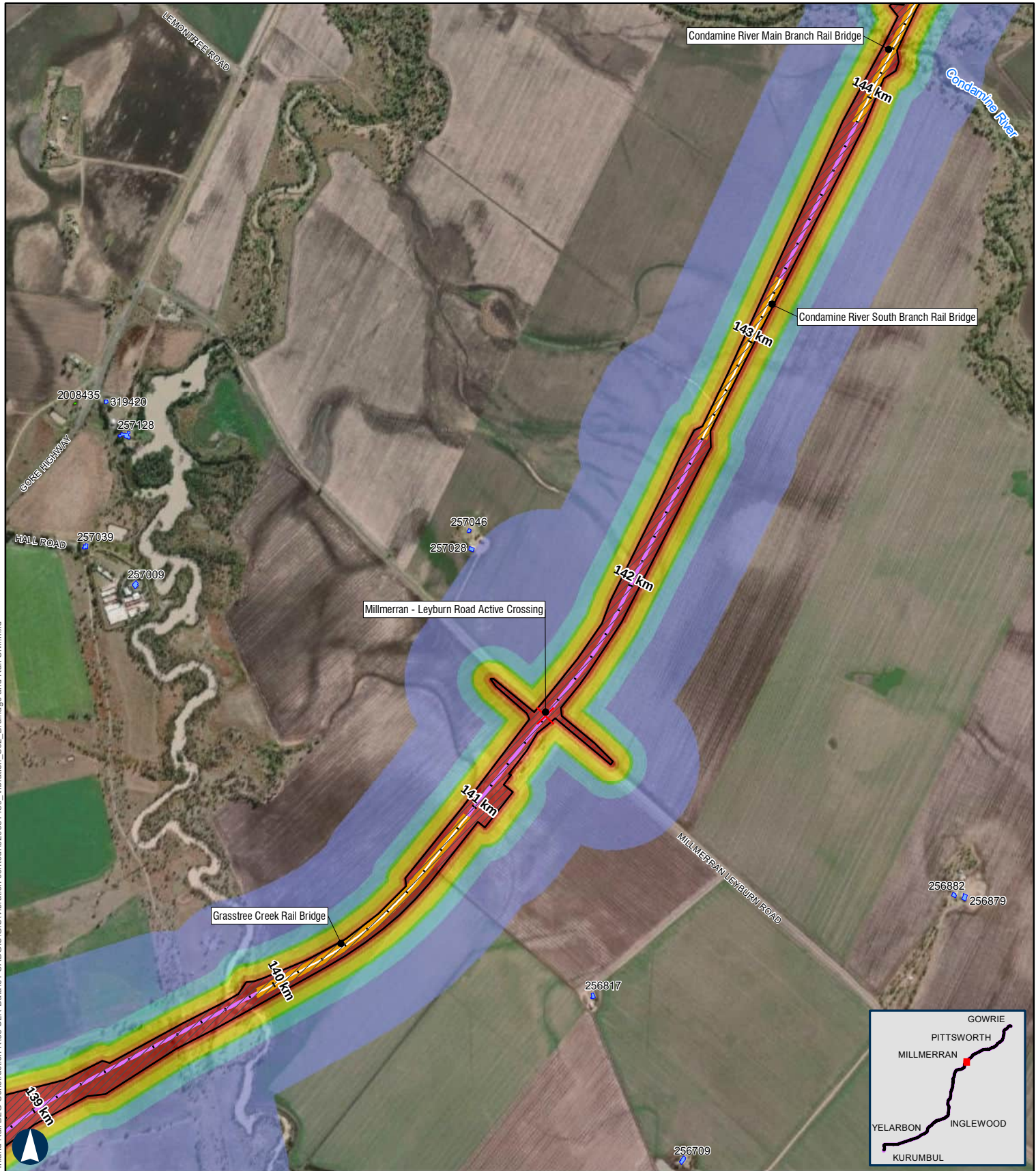
Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m



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BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 42 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✕ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

— Koala Habitat Area

— Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distances

Human comfort – non-

standards hours lower

limit: 0.3 mm/s, 316m

Human comfort –
standards hours lower
limit: 1 mm/s, 124m

Human comfort –
standards hours upper
limit: 2 mm/s, 72m

Heritage structures:
2.5 mm/s, 60m

Residential or light
framed commercial:
7.5 mm/s, 25m

Industrial or framed
commercial: 25 mm/s,
8m

ARTC **InlandRail**

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BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 43 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:19,000
Date: 15-Nov-2024
Author: JG

- ✗ Level Crossings
- Flying Fox Camp
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Koala Habitat Area
- ▨ Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m



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BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 44 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✕ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

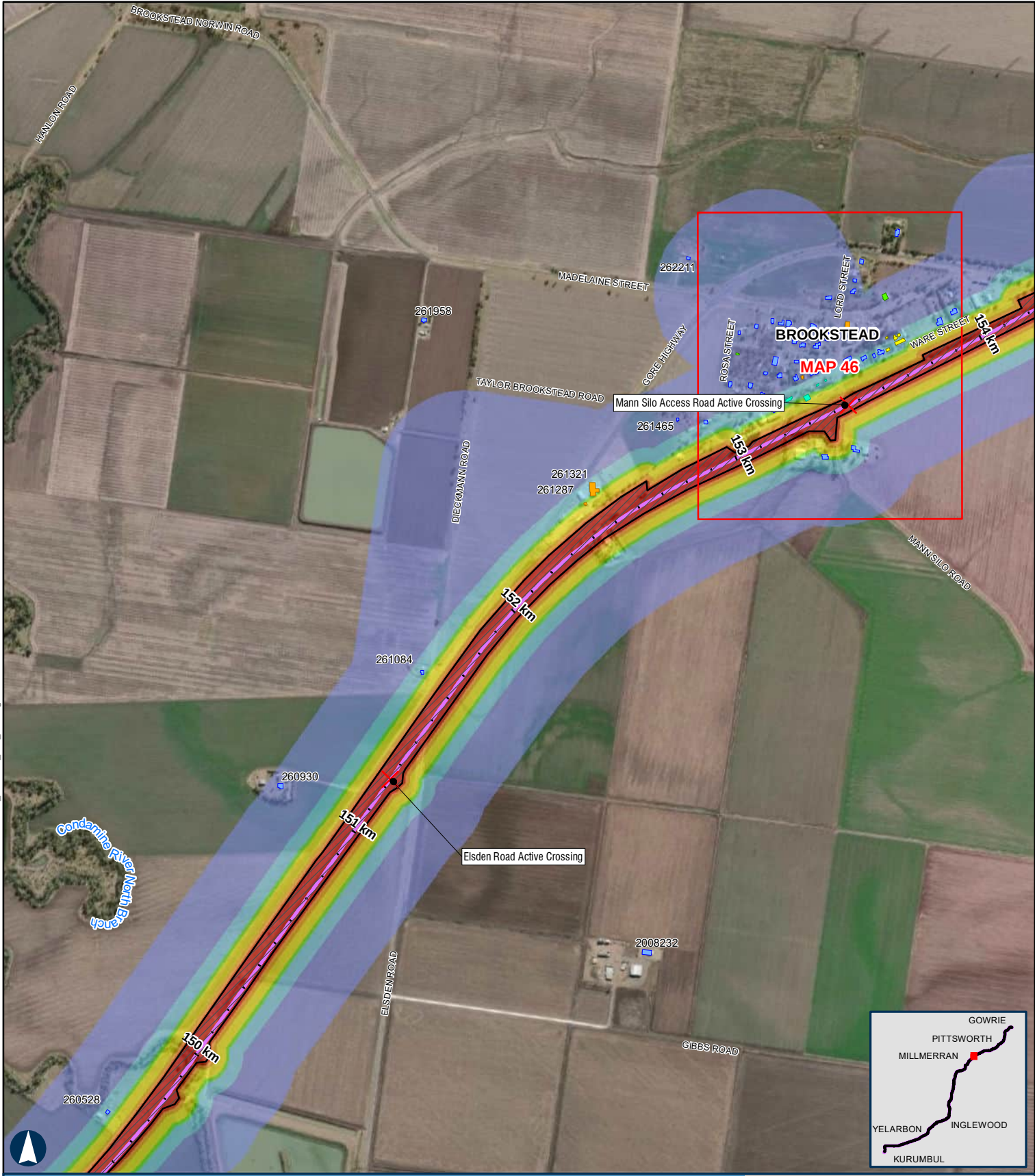
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC InlandRail

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BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 45 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:19,000
Date: 15-Nov-2024
Author: JG

- ✕ Level Crossings
- Flying Fox Camp
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Koala Habitat Area
- ▨ Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

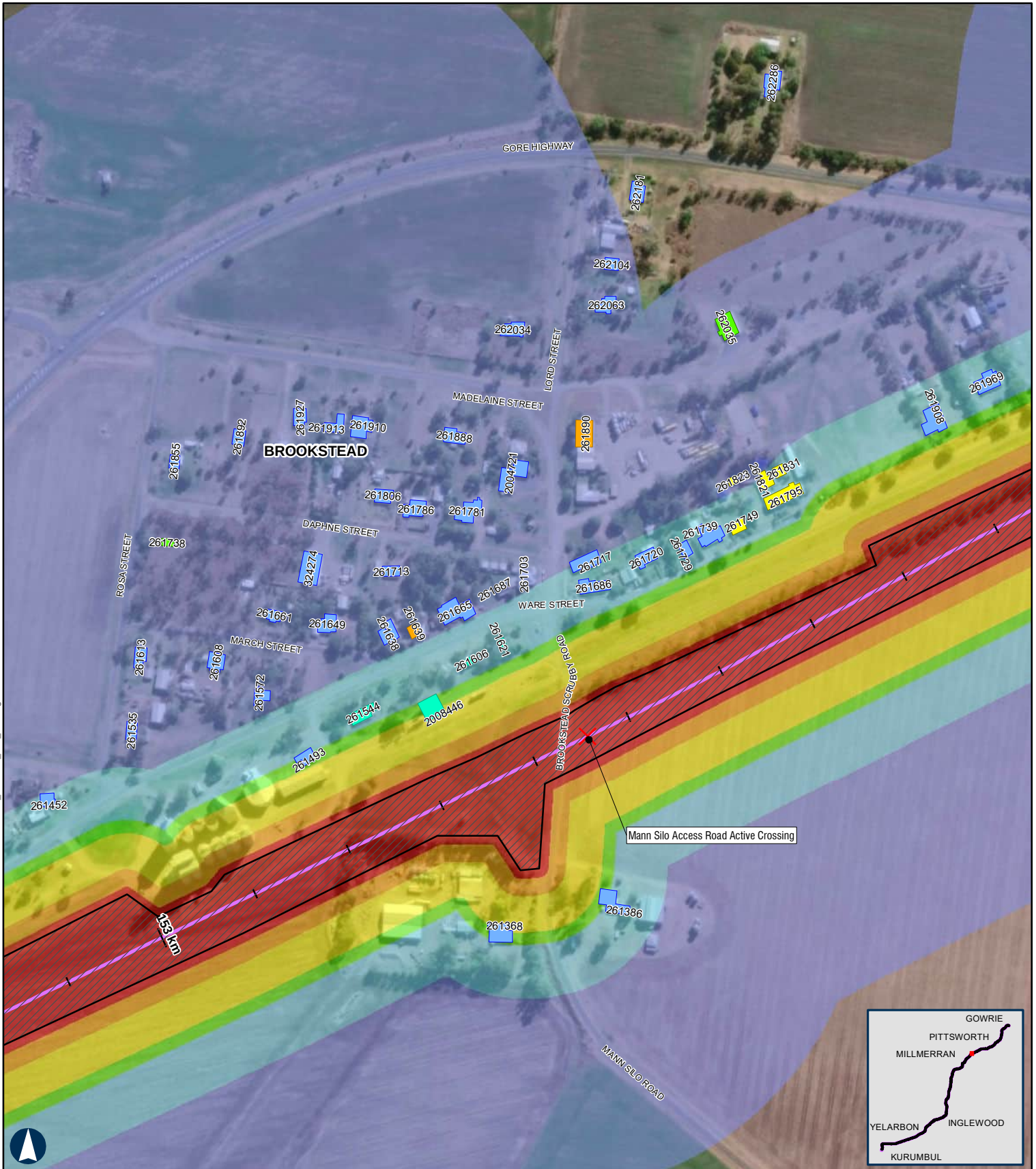
Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m



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BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 46 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:5,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

— Koala Habitat Area

— Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC InlandRail

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BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 47 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 15-Nov-2024
Author: JG

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/ Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m



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BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 48 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✕ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

□ Future Developments

Safe Working Distances

Human comfort – non-

standards hours lower

limit: 0.3 mm/s, 316m

Human comfort –

standards hours lower

limit: 1 mm/s, 124m

Human comfort –

standards hours upper

limit: 2 mm/s, 72m

Heritage structures:

2.5 mm/s, 60m

Residential or light

framed commercial:

7.5 mm/s, 25m

Industrial or framed

commercial: 25 mm/s,

8m

ARTC InlandRail

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BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 49 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distances

Human comfort – non-

standards hours lower

limit: 0.3 mm/s, 316m

Human comfort –

standards hours lower

limit: 1 mm/s, 124m

Human comfort –

standards hours upper

limit: 2 mm/s, 72m

Heritage structures:

2.5 mm/s, 60m

Residential or light

framed commercial:

7.5 mm/s, 25m

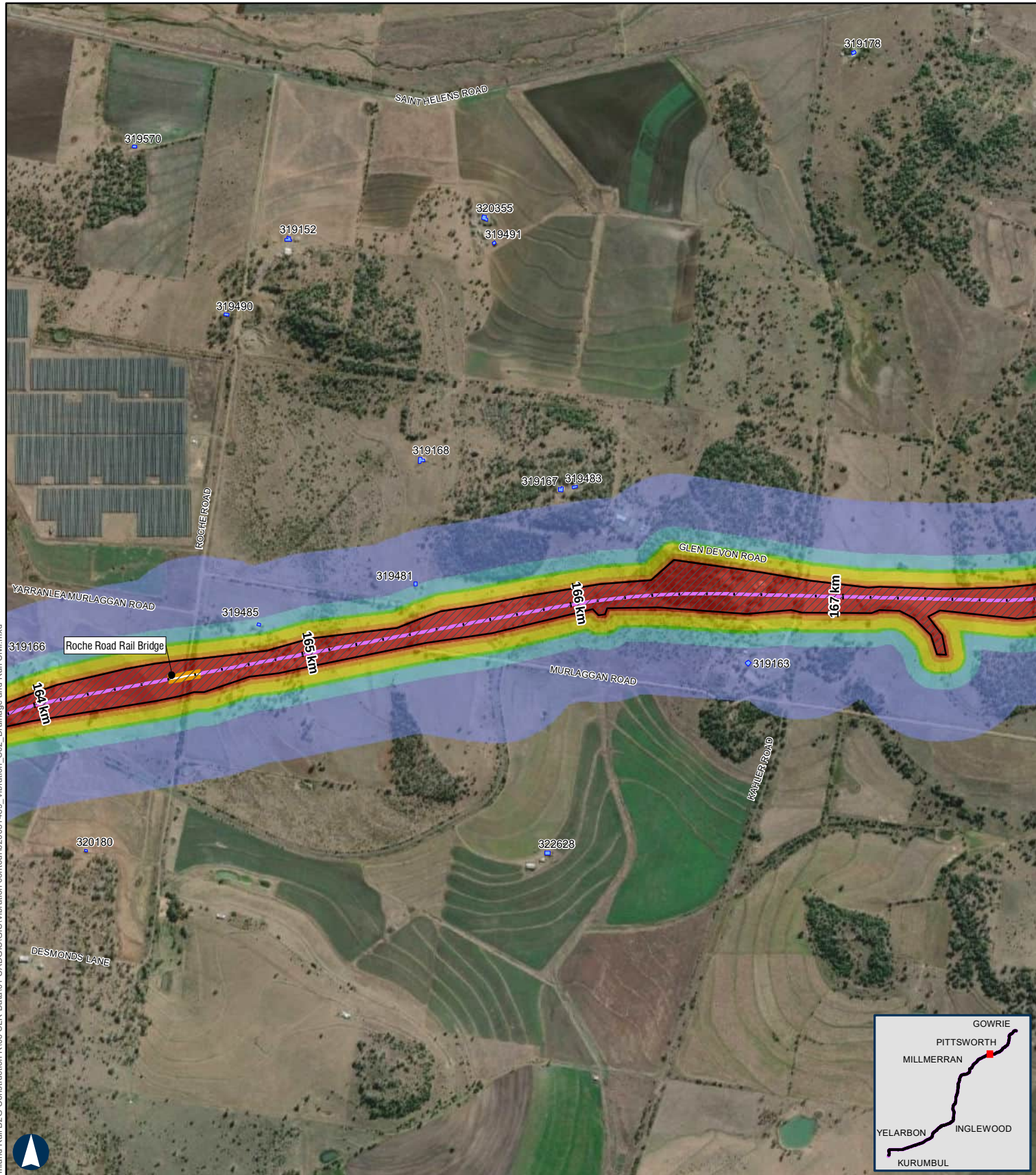
Industrial or framed

commercial: 25 mm/s, 8m



ARTC **InlandRail**

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BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 50 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

— Koala Habitat Area

— Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

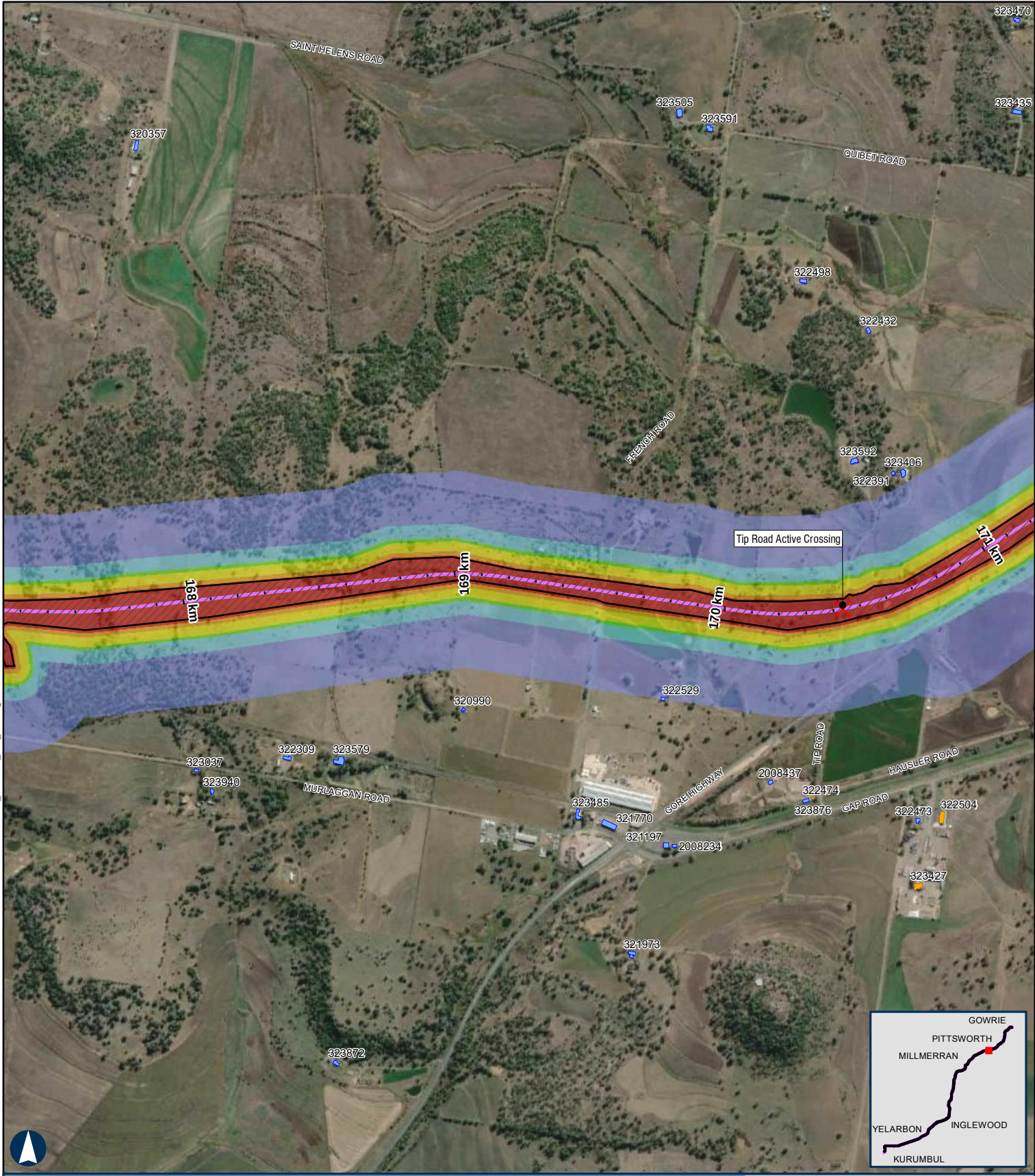
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC InlandRail

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BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 51 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✕ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

— Koala Habitat Area

— Work Area

**Sensitive Receptor
Type**

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

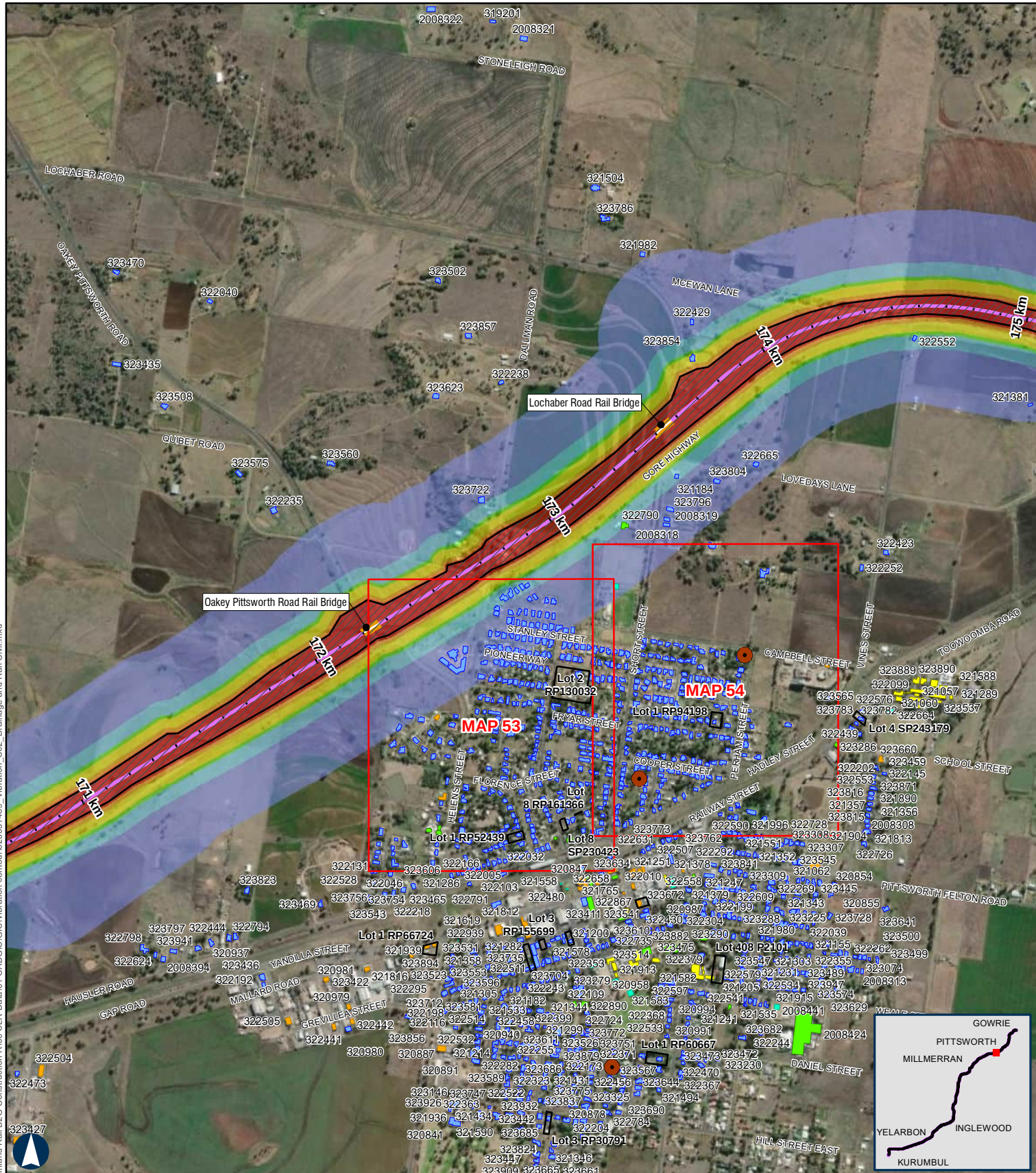
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m



ARTC **InlandRail**
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation, in partnership with the private sector.



BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 52 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

□ Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

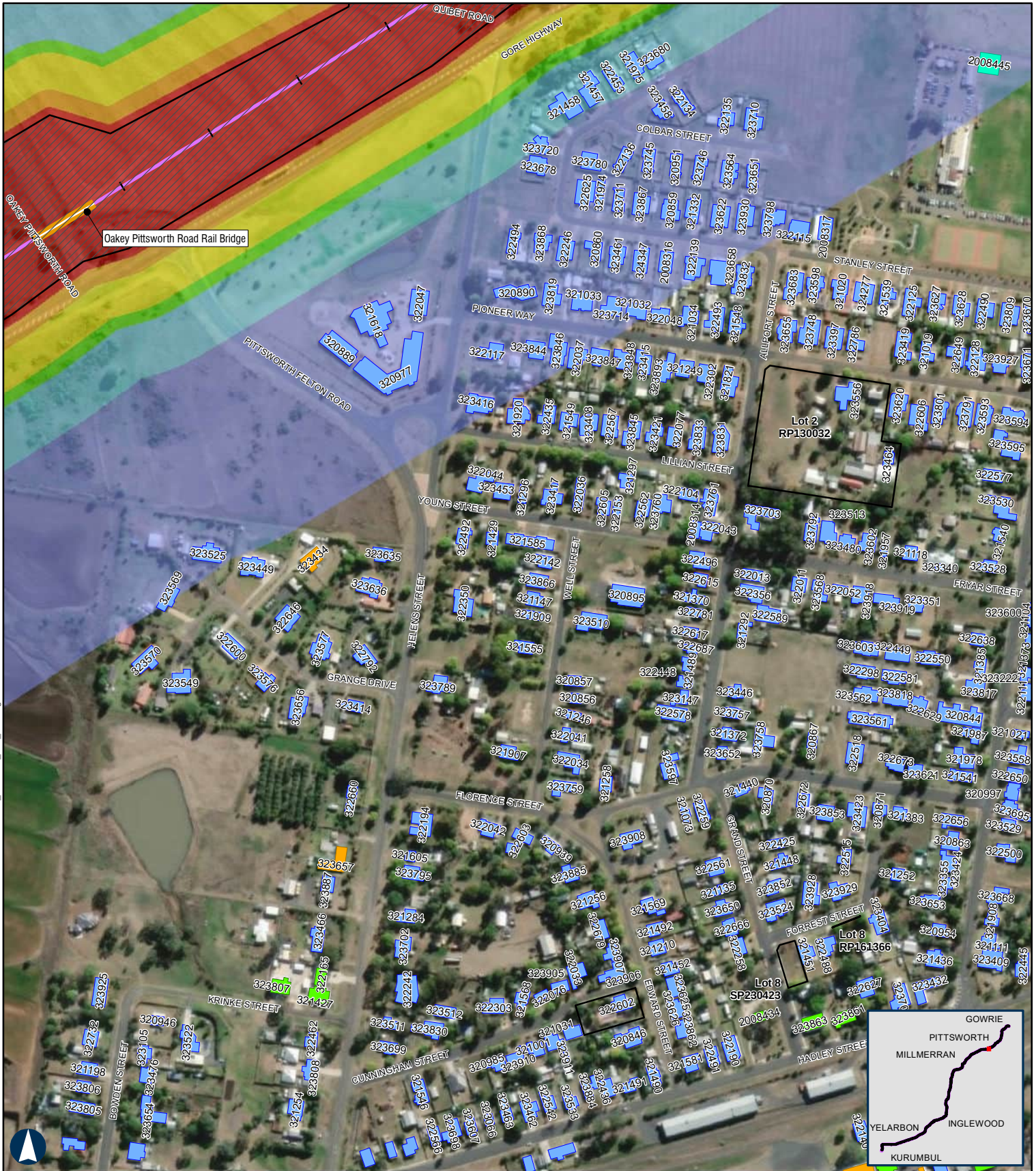
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC **InlandRail**

The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation, in partnership with the private sector.



BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 53 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:5,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC InlandRail

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BORDER TO GOWRIE

Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 54 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:5,000

✕ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

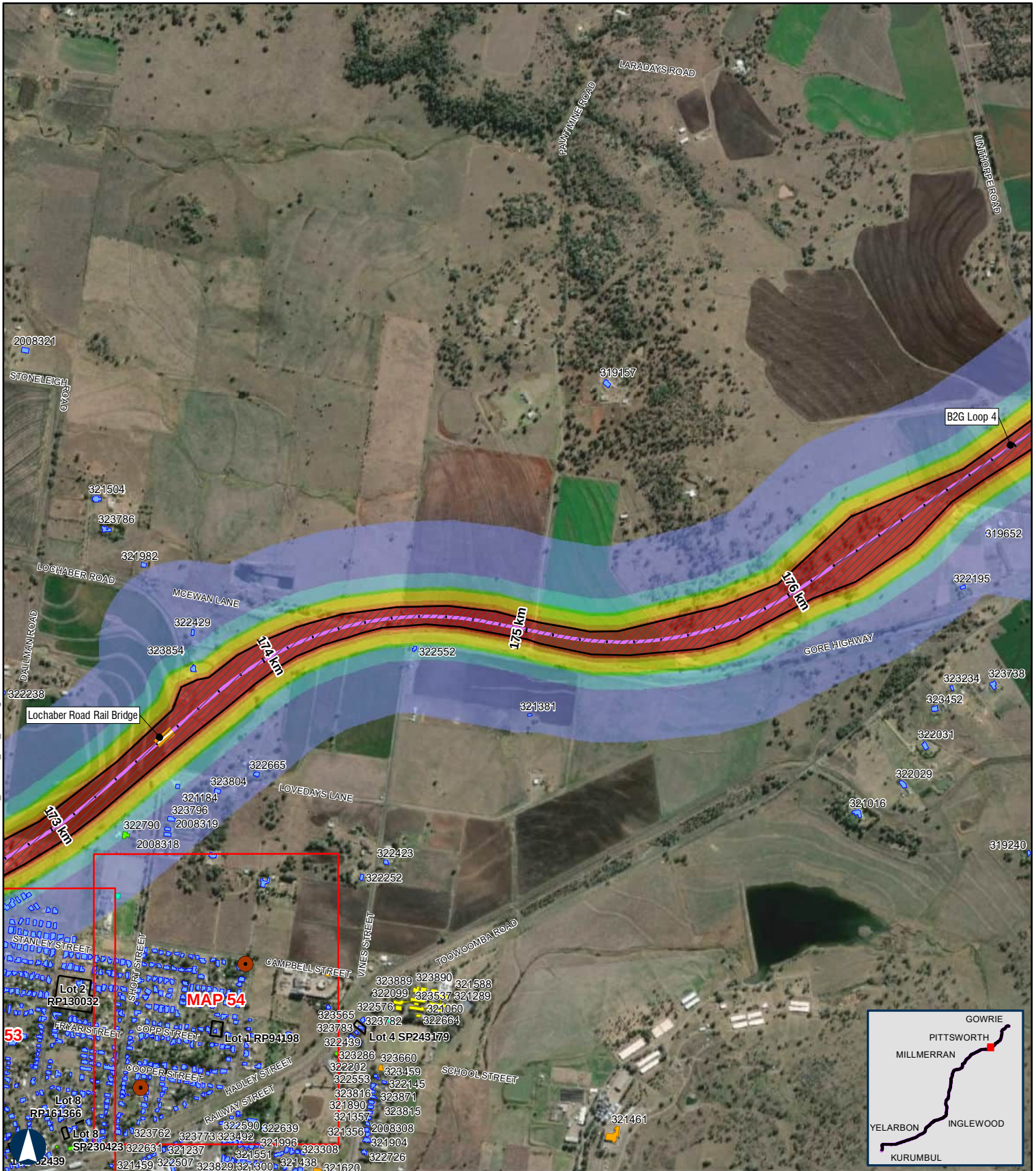
Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC **InlandRail**

The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation, in partnership with the private sector.

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BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 55 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✕ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

□ Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

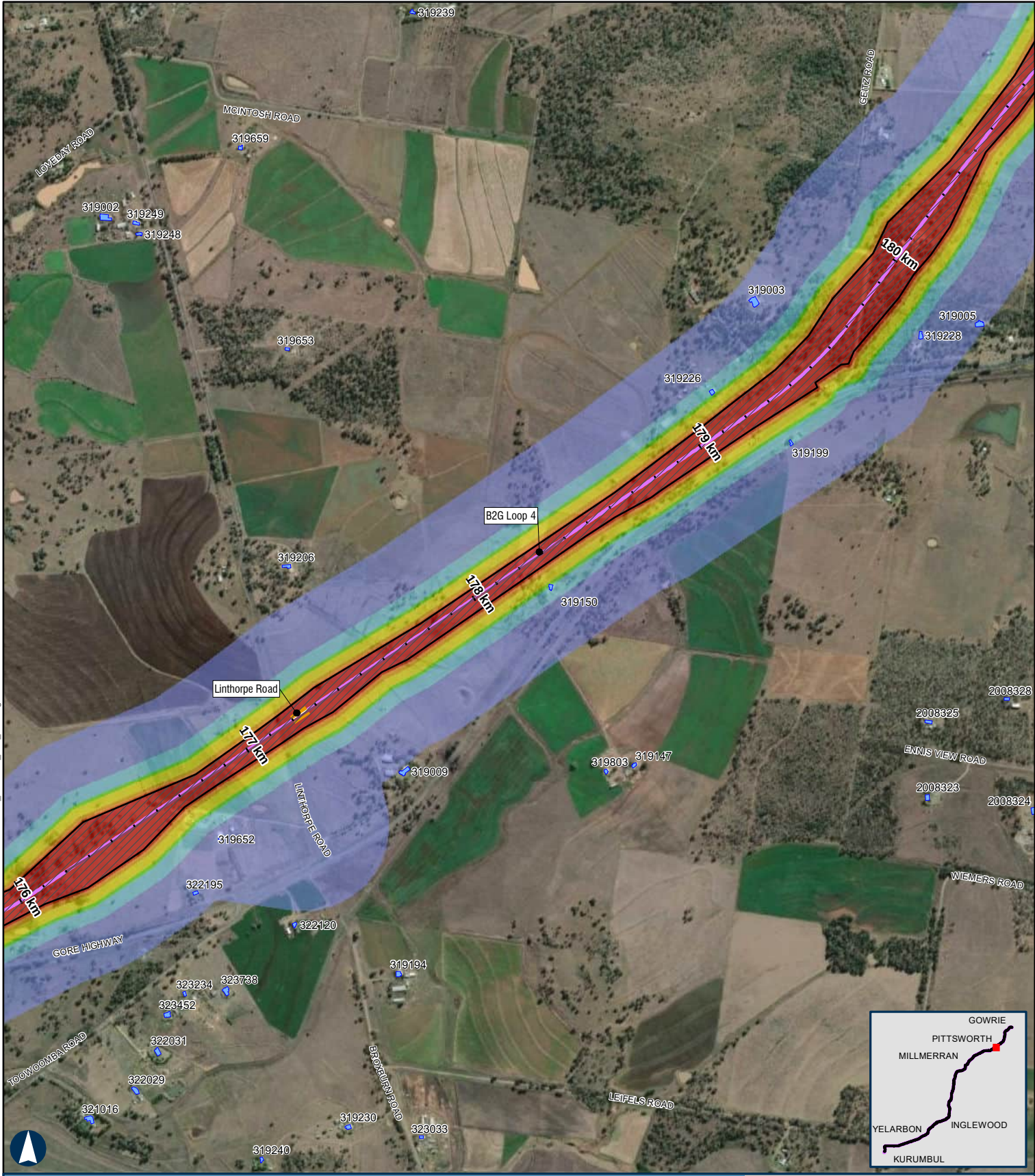
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC **InlandRail**

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BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 56 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/ Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

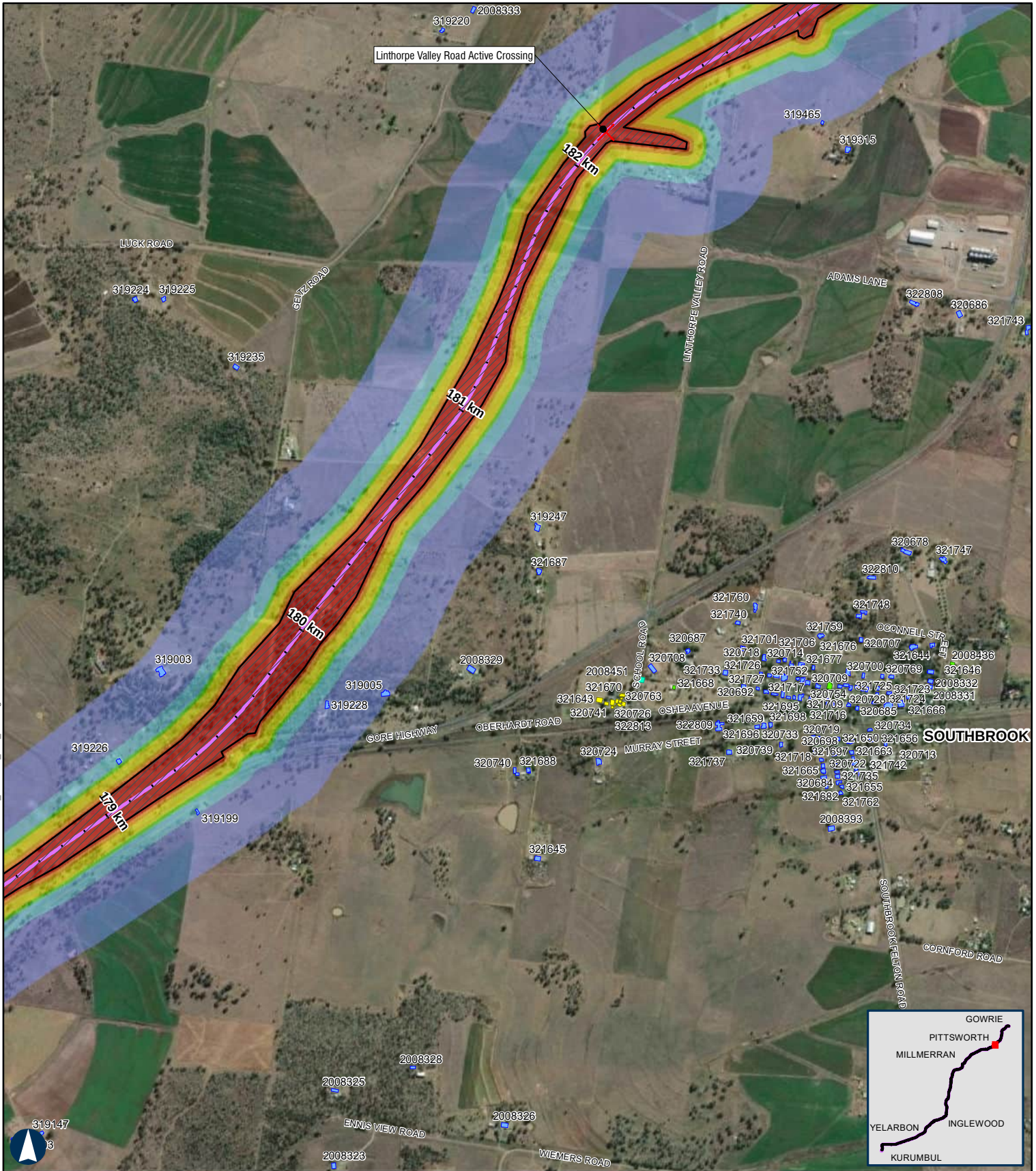
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m



The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation, in partnership with the private sector.



BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 57 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✕ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

□ Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

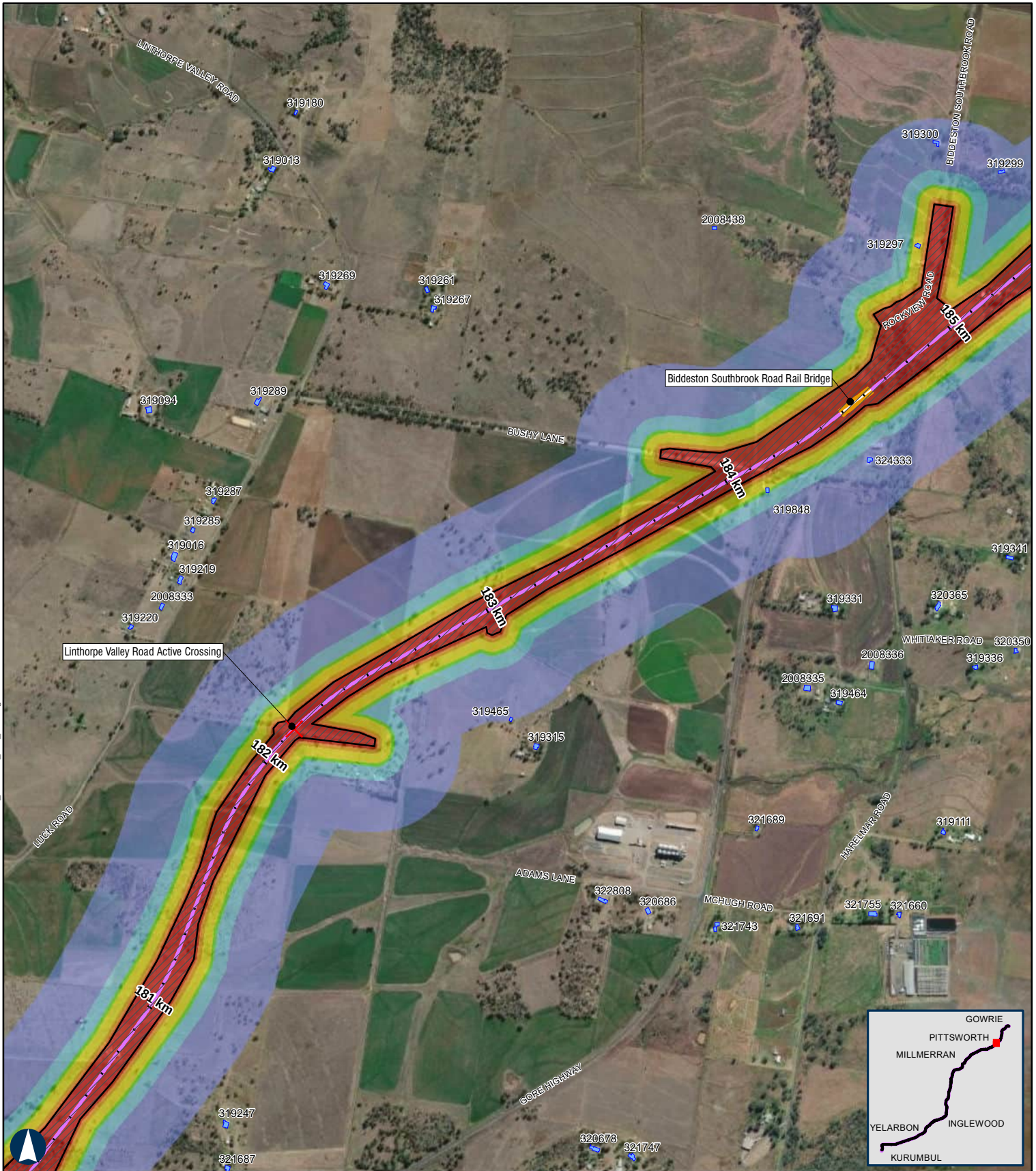
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC InlandRail

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BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 58 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

□ Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

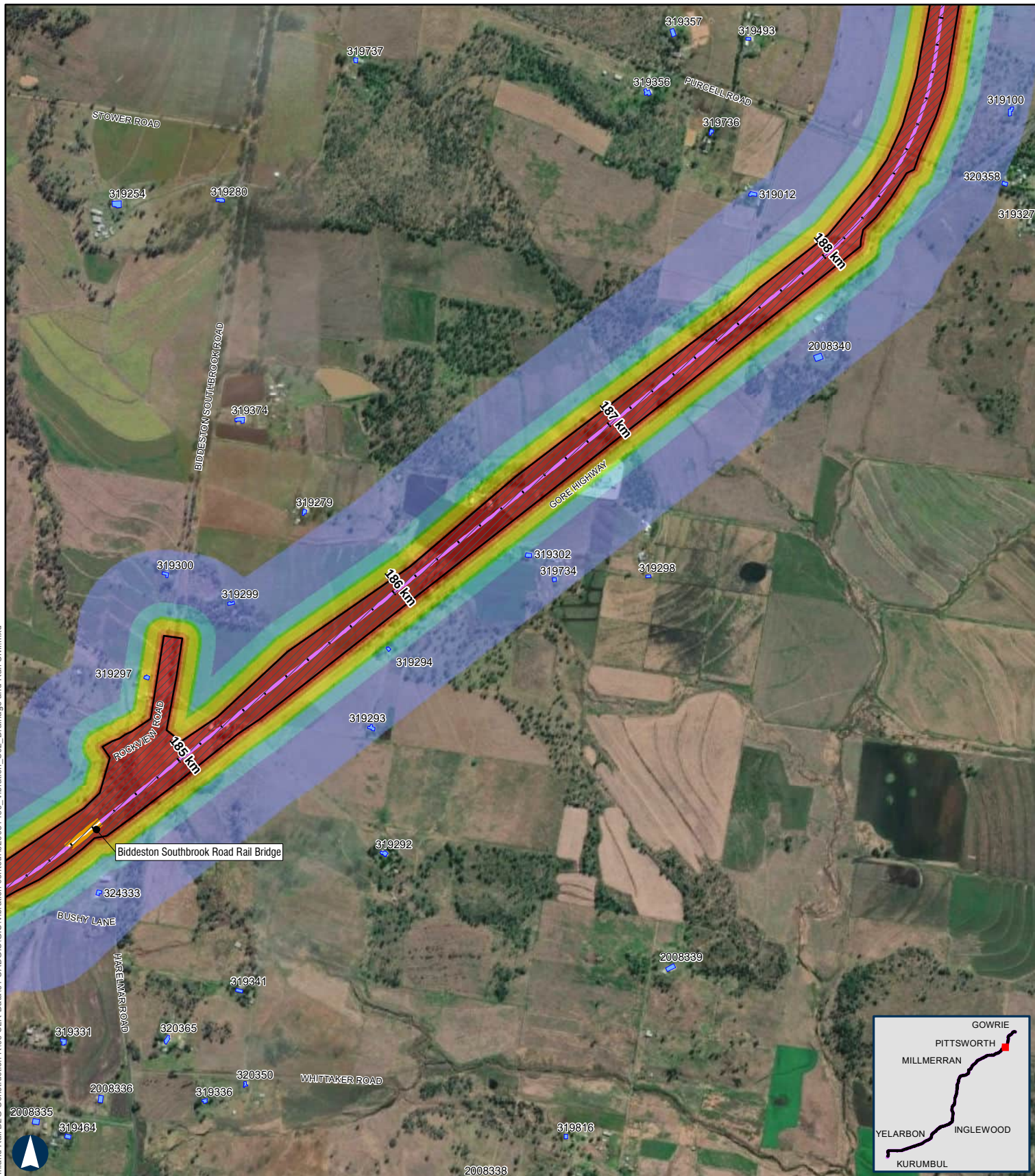
Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC **InlandRail**

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BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 59 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

□ Future Developments

Safe Working Distances

Human comfort – non-

standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC InlandRail

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BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 60 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distances

Human comfort – non-

standards hours lower

limit: 0.3 mm/s, 316m

Human comfort –
standards hours lower
limit: 1 mm/s, 124m

Human comfort –
standards hours upper
limit: 2 mm/s, 72m

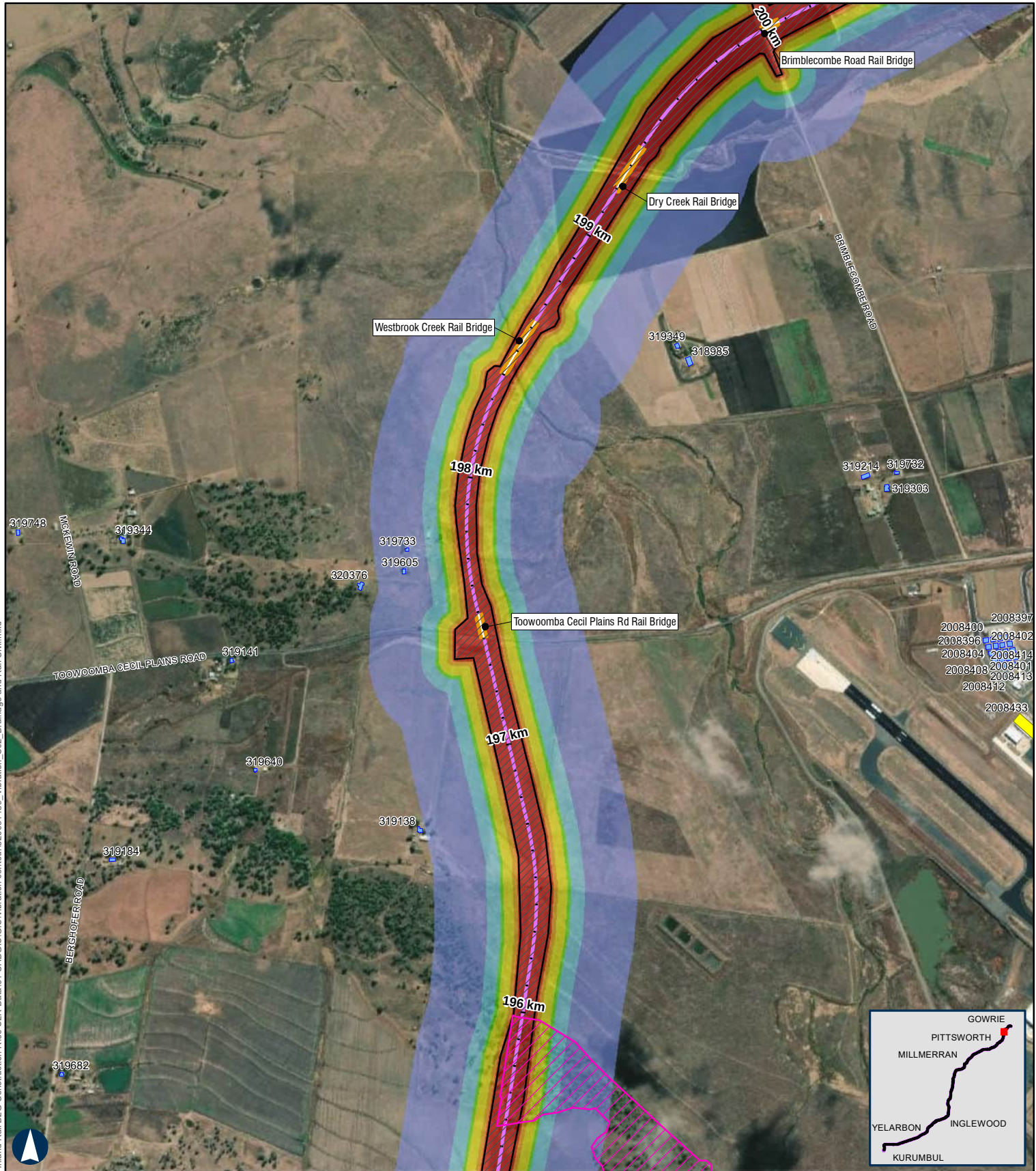
Heritage structures:
2.5 mm/s, 60m

Residential or light
framed commercial:
7.5 mm/s, 25m

Industrial or framed
commercial: 25 mm/s,
8m

ARTC InlandRail

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BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 62 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✕ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

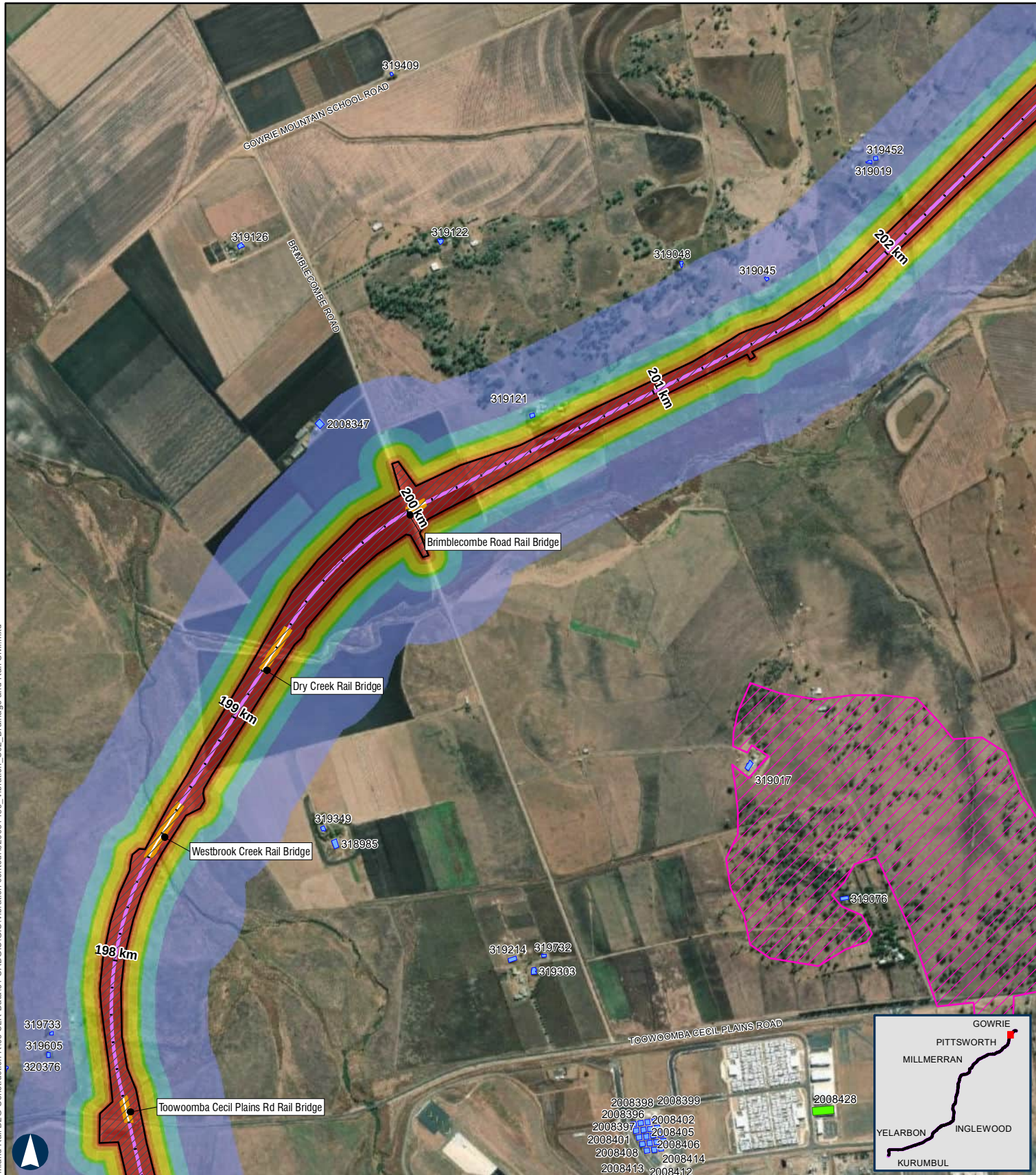
Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m



ARTC **InlandRail**

The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation, in partnership with the private sector.



BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 63 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

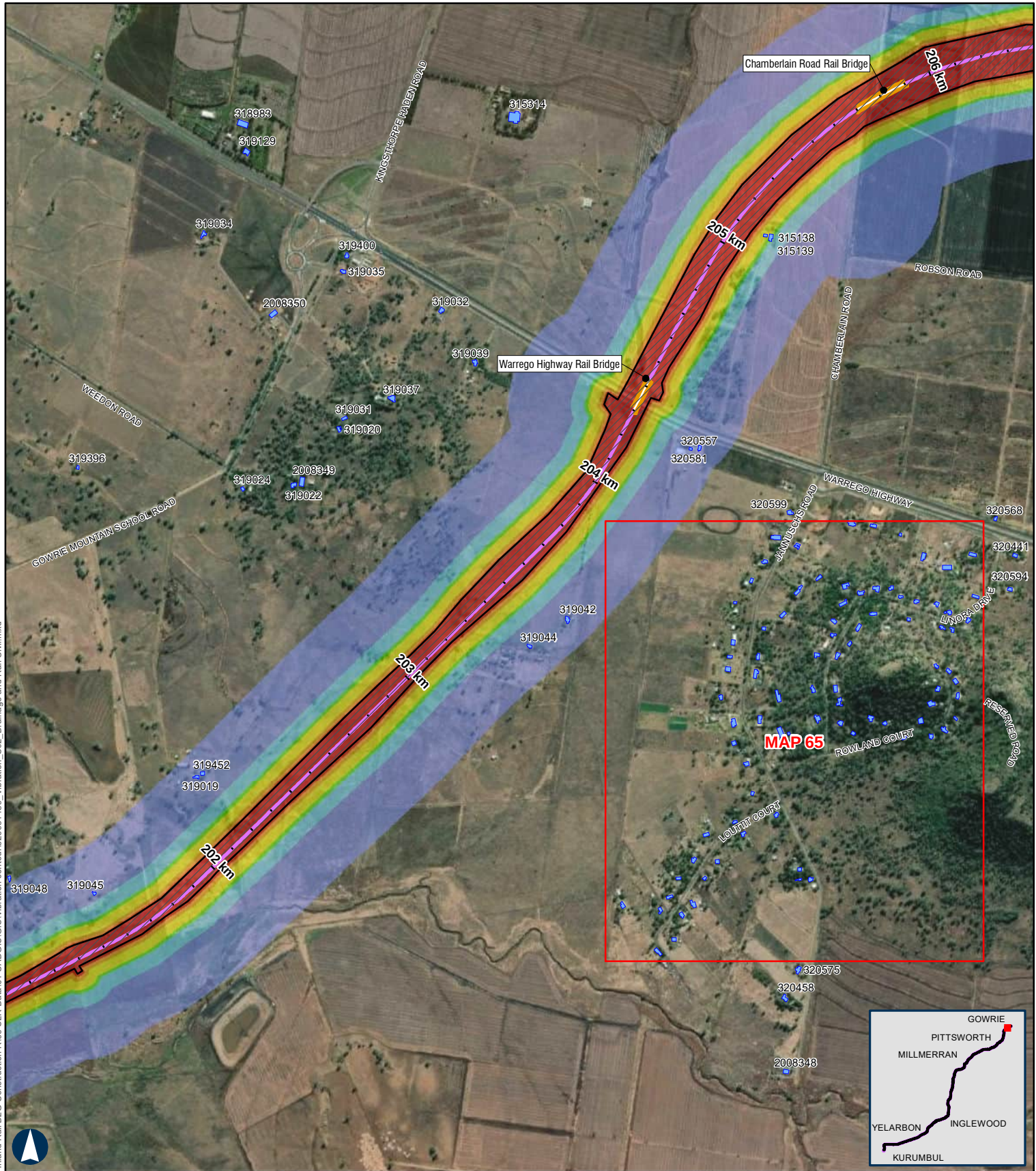
Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m



ARTC **InlandRail**

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BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 64 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

— Koala Habitat Area

— Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distances
Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

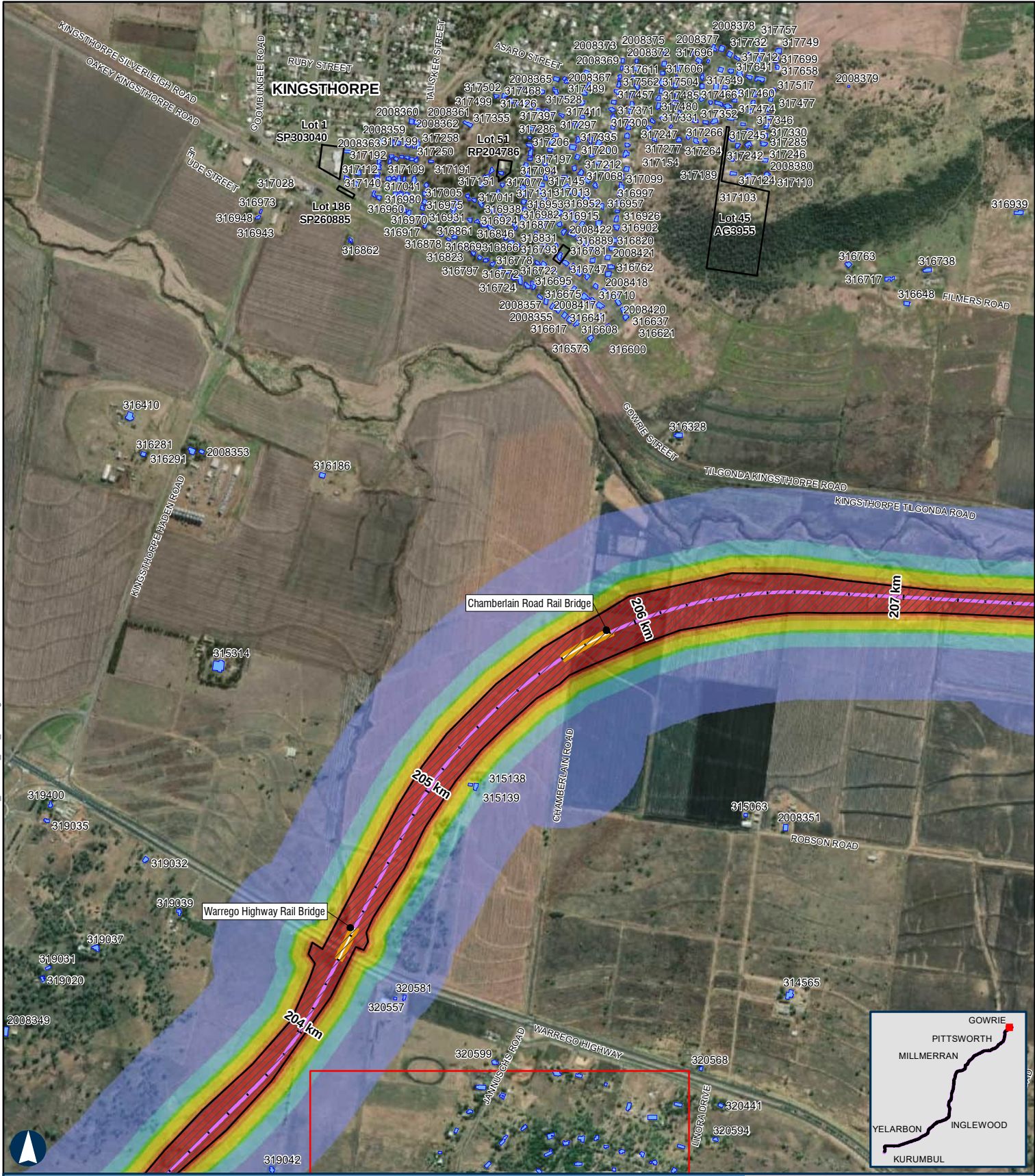
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC **InlandRail**

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BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 66 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/ Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

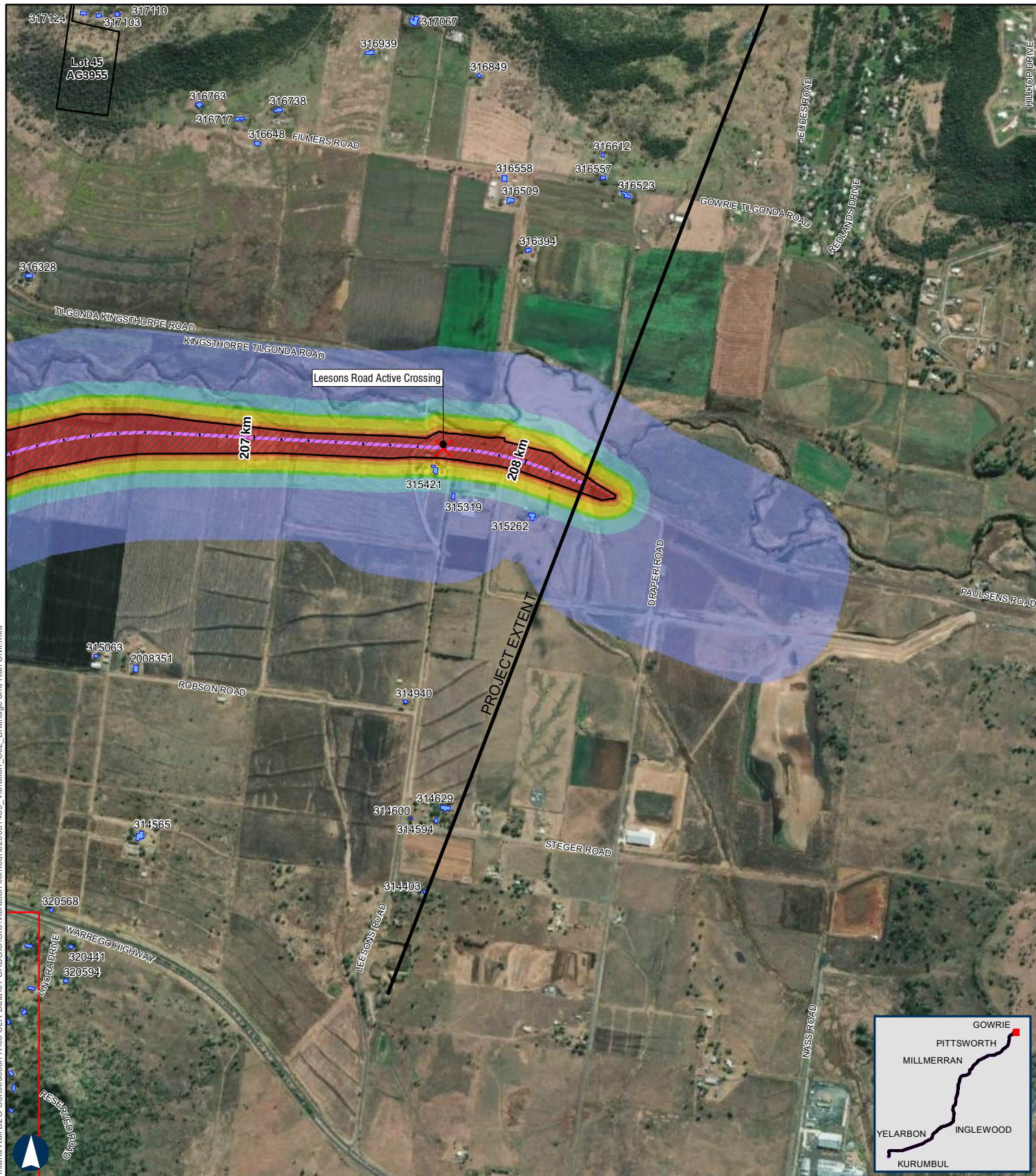
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m



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BORDER TO GOWRIE Scenario 2 - Drainage and Rail Civil

APPENDIX E - MAP 67 OF 67

100m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

Scale: 1:19,000

✕ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distances

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

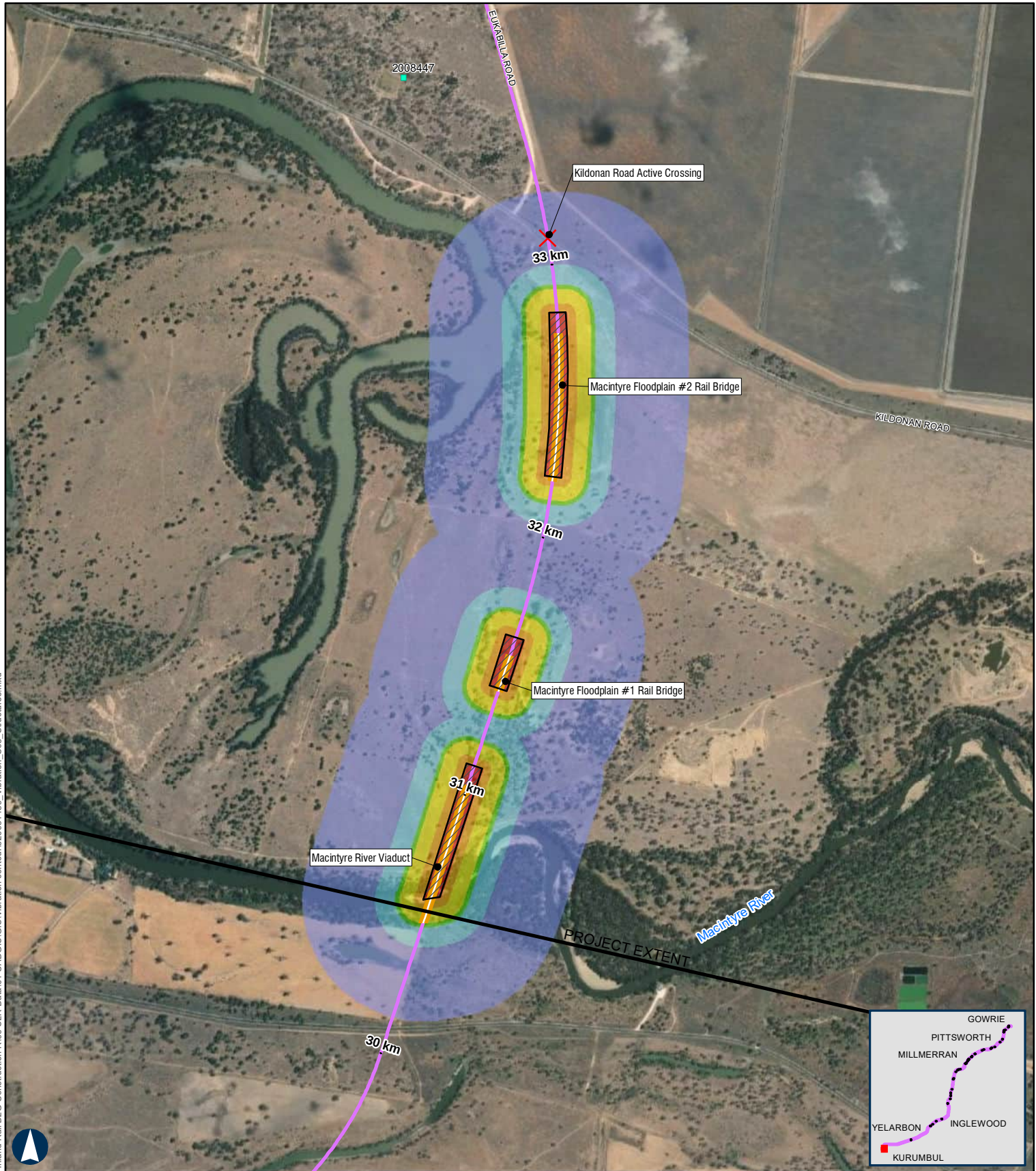
Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m



ARTC **InlandRail**

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BORDER TO GOWRIE Scenario 3 - Structures

APPENDIX E - MAP 1 OF 31

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

- ✗ Level Crossings
- Flying Fox Camp
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Koala Habitat Area
- ▨ Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

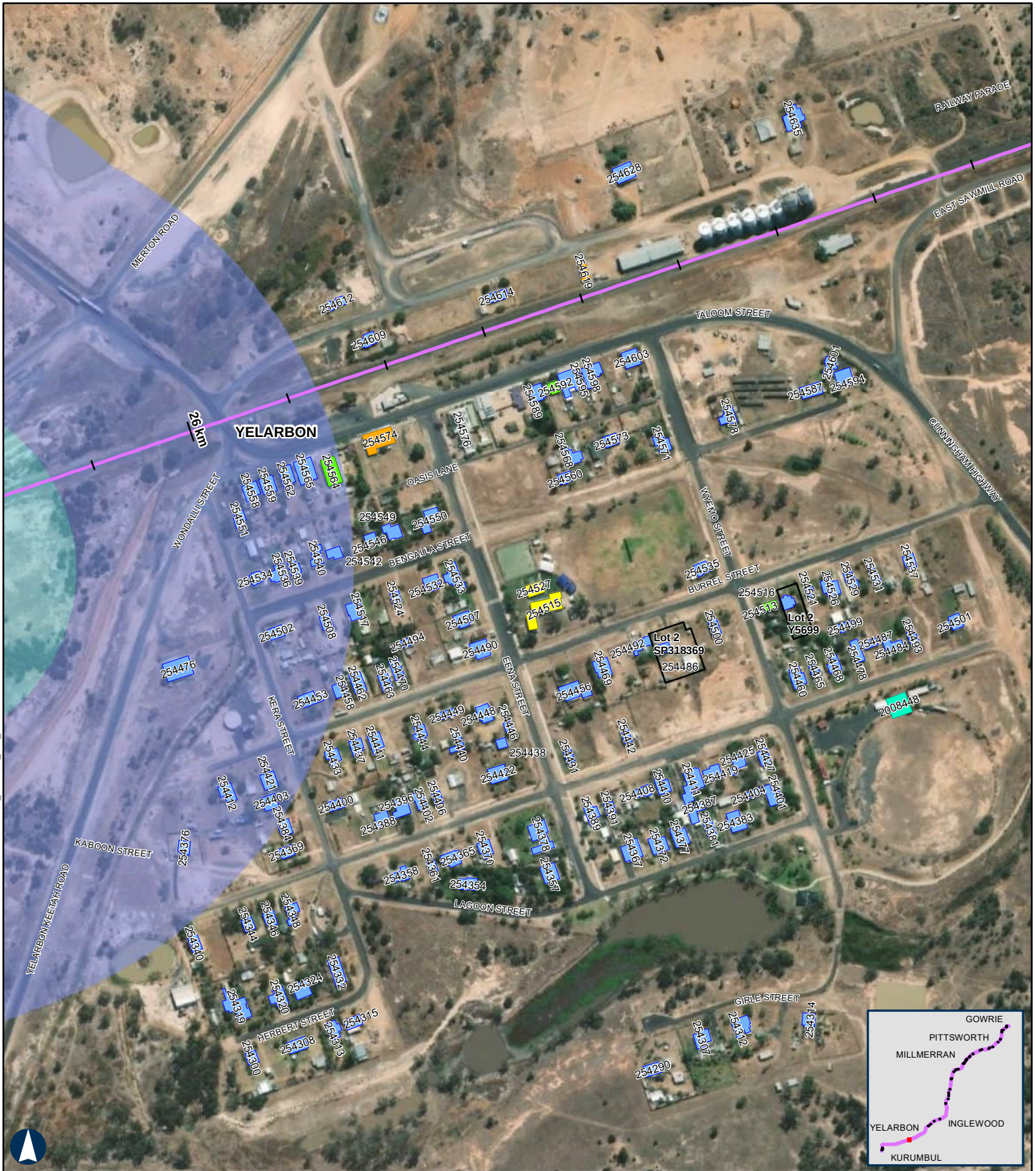
Safe Working Distance

Human comfort – non-standards hours lower limit: 0.3 mm/s, 445m

- Human comfort – standards hours lower limit: 1 mm/s, 176m
- Human comfort – standards hours upper limit: 2 mm/s, 102m
- Heritage structures: 2.5 mm/s, 86m
- Residential or light framed commercial: 7.5 mm/s, 34m
- Industrial or framed commercial: 25 mm/s, 1m



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BORDER TO GOWRIE

Scenario 3 - Structures

APPENDIX E - MAP 3 OF 31

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 15-Nov-2024
Author: JG

Scale: 1:5,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distance

Human comfort – non-standards hours lower limit: 0.3 mm/s, 445m

Human comfort – standards hours lower limit: 1 mm/s, 176m

Human comfort – standards hours upper limit: 2 mm/s, 102m

Heritage structures: 2.5 mm/s, 86m

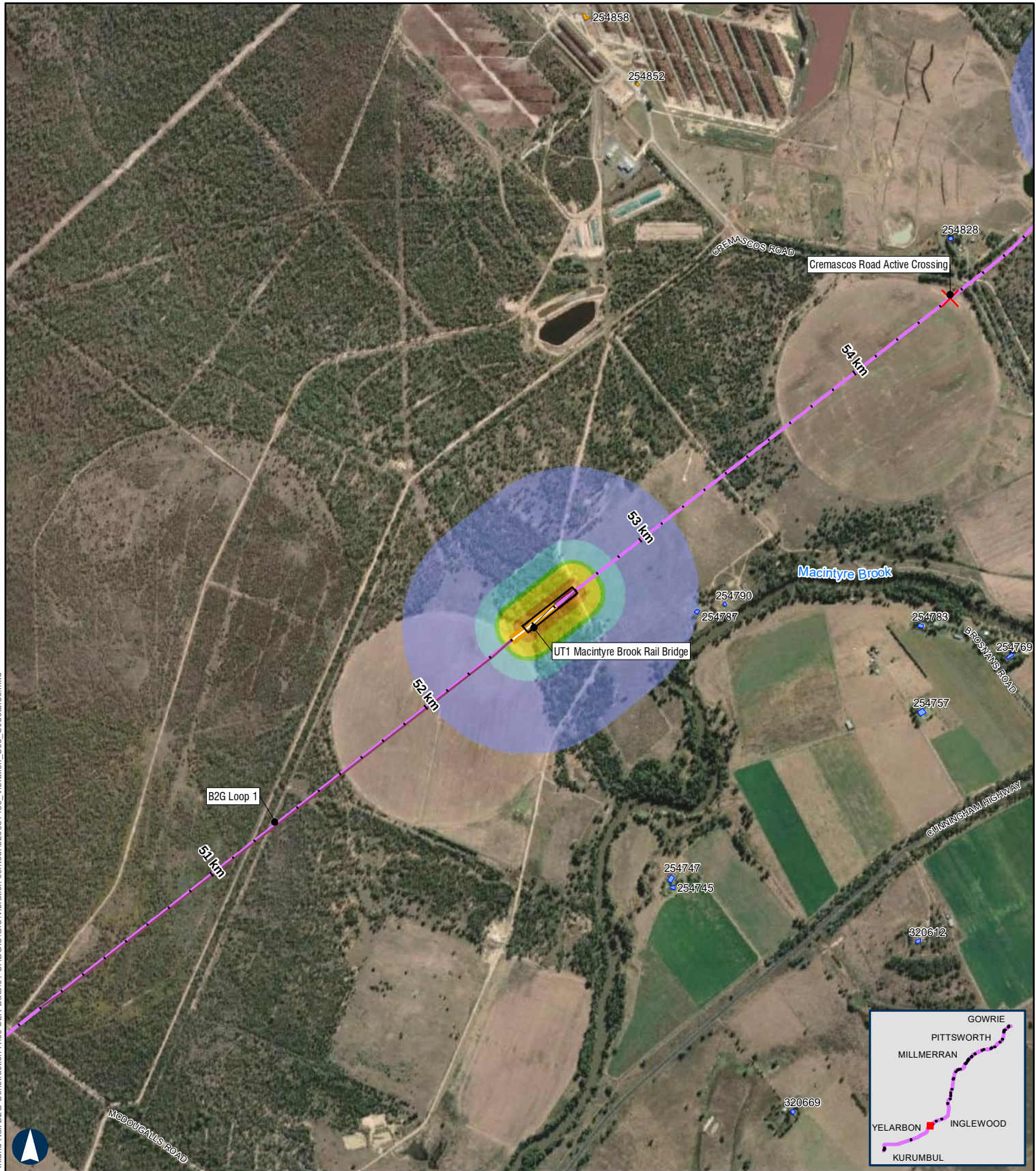
Residential or light framed commercial: 7.5 mm/s, 34m

Industrial or framed commercial: 25 mm/s, 1m



ARTC **InlandRail**

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BORDER TO GOWRIE Scenario 3 - Structures

APPENDIX E - MAP 4 OF 31

100m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

Scale: 1:19,000

- ✕ Level Crossings
- Flying Fox Camp
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▭ Koala Habitat Area
- ▨ Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

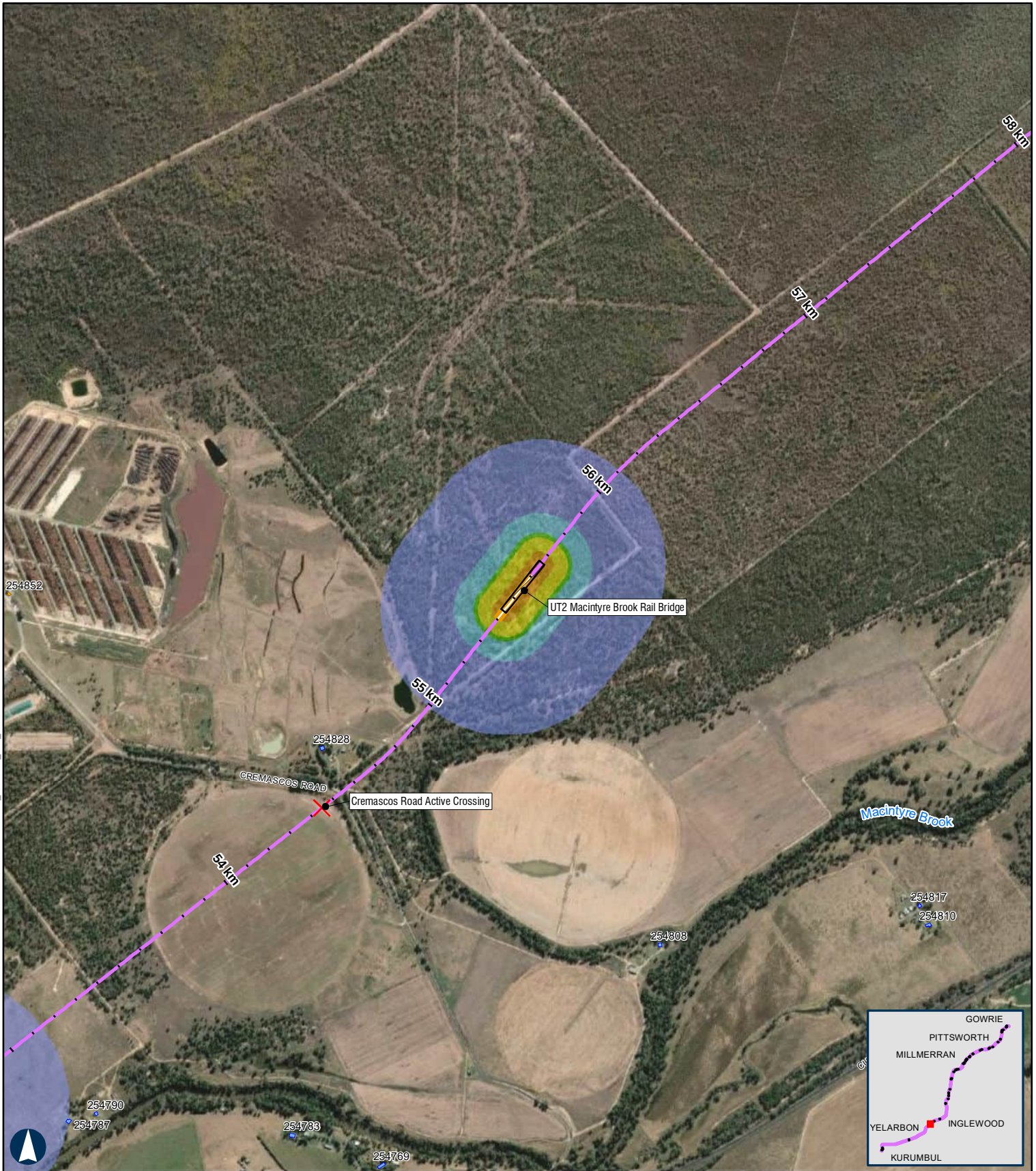
Safe Working Distance

- Human comfort – non-standards hours lower limit: 0.3 mm/s, 445m

- Human comfort – standards hours lower limit: 1 mm/s, 176m
- Human comfort – standards hours upper limit: 2 mm/s, 102m
- Heritage structures: 2.5 mm/s, 86m
- Residential or light framed commercial: 7.5 mm/s, 34m
- Industrial or framed commercial: 25 mm/s, 1m



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BORDER TO GOWRIE Scenario 3 - Structures

APPENDIX E - MAP 5 OF 31

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

- ✕ Level Crossings
- Flying Fox Camp
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Koala Habitat Area
- ▨ Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Safe Working Distance

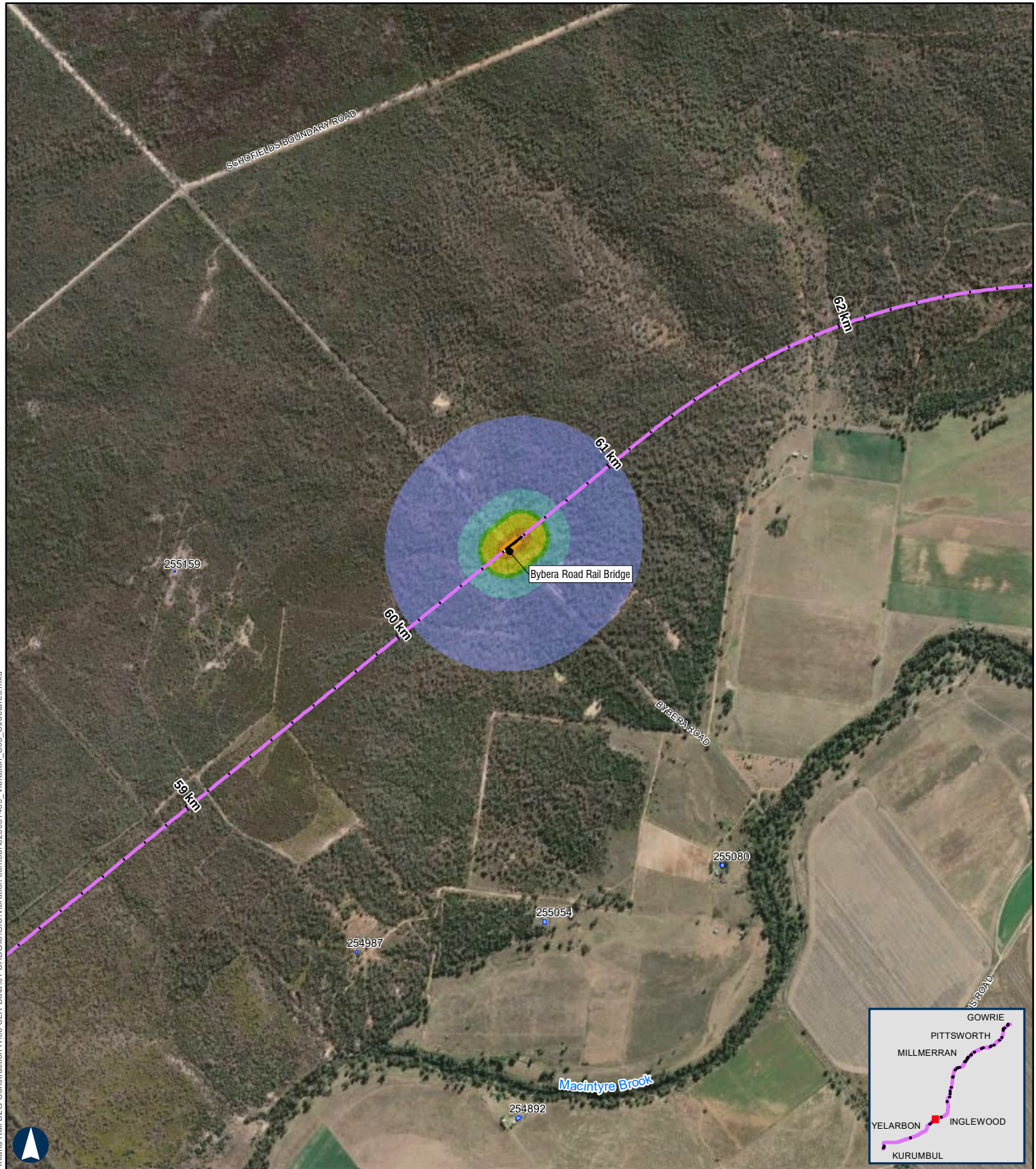
Human comfort – non-standards hours lower limit: 0.3 mm/s, 445m

- Human comfort – standards hours lower limit: 1 mm/s, 176m
- Human comfort – standards hours upper limit: 2 mm/s, 102m
- Heritage structures: 2.5 mm/s, 86m
- Residential or light framed commercial: 7.5 mm/s, 34m
- Industrial or framed commercial: 25 mm/s, 1m



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BORDER TO GOWRIE Scenario 3 - Structures

APPENDIX E - MAP 6 OF 31

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

- ✗ Level Crossings
- Flying Fox Camp
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Koala Habitat Area
- ▨ Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Safe Working Distance

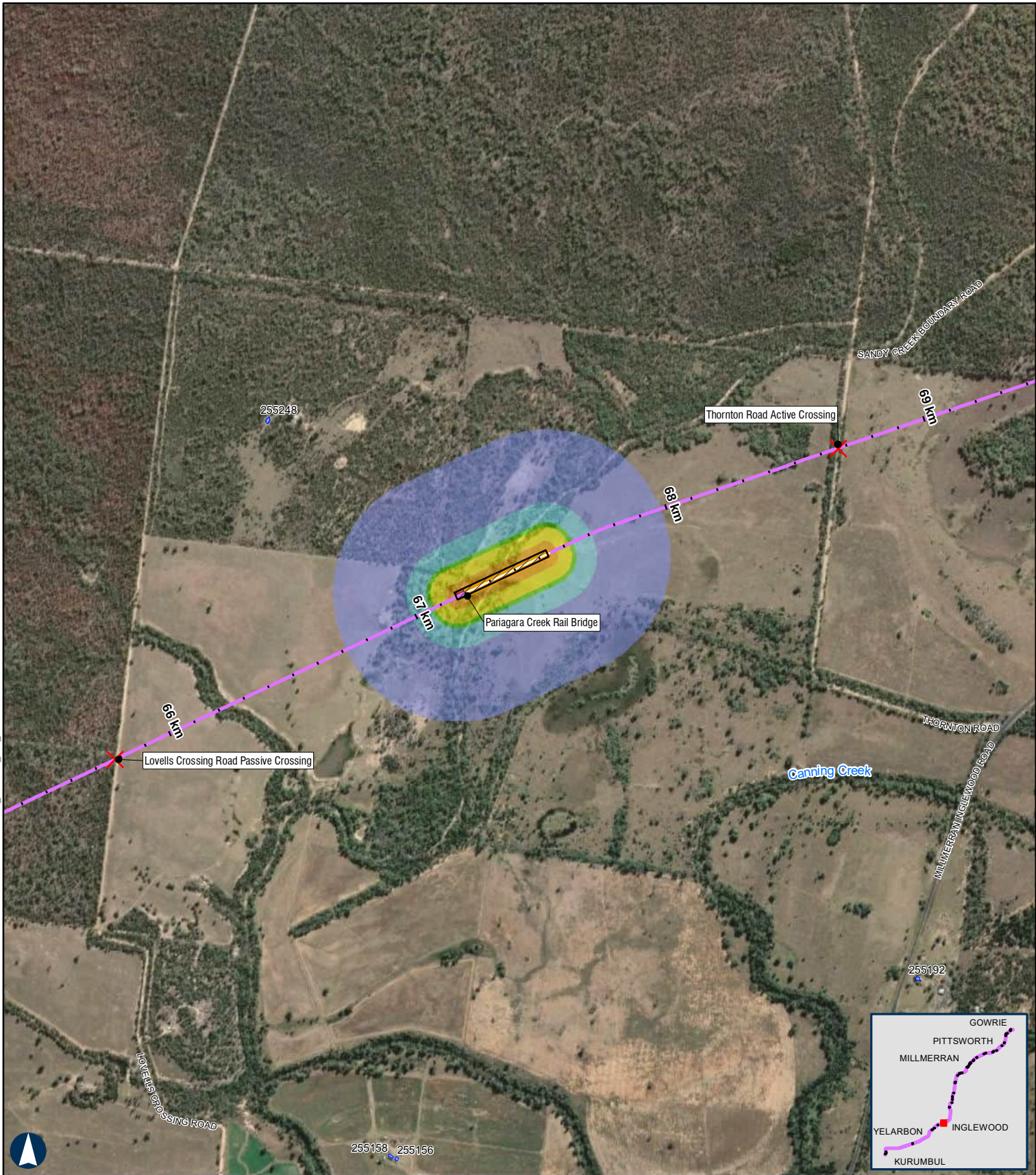
- Human comfort – non-standards hours lower limit: 0.3 mm/s, 445m

- Human comfort – standards hours lower limit: 1 mm/s, 176m
- Human comfort – standards hours upper limit: 2 mm/s, 102m
- Heritage structures: 2.5 mm/s, 86m
- Residential or light framed commercial: 7.5 mm/s, 34m
- Industrial or framed commercial: 25 mm/s, 1m



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BORDER TO GOWRIE Scenario 3 - Structures

APPENDIX E - MAP 7 OF 31

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

- Level Crossings
- Flying Fox Camp
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Koala Habitat Area
- Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Safe Working Distance

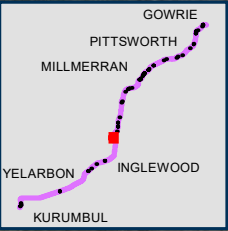
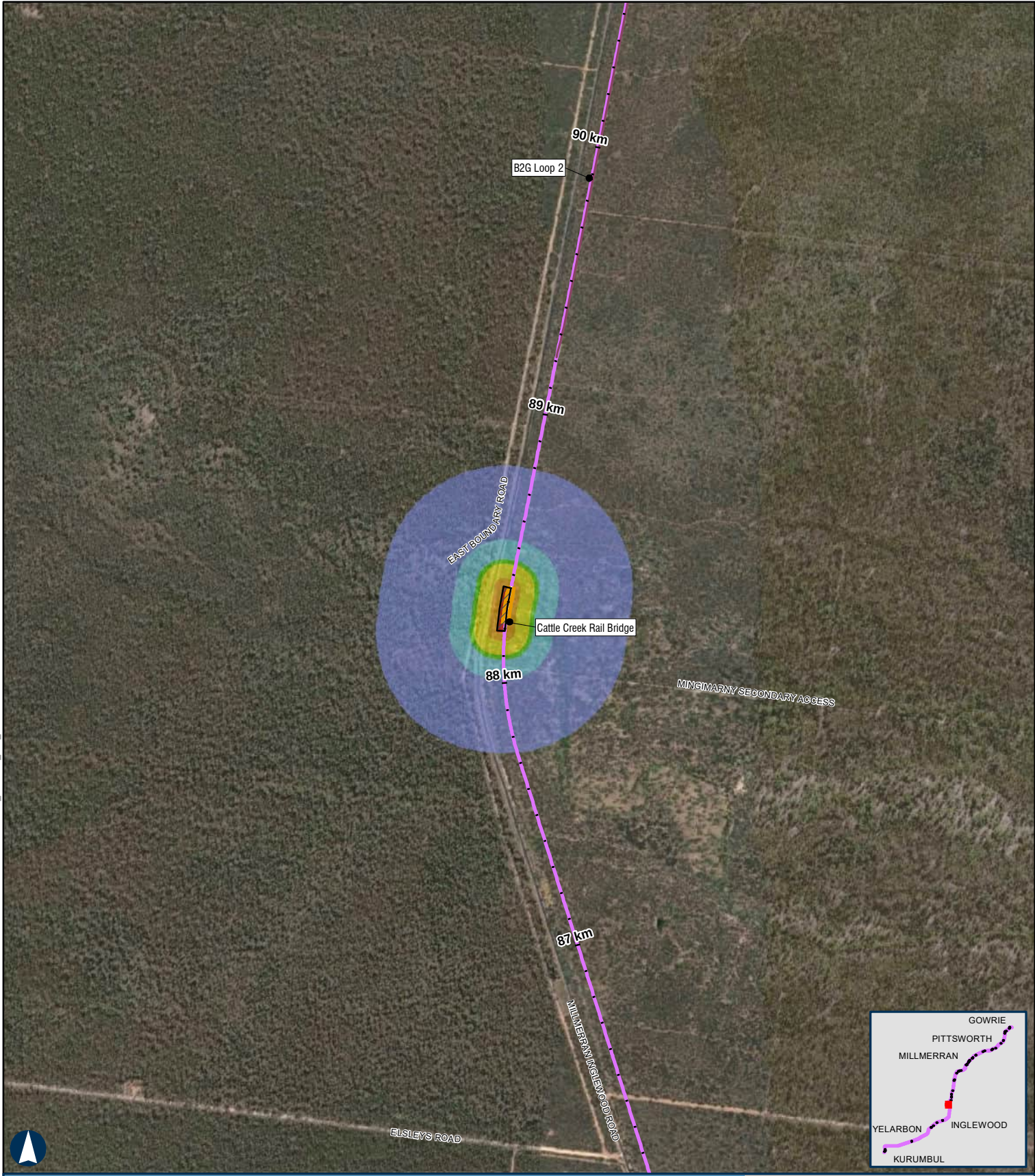
- Human comfort – non-standards hours lower limit: 0.3 mm/s, 445m

- Human comfort – standards hours lower limit: 1 mm/s, 176m
- Human comfort – standards hours upper limit: 2 mm/s, 102m
- Heritage structures: 2.5 mm/s, 86m
- Residential or light framed commercial: 7.5 mm/s, 34m
- Industrial or framed commercial: 25 mm/s, 1m



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BORDER TO GOWRIE Scenario 3 - Structures

APPENDIX E - MAP 8 OF 31

100m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/ Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Safe Working Distance

Human comfort – non-standards hours lower limit: 0.3 mm/s, 445m

Human comfort – standards hours lower limit: 1 mm/s, 176m

Human comfort – standards hours upper limit: 2 mm/s, 102m

Heritage structures: 2.5 mm/s, 86m

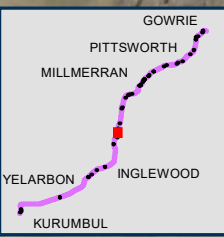
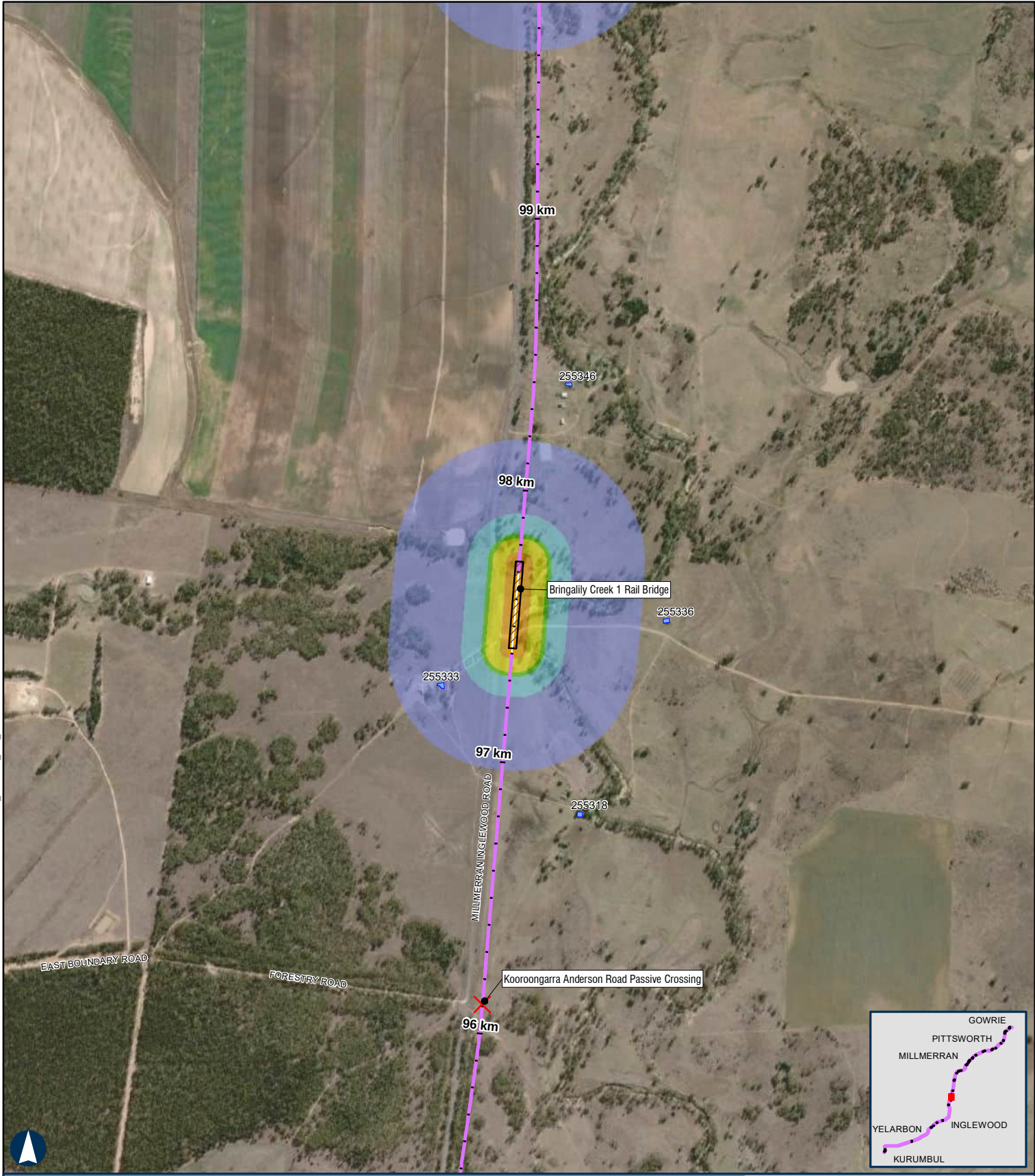
Residential or light framed commercial: 7.5 mm/s, 34m

Industrial or framed commercial: 25 mm/s, 1m



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BORDER TO GOWRIE Scenario 3 - Structures

APPENDIX E - MAP 10 OF 31

100m

Coordinate System: GDA 1994 MGA Zone 56

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✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/ Centreline

▭ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distance

Human comfort – non-standards hours lower limit: 0.3 mm/s, 445m

Human comfort – standards hours lower limit: 1 mm/s, 176m

Human comfort – standards hours upper limit: 2 mm/s, 102m

Heritage structures: 2.5 mm/s, 86m

Residential or light framed commercial: 7.5 mm/s, 34m

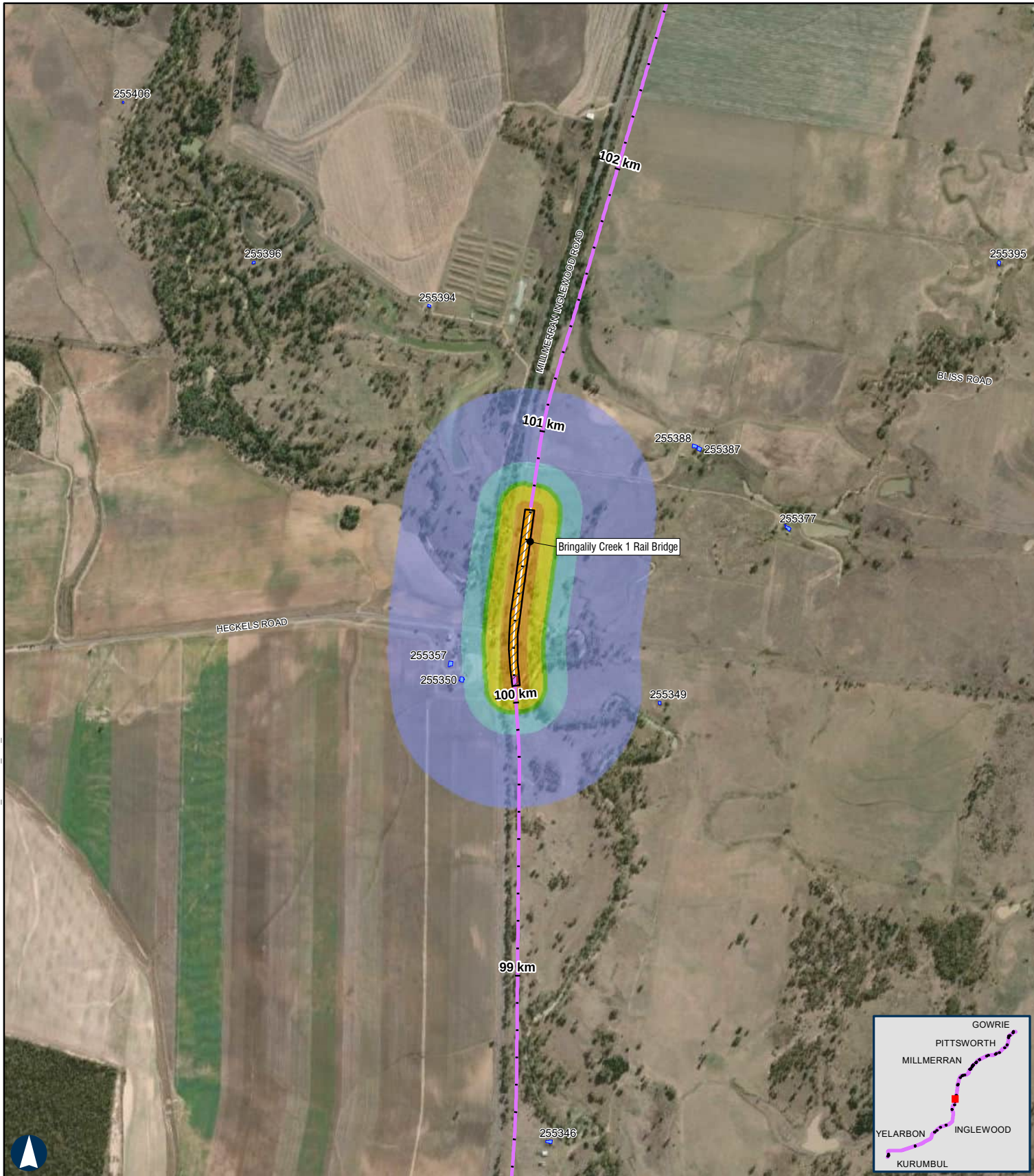
Industrial or framed commercial: 25 mm/s, 1m

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BORDER TO GOWRIE Scenario 3 - Structures

APPENDIX E - MAP 11 OF 31

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

- ✗ Level Crossings
- Flying Fox Camp
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Koala Habitat Area
- ▨ Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Safe Working Distance

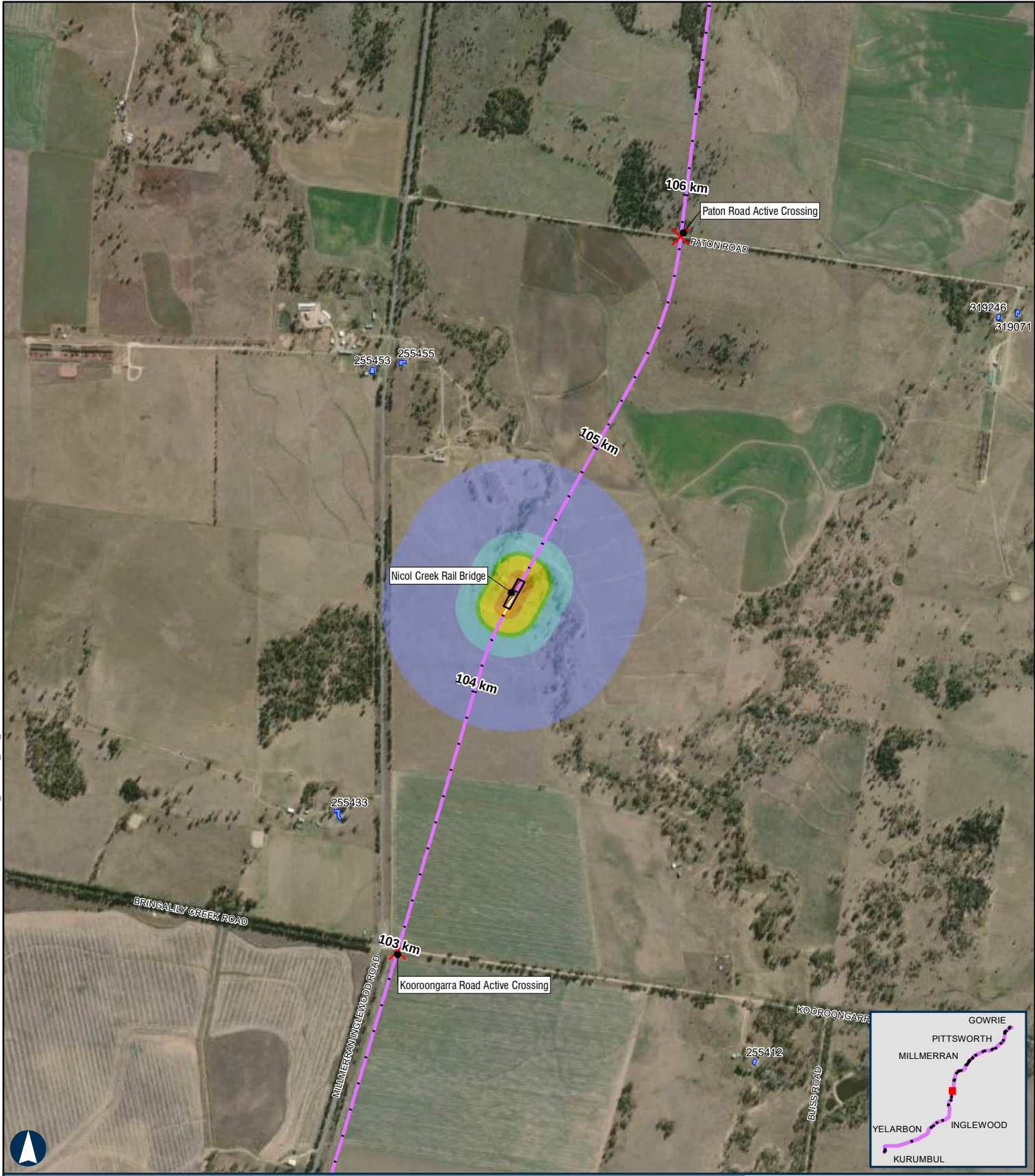
Human comfort – non-standards hours lower limit: 0.3 mm/s, 445m

- Human comfort – standards hours lower limit: 1 mm/s, 176m
- Human comfort – standards hours upper limit: 2 mm/s, 102m
- Heritage structures: 2.5 mm/s, 86m
- Residential or light framed commercial: 7.5 mm/s, 34m
- Industrial or framed commercial: 25 mm/s, 1m



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BORDER TO GOWRIE Scenario 3 - Structures

APPENDIX E - MAP 12 OF 31

100m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

- ✗ Level Crossings
- Flying Fox Camp
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Koala Habitat Area
- ▨ Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Safe Working Distance

Human comfort – non-standards hours lower limit: 0.3 mm/s, 445m

Human comfort – standards hours lower limit: 1 mm/s, 176m

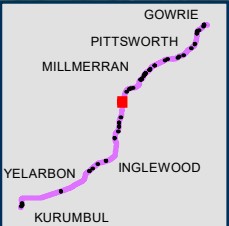
Human comfort – standards hours upper limit: 2 mm/s, 102m

Heritage structures: 2.5 mm/s, 86m

Residential or light framed commercial: 7.5 mm/s, 34m

Industrial or framed commercial: 25 mm/s, 1m

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BORDER TO GOWRIE Scenario 3 - Structures

APPENDIX E - MAP 13 OF 31

100m

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- ✗ Level Crossings
- Flying Fox Camp
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▭ Koala Habitat Area
- ▨ Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Safe Working Distance

Human comfort – non-standards hours lower limit: 0.3 mm/s, 445m

Human comfort – standards hours lower limit: 1 mm/s, 176m

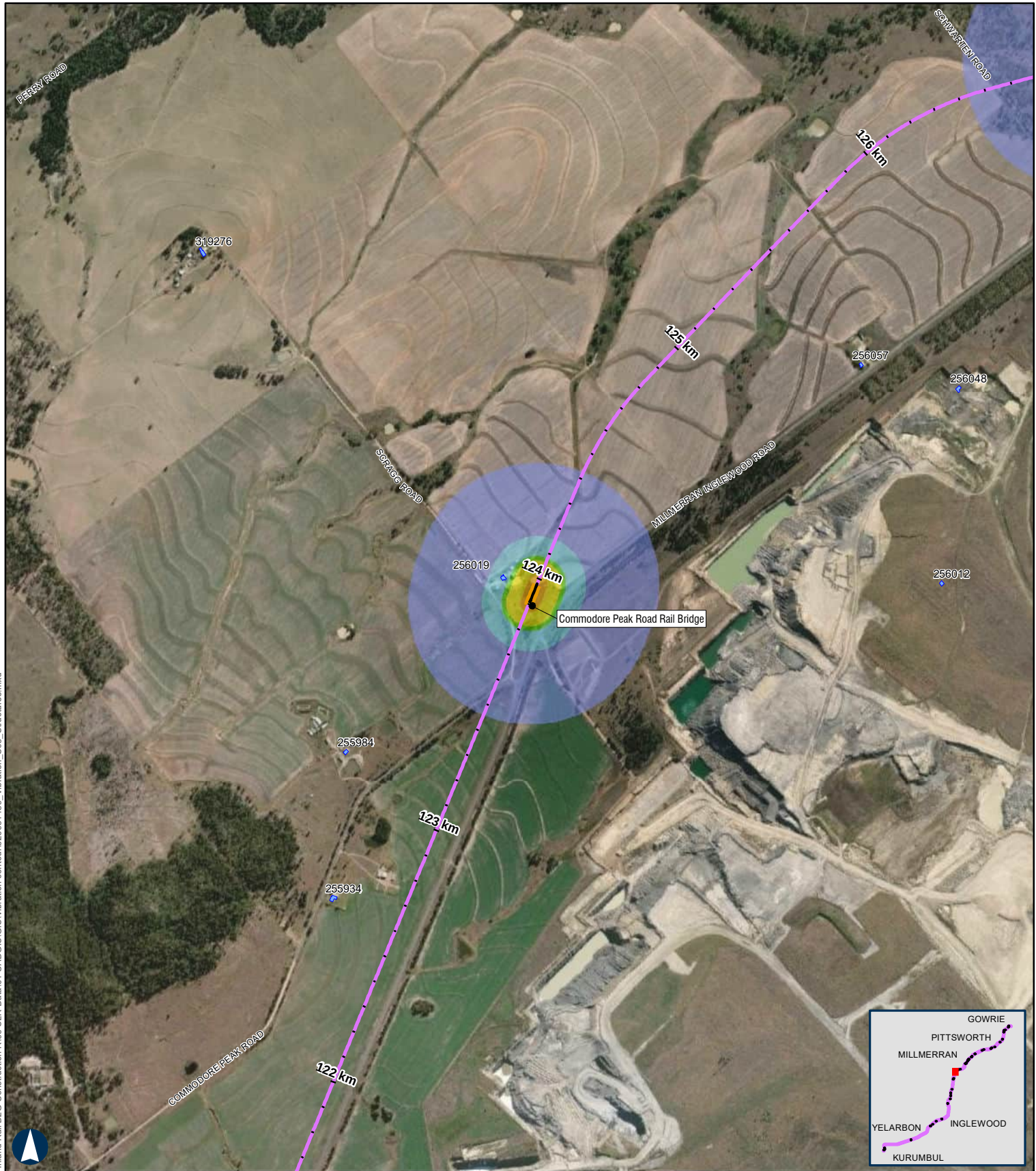
Human comfort – standards hours upper limit: 2 mm/s, 102m

Heritage structures: 2.5 mm/s, 86m

Residential or light framed commercial: 7.5 mm/s, 34m

Industrial or framed commercial: 25 mm/s, 1m

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BORDER TO GOWRIE Scenario 3 - Structures

APPENDIX E - MAP 14 OF 31

100m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

Scale: 1:19,000

- ✗ Level Crossings
- Flying Fox Camp
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Koala Habitat Area
- ▨ Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

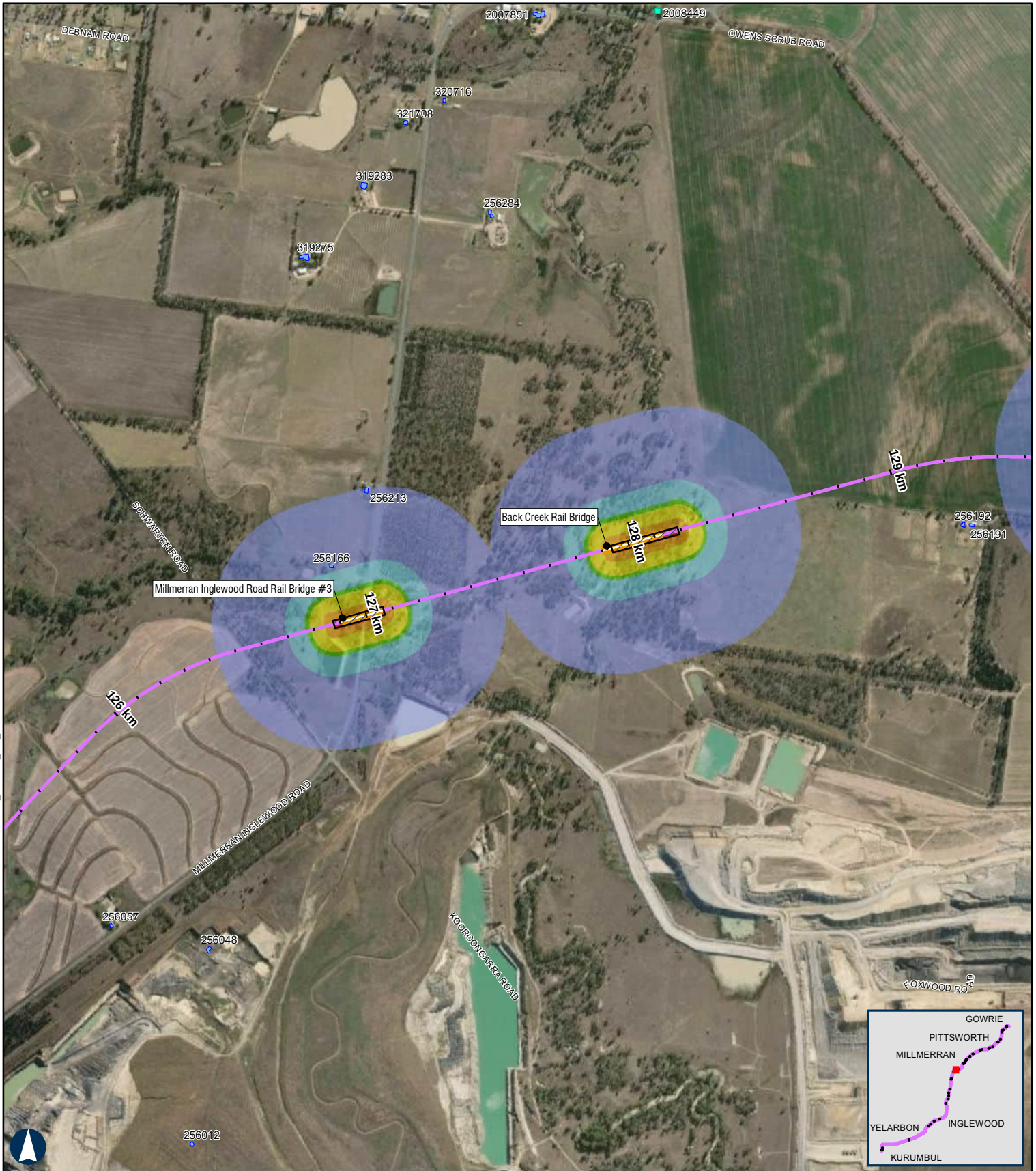
Safe Working Distance

- Human comfort – non-standards hours lower limit: 0.3 mm/s, 445m

- Human comfort – standards hours lower limit: 1 mm/s, 176m
- Human comfort – standards hours upper limit: 2 mm/s, 102m
- Heritage structures: 2.5 mm/s, 86m
- Residential or light framed commercial: 7.5 mm/s, 34m
- Industrial or framed commercial: 25 mm/s, 1m



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BORDER TO GOWRIE Scenario 3 - Structures

APPENDIX E - MAP 15 OF 31

100m

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Author: JG

Scale: 1:19,000

- ✗ Level Crossings
- Flying Fox Camp
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Koala Habitat Area
- ▨ Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

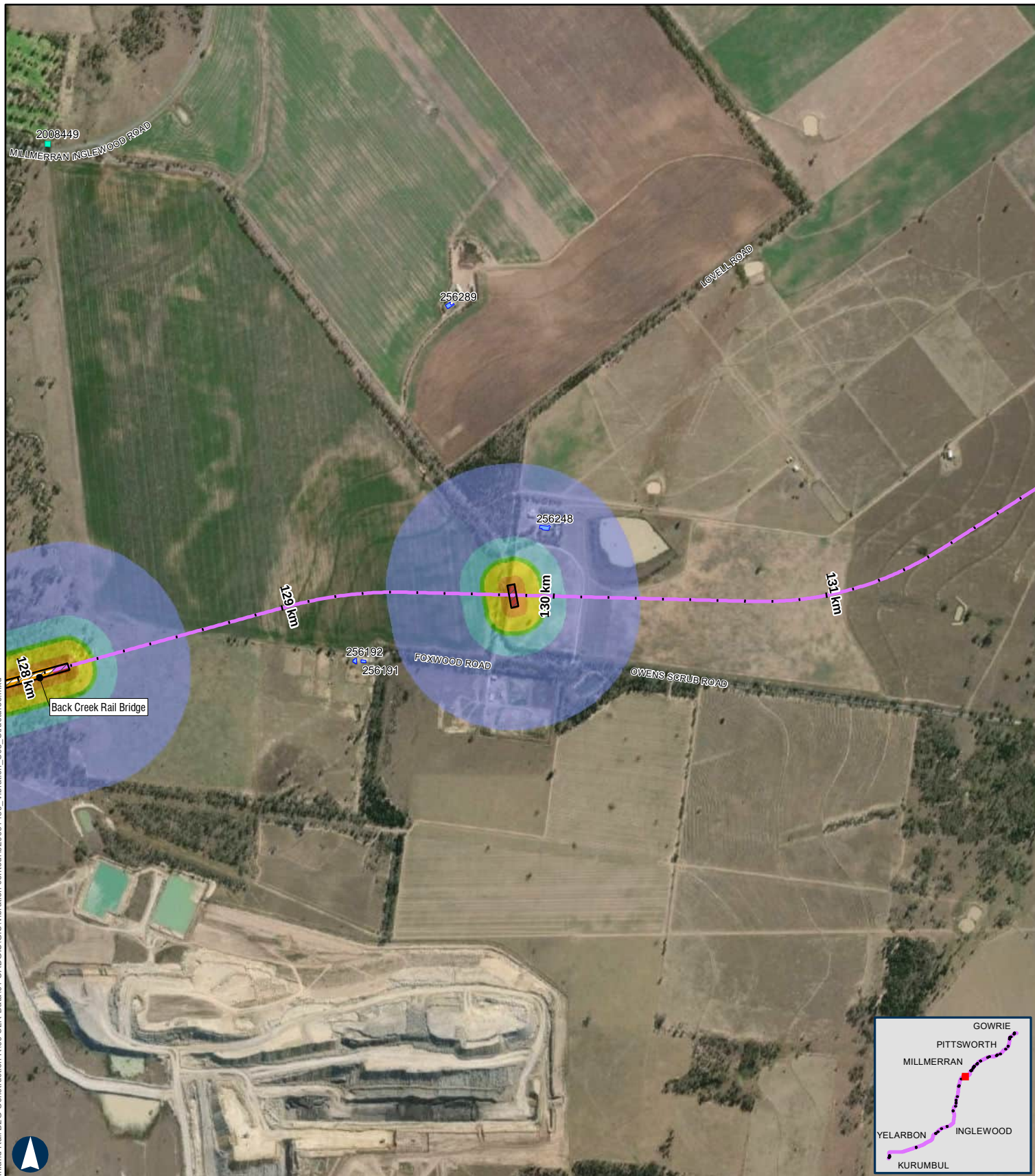
Safe Working Distance

- Human comfort – non-standards hours lower limit: 0.3 mm/s, 445m

- Human comfort – standards hours lower limit: 1 mm/s, 176m
- Human comfort – standards hours upper limit: 2 mm/s, 102m
- Heritage structures: 2.5 mm/s, 86m
- Residential or light framed commercial: 7.5 mm/s, 34m
- Industrial or framed commercial: 25 mm/s, 1m

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BORDER TO GOWRIE Scenario 3 - Structures

100 m

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Date: 15-Nov-2024

Author: JG

-  Level Crossings
-  Flying Fox Camp
-  Project Extent
-  Crossing Loops
-  Bridges and Viaducts
-  Rail Alignment/
Centreline
-  Koala Habitat Area
-  Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Safe Working Distance

Human comfort – non-standards hours lower limit: 0.3 mm/s. 445m

Human comfort – standards hours lower limit: 1 mm/s, 176m

Human comfort – standards hours upper limit: 2 mm/s, 102m

Heritage structures:
2.5 mm/s, 86m

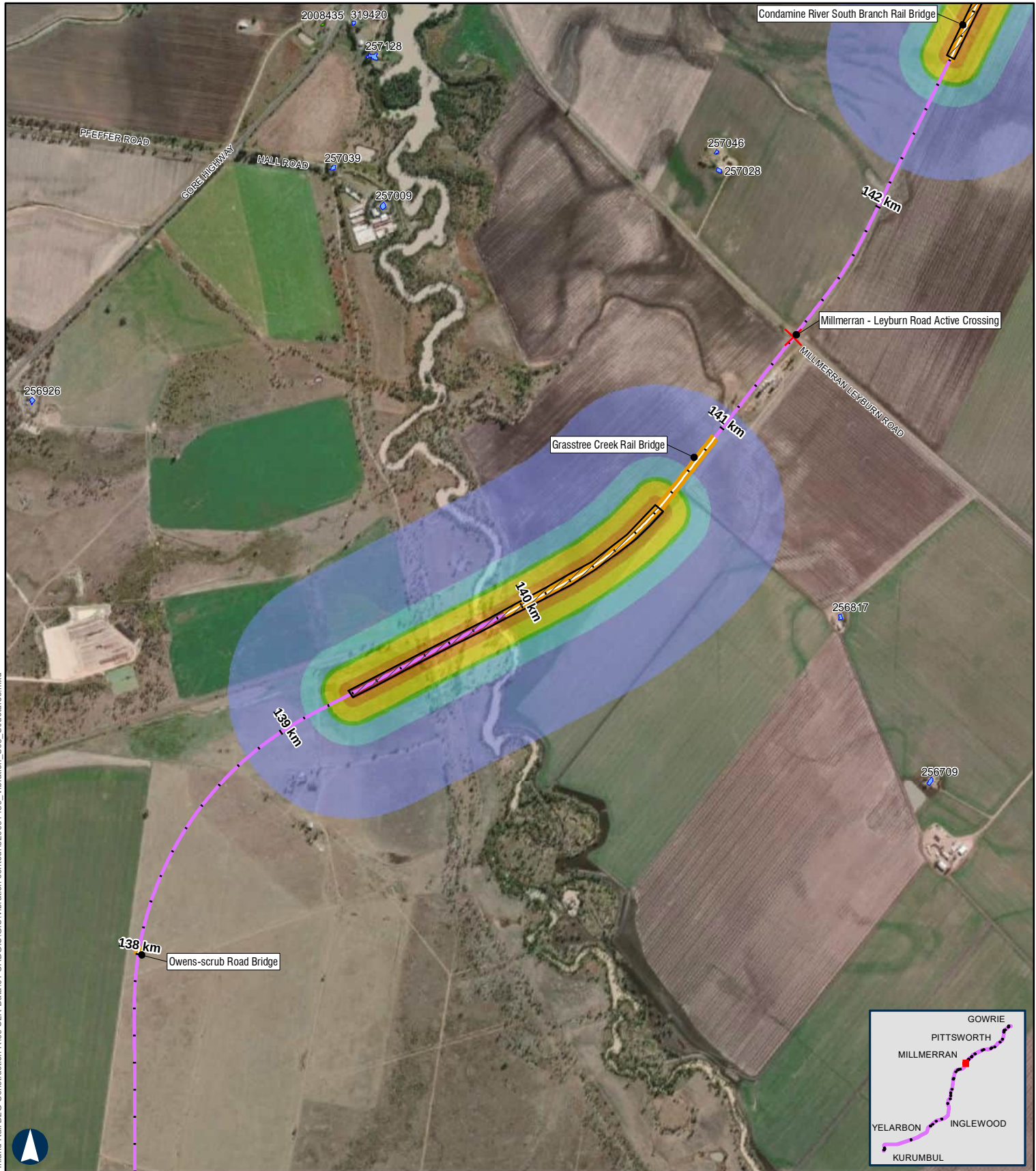
Residential or light
framed commercial:
7.5 mm/s, 34m

Industrial or framed commercial: 25 mm/s, 1m

APPENDIX E - MAP 16 OF 31

ARTC  InlandRail

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BORDER TO GOWRIE Scenario 3 - Structures

APPENDIX E - MAP 17 OF 31

100m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

Scale: 1:19,000

- ✕ Level Crossings
- Flying Fox Camp
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Koala Habitat Area
- ▨ Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

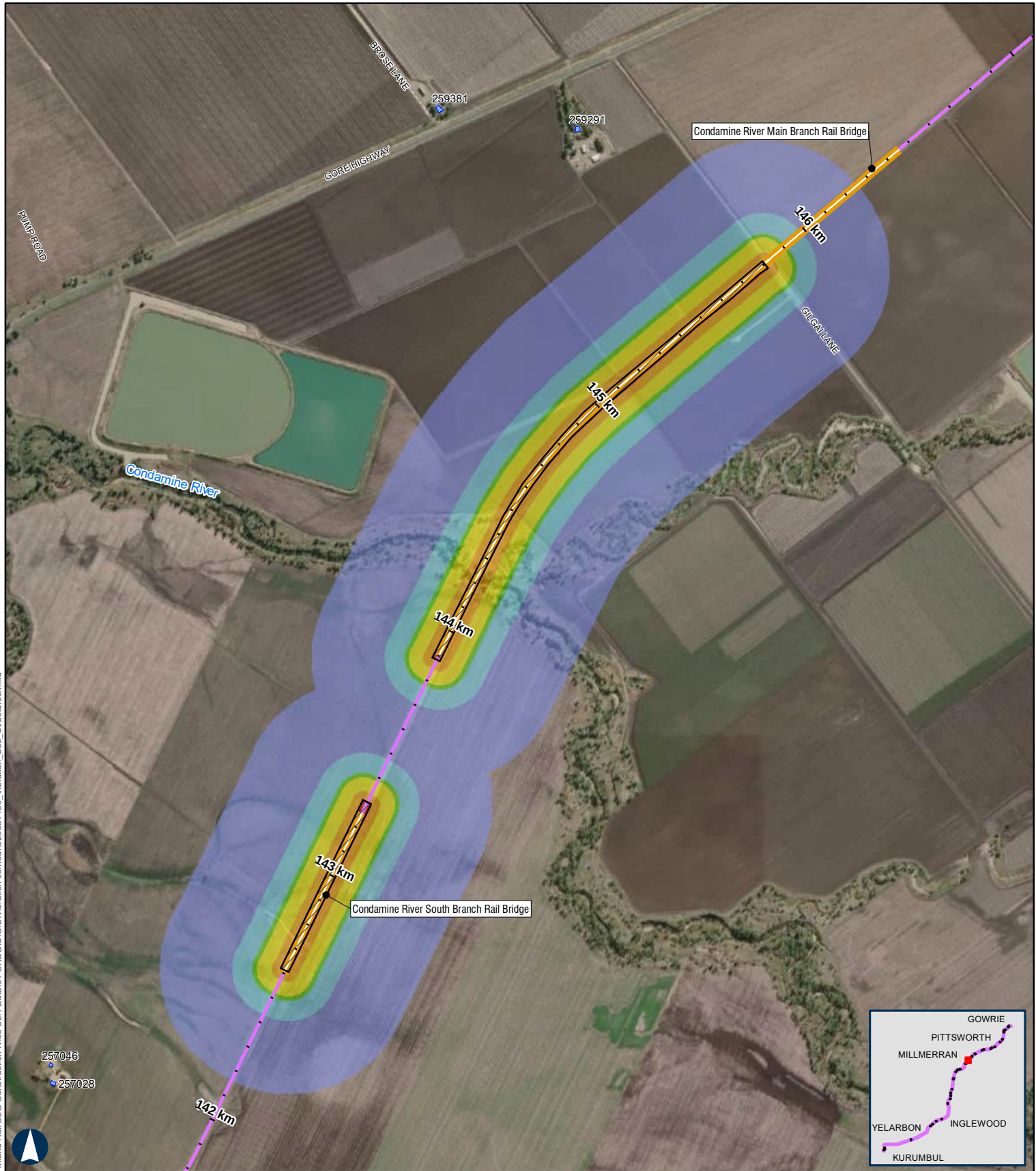
Safe Working Distance

Human comfort – non-standards hours lower limit: 0.3 mm/s, 445m

Human comfort – standards hours lower limit: 1 mm/s, 176m
Human comfort – standards hours upper limit: 2 mm/s, 102m
Heritage structures: 2.5 mm/s, 86m
Residential or light framed commercial: 7.5 mm/s, 34m
Industrial or framed commercial: 25 mm/s, 1m



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BORDER TO GOWRIE Scenario 3 - Structures

APPENDIX E - MAP 18 OF 31

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

- ✗ Level Crossings
- Flying Fox Camp
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Koala Habitat Area
- ▨ Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

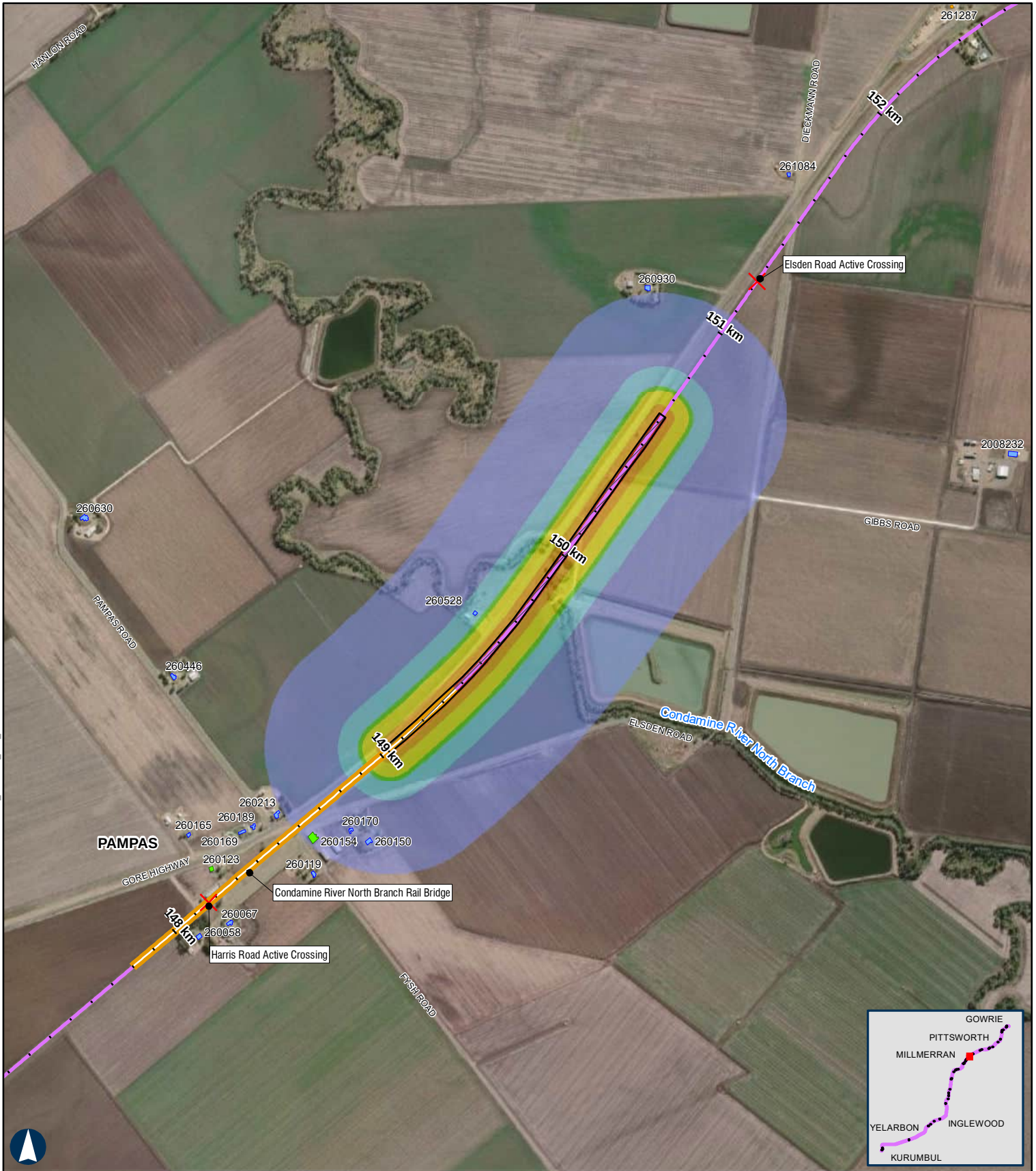
Safe Working Distance

Human comfort – non-standards hours lower limit: 0.3 mm/s, 445m

- Human comfort – standards hours lower limit: 1 mm/s, 176m
- Human comfort – standards hours upper limit: 2 mm/s, 102m
- Heritage structures: 2.5 mm/s, 86m
- Residential or light framed commercial: 7.5 mm/s, 34m
- Industrial or framed commercial: 25 mm/s, 1m

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BORDER TO GOWRIE Scenario 3 - Structures

APPENDIX E - MAP 19 OF 31

100m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

- ✗ Level Crossings
- Flying Fox Camp
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▭ Koala Habitat Area
- ▨ Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Safe Working Distance

Human comfort – non-standards hours lower limit: 0.3 mm/s, 445m

Human comfort – standards hours lower limit: 1 mm/s, 176m

Human comfort – standards hours upper limit: 2 mm/s, 102m

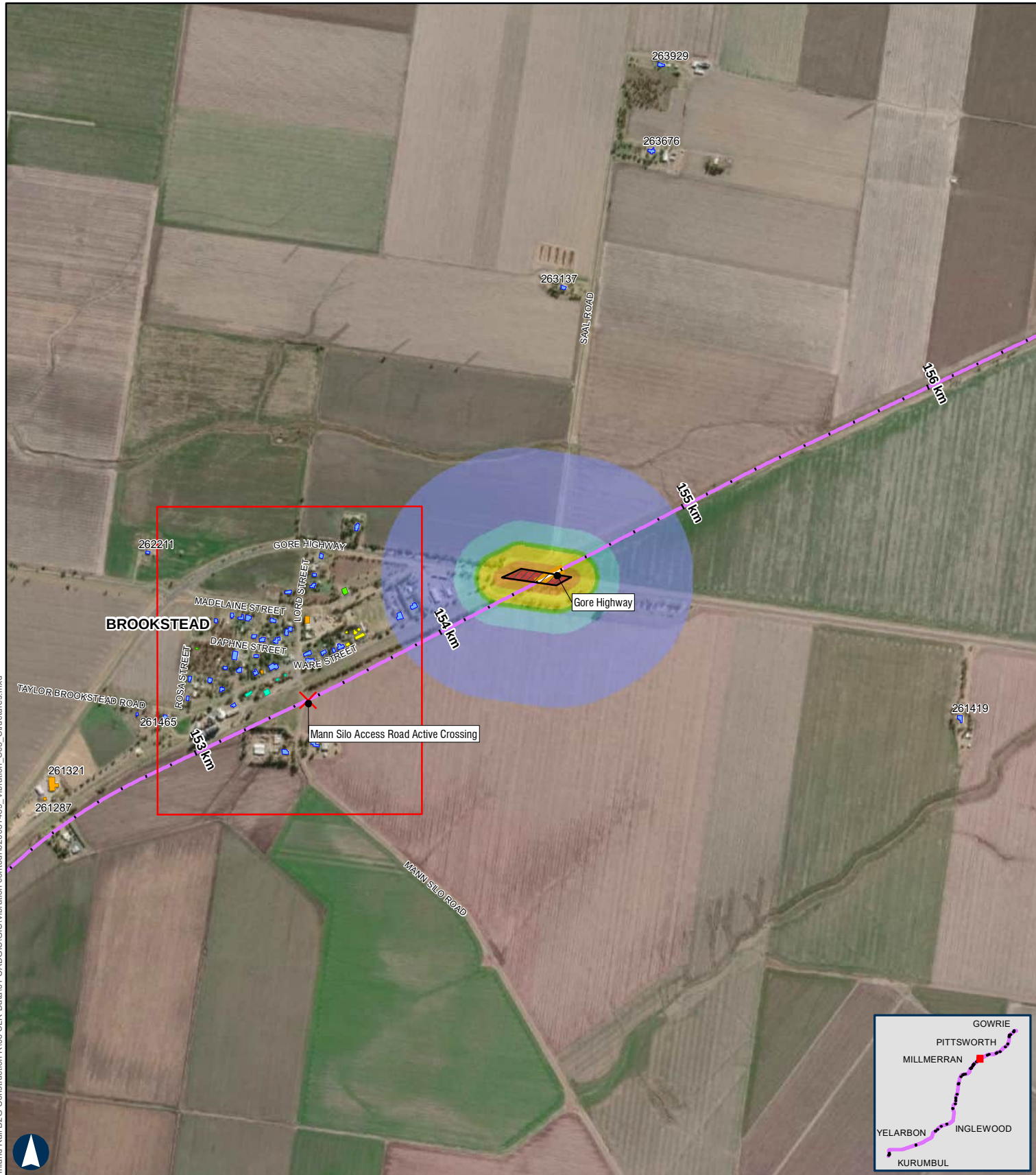
Heritage structures: 2.5 mm/s, 86m

Residential or light framed commercial: 7.5 mm/s, 34m

Industrial or framed commercial: 25 mm/s, 1m



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BORDER TO GOWRIE Scenario 3 - Structures

APPENDIX E - MAP 20 OF 31

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✕ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

— Koala Habitat Area

— Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distance

Human comfort – non-standards hours lower limit: 0.3 mm/s, 445m

Human comfort – standards hours lower limit: 1 mm/s, 176m

Human comfort – standards hours upper limit: 2 mm/s, 102m

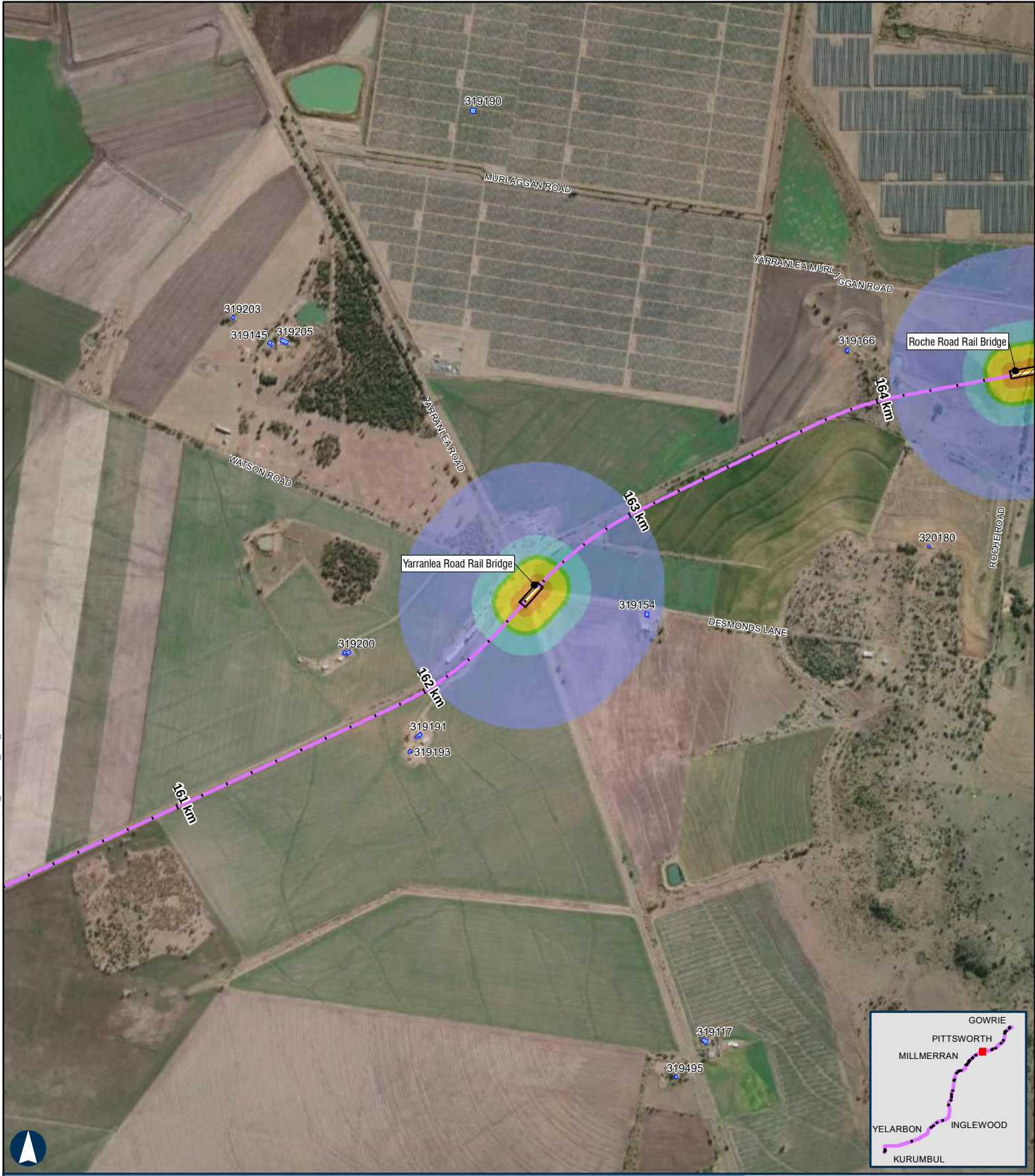
Heritage structures: 2.5 mm/s, 86m

Residential or light framed commercial: 7.5 mm/s, 34m

Industrial or framed commercial: 25 mm/s, 1m

ARTC InlandRail

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BORDER TO GOWRIE Scenario 3 - Structures

APPENDIX E - MAP 22 OF 31

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/ Centreline

▭ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

■ Residential

■ Community

■ Educational

■ Commercial

■ Parkland

□ Future Developments

Safe Working Distance

Human comfort – non-standards hours lower limit: 0.3 mm/s, 445m

Human comfort – standards hours lower limit: 1 mm/s, 176m

Human comfort – standards hours upper limit: 2 mm/s, 102m

Heritage structures: 2.5 mm/s, 86m

Residential or light framed commercial: 7.5 mm/s, 34m

Industrial or framed commercial: 25 mm/s, 1m

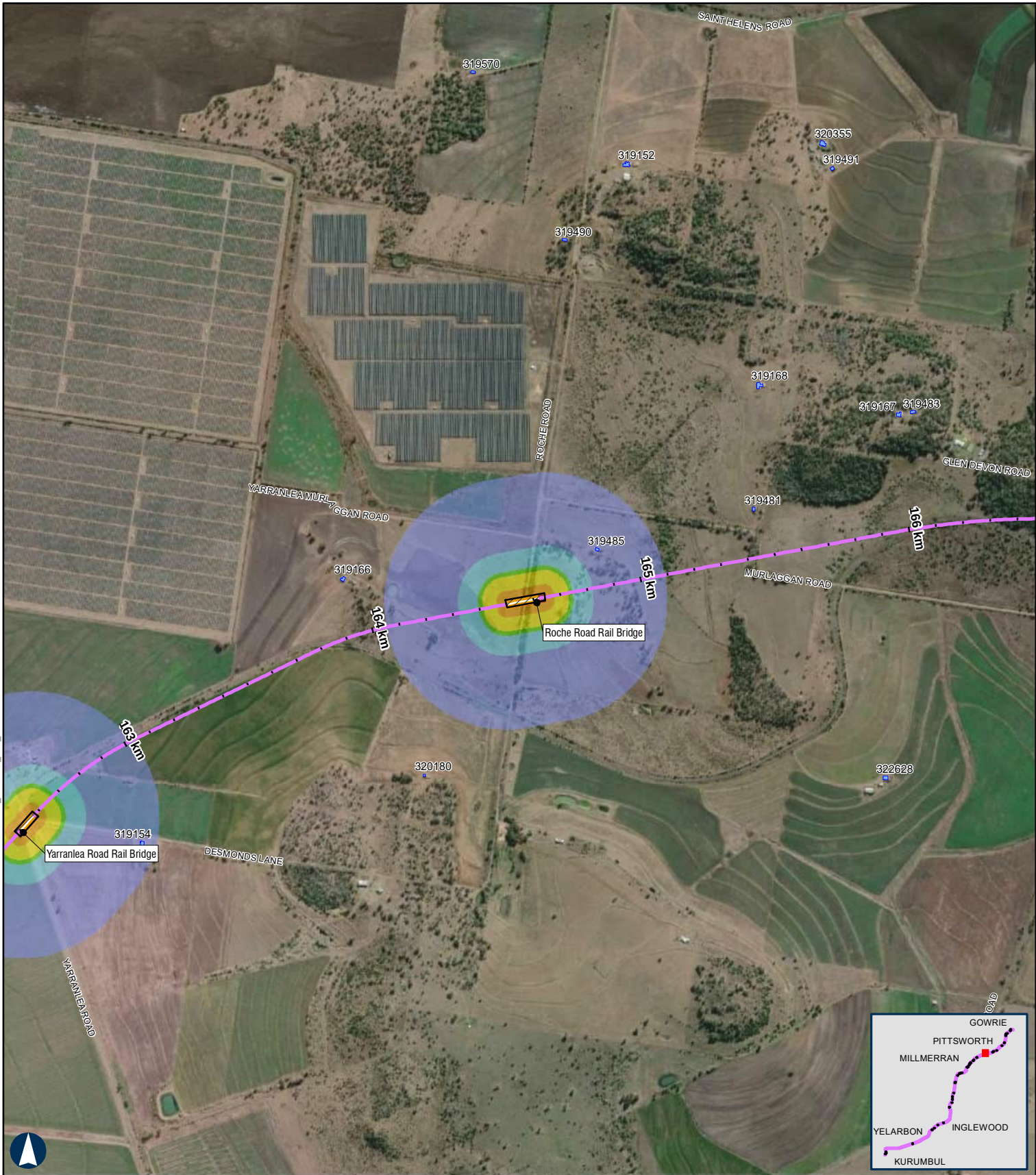
ARTC

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InlandRail

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\\au.slir.local\Corporate\Projects\SLIR\620-BNE\620-BNE\620-031489-0000-1 Inland Rail B2G Construction R06 SLR Data\01 CAD\GIS\GIS\Vibration contour\620031489_Vibration_Sc3_Structures.mxd



BORDER TO GOWRIE Scenario 3 - Structures

APPENDIX E - MAP 23 OF 31

100m

Coordinate System: GDA 1994 MGA Zone 56

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✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/ Centreline

— Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Safe Working Distance

Human comfort – non-standards hours lower limit: 0.3 mm/s, 445m

Human comfort – standards hours lower limit: 1 mm/s, 176m

Human comfort – standards hours upper limit: 2 mm/s, 102m

Heritage structures: 2.5 mm/s, 86m

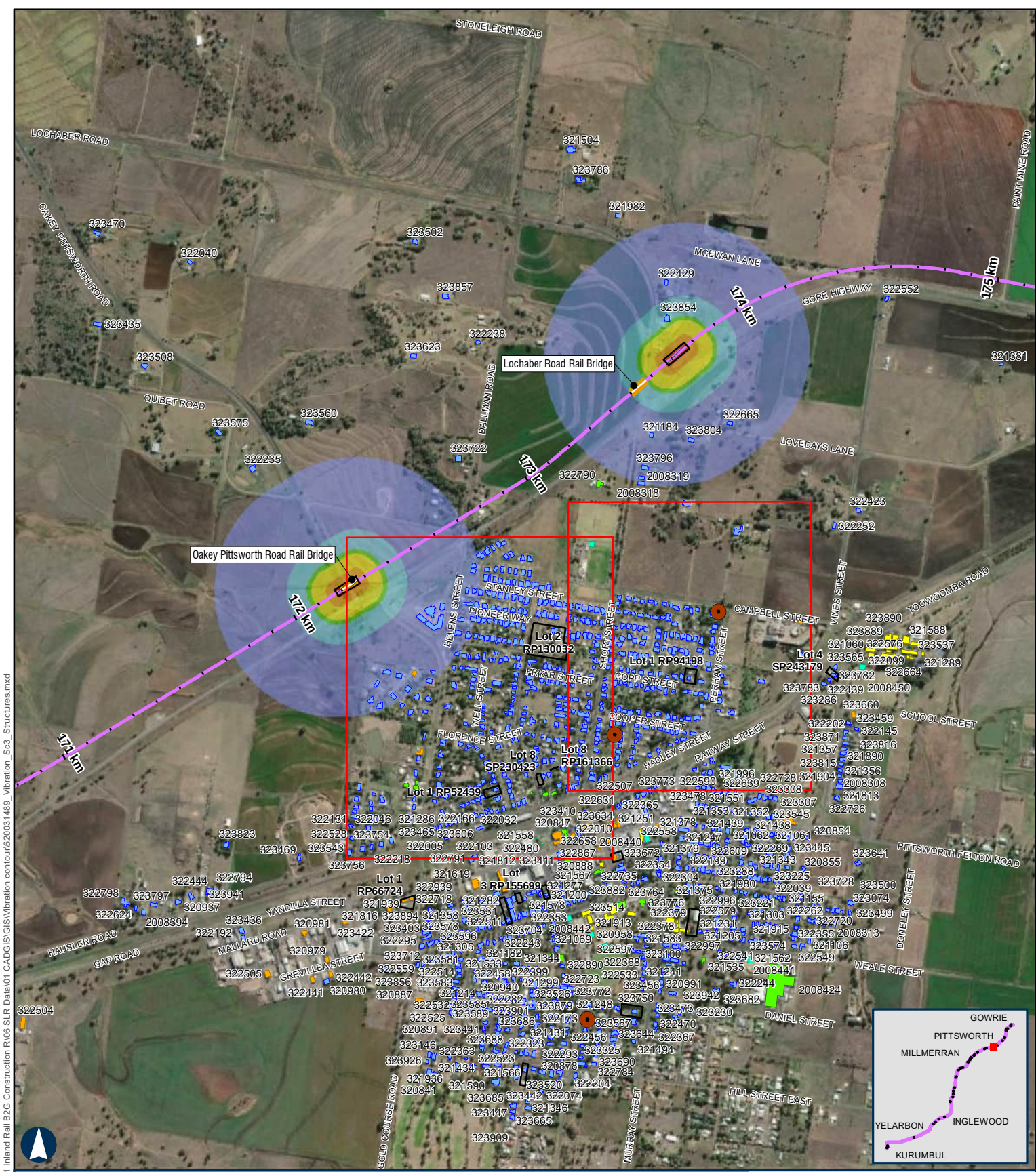
Residential or light framed commercial: 7.5 mm/s, 34m

Industrial or framed commercial: 25 mm/s, 1m

ARTC

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BORDER TO GOWRIE Scenario 3 - Structures

APPENDIX E - MAP 24 OF 31

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/ Centreline

▭ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Safe Working Distance

Human comfort – non-standards hours lower limit: 0.3 mm/s, 445m

Human comfort – standards hours lower limit: 1 mm/s, 176m

Human comfort – standards hours upper limit: 2 mm/s, 102m

Heritage structures: 2.5 mm/s, 86m

Residential or light framed commercial: 7.5 mm/s, 34m

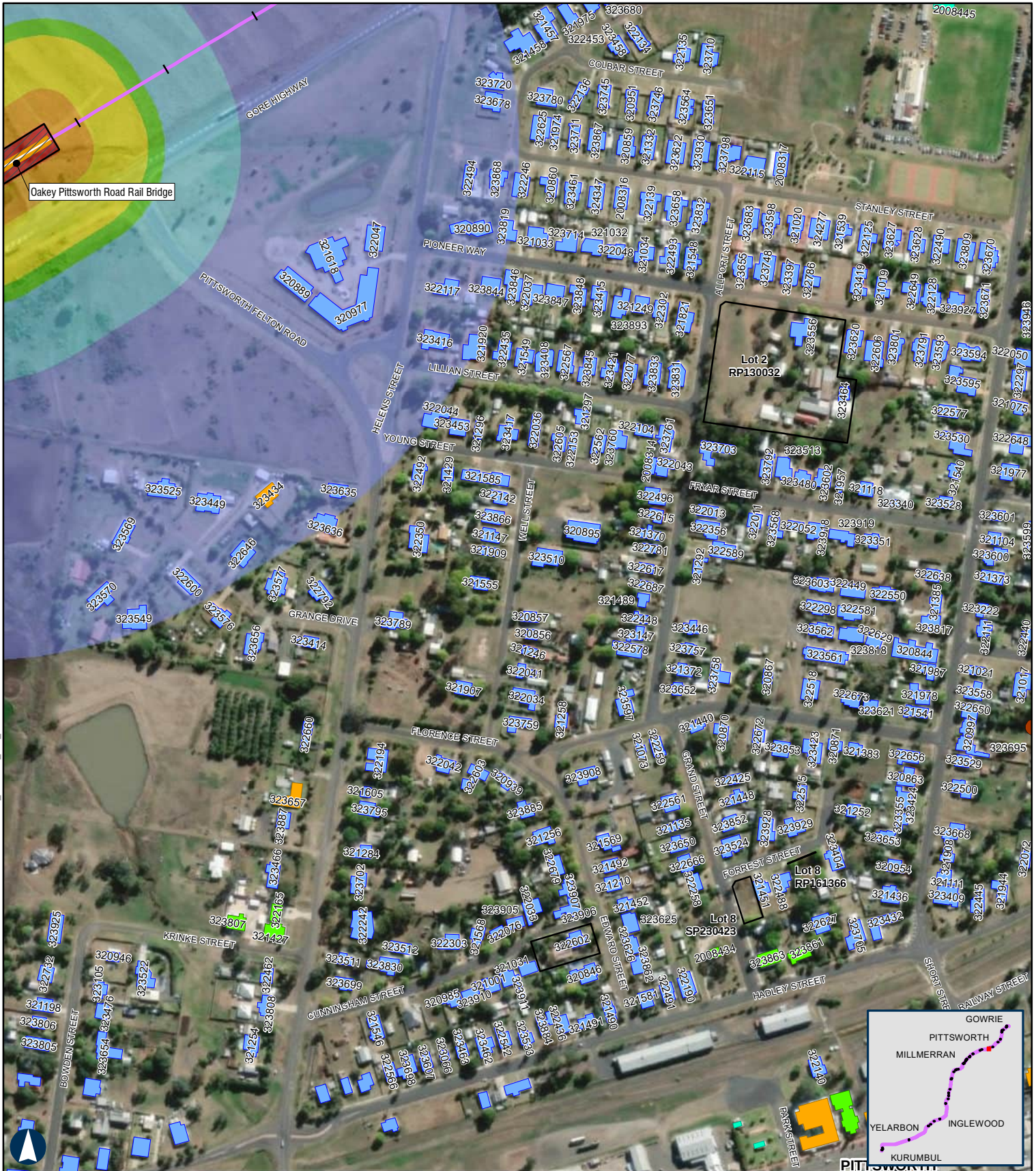
Industrial or framed commercial: 25 mm/s, 1m

ARTC

InlandRail

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BORDER TO GOWRI Scenario 3 - Structures

APPENDIX E - MAP 25 OF 31

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 15-Nov-2024
Author: JG

Scale: 1:5,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/ Centreline

— Koala Habitat Area

— Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distance

Human comfort – non-standards hours lower limit: 0.3 mm/s, 445m

Human comfort – standards hours lower limit: 1 mm/s, 176m

Human comfort – standards hours upper limit: 2 mm/s, 102m

Heritage structures: 2.5 mm/s, 86m

Residential or light framed commercial: 7.5 mm/s, 34m

Industrial or framed commercial: 25 mm/s, 1m

ARTC InlandRail

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BORDER TO GOWRIE Scenario 3 - Structures

APPENDIX E - MAP 26 OF 31

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:5,000

- ✗ Level Crossings
- Flying Fox Camp
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Koala Habitat Area
- ▨ Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

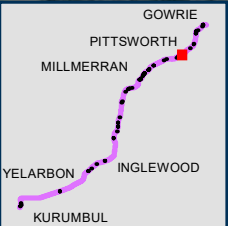
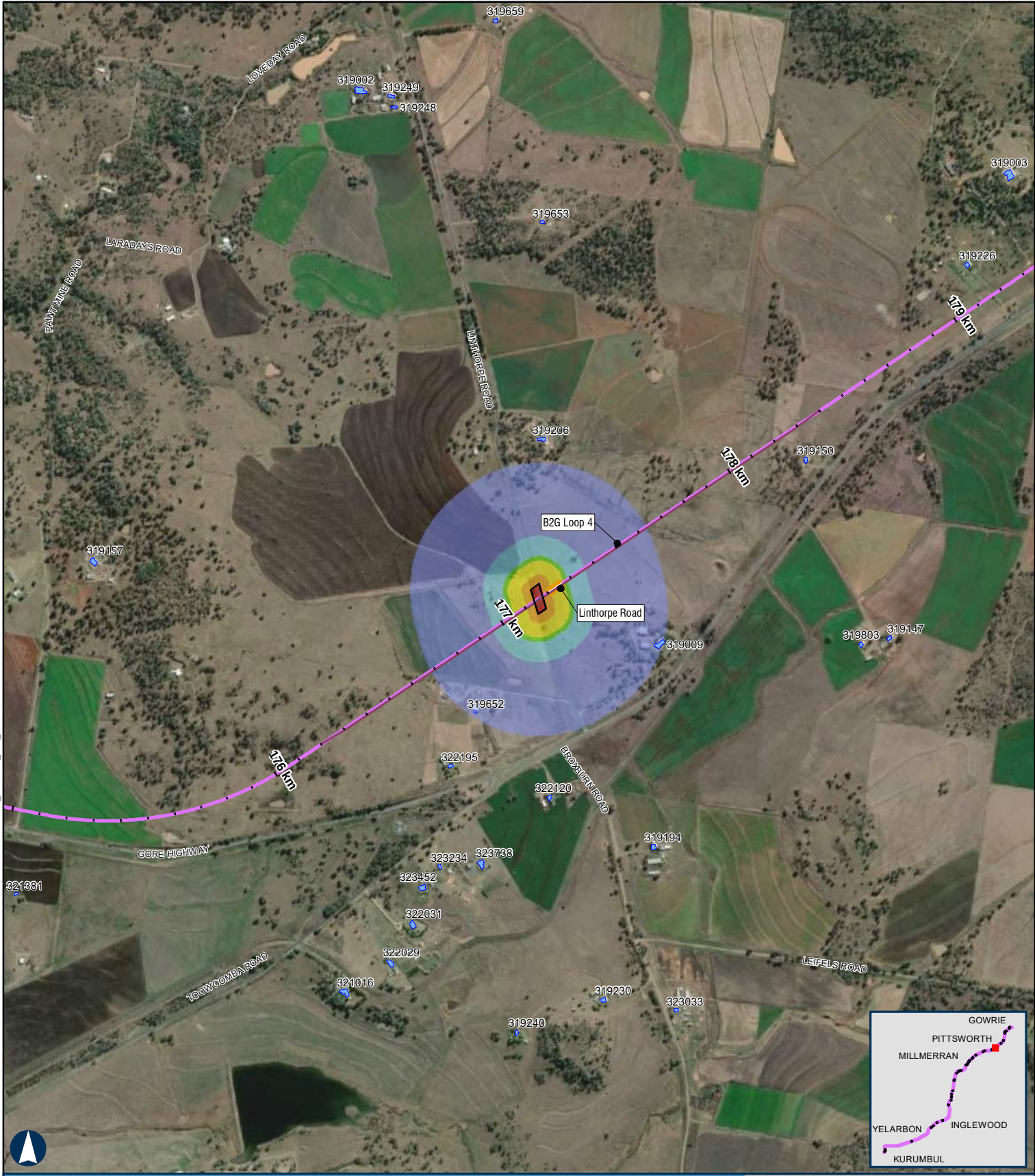
Safe Working Distance

- Human comfort – non-standards hours lower limit: 0.3 mm/s, 445m

- Human comfort – standards hours lower limit: 1 mm/s, 176m
- Human comfort – standards hours upper limit: 2 mm/s, 102m
- Heritage structures: 2.5 mm/s, 86m
- Residential or light framed commercial: 7.5 mm/s, 34m
- Industrial or framed commercial: 25 mm/s, 1m



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BORDER TO GOWRIE Scenario 3 - Structures

100m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

Scale: 1:19,000

- ✗ Level Crossings
- Flying Fox Camp
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Koala Habitat Area
- ▨ Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Safe Working Distance

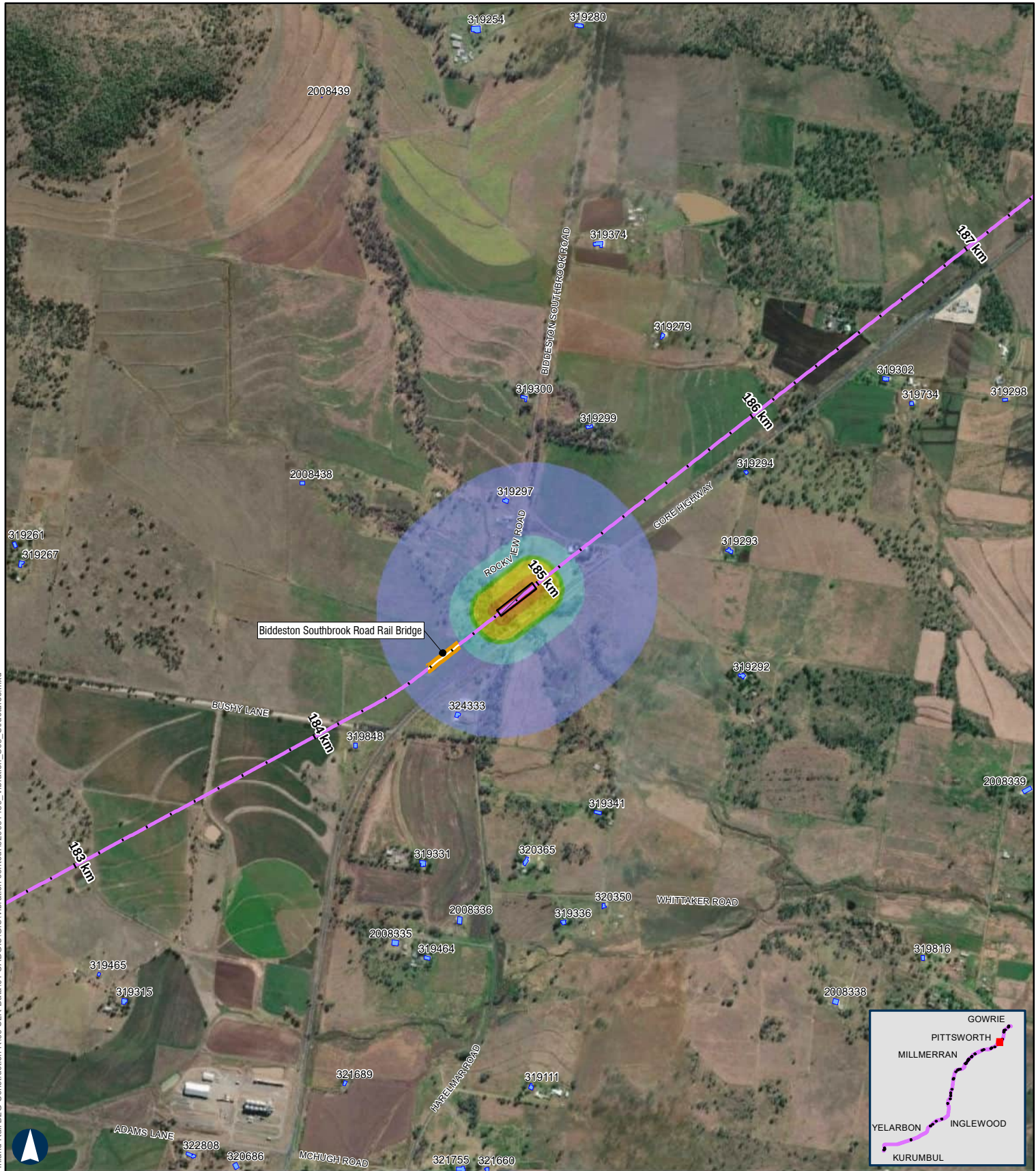
Human comfort – non-standards hours lower limit: 0.3 mm/s, 445m

- Human comfort – standards hours lower limit: 1 mm/s, 176m
- Human comfort – standards hours upper limit: 2 mm/s, 102m
- Heritage structures: 2.5 mm/s, 86m
- Residential or light framed commercial: 7.5 mm/s, 34m
- Industrial or framed commercial: 25 mm/s, 1m

APPENDIX E - MAP 27 OF 31

ARTC **InlandRail**

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BORDER TO GOWRIE Scenario 3 - Structures

APPENDIX E - MAP 28 OF 31

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

- ✗ Level Crossings
- Flying Fox Camp
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Koala Habitat Area
- ▨ Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

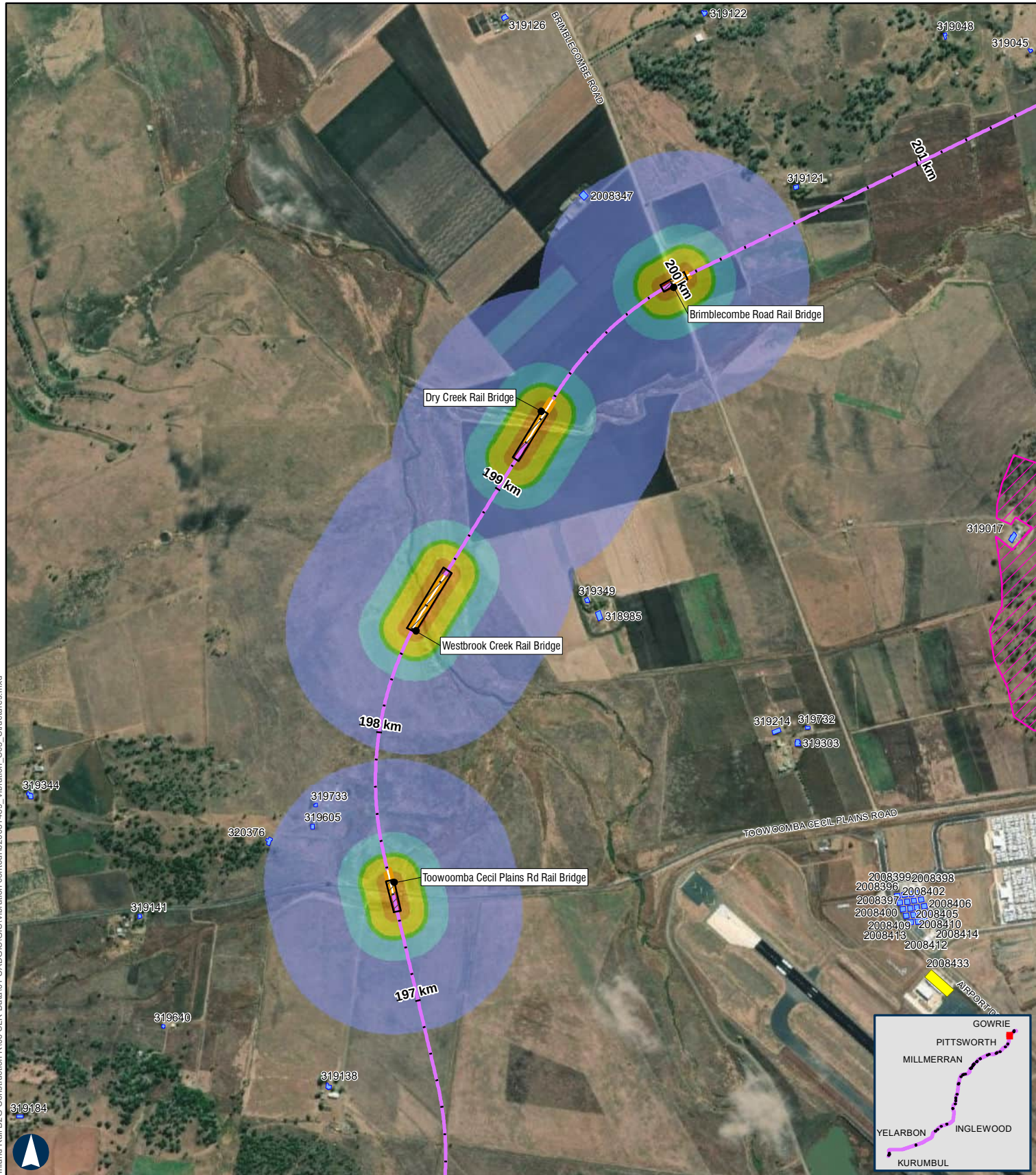
Safe Working Distance

- Human comfort – non-standards hours lower limit: 0.3 mm/s, 445m

- Human comfort – standards hours lower limit: 1 mm/s, 176m
- Human comfort – standards hours upper limit: 2 mm/s, 102m
- Heritage structures: 2.5 mm/s, 86m
- Residential or light framed commercial: 7.5 mm/s, 34m
- Industrial or framed commercial: 25 mm/s, 1m



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BORDER TO GOWRIE Scenario 3 - Structures

100m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

Scale: 1:19,000

- ✗ Level Crossings
- Flying Fox Camp
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Koala Habitat Area
- Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Safe Working Distance

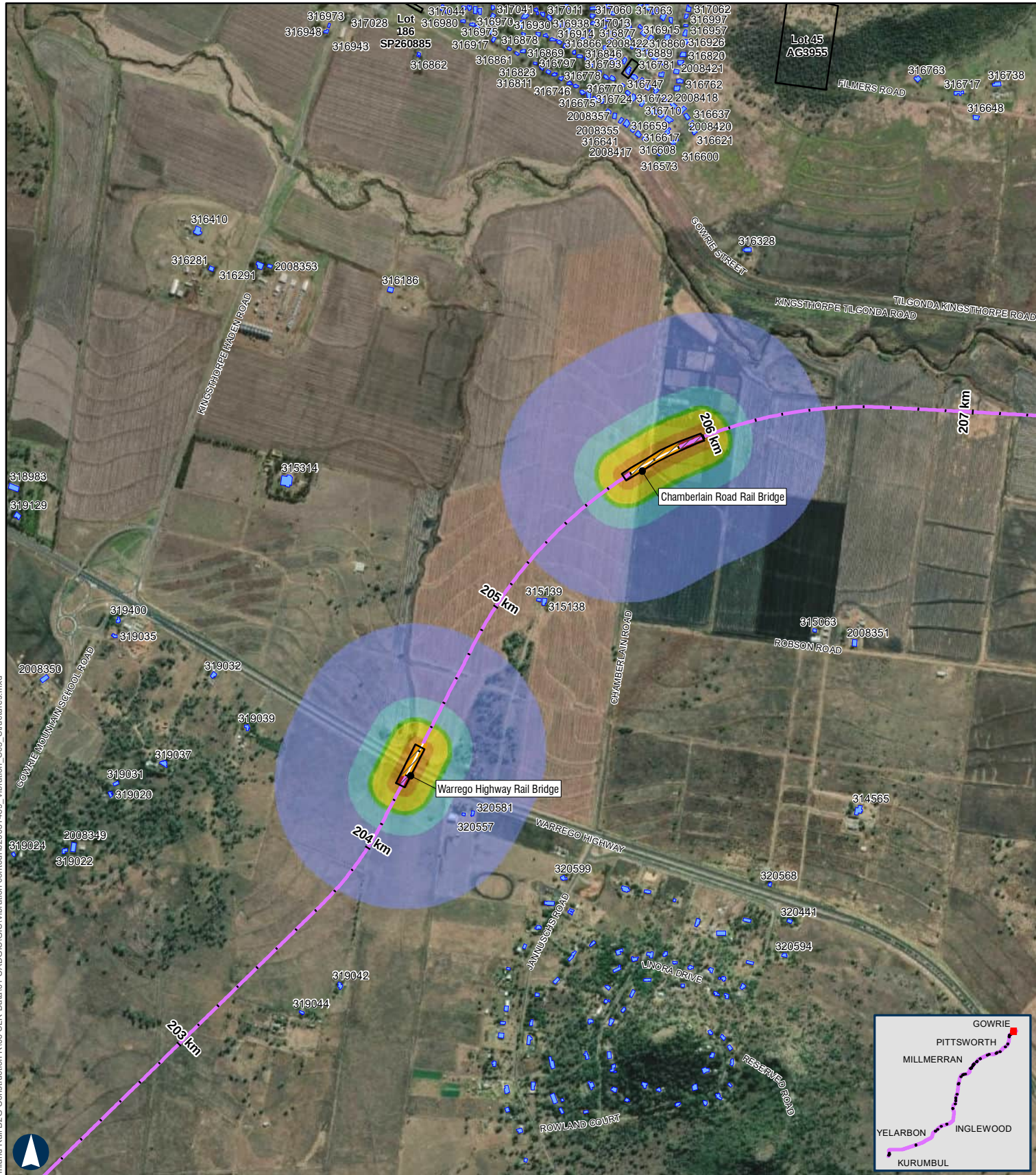
- Human comfort – non-standards hours lower limit: 0.3 mm/s, 445m

- Human comfort – standards hours lower limit: 1 mm/s, 176m
- Human comfort – standards hours upper limit: 2 mm/s, 102m
- Heritage structures: 2.5 mm/s, 86m
- Residential or light framed commercial: 7.5 mm/s, 34m
- Industrial or framed commercial: 25 mm/s, 1m

APPENDIX E - MAP 30 OF 31

ARTC **InlandRail**

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BORDER TO GOWRIE Scenario 3 - Structures

APPENDIX E - MAP 31 OF 31

100m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

Scale: 1:19,000

- ✗ Level Crossings
- Flying Fox Camp
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Koala Habitat Area
- ▨ Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

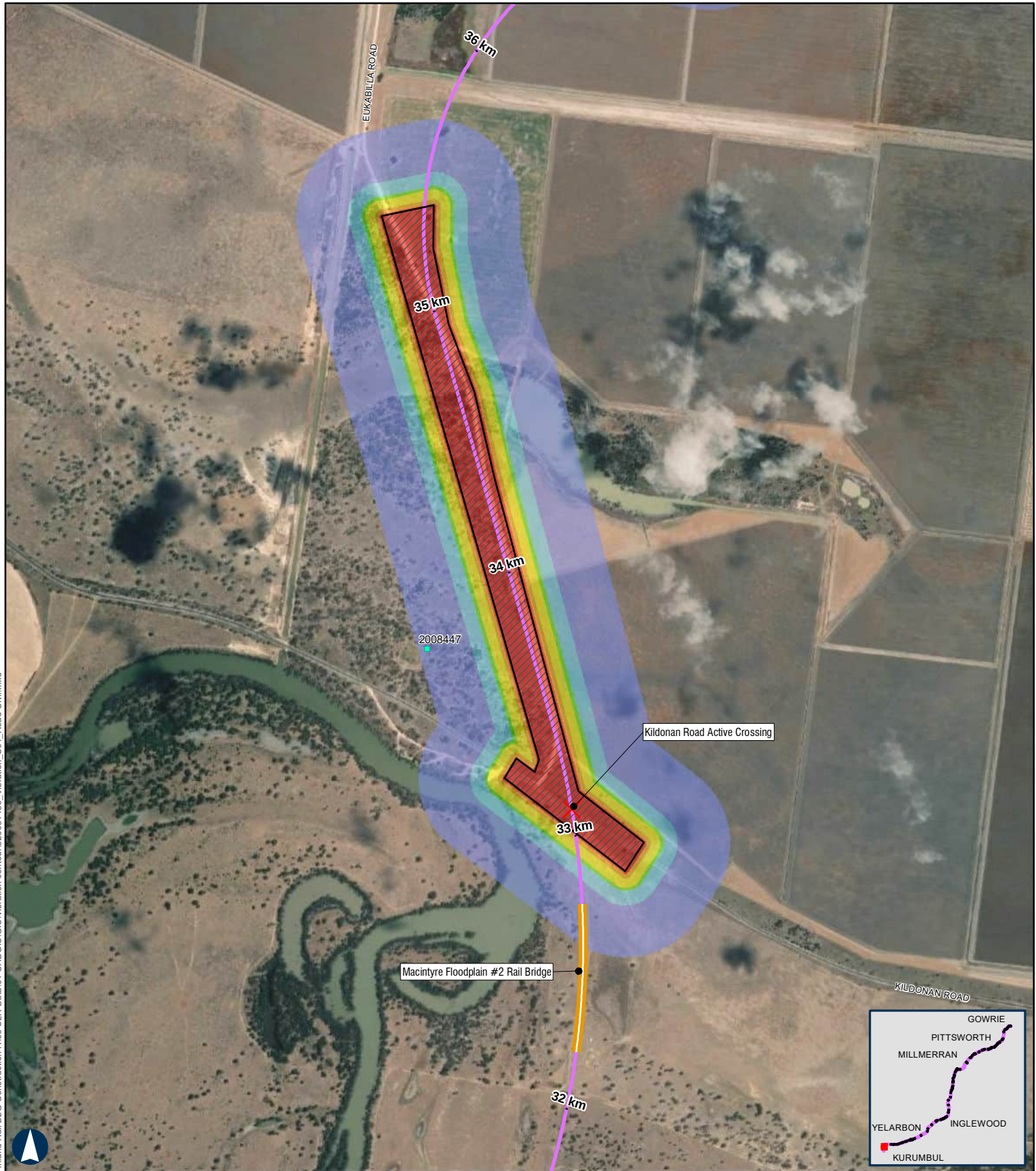
Safe Working Distance

- Human comfort – non-standards hours lower limit: 0.3 mm/s, 445m

- Human comfort – standards hours lower limit: 1 mm/s, 176m
- Human comfort – standards hours upper limit: 2 mm/s, 102m
- Heritage structures: 2.5 mm/s, 86m
- Residential or light framed commercial: 7.5 mm/s, 34m
- Industrial or framed commercial: 25 mm/s, 1m



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BORDER TO GOWRIE Scenario 4 - Road Civil

APPENDIX E - MAP 1 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

□ Future Developments

Safe Working Distance

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

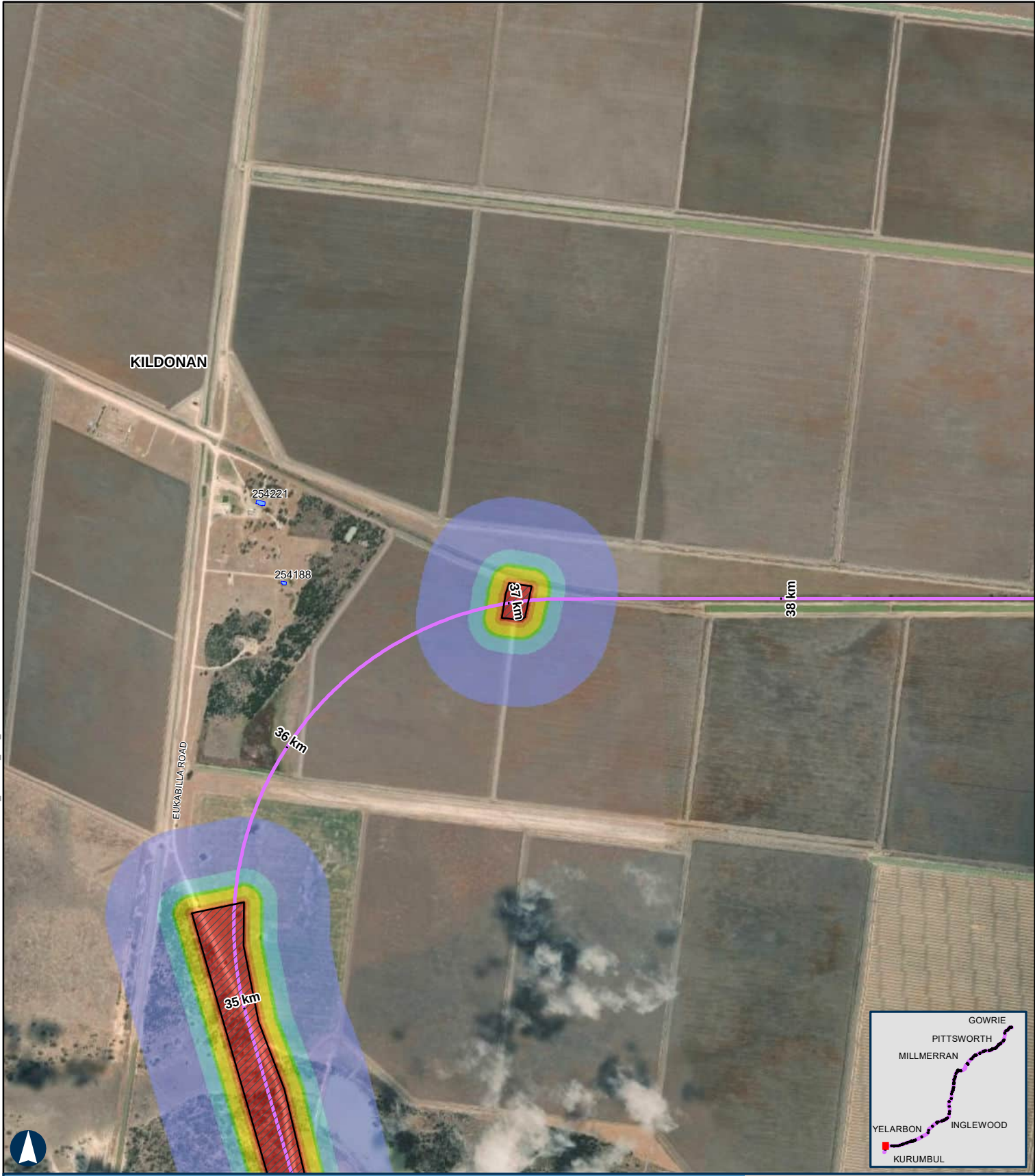
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

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BORDER TO GOWRIE Scenario 4 - Road Civil

APPENDIX E - MAP 2 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/ Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Safe Working Distance

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

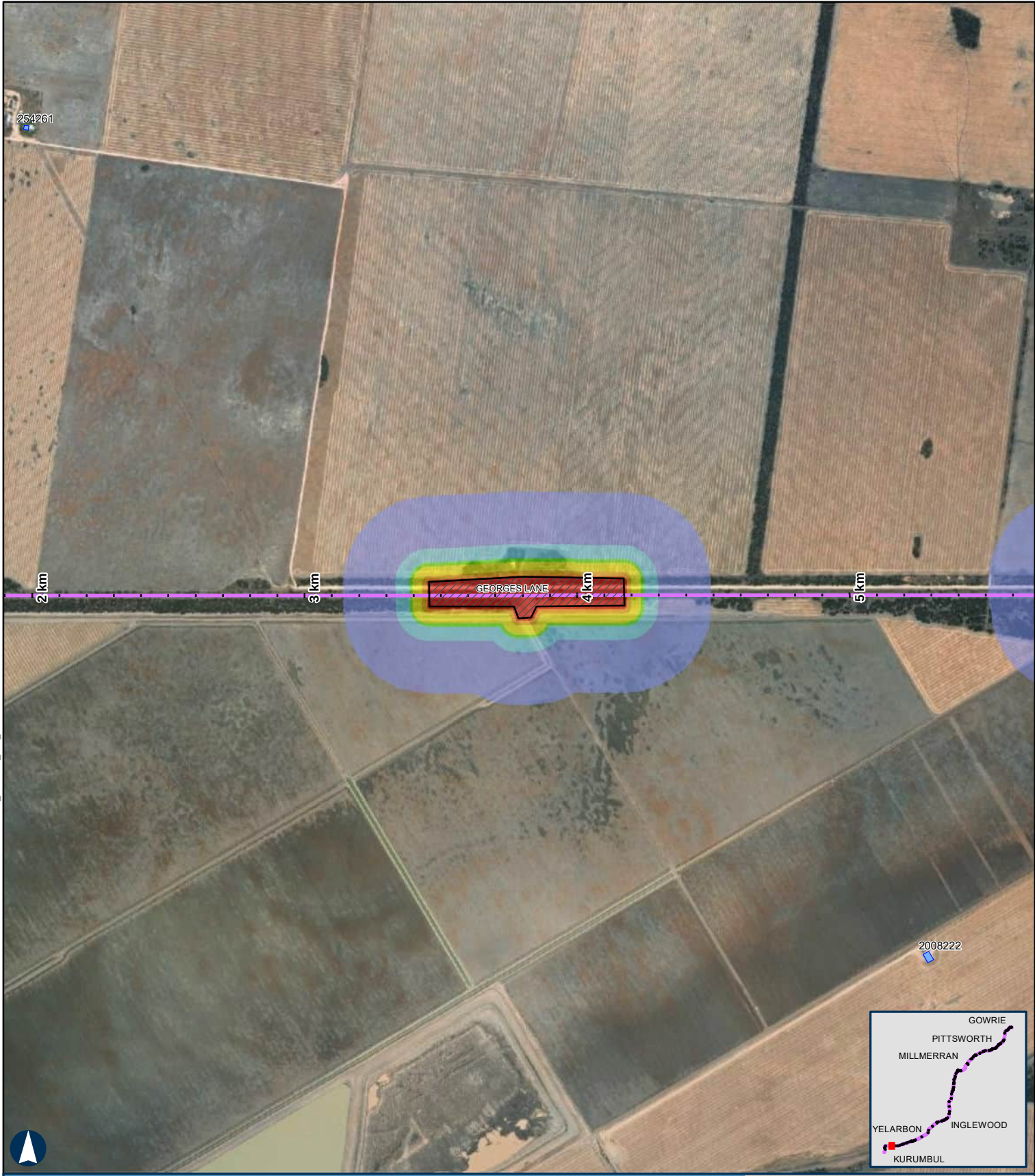
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m



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BORDER TO GOWRIE Scenario 4 - Road Civil

APPENDIX E - MAP 3 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

- ✗ Level Crossings
- Flying Fox Camp
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Koala Habitat Area
- ▨ Work Area

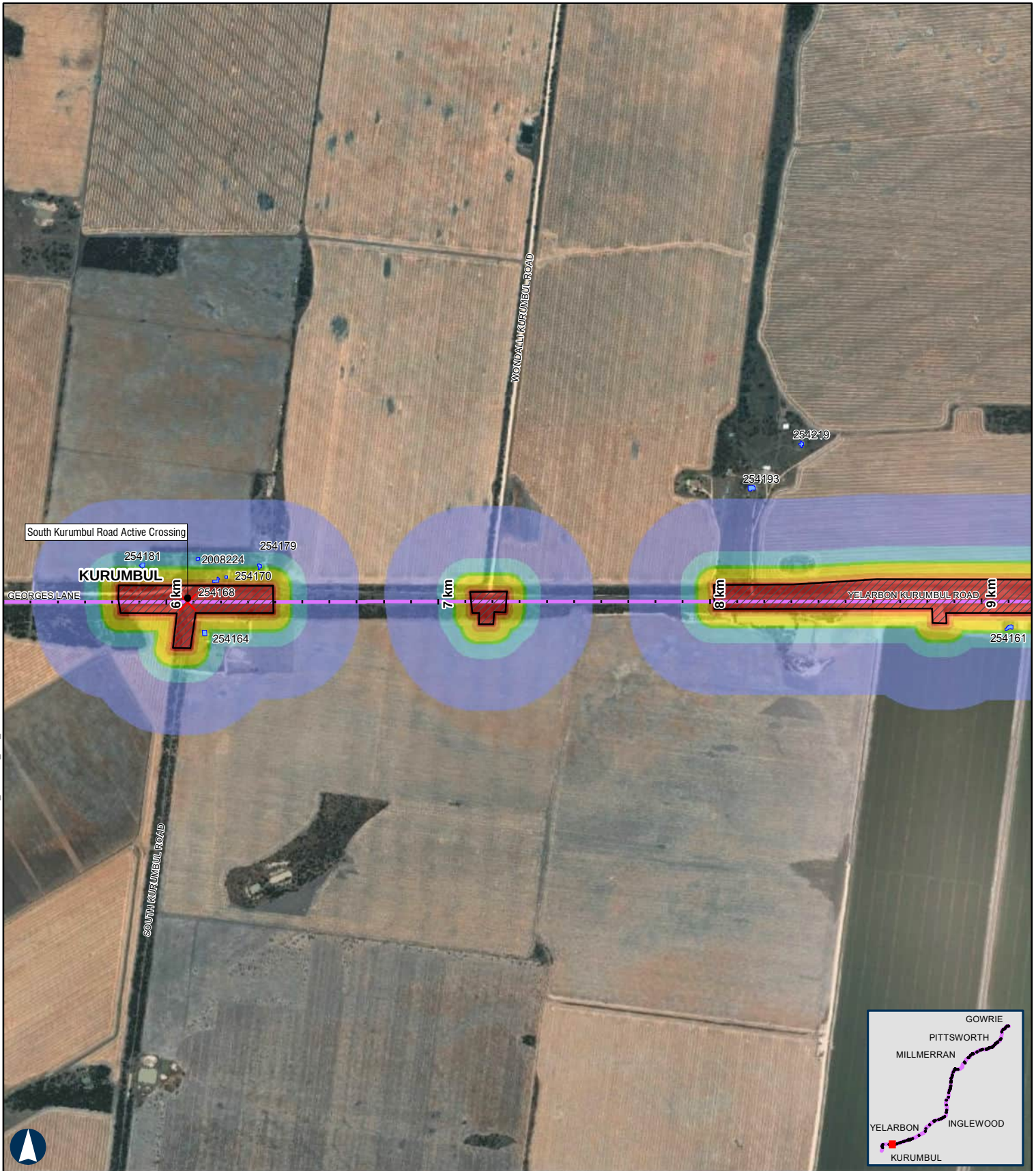
Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments
- Safe Working Distance**
Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

- Human comfort – standards hours lower limit: 1 mm/s, 124m
- Human comfort – standards hours upper limit: 2 mm/s, 72m
- Heritage structures: 2.5 mm/s, 60m
- Residential or light framed commercial: 7.5 mm/s, 25m
- Industrial or framed commercial: 25 mm/s, 8m



ARTC **InlandRail**
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BORDER TO GOWRIE Scenario 4 - Road Civil

APPENDIX E - MAP 4 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distance

Human comfort – non-

standards hours lower

limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

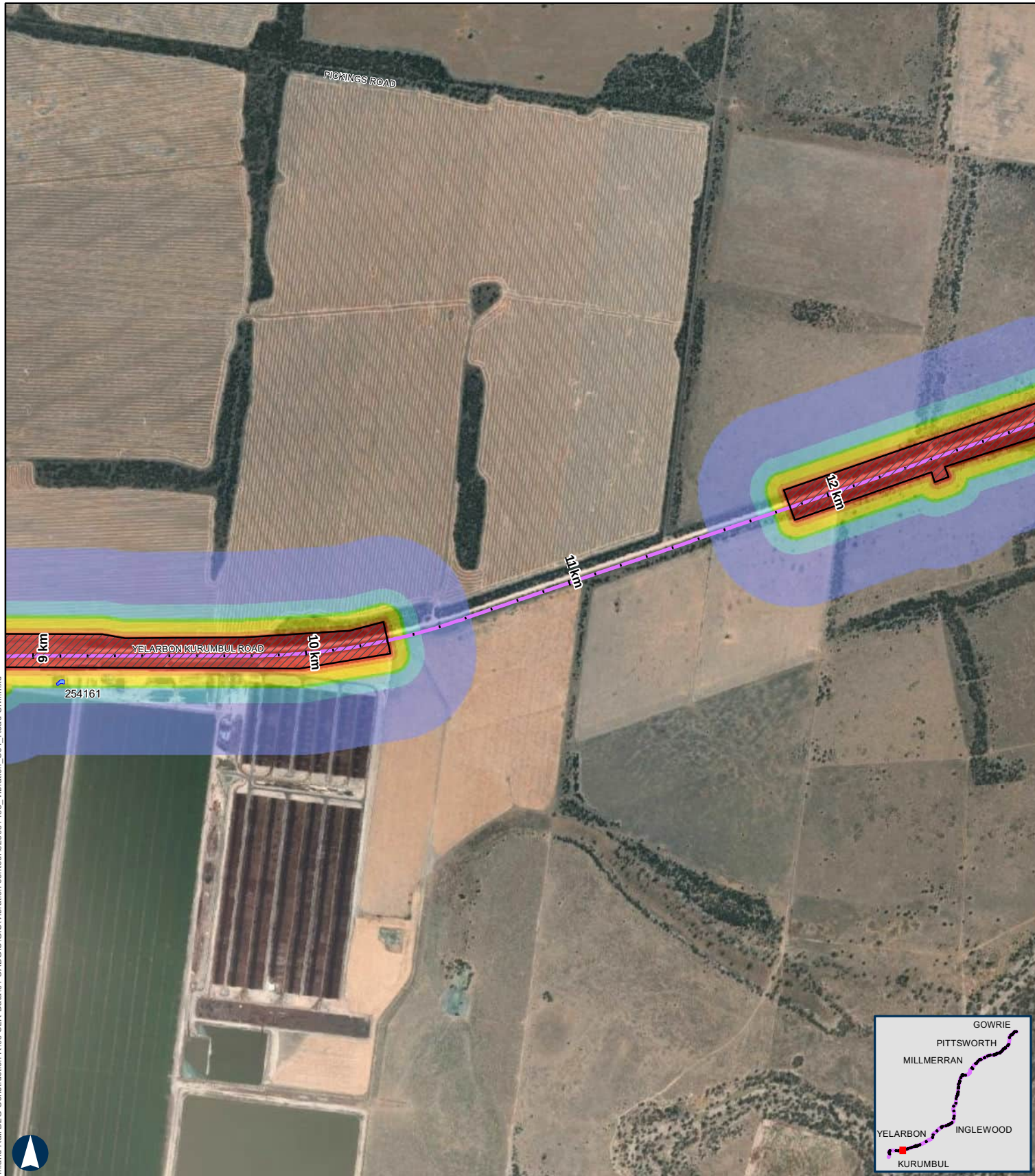
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC **InlandRail**

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BORDER TO GOWRIE Scenario 4 - Road Civil

APPENDIX E - MAP 5 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

□ Future Developments

Safe Working Distance

Human comfort – non-

standards hours lower

limit: 0.3 mm/s, 316m

Human comfort –
standards hours lower
limit: 1 mm/s, 124m

Human comfort –
standards hours upper
limit: 2 mm/s, 72m

Heritage structures:
2.5 mm/s, 60m

Residential or light
framed commercial:
7.5 mm/s, 25m

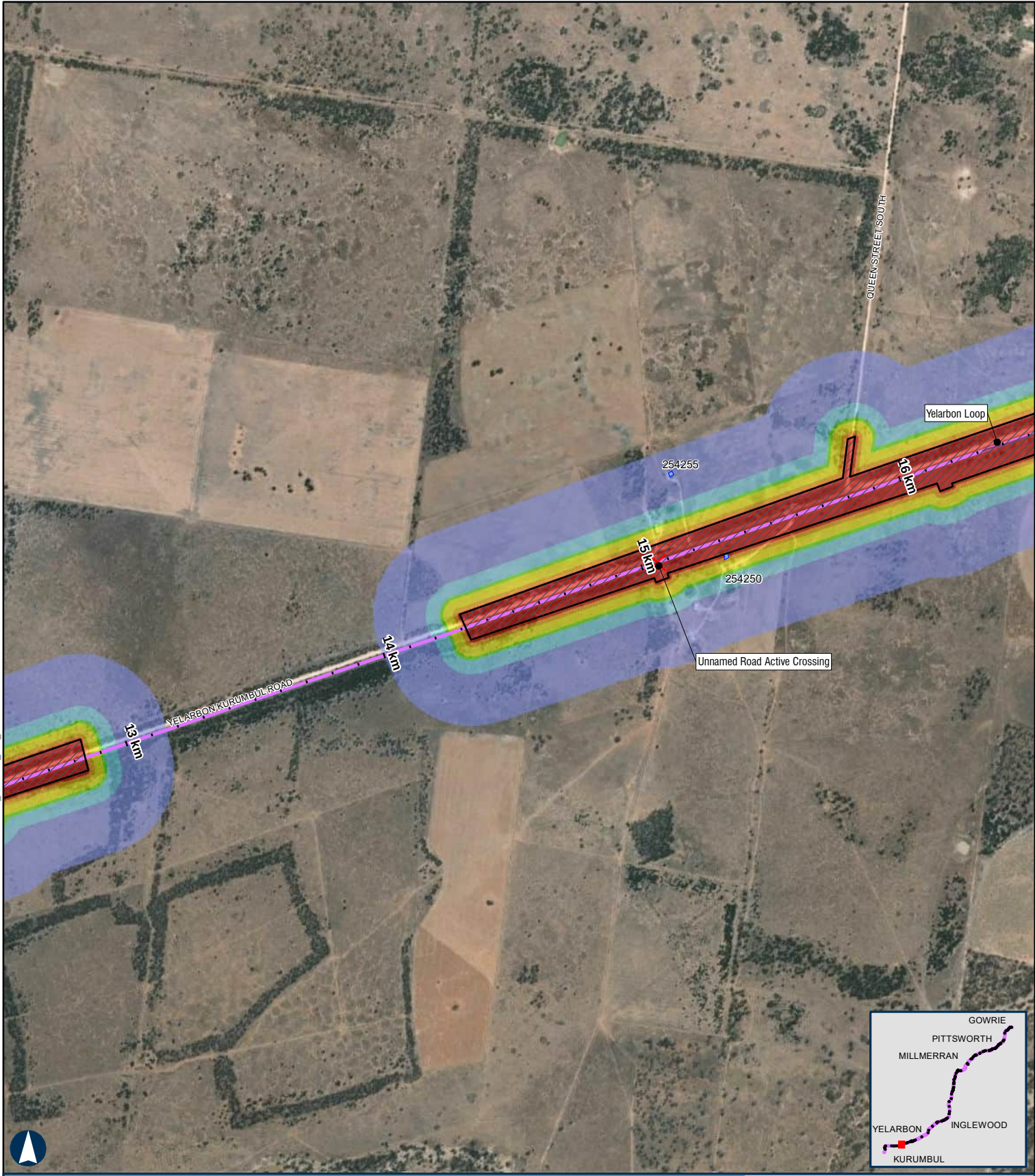
Industrial or framed
commercial: 25 mm/s,
8m



ARTC **InlandRail**

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BORDER TO GOWRIE Scenario 4 - Road Civil

APPENDIX E - MAP 6 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✕ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/ Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distance

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

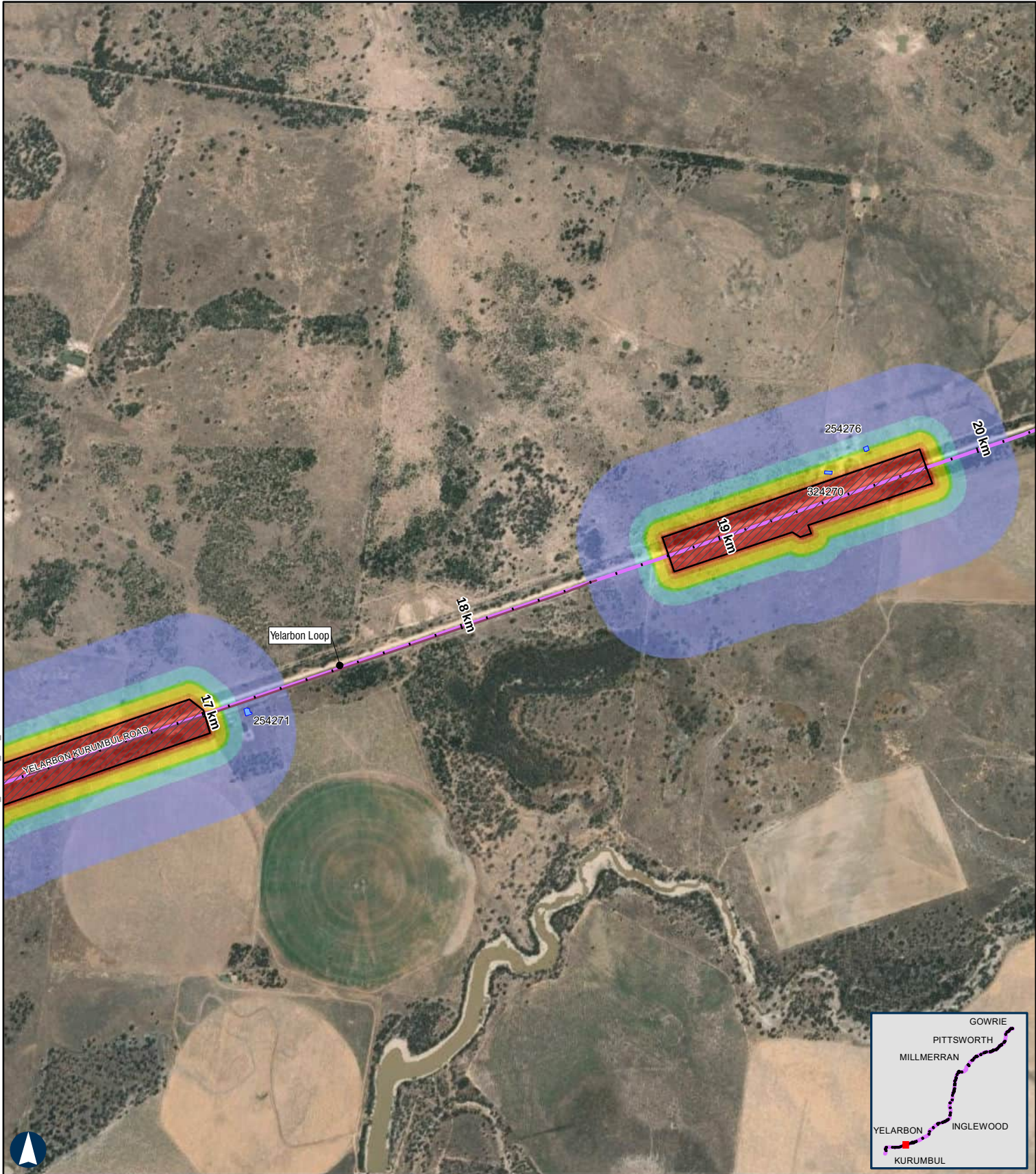
Industrial or framed commercial: 25 mm/s, 8m

ARTC

InlandRail

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BORDER TO GOWRIE Scenario 4 - Road Civil

APPENDIX E - MAP 7 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

✕ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/ Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Safe Working Distance

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

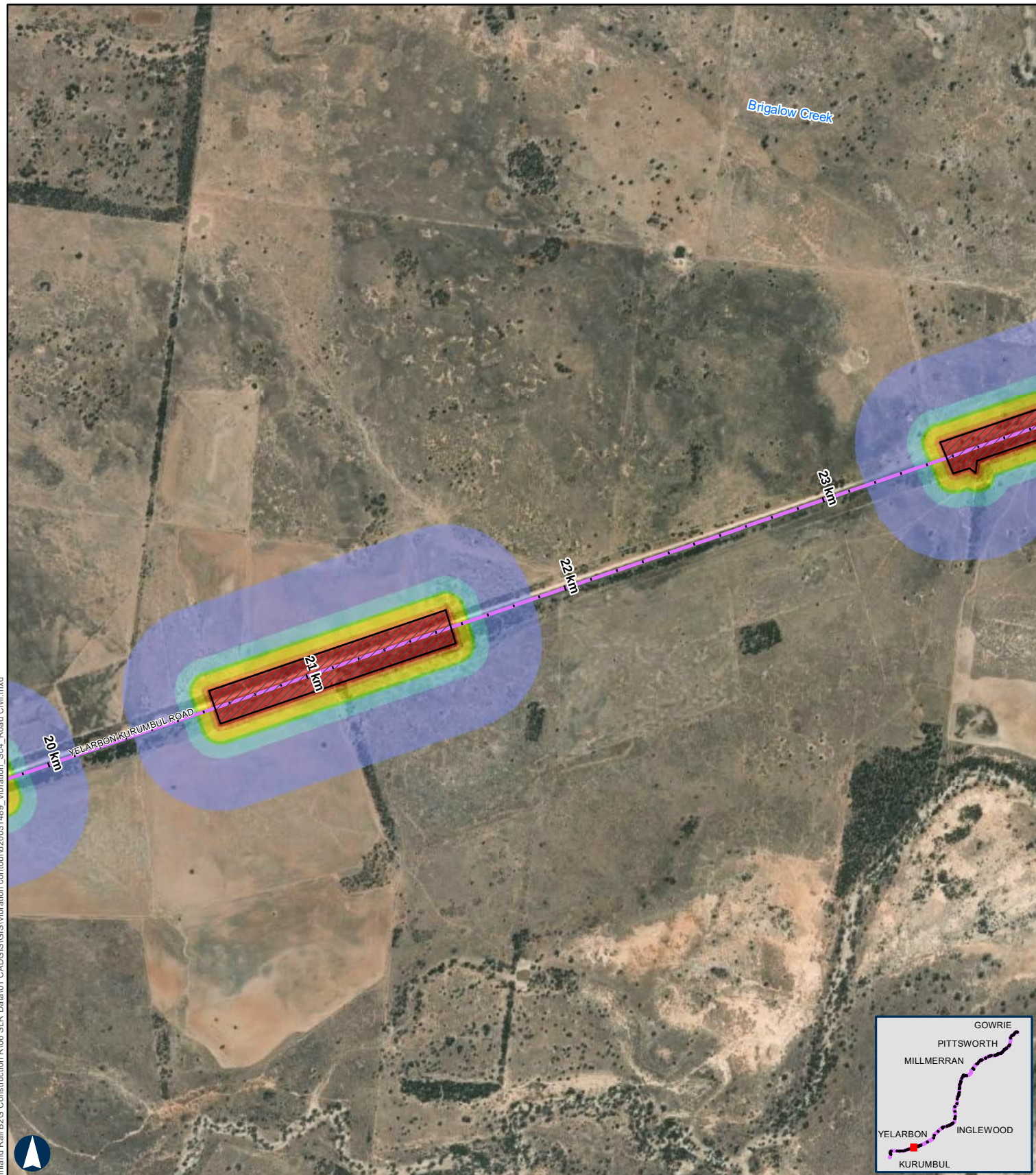
Human comfort – standards hours upper limit: 2 mm/s, 72m

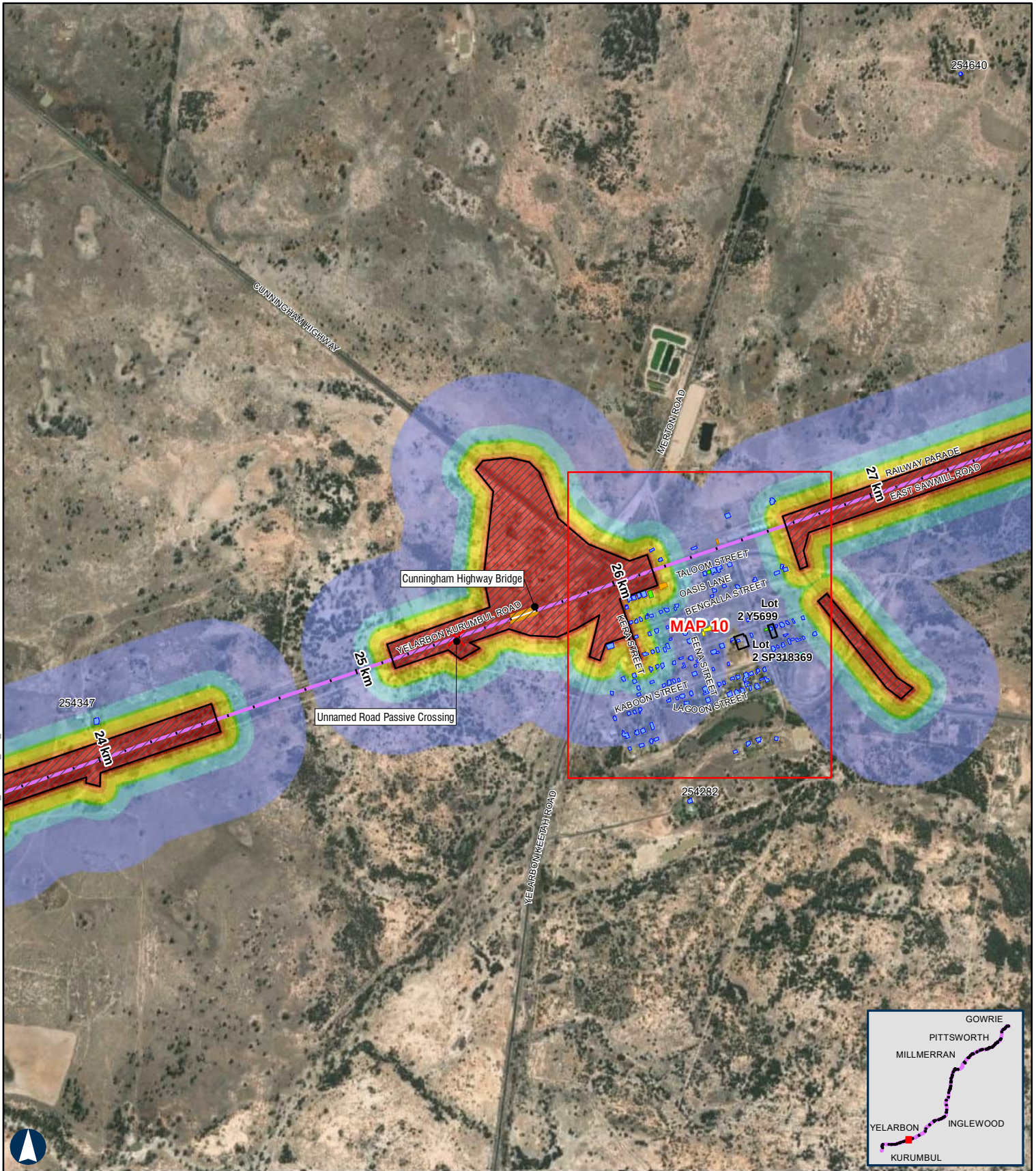
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation, in partnership with the private sector.





BORDER TO GOWRIE Scenario 4 - Road Civil

APPENDIX E - MAP 9 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

— Koala Habitat Area

— Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distance

Human comfort – non-

standards hours lower

limit: 0.3 mm/s, 316m

Human comfort –
standards hours lower
limit: 1 mm/s, 124m

Human comfort –
standards hours upper
limit: 2 mm/s, 72m

Heritage structures:
2.5 mm/s, 60m

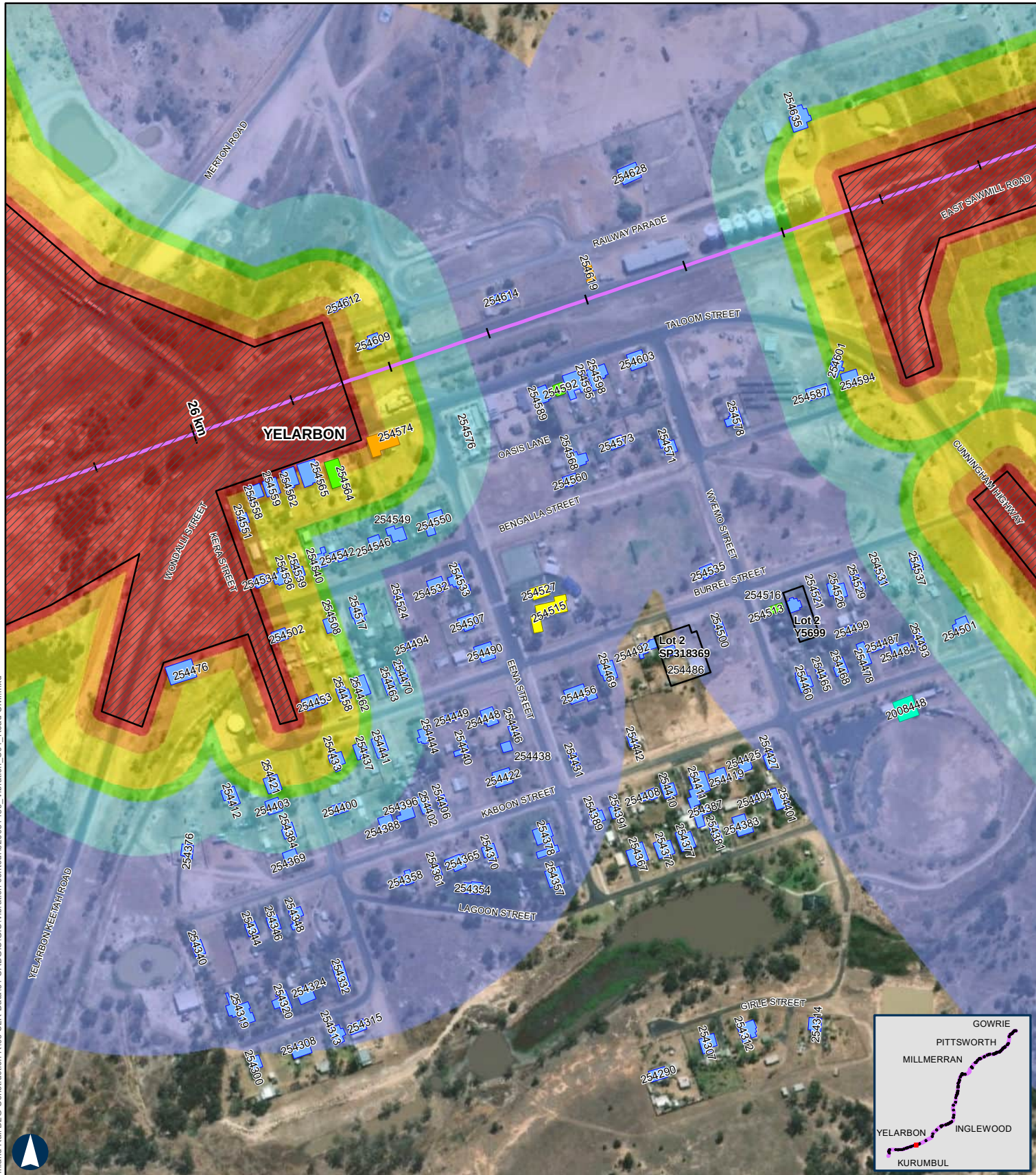
Residential or light
framed commercial:
7.5 mm/s, 25m

Industrial or framed
commercial: 25 mm/s,
8m



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BORDER TO GOWRIE Scenario 4 - Road Civil

APPENDIX E - MAP 10 OF 54

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:5,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distance

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

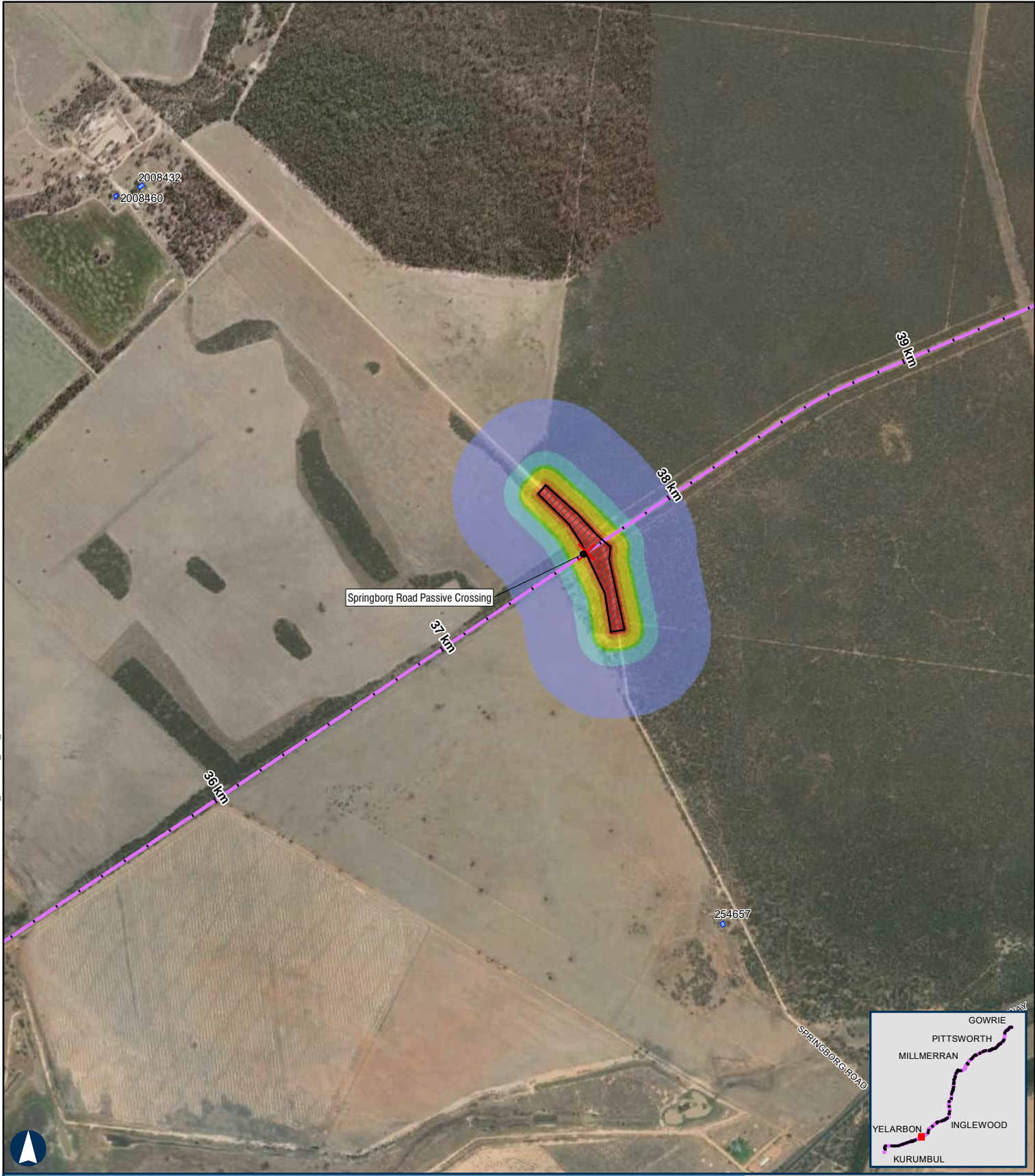
Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m



ARTC InlandRail

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BORDER TO GOWRIE Scenario 4 - Road Civil

APPENDIX E - MAP 12 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:19,000
Date: 15-Nov-2024
Author: JG

Level Crossings

Flying Fox Camp

Project Extent

Crossing Loops

Bridges and Viaducts

Rail Alignment/ Centreline

Koala Habitat Area

Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Safe Working Distance

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

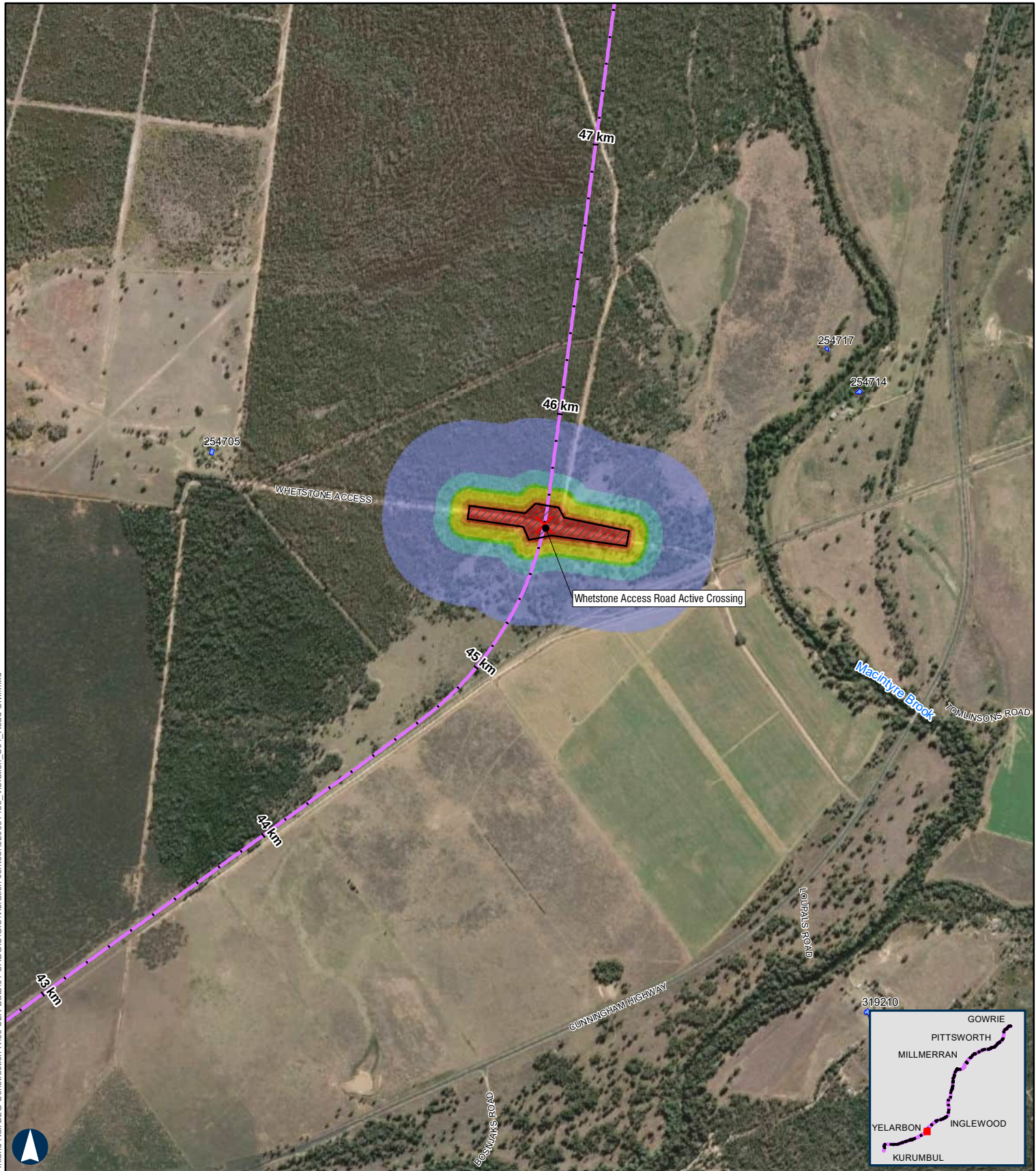
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m



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BORDER TO GOWRIE Scenario 4 - Road Civil

APPENDIX E - MAP 13 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✕ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distance

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

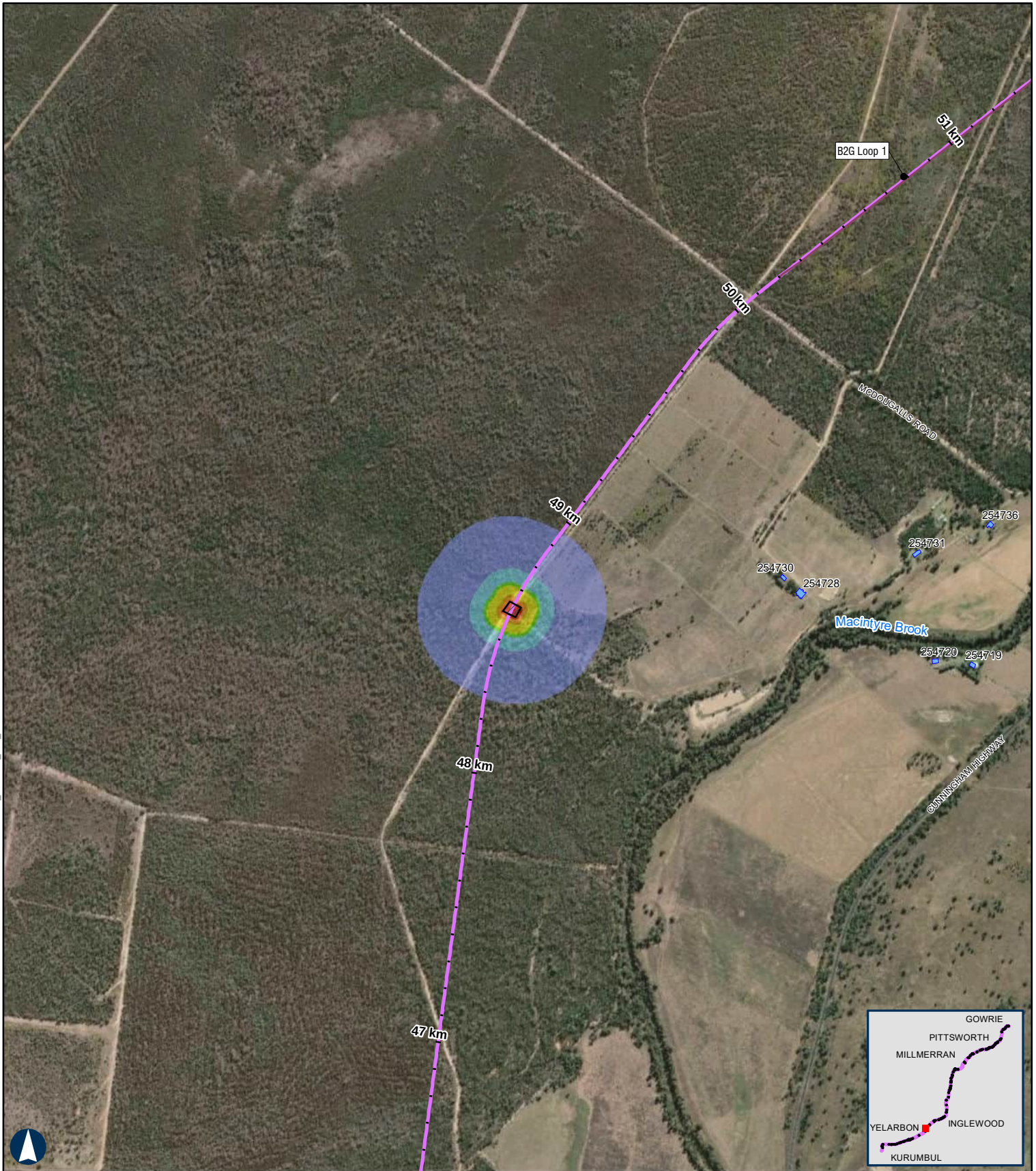
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC **InlandRail**

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BORDER TO GOWRI Scenario 4 - Road Civil

APPENDIX E - MAP 14 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

□ Future Developments

Safe Working Distance

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

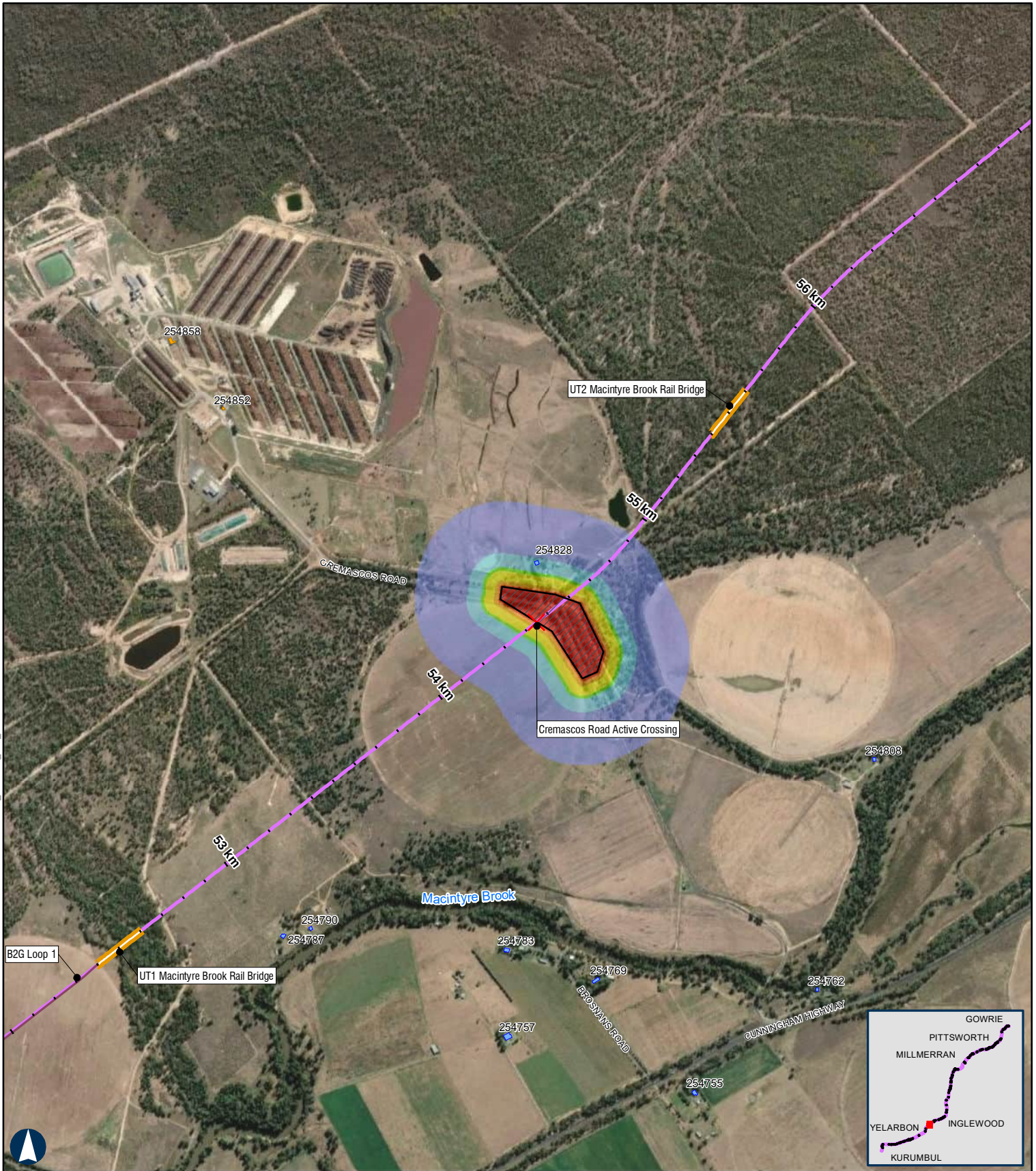
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC **InlandRail**

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BORDER TO GOWRIE

Scenario 4 - Road Civil

APPENDIX E - MAP 15 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✕ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

— Koala Habitat Area

— Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distance

Human comfort – non-

standards hours lower

limit: 0.3 mm/s, 316m

Human comfort –
standards hours lower
limit: 1 mm/s, 124m

Human comfort –
standards hours upper
limit: 2 mm/s, 72m

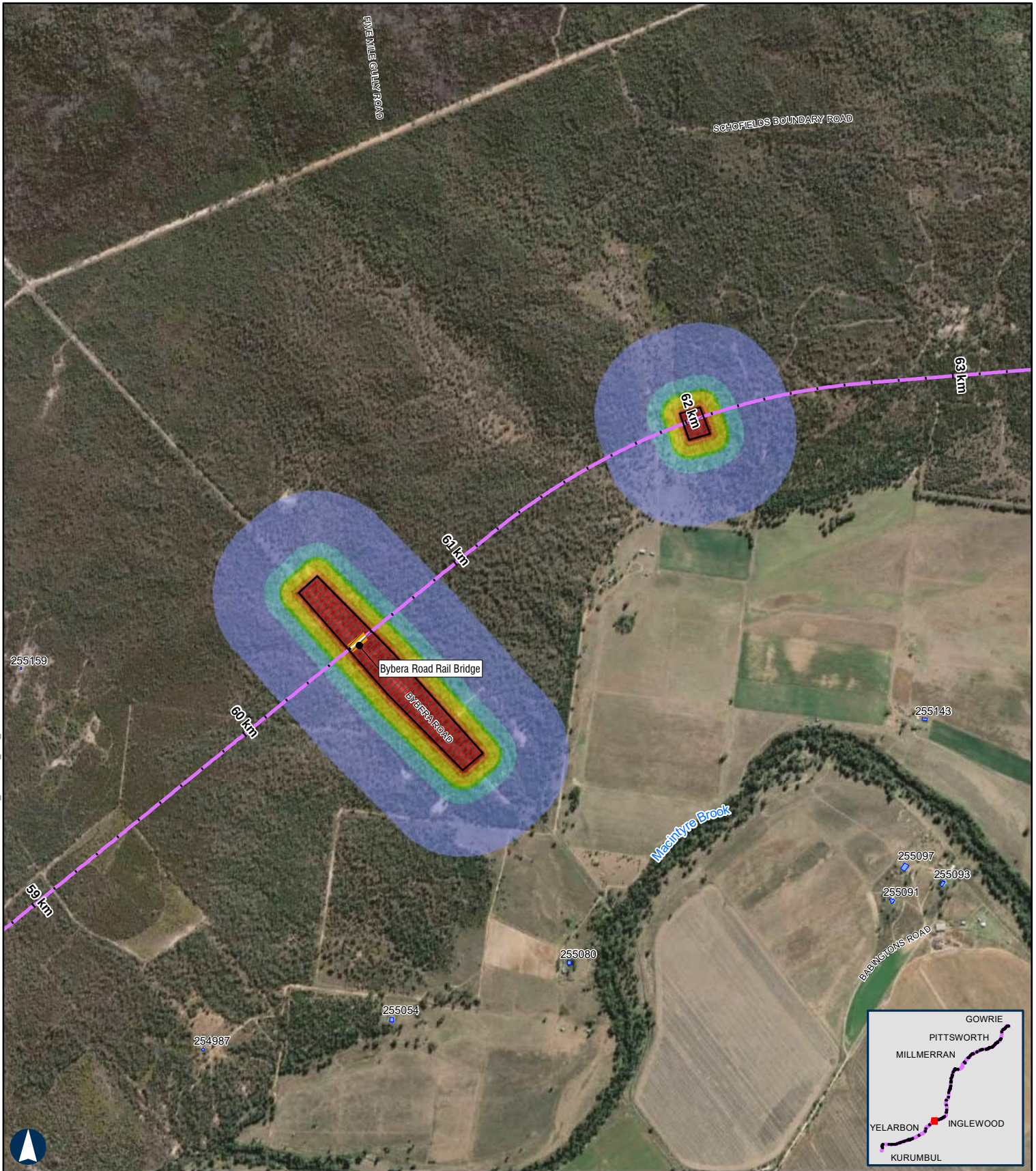
Heritage structures:
2.5 mm/s, 60m

Residential or light
framed commercial:
7.5 mm/s, 25m

Industrial or framed
commercial: 25 mm/s,
8m

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BORDER TO GOWRIE Scenario 4 - Road Civil

APPENDIX E - MAP 16 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✕ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distance

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

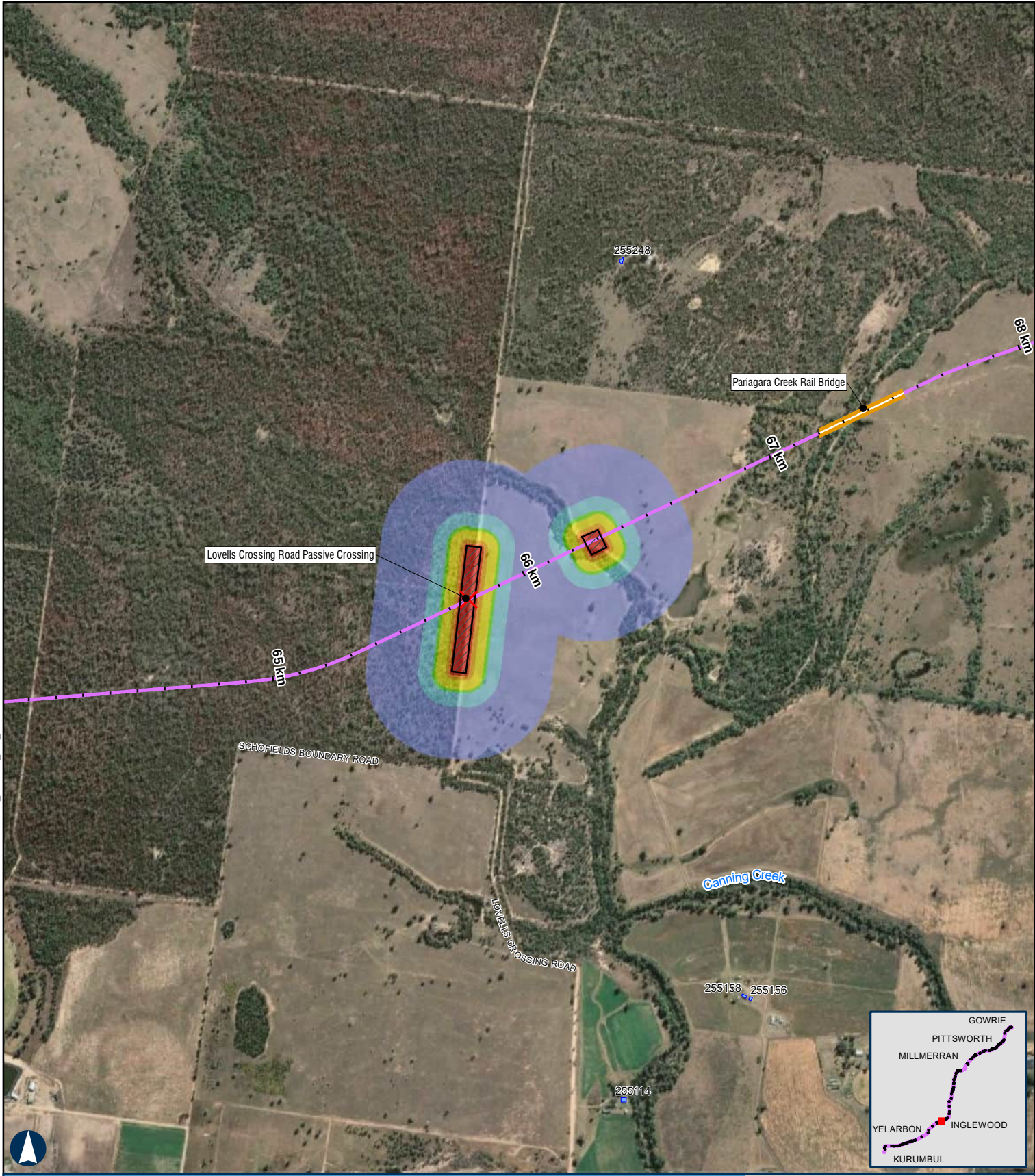
Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

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BORDER TO GOWRIE **Scenario 4 - Road Civil**

APPENDIX E - MAP 17 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/ Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Safe Working Distance

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

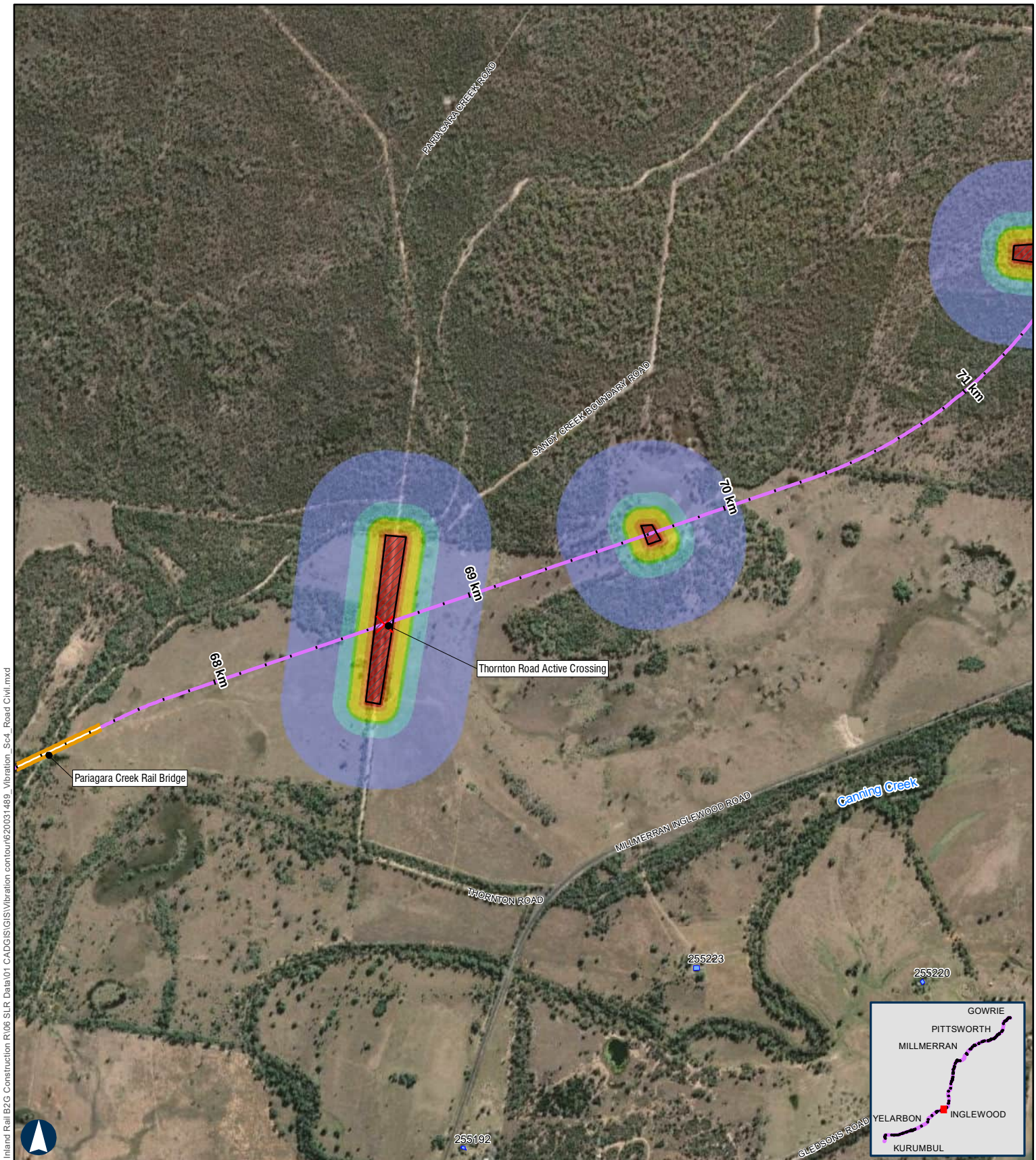
Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

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BORDER TO GOWRIE Scenario 4 - Road Civil

APPENDIX E - MAP 18 OF 54

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Scale: 1:19,000

- X Level Crossings**

- 6 Flying Fox Camp

- Project Extent

- ### — Crossing Loops

- ## Bridges and Viaducts

- Rail Alignment/
Centreline

-
- Koala Habitat Area

- Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland

- #### ☐ Future Developments

Safe Working Distance

- Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

- Human comfort – standards hours lower limit: 1 mm/s, 124m

- Human comfort – standards hours upper limit: 2 mm/s, 72m

- Heritage structures:
2.5 mm/s, 60m

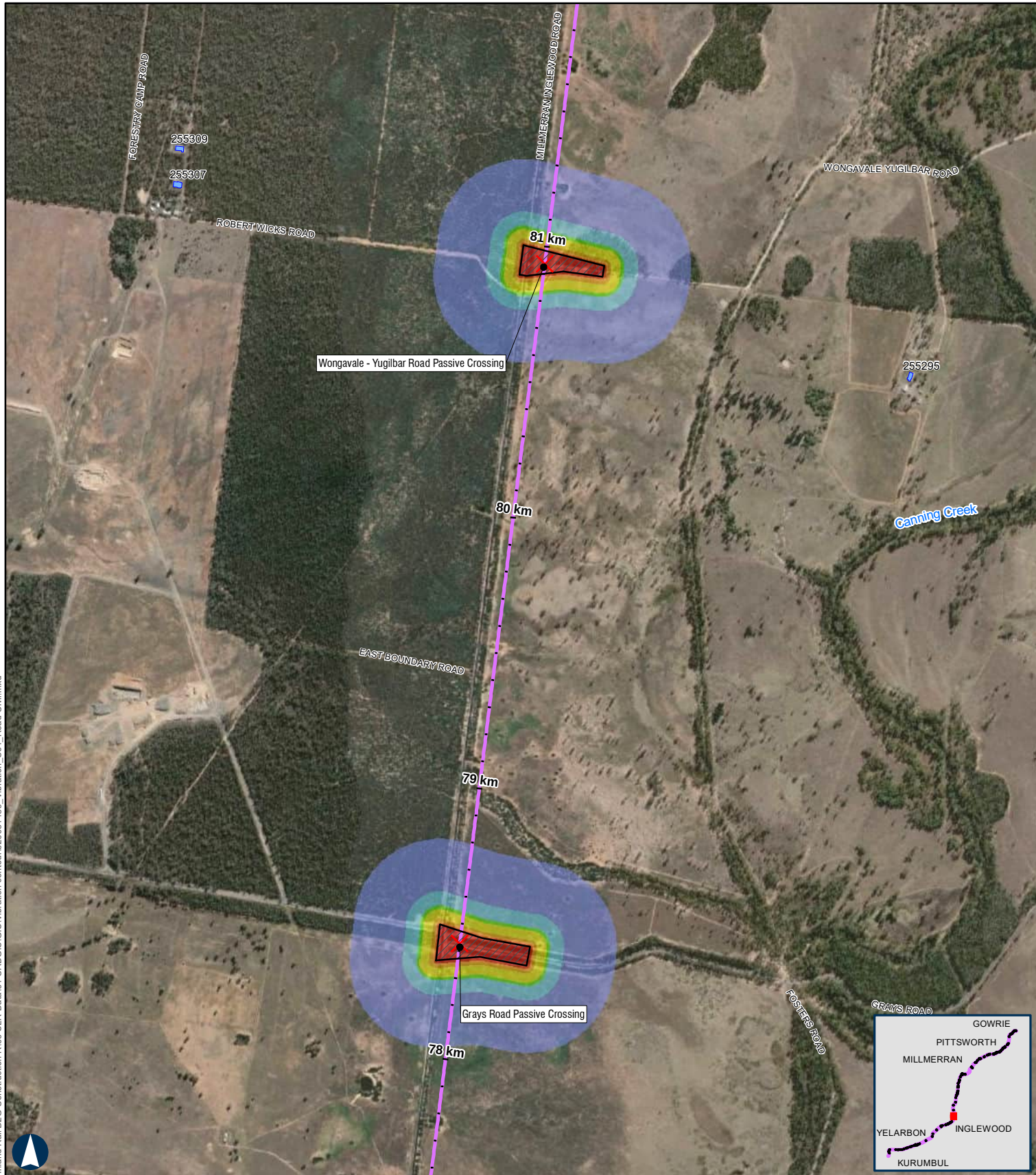
- Residential or light
framed commercial:
7.5 mm/s, 25m

- Industrial or framed commercial: 25 mm/s, 8m



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BORDER TO GOWRIE Scenario 4 - Road Civil

APPENDIX E - MAP 20 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✕ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distance

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

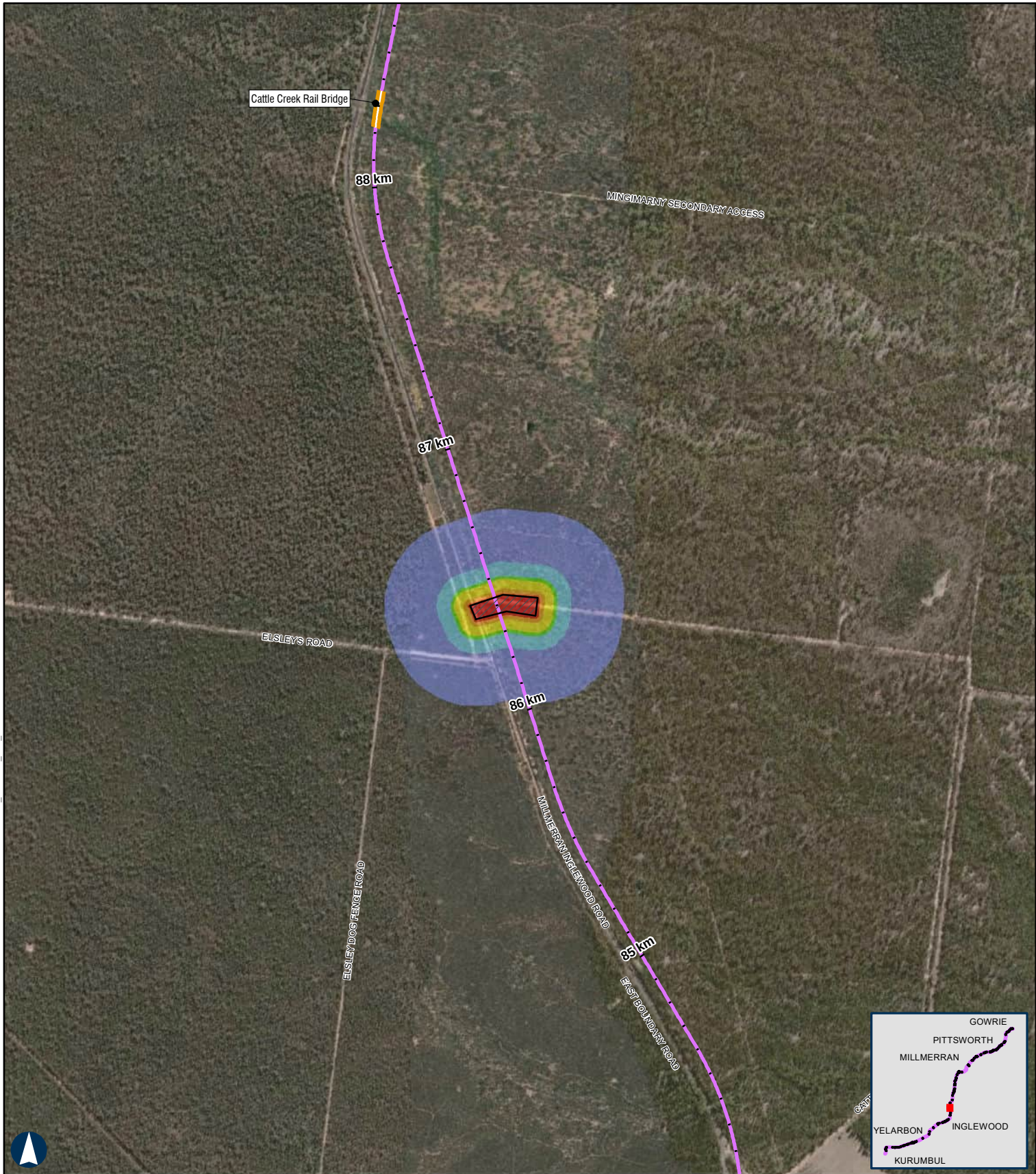
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

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BORDER TO GOWRIE Scenario 4 - Road Civil

APPENDIX E - MAP 21 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✕ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

— Koala Habitat Area

— Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distance

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

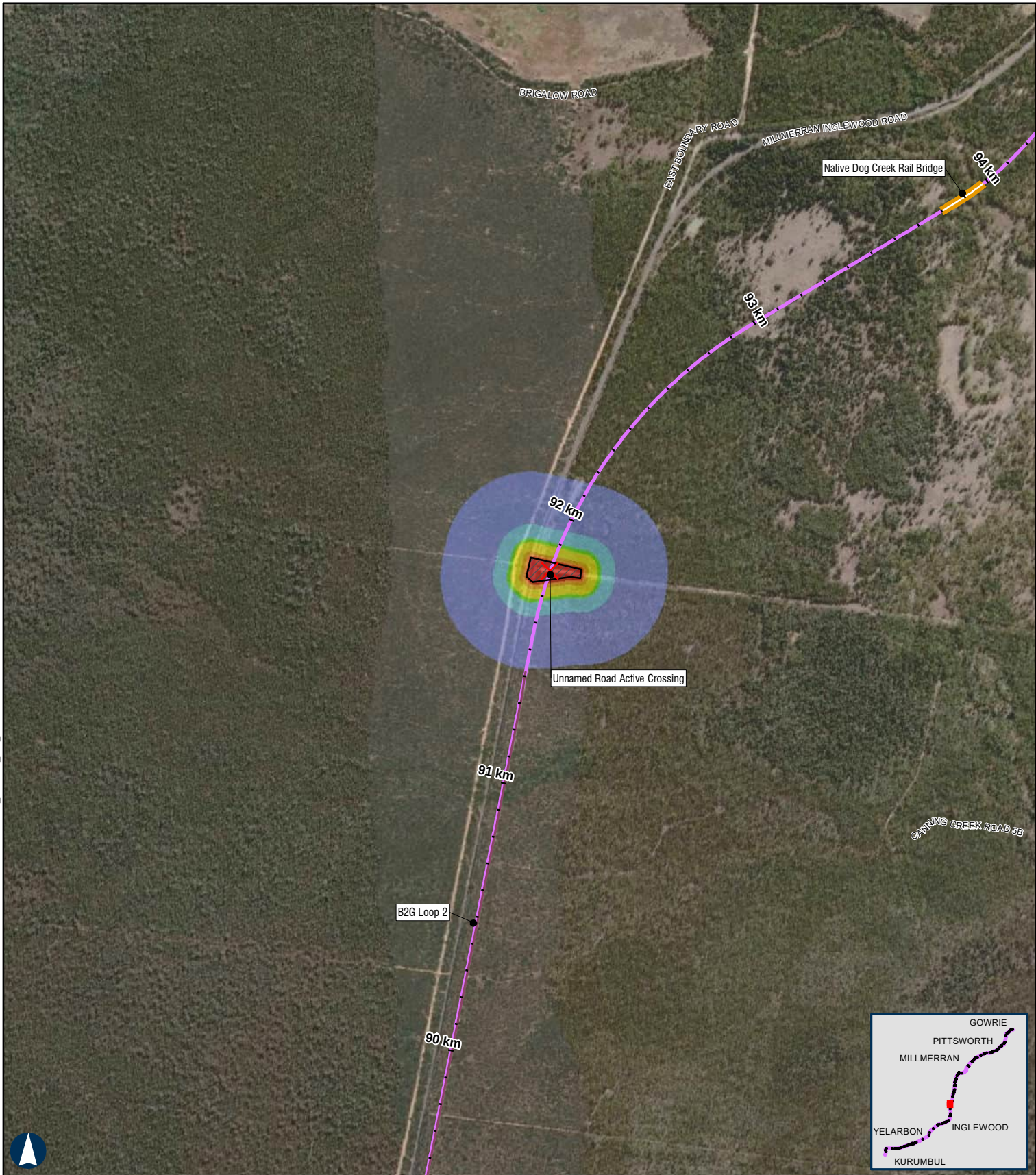
Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC **InlandRail**

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BORDER TO GOWRIE Scenario 4 - Road Civil

APPENDIX E - MAP 22 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

□ Future Developments

Safe Working Distance

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

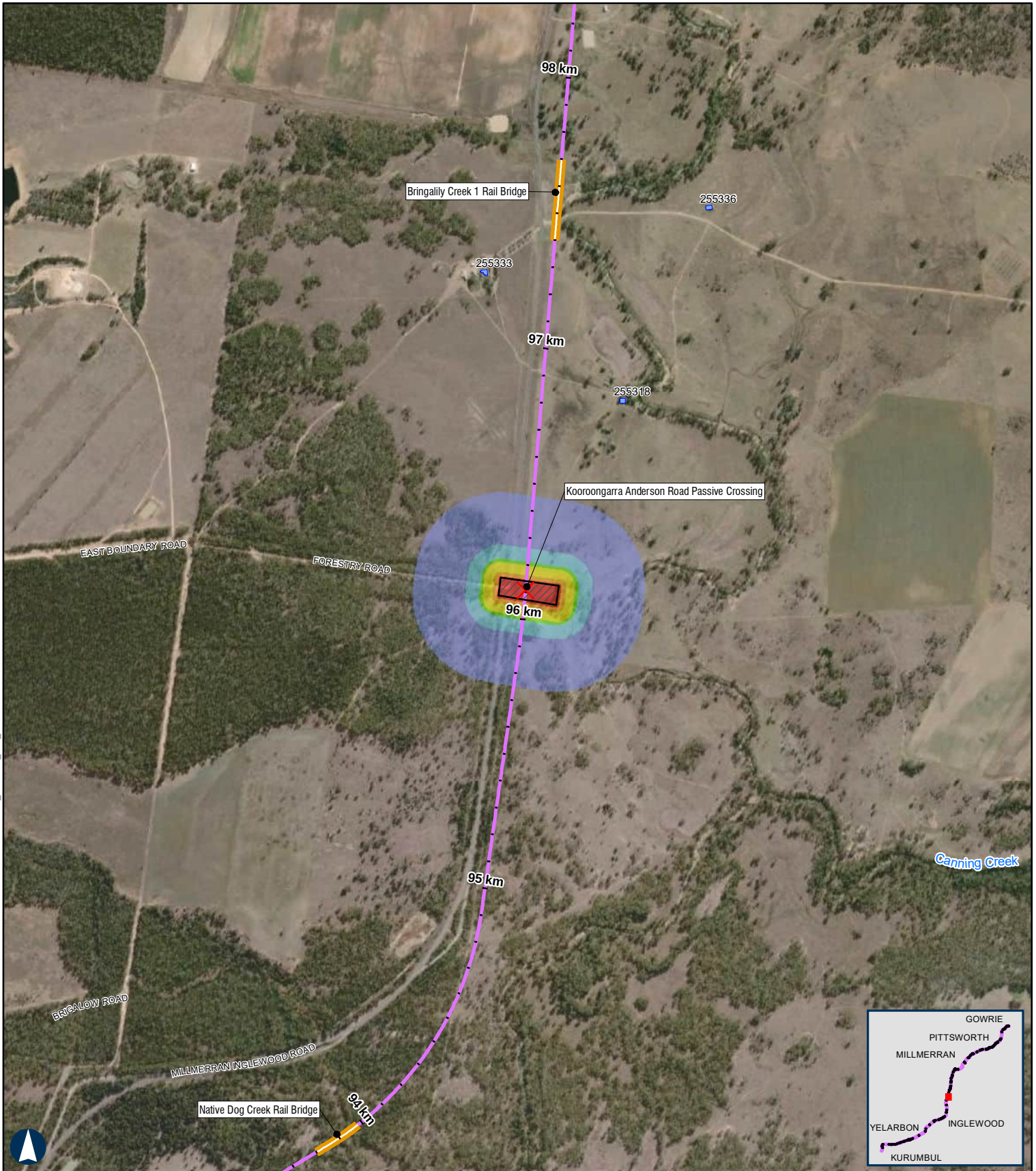
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC **InlandRail**

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BORDER TO GOWRIE Scenario 4 - Road Civil

APPENDIX E - MAP 23 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✕ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

— Koala Habitat Area

— Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distance

Human comfort – non-

standards hours lower

limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

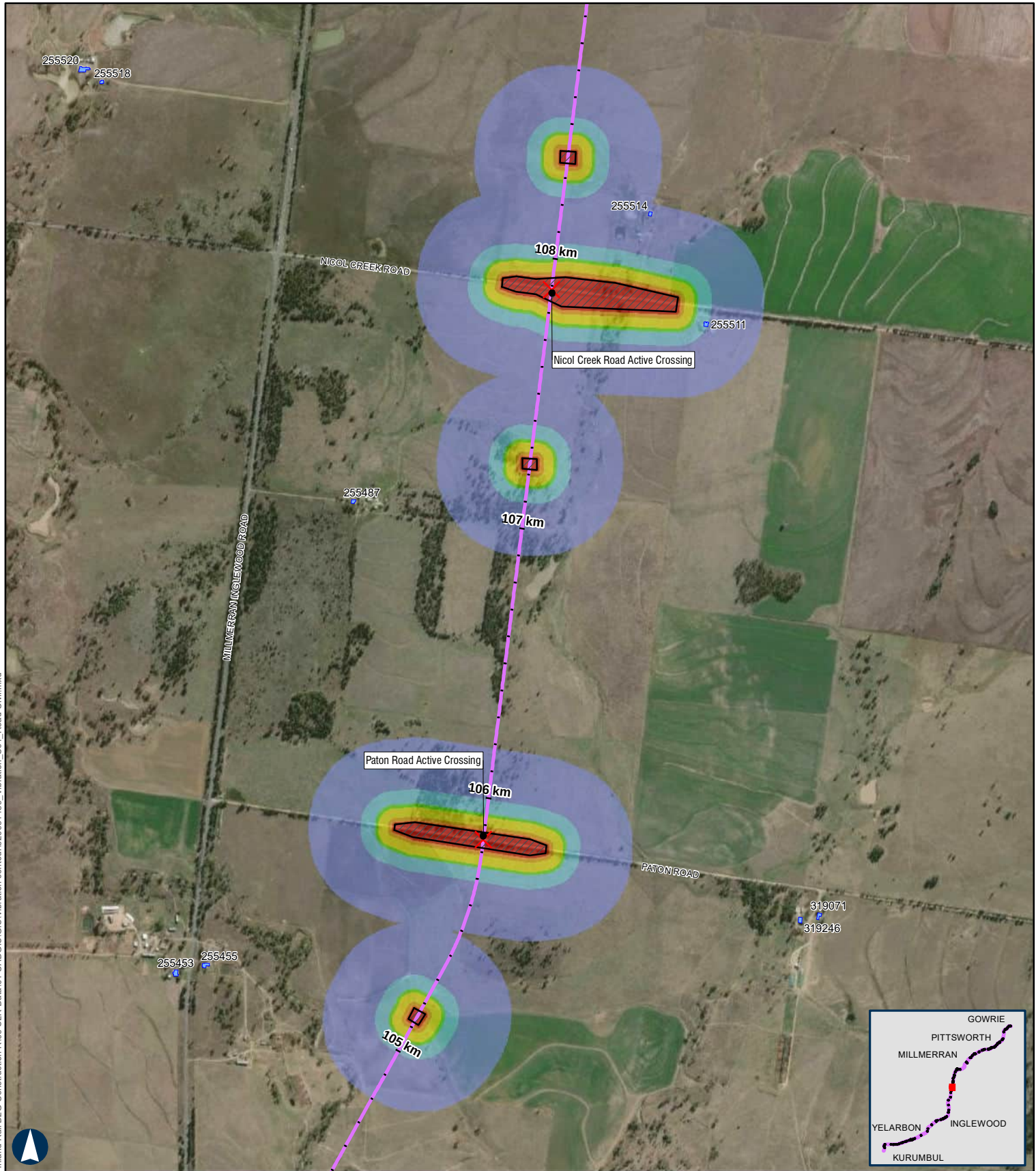
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC InlandRail

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BORDER TO GOWRIE Scenario 4 - Road Civil

APPENDIX E - MAP 25 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

□ Future Developments

Safe Working Distance

Human comfort – non-

standards hours lower

limit: 0.3 mm/s, 316m

Human comfort –
standards hours lower
limit: 1 mm/s, 124m

Human comfort –
standards hours upper
limit: 2 mm/s, 72m

Heritage structures:
2.5 mm/s, 60m

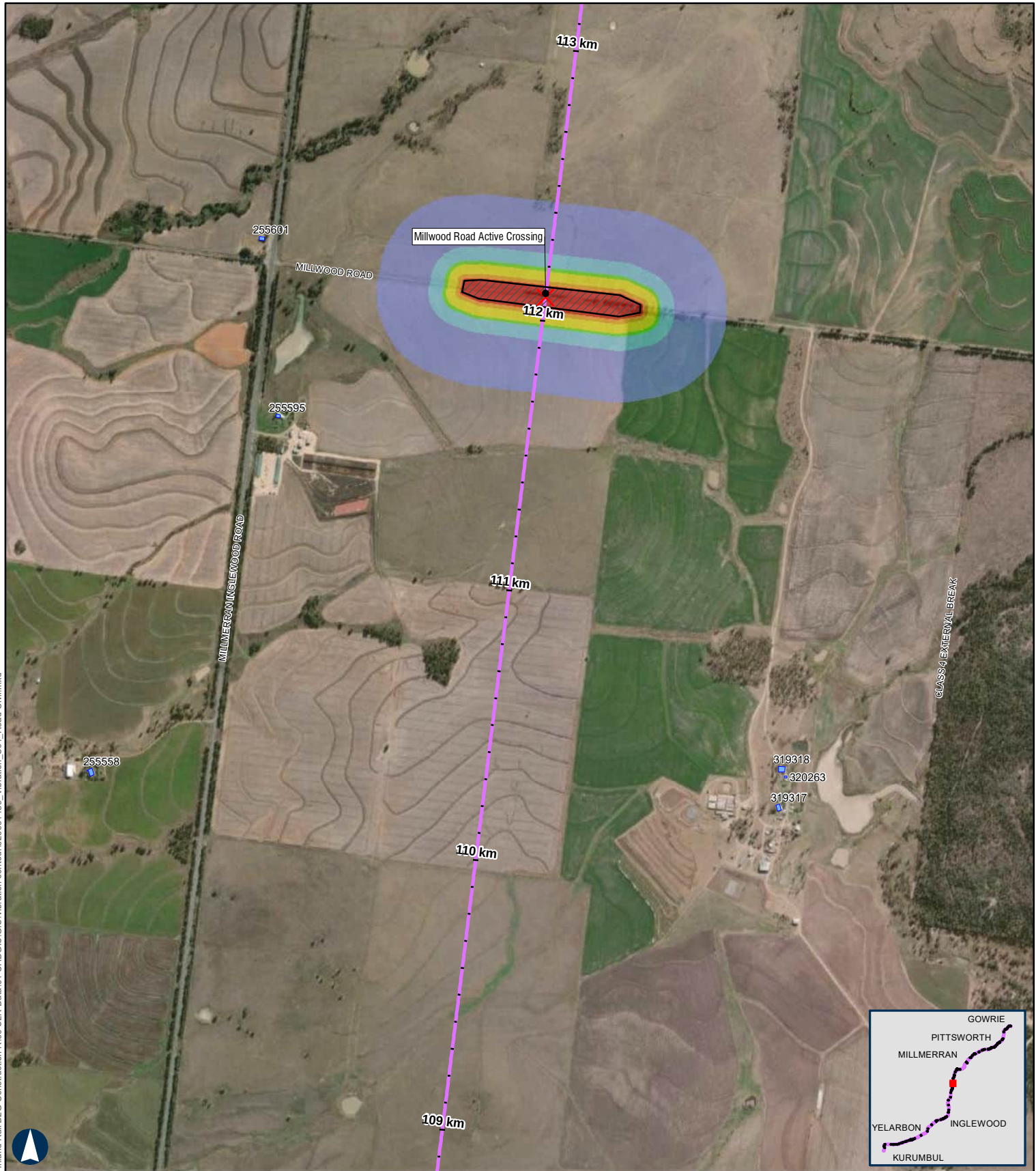
Residential or light
framed commercial:
7.5 mm/s, 25m

Industrial or framed
commercial: 25 mm/s,
8m



ARTC **InlandRail**

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BORDER TO GOWRIE Scenario 4 - Road Civil

APPENDIX E - MAP 26 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distance

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

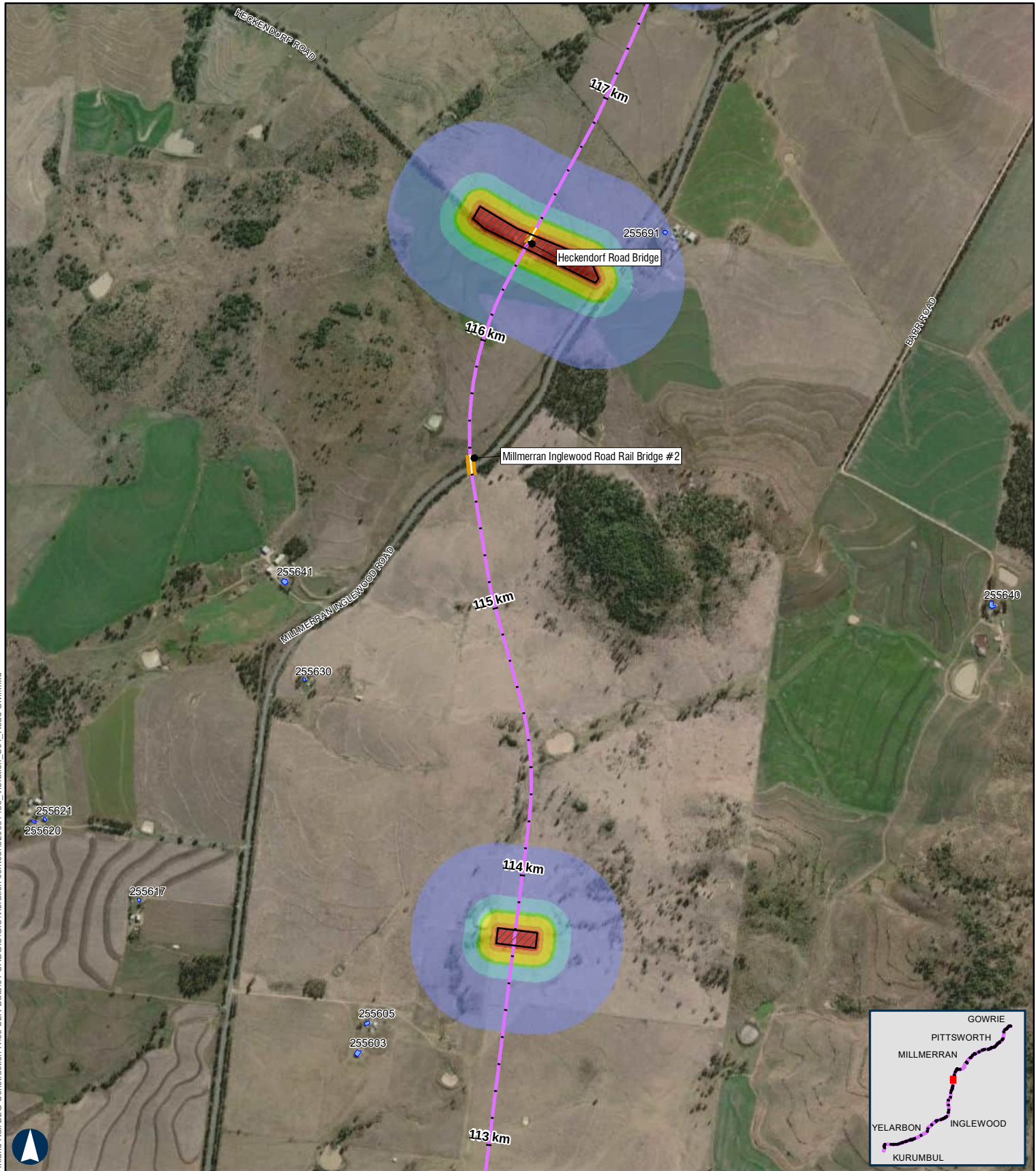
Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m



ARTC **InlandRail**

The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation, in partnership with the private sector.



BORDER TO GOWRIE Scenario 4 - Road Civil

APPENDIX E - MAP 27 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

— Koala Habitat Area

— Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distance

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

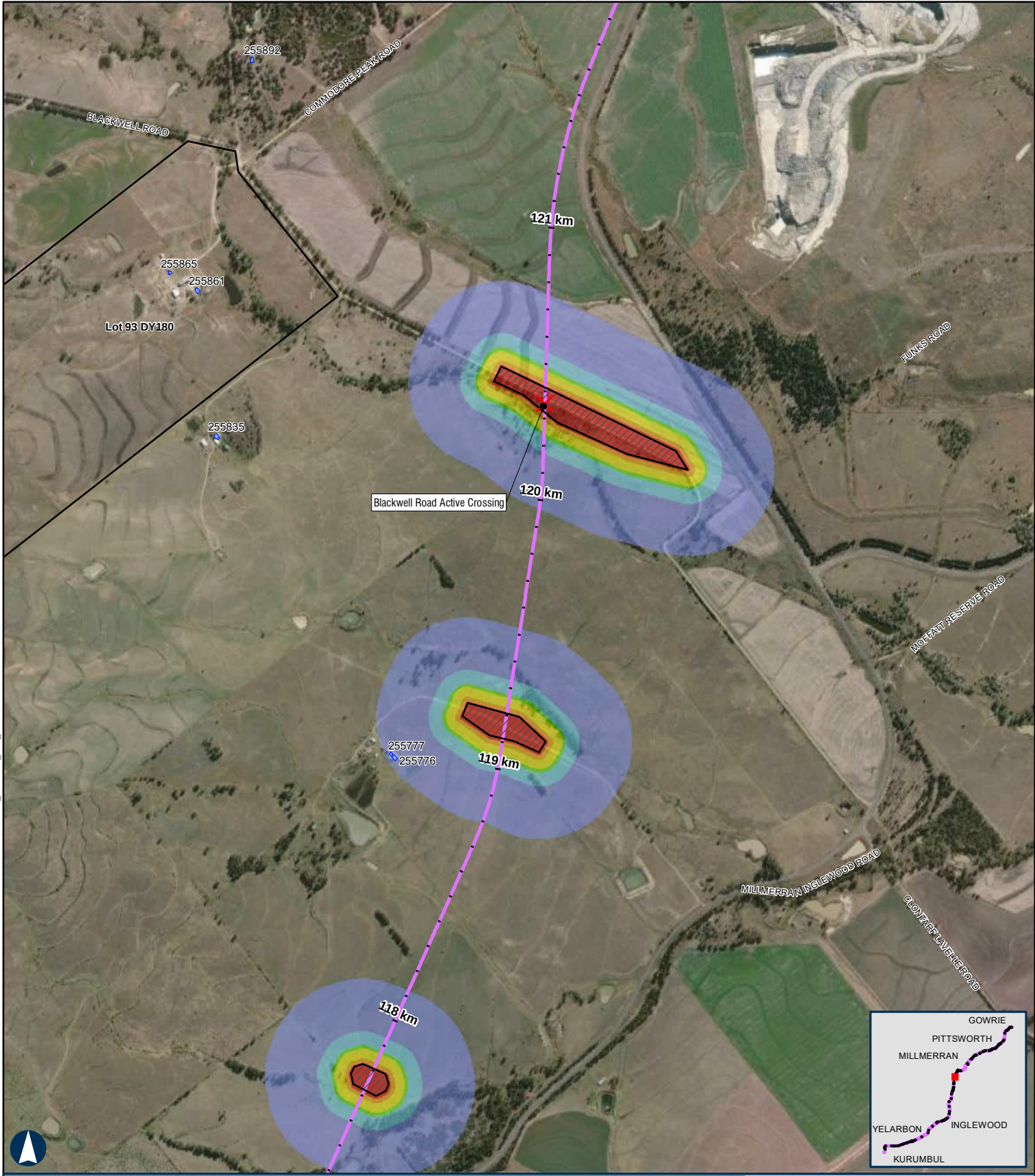
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC InlandRail

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BORDER TO GOWRIE Scenario 4 - Road Civil

APPENDIX E - MAP 28 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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✕ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/ Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Safe Working Distance

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

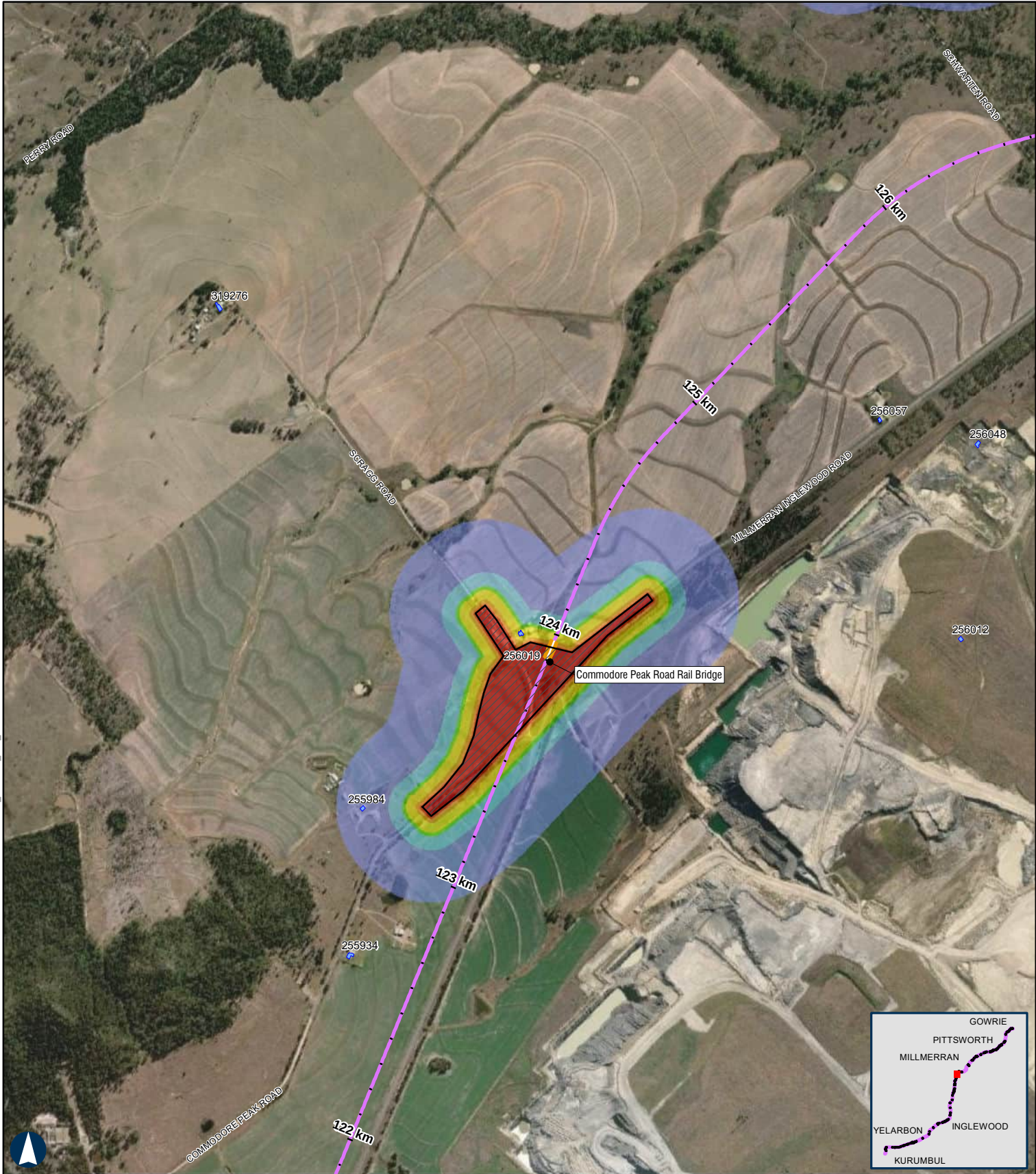
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

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BORDER TO GOWRIE Scenario 4 - Road Civil

APPENDIX E - MAP 29 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/ Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Safe Working Distance

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

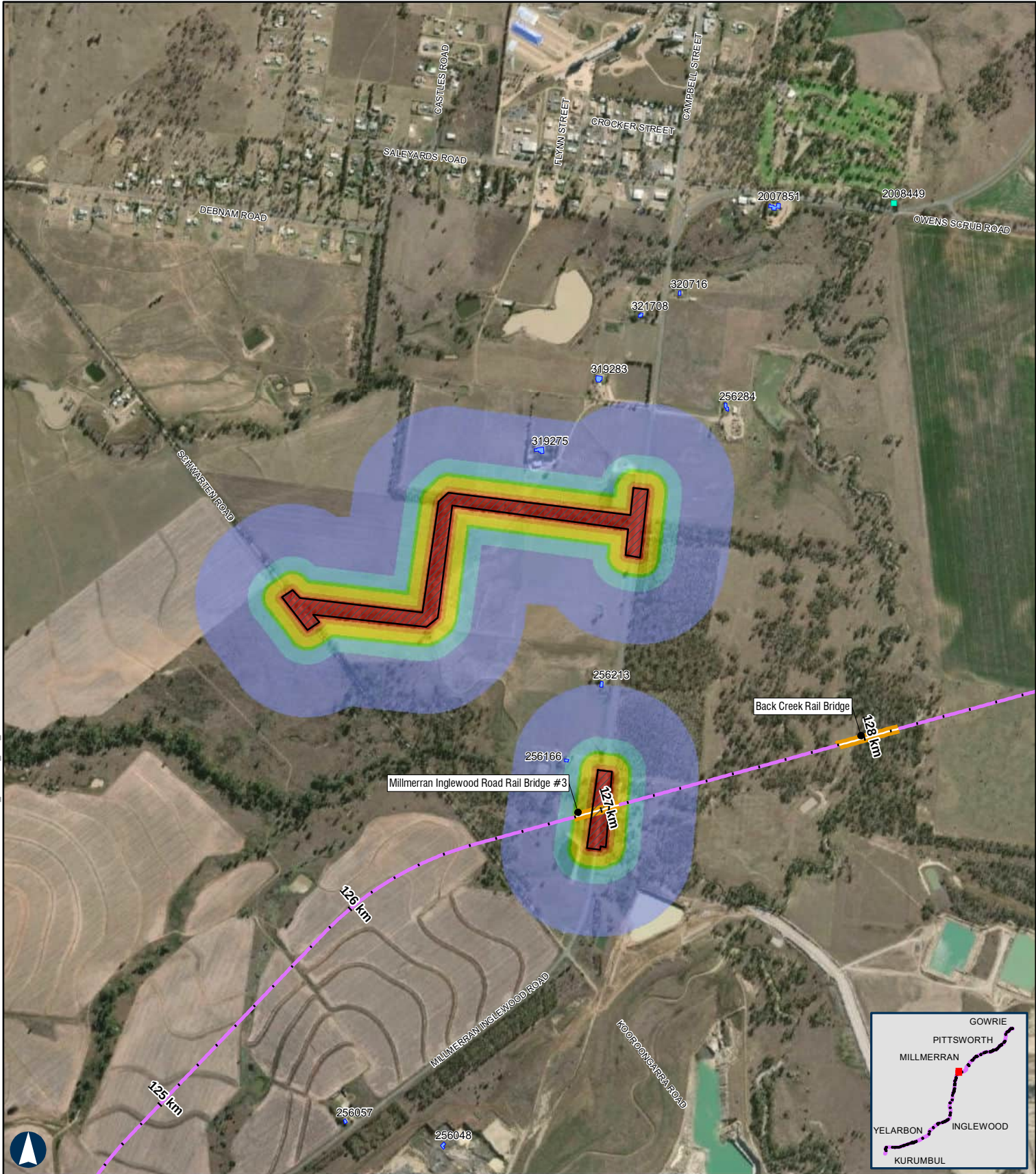
Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m



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\\au.sif.local\Corporate\Projects\SLR\620-BNE\620-BNE-020_031489_00001_Inland_Rail_B2G_Construction_R\06_SLR_Data\01_CAD\GIS\GIS\Vibration contour\620031489_Vibration_Sc4_Road_Civil.mxd



BORDER TO GOWRIE Scenario 4 - Road Civil

APPENDIX E - MAP 30 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

Scale: 1:19,000

- ✗ Level Crossings
- Flying Fox Camp
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Koala Habitat Area
- ▨ Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

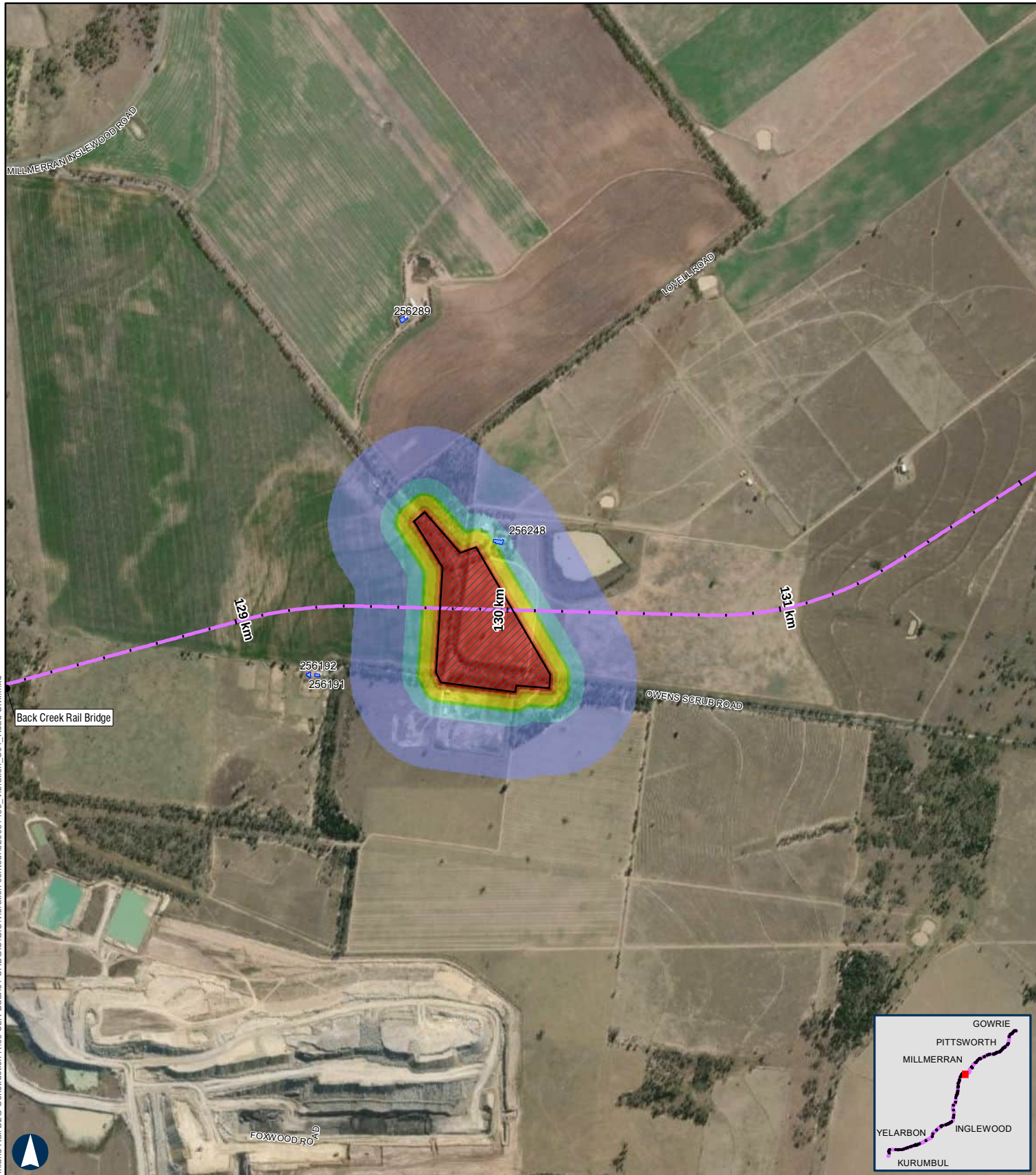
Safe Working Distance

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

- Human comfort – standards hours lower limit: 1 mm/s, 124m
- Human comfort – standards hours upper limit: 2 mm/s, 72m
- Heritage structures: 2.5 mm/s, 60m
- Residential or light framed commercial: 7.5 mm/s, 25m
- Industrial or framed commercial: 25 mm/s, 8m

ARTC **InlandRail**

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BORDER TO GOWRIE Scenario 4 - Road Civil

APPENDIX E - MAP 31 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

Scale: 1:19,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distance

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

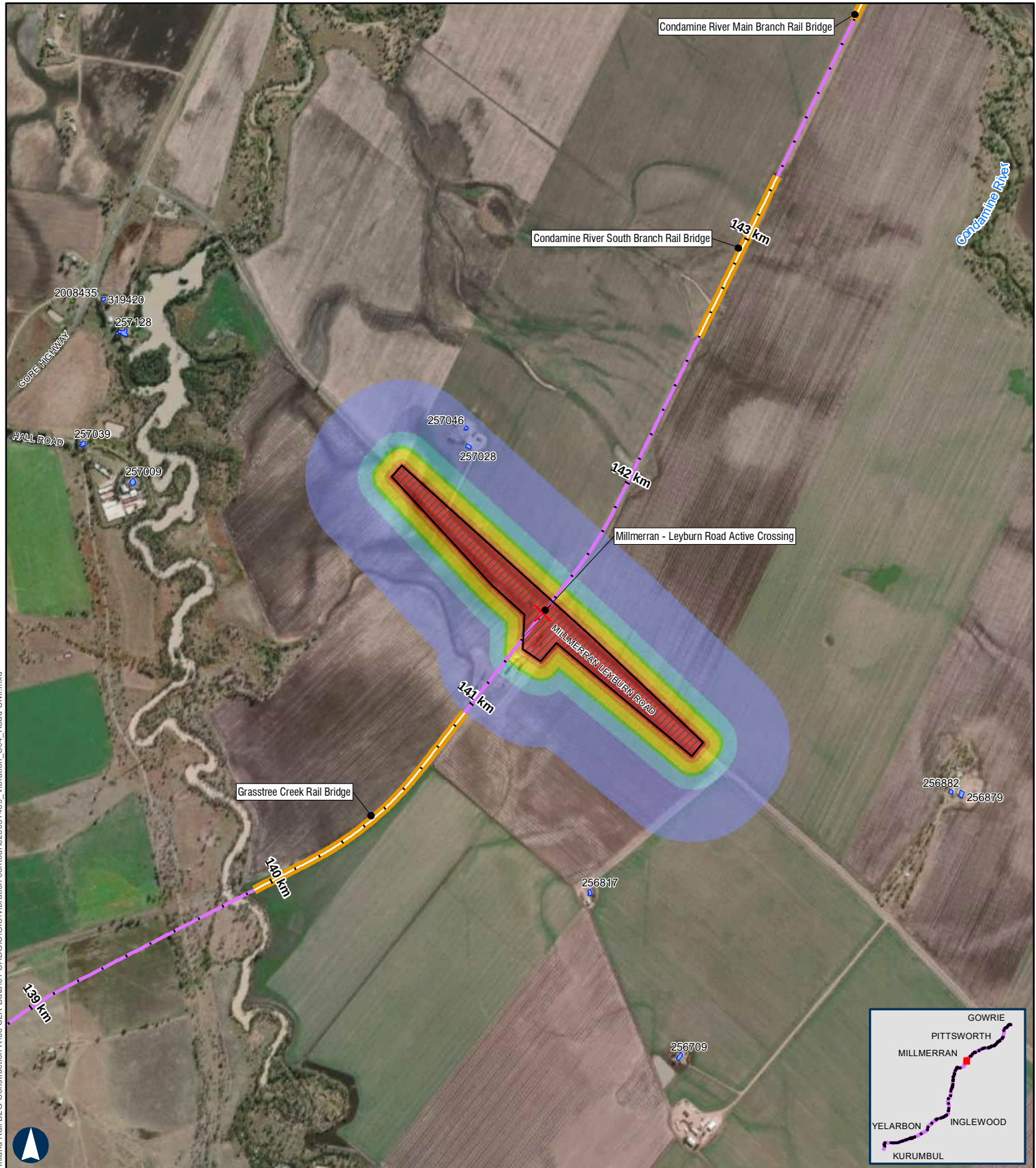
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC **InlandRail**

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BORDER TO GOWRIE Scenario 4 - Road Civil

APPENDIX E - MAP 32 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

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✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

□ Future Developments

Safe Working Distance

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m



ARTC **InlandRail**

The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation, in partnership with the private sector.



BORDER TO GOWRIE Scenario 4 - Road Civil

APPENDIX E - MAP 33 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

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✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

— Koala Habitat Area

— Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distance

Human comfort – non-

standards hours lower

limit: 0.3 mm/s, 316m

Human comfort –
standards hours lower
limit: 1 mm/s, 124m

Human comfort –
standards hours upper
limit: 2 mm/s, 72m

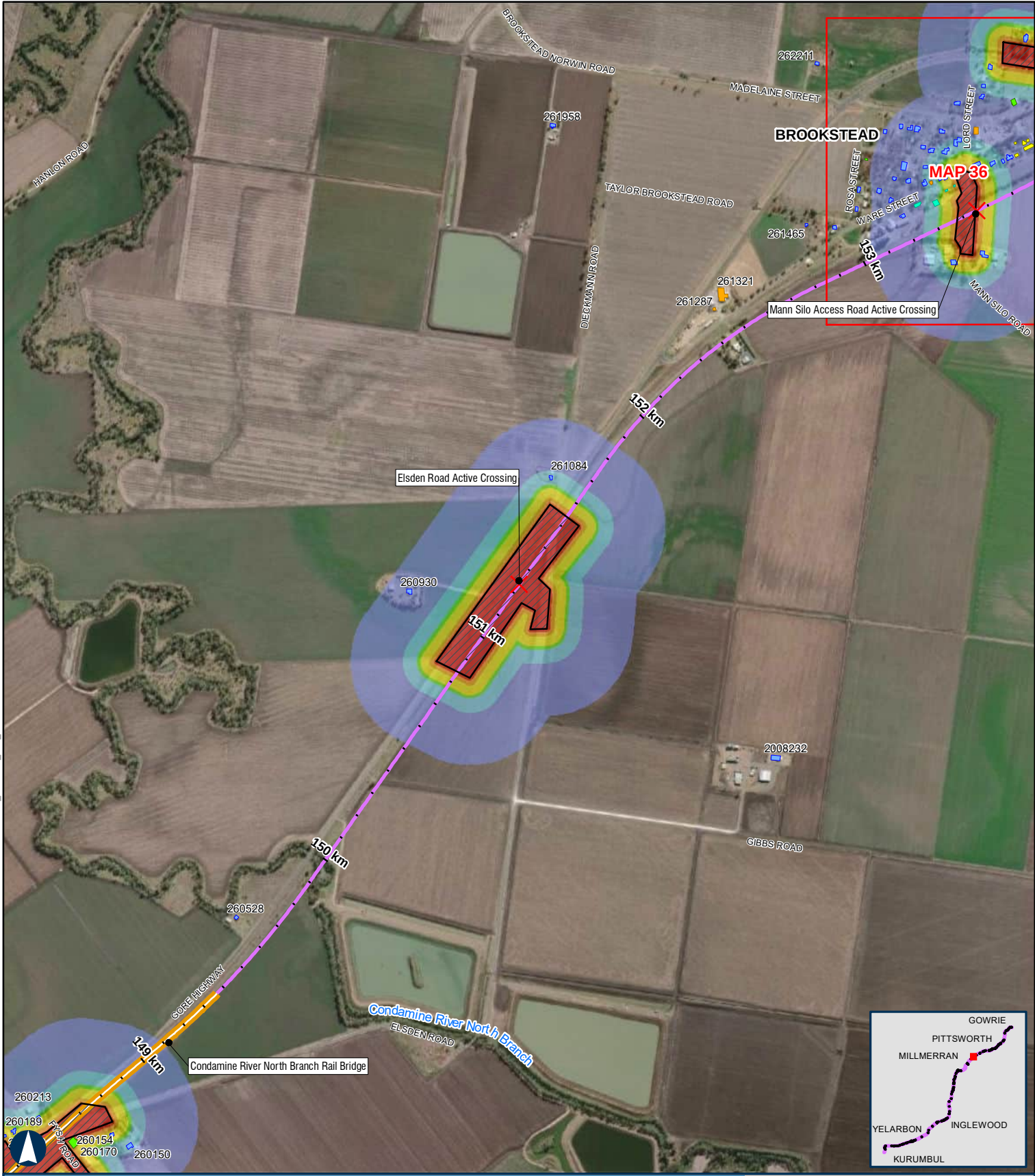
Heritage structures:
2.5 mm/s, 60m

Residential or light
framed commercial:
7.5 mm/s, 25m

Industrial or framed
commercial: 25 mm/s,
8m

ARTC InlandRail

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BORDER TO GOWRIE Scenario 4 - Road Civil

APPENDIX E - MAP 34 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/ Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Safe Working Distance

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

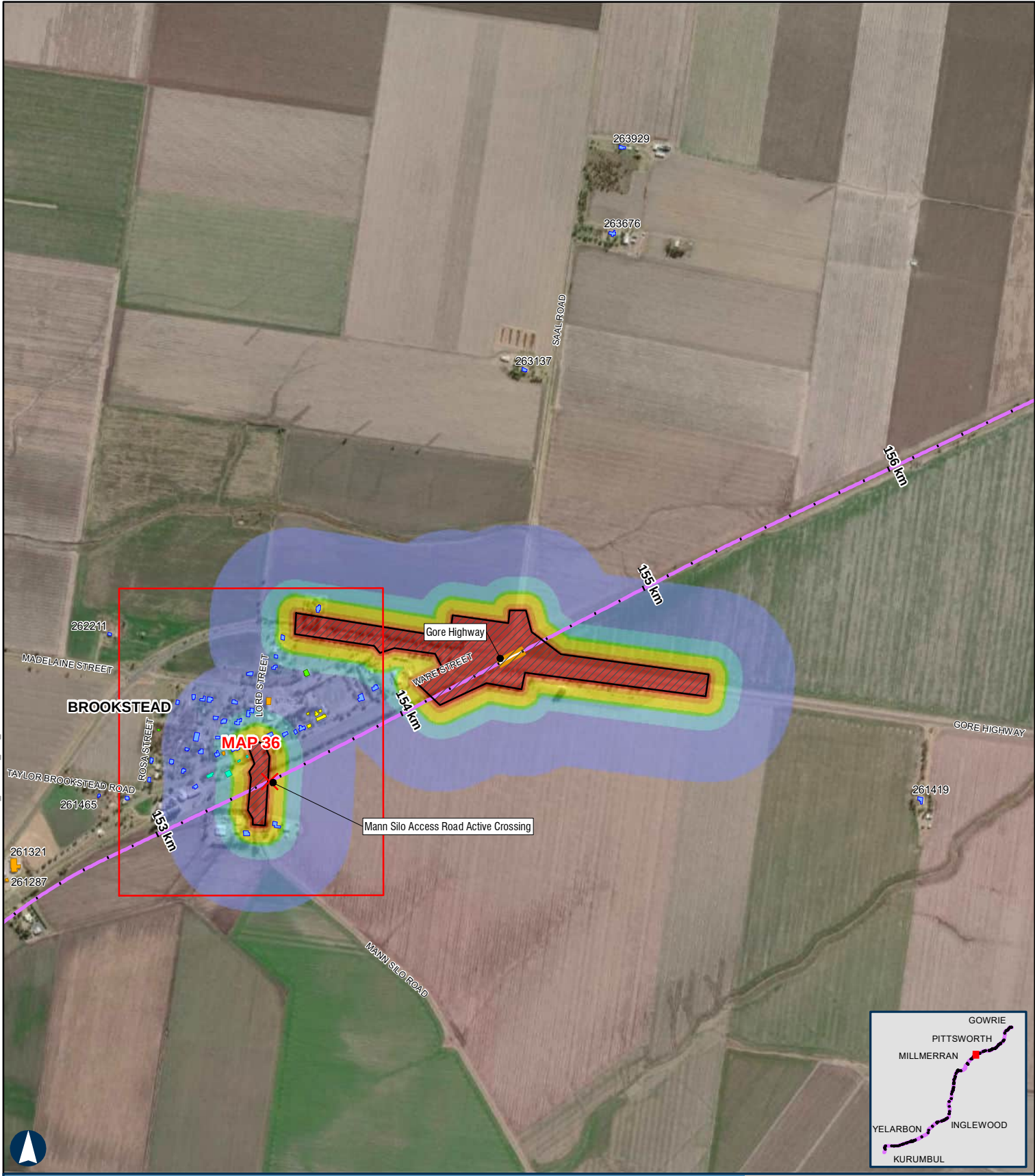
Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m



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BORDER TO GOWRIE Scenario 4 - Road Civil

APPENDIX E - MAP 35 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/ Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distance

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

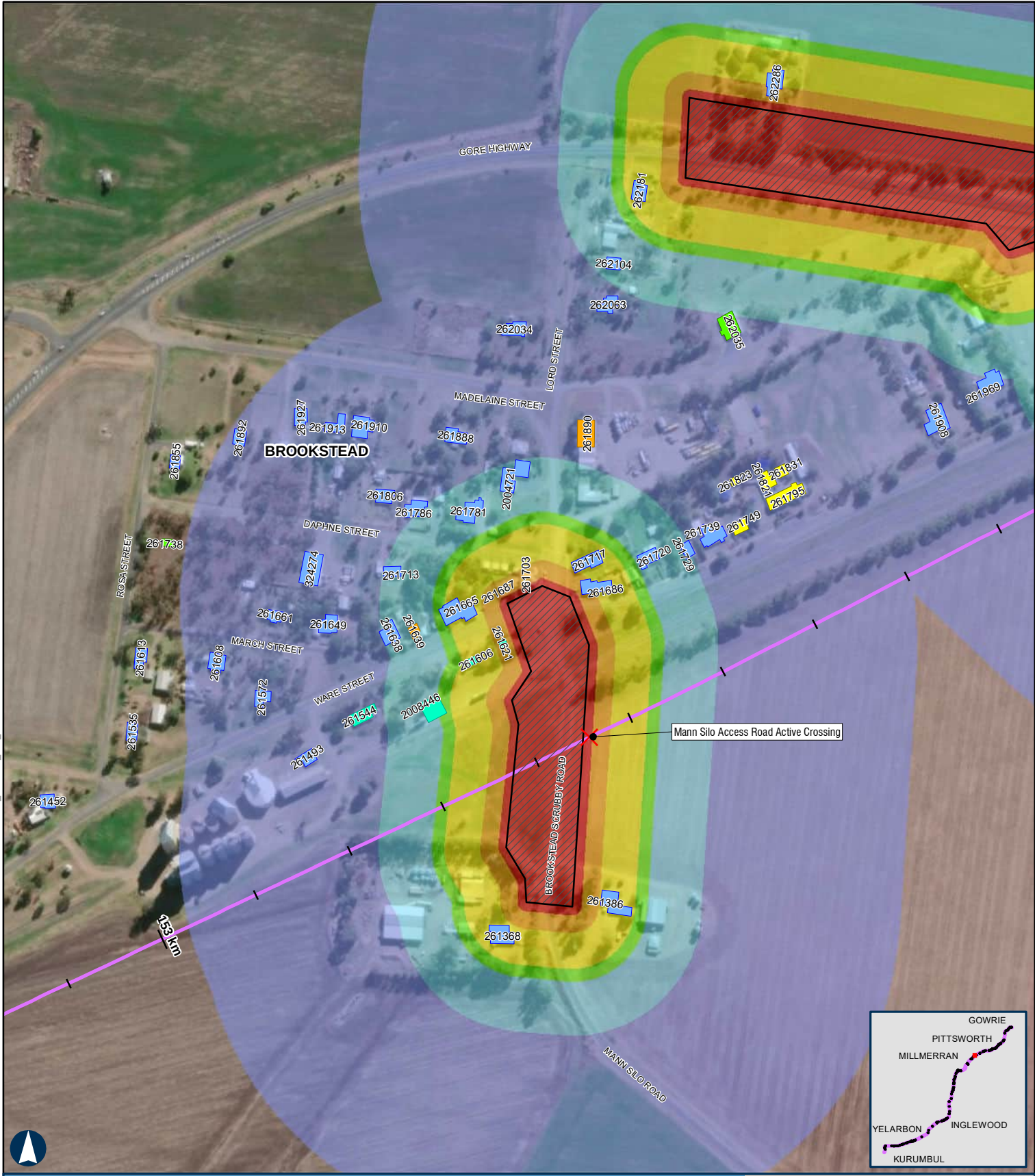
Industrial or framed commercial: 25 mm/s, 8m

ARTC

InlandRail

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BORDER TO GOWRIE Scenario 4 - Road Civil

APPENDIX E - MAP 36 OF 54

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:5,000
Date: 15-Nov-2024
Author: JG

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

■ Residential

■ Community

■ Educational

■ Commercial

■ Parkland

□ Future Developments

Safe Working Distance

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

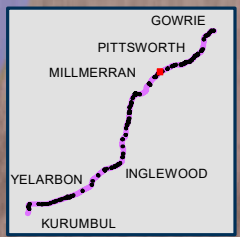
Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m



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BORDER TO GOWRIE Scenario 4 - Road Civil

APPENDIX E - MAP 37 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

Scale: 1:19,000

✕ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distance

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

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BORDER TO GOWRIE Scenario 4 - Road Civil

APPENDIX E - MAP 38 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

— Koala Habitat Area

— Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distance

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

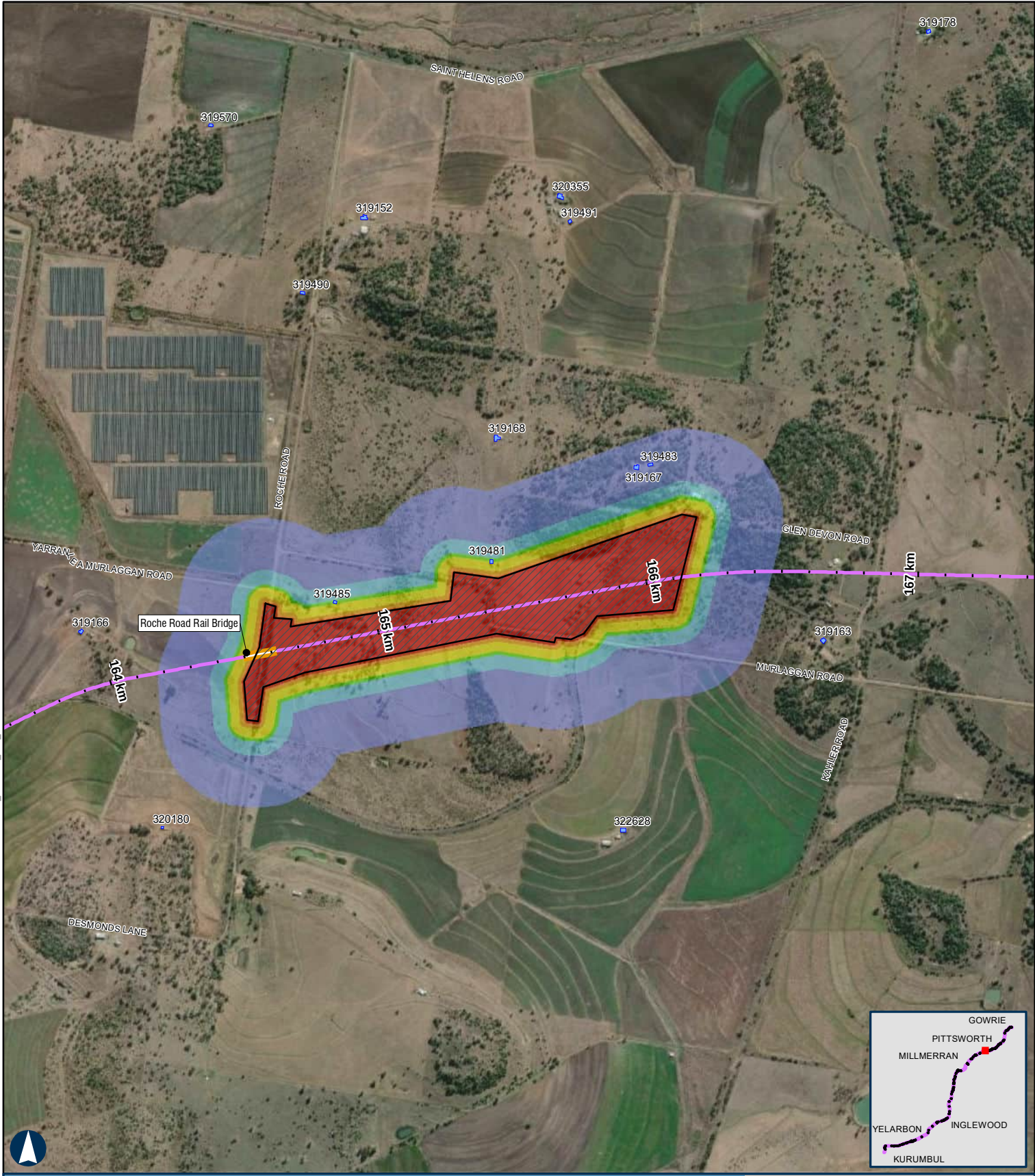
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC **InlandRail**

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BORDER TO GOWRIE Scenario 4 - Road Civil

APPENDIX E - MAP 39 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Level Crossings

Flying Fox Camp

Project Extent

Crossing Loops

Bridges and Viaducts

Rail Alignment/ Centreline

Koala Habitat Area

Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Safe Working Distance

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

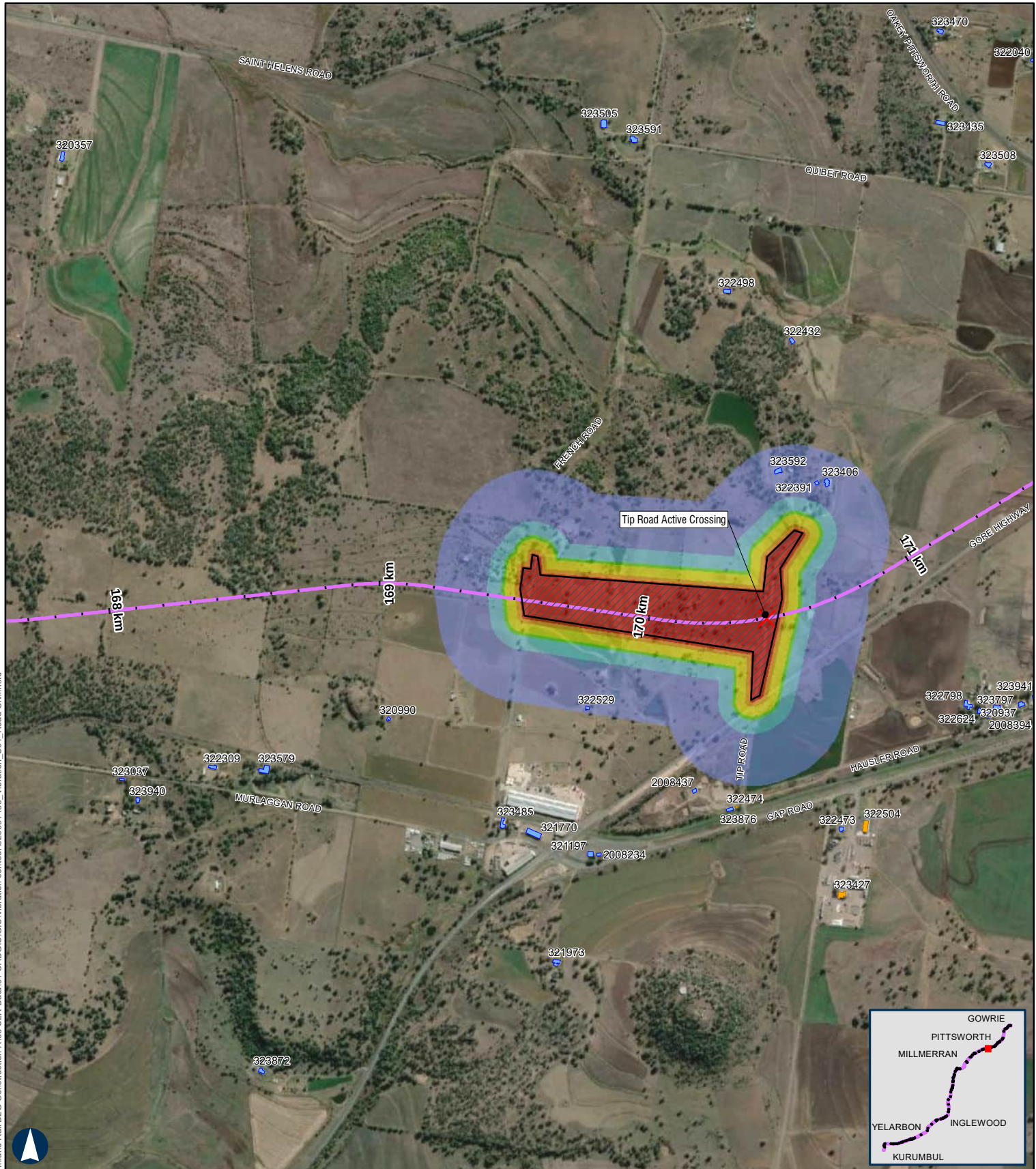
Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation, in partnership with the private sector.



BORDER TO GOWRIE Scenario 4 - Road Civil

APPENDIX E - MAP 40 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✕ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

— Koala Habitat Area

— Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distance

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

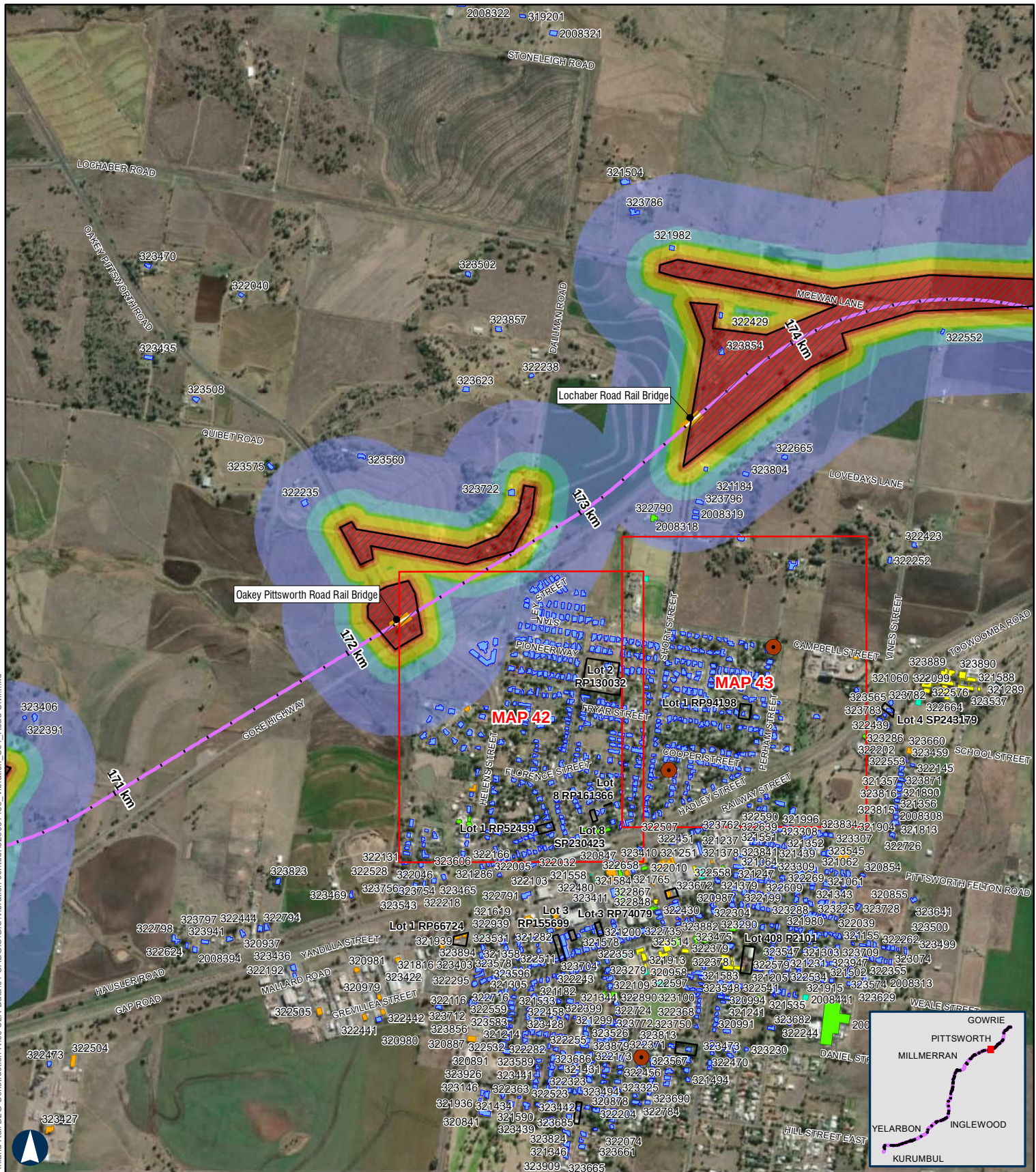
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC **InlandRail**

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BORDER TO GOWRIE Scenario 4 - Road Civil

APPENDIX E - MAP 41 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

Scale: 1:19,000

✕ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

□ Future Developments

Safe Working Distance

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

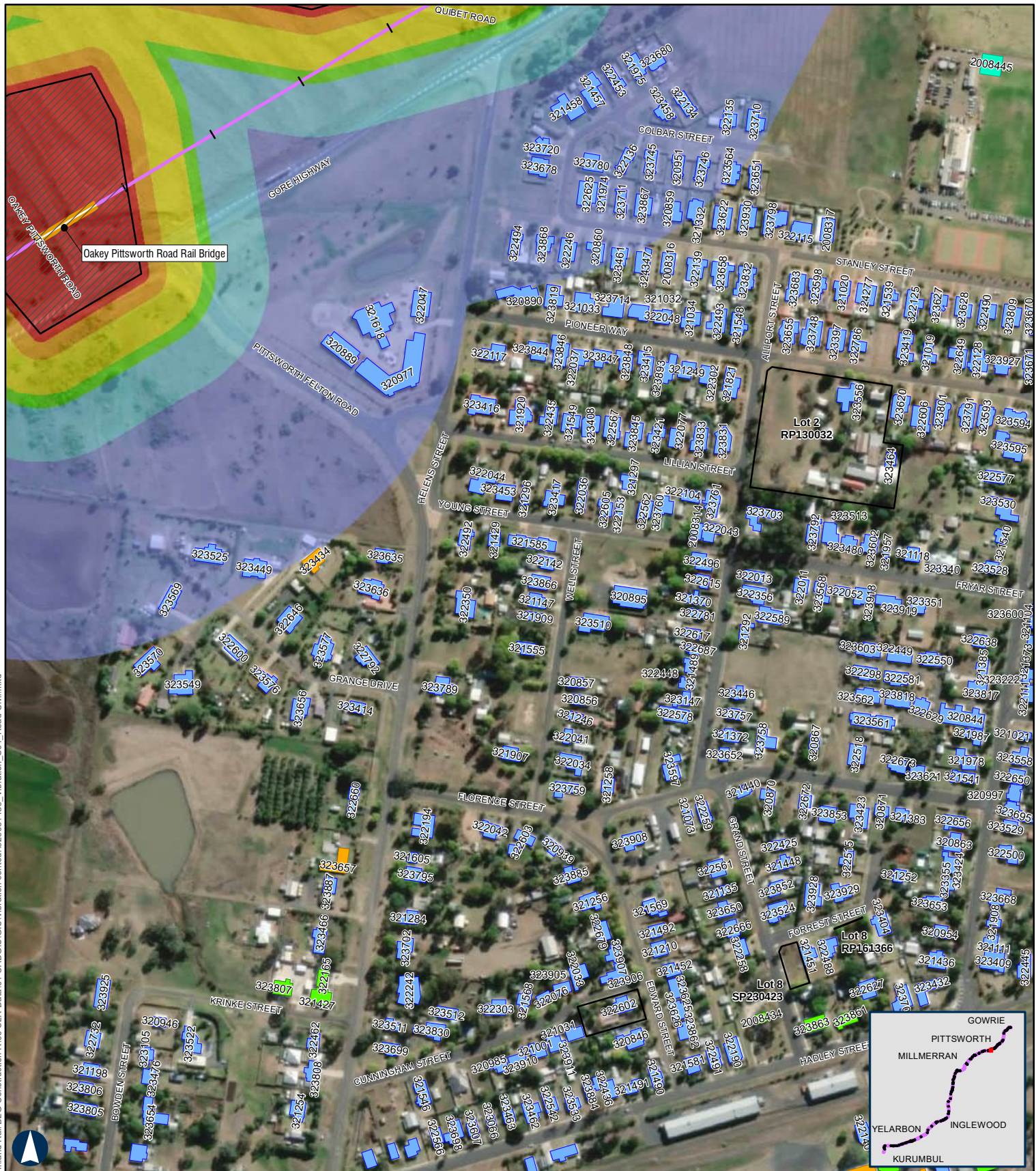
Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m



ARTC **InlandRail**

The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation, in partnership with the private sector.



BORDER TO GOWRIE Scenario 4 - Road Civil

APPENDIX E - MAP 42 OF 54

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

Scale: 1:5,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

□ Future Developments

Safe Working Distance

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC InlandRail

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BORDER TO GOWRIE Scenario 4 - Road Civil

APPENDIX E - MAP 43 OF 54

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:5,000

✕ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distance
Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

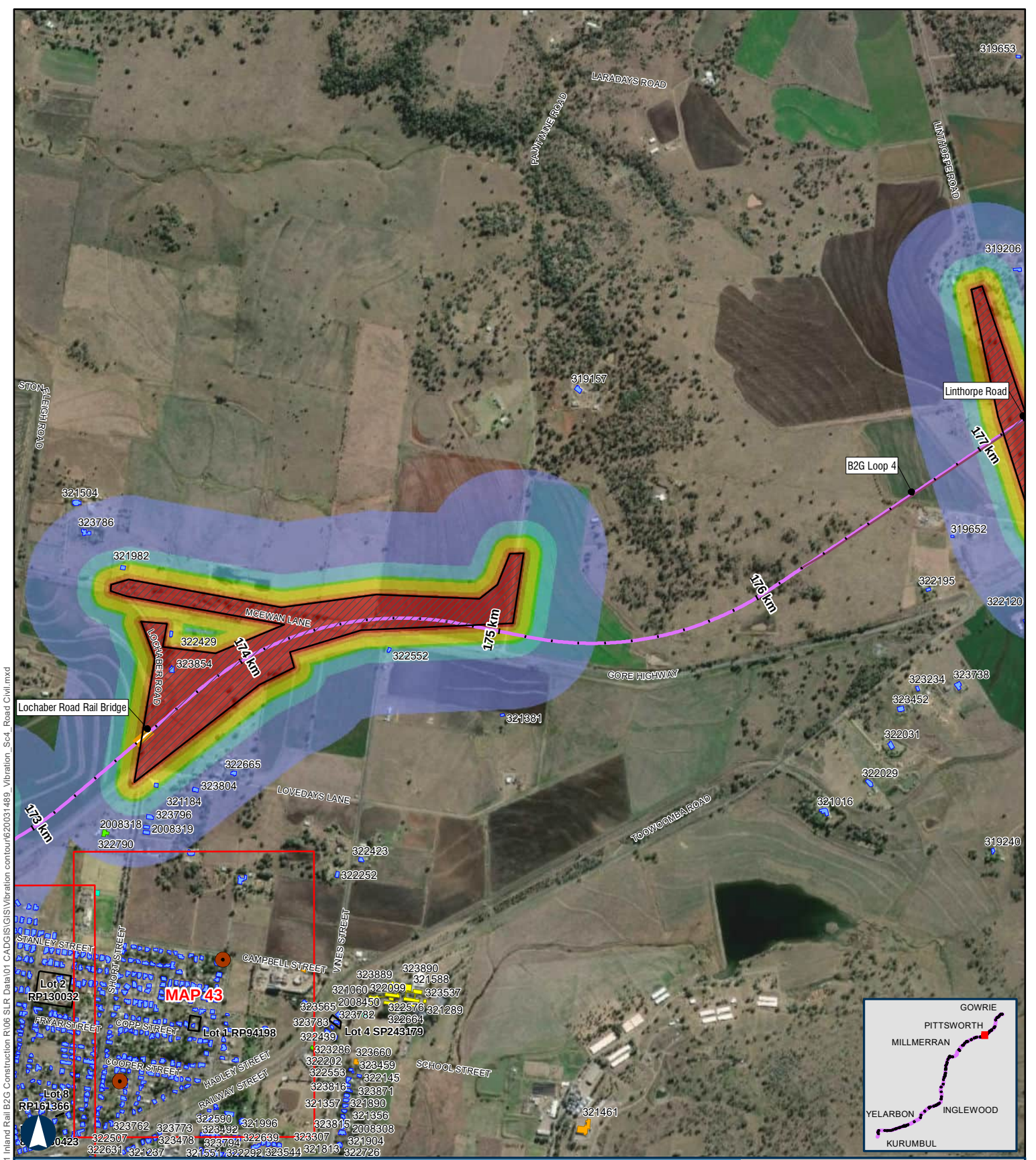
Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m



ARTC InlandRail

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BORDER TO GOWRIE Scenario 4 - Road Civil

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:19,000
Date: 15-Nov-2024
Author: JG

- ✗ Level Crossings
- Flying Fox Camp
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Koala Habitat Area
- Work Area

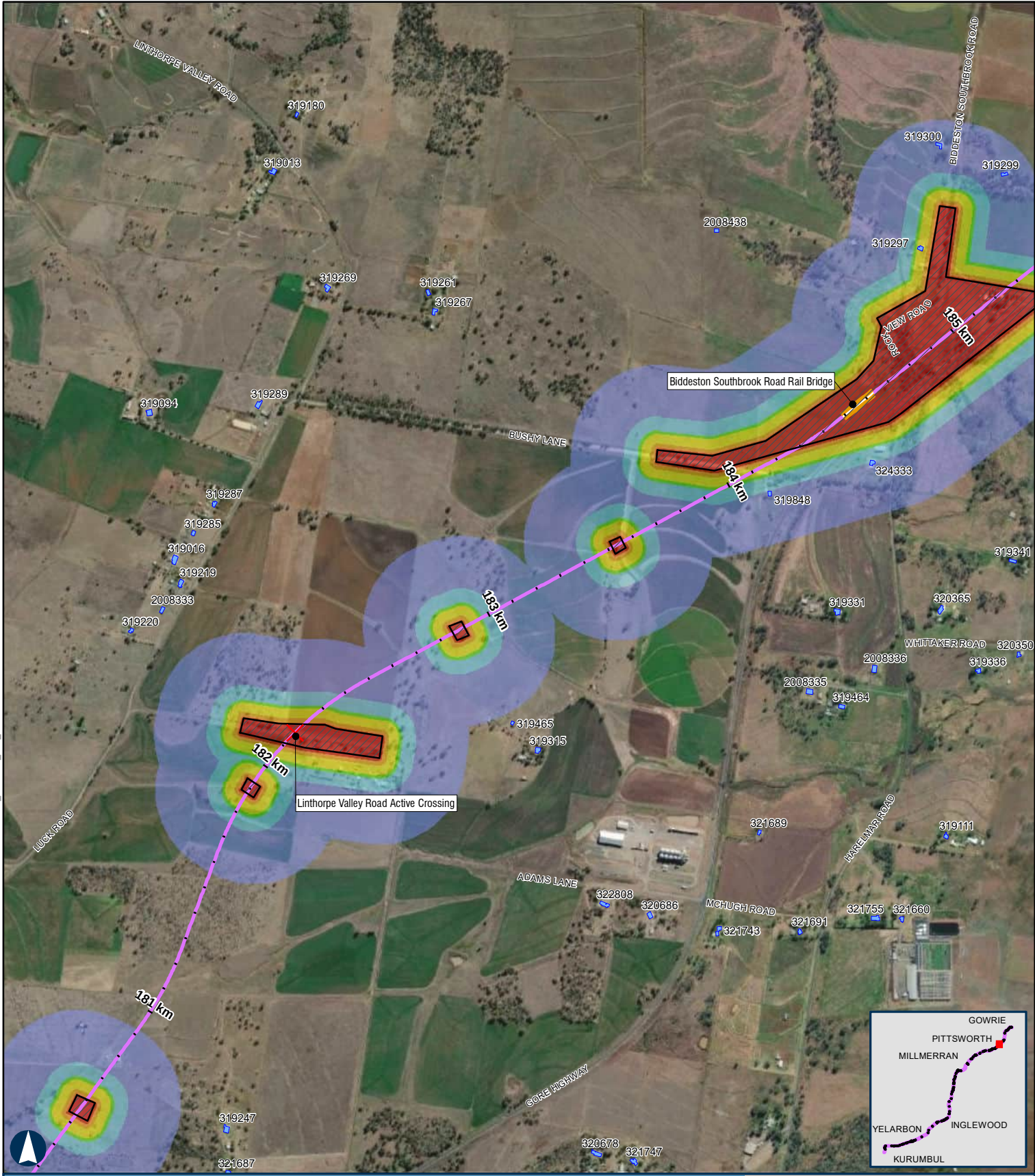
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments
- Safe Working Distance**
- Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

- Human comfort – standards hours lower limit: 1 mm/s, 124m
- Human comfort – standards hours upper limit: 2 mm/s, 72m
- Heritage structures: 2.5 mm/s, 60m
- Residential or light framed commercial: 7.5 mm/s, 25m
- Industrial or framed commercial: 25 mm/s, 8m

APPENDIX E - MAP 44 OF 54



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BORDER TO GOWRIE Scenario 4 - Road Civil

APPENDIX E - MAP 47 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:19,000
Date: 15-Nov-2024
Author: JG

- ✗ Level Crossings
- Flying Fox Camp
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/Centreline
- ▭ Koala Habitat Area
- ▨ Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Safe Working Distance

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

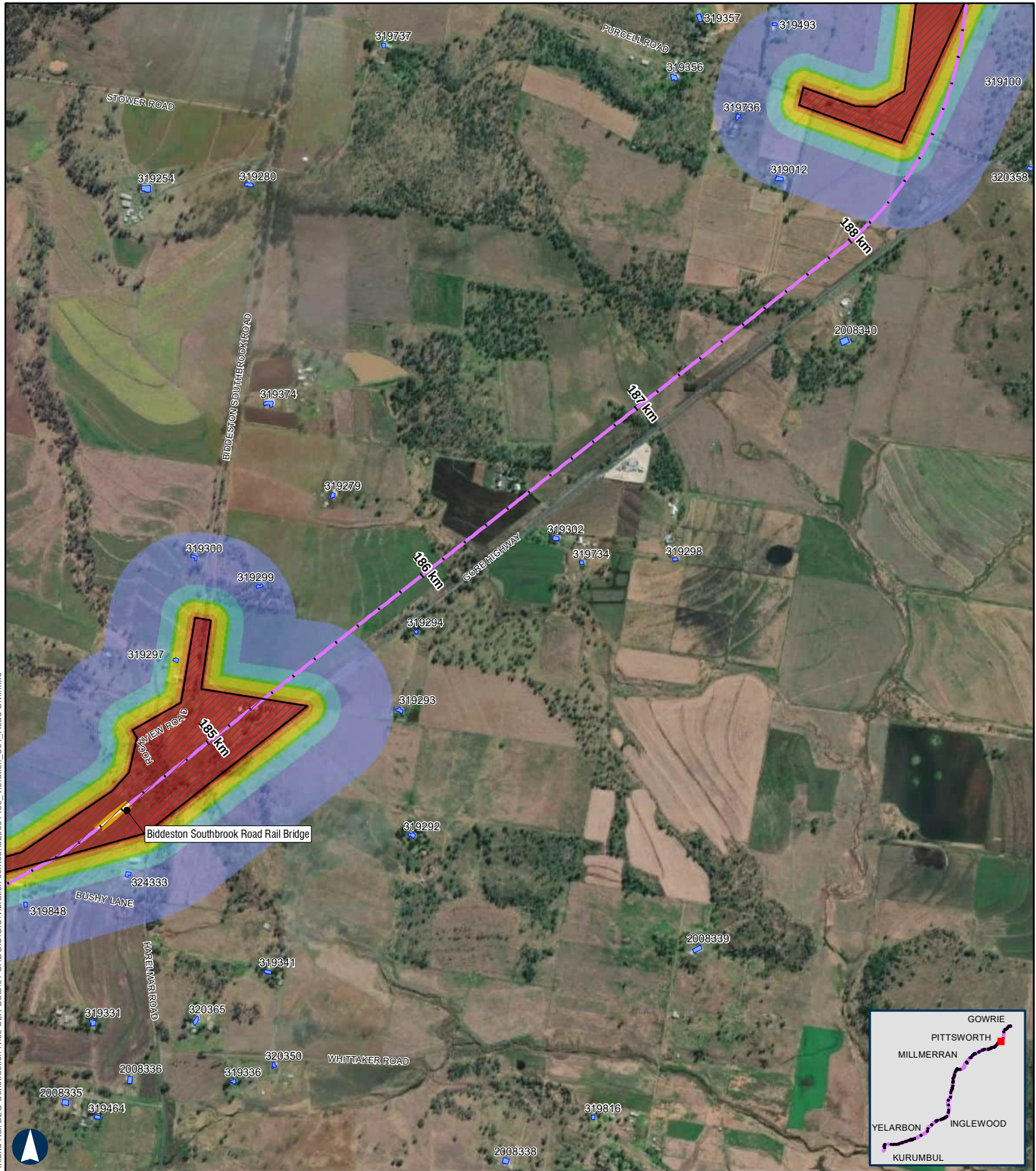
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m



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BORDER TO GOWRIE Scenario 4 - Road Civil

APPENDIX E - MAP 48 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

— Koala Habitat Area

— Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distance

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

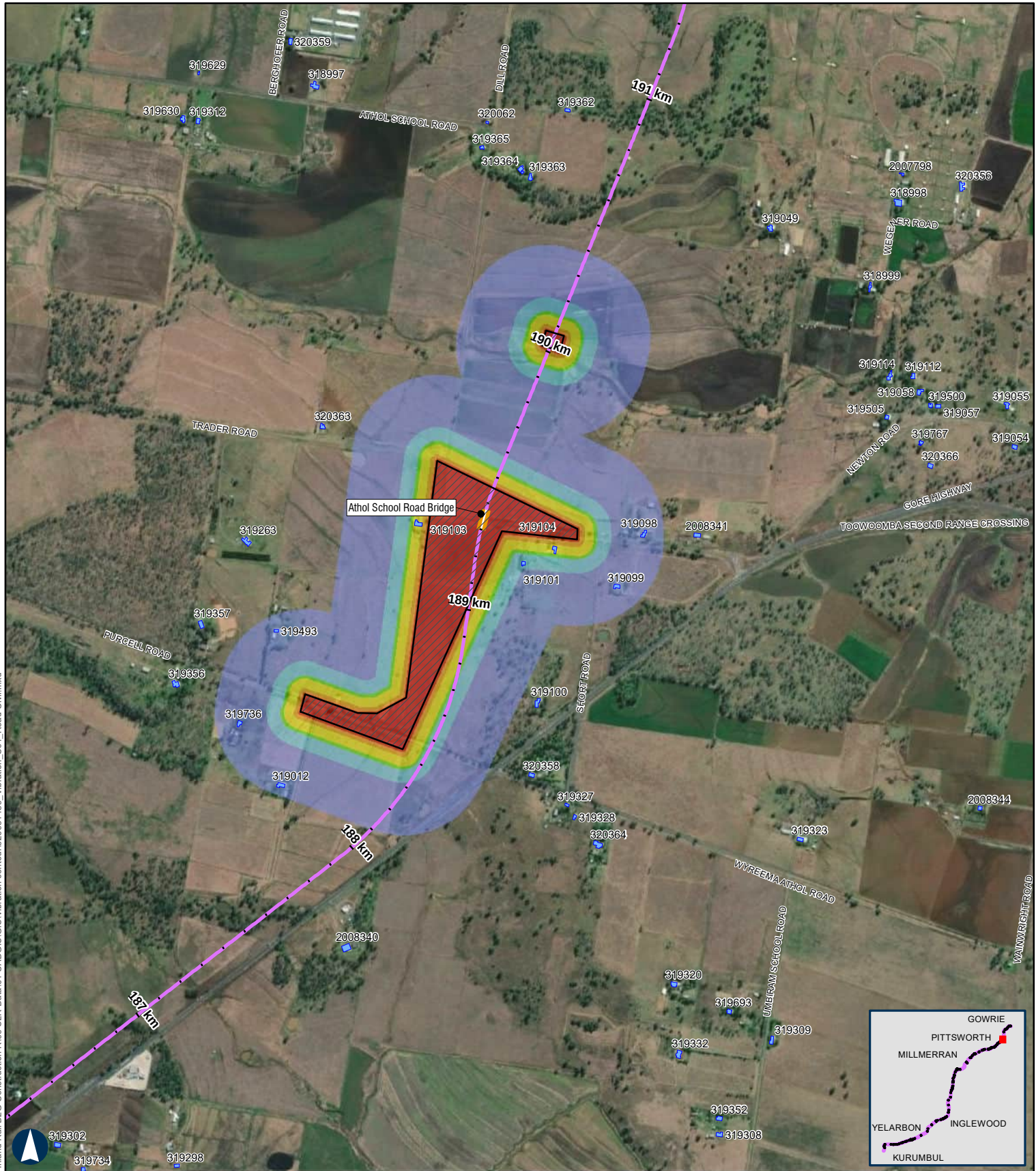
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC InlandRail

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BORDER TO GOWRIE Scenario 4 - Road Civil

APPENDIX E - MAP 49 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

— Koala Habitat Area

— Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distance

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

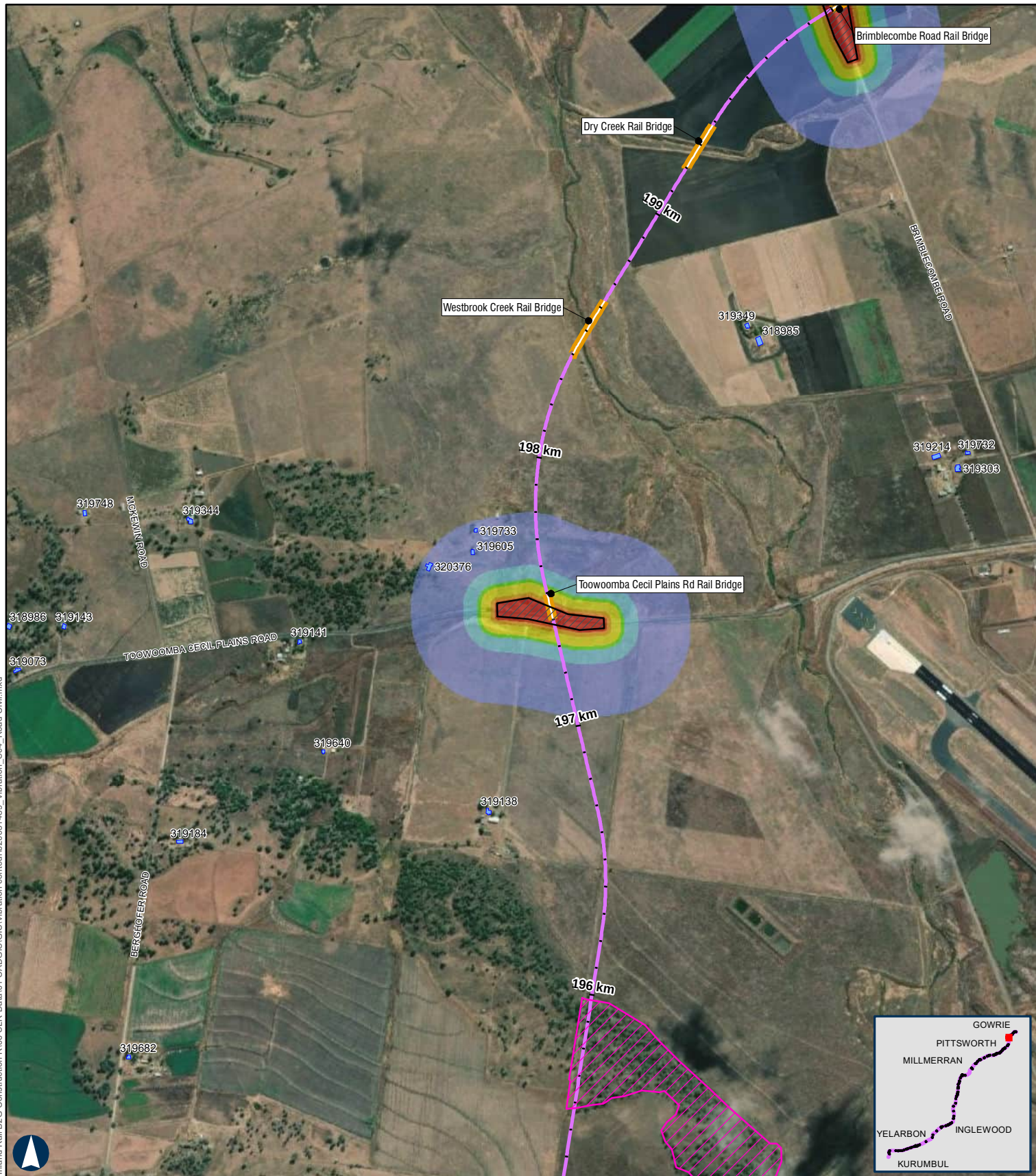
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

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BORDER TO GOWRIE Scenario 4 - Road Civil

APPENDIX E - MAP 50 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✕ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

▨ Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distance

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

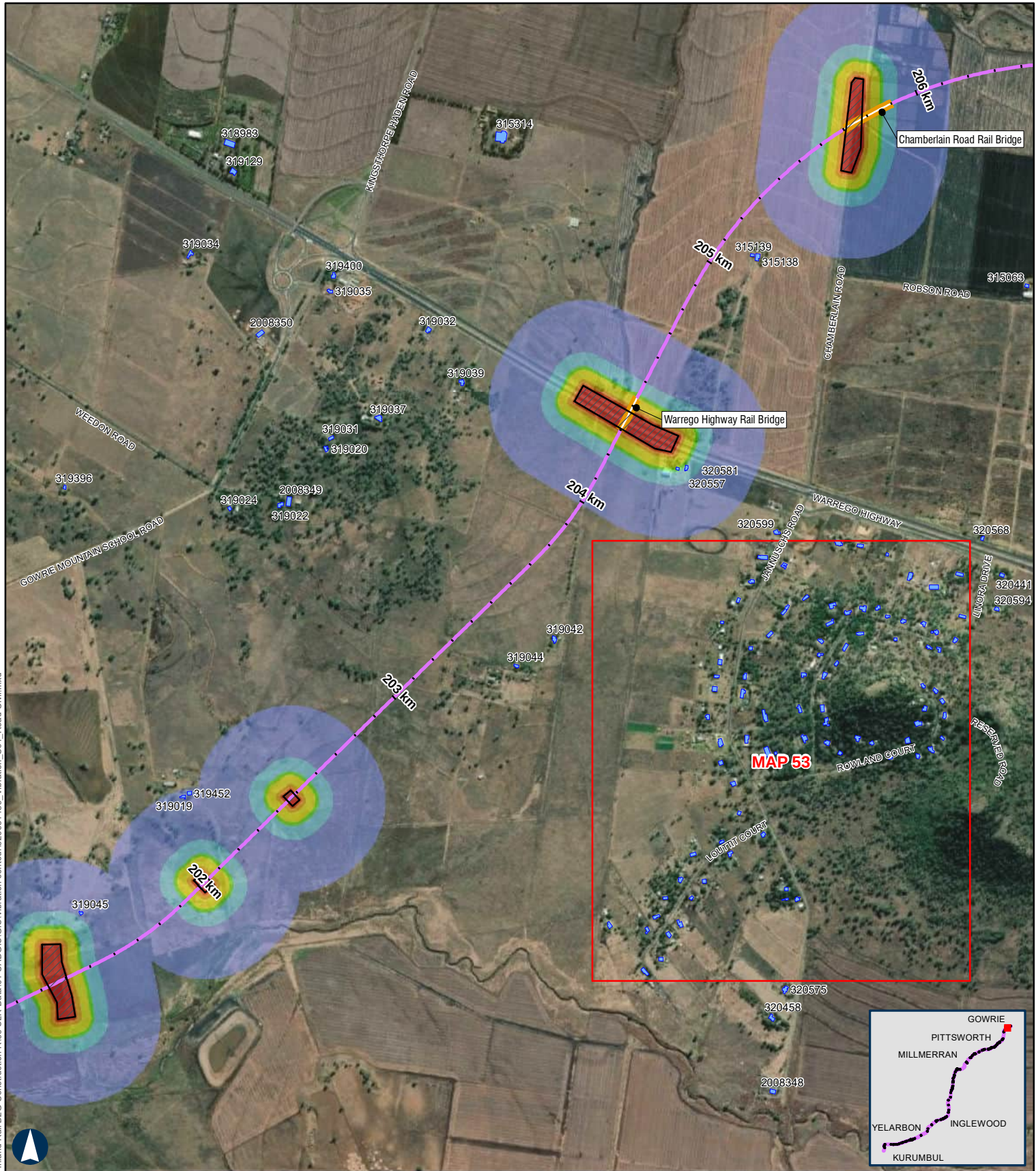
Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC **InlandRail**

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BORDER TO GOWRIE Scenario 4 - Road Civil

APPENDIX E - MAP 52 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✗ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

— Koala Habitat Area

— Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distance

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

ARTC **InlandRail**

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BORDER TO GOWRIE Scenario 4 - Road Civil

APPENDIX E - MAP 53 OF 54

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:7,000

- ✗ Level Crossings
- Flying Fox Camp
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Koala Habitat Area
- ▨ Work Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

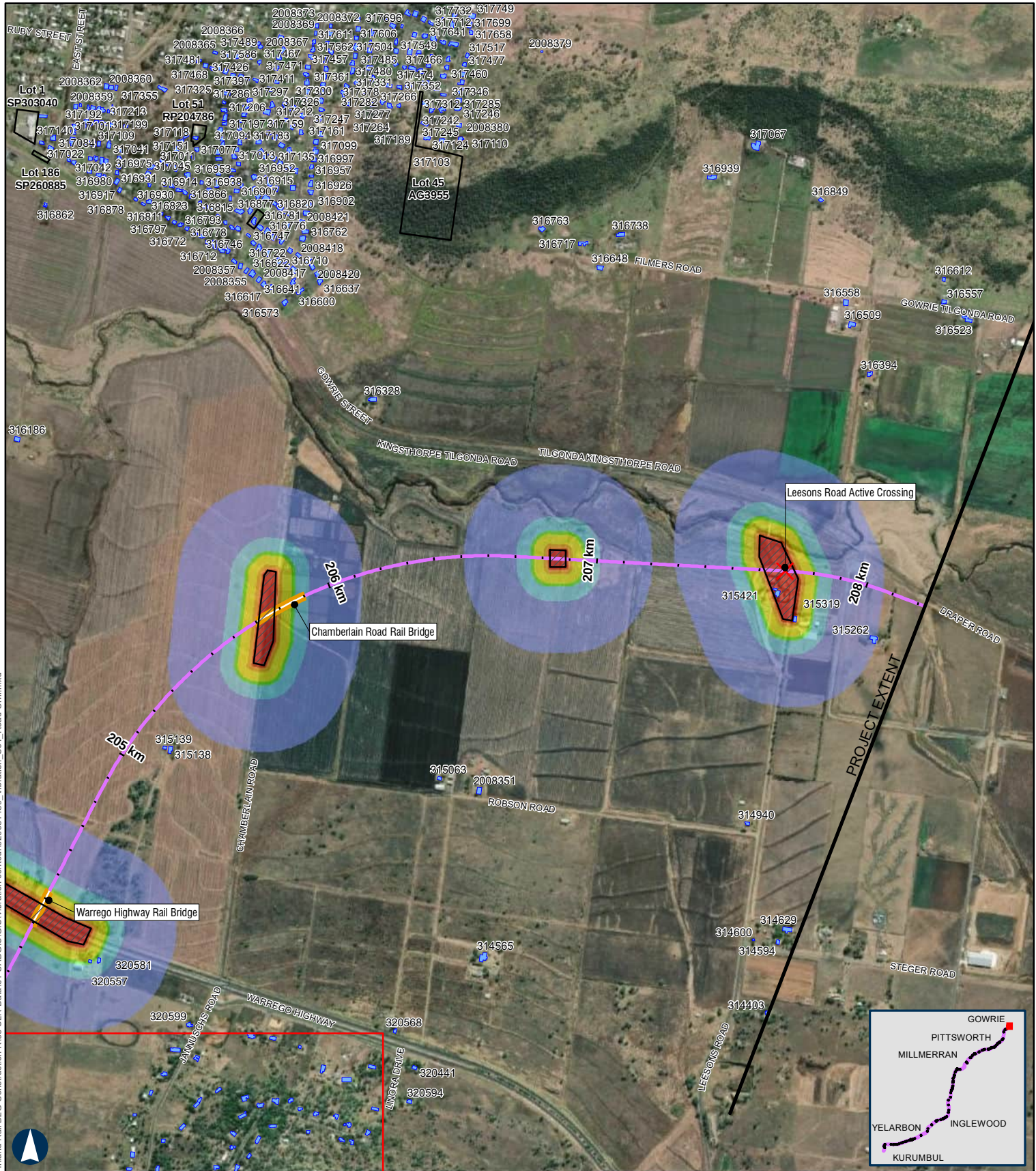
Safe Working Distance

- Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

- Human comfort – standards hours lower limit: 1 mm/s, 124m
- Human comfort – standards hours upper limit: 2 mm/s, 72m
- Heritage structures: 2.5 mm/s, 60m
- Residential or light framed commercial: 7.5 mm/s, 25m
- Industrial or framed commercial: 25 mm/s, 8m



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BORDER TO GOWRIE Scenario 4 - Road Civil

APPENDIX E - MAP 54 OF 54

100m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

Scale: 1:19,000

✕ Level Crossings

● Flying Fox Camp

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

— Koala Habitat Area

— Work Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Safe Working Distance

Human comfort – non-standards hours lower limit: 0.3 mm/s, 316m

Human comfort – standards hours lower limit: 1 mm/s, 124m

Human comfort – standards hours upper limit: 2 mm/s, 72m

Heritage structures: 2.5 mm/s, 60m

Residential or light framed commercial: 7.5 mm/s, 25m

Industrial or framed commercial: 25 mm/s, 8m

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APPENDIX

V

Noise and Vibration Assessment—Construction and Road Traffic

Appendix F Construction road traffic noise assessment

BORDER TO GOWRIE REVISED DRAFT ENVIRONMENTAL IMPACT STATEMENT

Road name	Road section	Background traffic - hourly					Project traffic daily volumes (assumed all HV)					Predicted change in road traffic noise level L10 (1hr)				
		Year 1	Year 2	Year 3	Year 4	Year 5	Year 1	Year 2	Year 3	Year 4	Year 5	Year 1	Year 2	Year 3	Year 4	Year 5
State-Controlled Roads: Department of Transport and Main Roads																
Barwon Highway (31A)	Ch 0.0 to Ch 0.8	66	66	66	66	66	8	11	11	10	7	1	2	2	2	1
	Ch 0.8 to Ch 2.0	66	66	66	66	66	8	11	11	10	7	1	2	2	2	1
	Ch 2.0 to Ch 45.9	20	20	20	20	20	8	10	10	10	7	3	4	4	4	3
	Ch 45.9 to Ch 88.0	20	20	20	20	20	8	9	9	9	6	3	4	4	4	3
Barwon Highway (31B)	Ch 0.0 to Ch 1.6	7	7	7	7	7	8	9	9	9	6	6	7	7	7	5
	Ch 1.6 to Ch 66.8	7	7	7	7	7	7	9	9	9	6	6	7	7	7	5
Carnarvon Highway (24A)	Ch 40.5 to Ch 73.5	6	6	6	6	6	7	9	9	9	6	7	7	7	7	6
Charlton Connection Road (320)	Ch 0.0 to Ch 1.6	312	323	334	345	357	0	0	1	1	0	0	0	0	0	0
Cunningham Highway (17C)	Ch 94.4 to Ch 96.2	33	34	34	34	35	9	9	2	2	0	2	2	0	0	0
	Ch 96.2 to Ch 97.5	33	34	34	34	35	13	13	14	39	0	2	2	3	5	0
	Ch 97.5 to Ch 105.7	33	34	34	34	35	96	21	14	39	0	8	3	3	5	0
	Ch 105.7 to Ch 107.4	33	34	34	34	35	79	55	33	45	19	8	6	5	5	3
	Ch 107.4 to Ch 107.6	69	70	70	71	72	76	52	31	40	17	5	4	3	3	2
Cunningham Highway (17D)	Ch 0.0 to Ch 2	27	27	28	28	28	76	52	31	40	17	8	7	5	6	3
	Ch 2.0 to Ch 3.9	27	27	28	28	28	76	52	31	40	17	8	7	5	6	3
	Ch 3.9 to Ch 10.2	27	27	28	28	28	38	50	29	31	16	6	7	5	5	3
	Ch 10.2 to Ch 13.9	27	27	28	28	28	36	48	26	29	14	6	6	5	5	3
	Ch 13.9 to Ch 18.5	27	27	28	28	28	39	47	25	25	12	6	6	4	4	3
	Ch 18.5 to Ch 27.1	27	27	28	28	28	32	32	15	10	2	5	5	3	2	0
	Ch 27.1 to Ch 29.3	27	27	28	28	28	35	33	14	10	3	5	5	3	2	1
	Ch 29.3 to Ch 34.7	27	27	28	28	28	32	25	14	10	3	5	4	3	2	1
	Ch 34.7 to Ch 39.6	27	27	28	28	28	32	25	14	10	3	5	4	3	2	1
	Ch 39.6 to Ch 40.3	27	27	28	28	28	37	36	14	11	4	6	6	3	2	1
	Ch 40.3 to Ch 40.5	27	27	28	28	28	12	11	14	11	4	3	3	3	2	1
	Ch 40.5 to Ch 43.9	27	27	28	28	28	11	18	12	11	11	3	4	3	2	2
	Ch 43.9 to Ch 46.3	27	27	28	28	28	4	11	5	4	4	1	2	1	1	1
	Ch 46.3 to Ch 88.0	27	27	28	28	28	4	5	5	4	4	1	1	1	1	1
	Ch 88.0 to Ch 88.2	101	101	102	102	102	8	9	10	9	7	1	1	1	1	1
	Ch 88.2 to Ch 90.0	101	101	102	102	102	4	5	5	4	4	0	0	0	0	0
Gore Highway (28A)	Ch 0.0 to Ch 2.2	196	203	210	217	225	74	97	40	41	30	3	4	2	2	1
	Ch 2.2 to Ch 5.4	196	203	210	217	225	166	135	37	37	27	6	5	2	2	1
	Ch 5.4 to Ch 6.7	196	203	210	217	225	164	133	35	35	25	6	5	2	2	1
	Ch 6.7 to Ch 7.7	196	203	210	217	225	162	131	50	33	24	5	5	2	2	1
	Ch 7.7 to Ch 11.2	196	203	210	217	225	159	126	47	30	21	5	5	2	2	1
	Ch 11.2 to Ch 15.3	196	203	210	217	225	158	125	46	31	20	5	5	2	2	1
	Ch 15.3 to Ch 17.5	196	203	210	217	225	113	76	54	28	19	4	3	3	1	1
	Ch 17.5 to Ch 19.0	196	203	210	217	225	112	75	52	27	18	4	3	2	1	1
	Ch 19.0 to Ch 20.3	196	203	210	217	225	111	74	51	27	17	4	3	2	1	1
	Ch 20.3 to Ch 21.5	103	106	110	113	117	109	73	50	26	16	6	5	4	2	2
	Ch 21.5 to Ch 23.2	103	106	110	113	117	108	68	48	26	15	6	5	4	2	1
	Ch 23.2 to Ch 25.0	103	106	110	113	117	62	52	51	31	19	5	4	4	3	2

Road name	Road section	Background traffic - hourly					Project traffic daily volumes (assumed all HV)					Predicted change in road traffic noise level L10 (1hr)				
		Year 1	Year 2	Year 3	Year 4	Year 5	Year 1	Year 2	Year 3	Year 4	Year 5	Year 1	Year 2	Year 3	Year 4	Year 5
	Ch 25.0 to Ch 30.1	103	106	110	113	117	62	253	263	25	18	5	9	9	2	2
	Ch 30.1 to Ch 38.7	103	106	110	113	117	64	28	30	31	20	5	3	3	3	2
	Ch 38.7 to Ch 41.1	103	106	110	113	117	64	26	31	29	20	5	2	3	3	2
	Ch 41.1 to Ch 41.7	103	106	110	113	117	64	26	31	29	19	5	2	3	3	2
	Ch 41.7 to Ch 43.2	103	106	110	113	117	66	72	36	31	22	5	5	3	3	2
	Ch 43.2 to Ch 44.7	103	106	110	113	117	68	74	38	34	24	5	5	3	3	2
	Ch 44.7 to Ch 47.6	103	106	110	113	117	71	76	40	34	26	5	5	3	3	2
	Ch 47.6 to Ch 52.2	103	106	110	113	117	73	78	42	34	29	5	5	3	3	2
	Ch 52.2 to Ch 53.3	103	106	110	113	117	75	80	40	36	31	5	5	3	3	3
	Ch 53.3 to Ch 60.8	103	106	110	113	117	77	83	40	40	32	5	5	3	3	3
	Ch 60.8 to Ch 63.0	103	106	110	113	117	34	37	37	39	32	3	3	3	3	3
Gore Highway (28B)	Ch 0.0 to Ch 0.7	42	42	42	43	43	51	54	56	56	49	6	6	6	6	5
	Ch 0.7 to Ch 0.8	42	42	42	43	43	51	54	54	56	49	6	6	6	6	5
	Ch 0.8 to Ch 1.4	42	42	42	43	43	51	54	54	56	49	6	6	6	6	5
	Ch 1.4 to Ch 3.0	42	42	42	43	43	51	54	54	61	50	6	6	6	6	5
	Ch 3.0 to Ch 13.0	42	42	42	43	43	12	15	15	22	11	2	2	2	3	2
	Ch 13.0 to Ch 121.6	42	42	42	43	43	12	15	15	15	10	2	2	2	2	2
Ipswich Motorway (17A)	Ch 0.0 to Ch 3.7	4,458	4,458	4,458	4,458	4,458	16	20	20	20	13	0	0	0	0	0
	Ch 3.7 to Ch 6.4	4,324	4,436	4,550	4,668	4,788	16	20	20	20	13	0	0	0	0	0
	Ch 6.4 to Ch 8.3	5,620	5,900	6,195	6,504	6,828	16	20	20	20	13	0	0	0	0	0
Leichhardt Highway (26C)	Ch 205.2 to Ch 220.1	51	51	51	51	51	12	15	15	15	10	2	2	2	2	1
	Ch 220.1 to Ch 222.4	52	52	52	52	52	4	6	6	5	3	1	1	1	1	1
	Ch 222.4 to Ch 224.1	52	52	52	52	52	4	6	6	5	3	1	1	1	1	1
Millmerran-Inglewood Road (337)	Ch 0.0 to Ch 2.5	45	46	48	50	52	48	51	5	2	1	6	6	1	0	0
	Ch 2.5 to Ch 3.5	45	46	48	50	52	46	57	11	9	4	6	6	2	2	1
	Ch 3.5 to Ch 6.2	40	40	40	40	40	59	71	25	18	16	7	8	4	4	3
	Ch 6.2 to Ch 9.0	40	40	40	40	40	58	69	53	17	15	7	8	7	3	3
	Ch 9.0 to Ch 13.1	40	40	40	40	40	55	67	36	15	13	7	7	5	3	3
	Ch 13.1 to Ch 14.0	40	40	40	40	40	55	66	34	15	13	7	7	5	3	3
	Ch 14.0 to Ch 17.3	40	40	40	40	40	52	61	29	25	12	7	7	5	4	3
	Ch 17.3 to Ch 18.1	40	40	40	40	40	52	55	77	25	12	7	7	8	4	3
	Ch 18.1 to Ch 21.8	40	40	40	40	40	51	54	76	24	10	7	7	8	4	2
	Ch 21.8 to Ch 28.0	40	40	40	40	40	49	51	57	21	8	6	7	7	4	2
	Ch 28.0 to Ch 33.0	40	40	40	40	40	46	49	55	18	5	6	6	7	4	1
	Ch 33.0 to Ch 35.6	40	40	40	40	40	44	46	52	16	2	6	6	7	3	1
	Ch 35.6 to Ch 37.7	40	40	40	40	40	42	42	2	14	1	6	6	0	3	0
	Ch 37.7 to Ch 39.8	40	40	40	40	40	42	49	2	14	1	6	6	0	3	0
	Ch 39.8 to Ch 41.9	12	12	13	13	13	45	51	4	17	4	10	10	2	6	2
	Ch 41.9 to Ch 45.9	12	12	13	13	13	5	14	5	5	4	3	6	3	3	2
	Ch 45.9 to Ch 47.6	12	12	13	13	13	6	15	6	6	5	3	6	3	3	3
	Ch 47.6 to Ch 53.3	12	12	13	13	13	6	20	6	6	5	3	7	3	3	3
	Ch 53.3 to Ch 55.7	12	12	13	13	13	8	23	8	14	6	4	7	4	6	3
	Ch 55.7 to Ch 56.6	12	12	13	13	13	8	11	8	14	6	4	5	4	6	3

Road name	Road section	Background traffic - hourly					Project traffic daily volumes (assumed all HV)					Predicted change in road traffic noise level L10 (1hr)				
		Year 1	Year 2	Year 3	Year 4	Year 5	Year 1	Year 2	Year 3	Year 4	Year 5	Year 1	Year 2	Year 3	Year 4	Year 5
	Ch 56.6 to Ch 59.2	12	12	13	13	13	20	36	24	31	23	7	9	7	8	7
	Ch 59.2 to Ch 61.0	12	12	13	13	13	20	36	24	36	23	7	9	7	9	7
	Ch 61.0 to Ch 65.7	12	12	13	13	13	39	55	22	34	21	9	11	7	9	7
	Ch 65.7 to Ch 68.7	12	12	13	13	13	91	54	21	34	20	13	11	7	9	6
Millmerran-Leyburn Road (335)	Ch 0.0 to Ch 2.0	8	9	9	10	10	2	13	13	2	2	3	7	7	2	2
	Ch 2.0 to Ch 2.2	8	9	9	10	10	0	10	10	0	0	0	7	6	0	0
Texas-Yelarbon Road (2322)	Ch 53.3 to Ch 54.6	8	8	8	8	9	0	7	0	0	0	0	4	0	0	0
Toowoomba-Athol Road (316)	Ch 2.1 to Ch 16.8	110	110	110	110	110	16	17	17	16	16	2	2	2	2	2
Toowoomba-Cecil Plains Road (324)	Ch 2.0 to Ch 6.0	309	311	313	315	317	1	3	2	1	0	0	0	0	0	0
	Ch 6.0 to Ch 6.4	101	101	101	101	101	1	2	2	0	0	0	0	0	0	0
	Ch 6.4 to Ch 8.3	101	101	101	101	101	1	5	2	1	0	0	1	0	0	0
	Ch 8.3 to Ch 9.2	101	101	101	101	101	2	5	3	14	1	0	1	0	2	0
	Ch 9.2 to Ch 10.0	181	192	203	215	227	3	13	4	5	0	0	1	0	0	0
	Ch 10.0 to Ch 10.1	181	192	203	215	227	6	16	8	8	4	1	1	1	1	0
	Ch 10.1 to Ch 10.3	181	192	203	215	227	4	27	5	4	4	0	2	0	0	0
	Ch 10.3 to Ch 12.1	181	192	203	215	227	4	27	5	6	4	0	2	0	0	0
	Ch 12.1 to Ch 14.5	181	192	203	215	227	4	42	42	6	4	0	3	3	0	0
Toowoomba Connection Road (315)	Ch 14.5 to Ch 16.3	72	74	76	77	79	3	47	47	5	2	1	5	5	1	0
	Ch 26.3 to Ch 26.9	407	419	431	444	458	0	0	1	1	0	0	0	0	0	0
Warrego Highway (18A)	Ch 26.9 to Ch 27.1	407	419	431	444	458	7	7	8	8	7	0	0	0	0	0
	Ch 0.0 to Ch 7.2	1,296	1,322	1,348	1,376	1,403	16	20	20	20	13	0	0	0	0	0
	Ch 7.2 to Ch 15.1	856	856	856	856	856	16	20	20	20	13	0	0	0	0	0
	Ch 15.1 to Ch 18.9	1,623	1,667	1,712	1,758	1,805	16	20	20	20	13	0	0	0	0	0
	Ch 18.9 to Ch 28.9	1,623	1,667	1,712	1,758	1,805	16	20	20	20	13	0	0	0	0	0
	Ch 28.9 to Ch 36.6	731	742	752	763	774	16	20	20	20	13	0	0	0	0	0
	Ch 36.6 to Ch 55.5	689	764	847	939	1,042	7	7	8	8	7	0	0	0	0	0
	Ch 55.5 to 75.4	1,148	1,273	1,412	1,565	1,736	52	57	10	9	7	1	1	0	0	0
Warrego Highway (18B)	Ch 75.4 to Ch 79.6	1,148	1,273	1,412	1,565	1,736	49	49	7	18	5	1	1	0	0	0
	Ch 0.0 to Ch 0.4	553	560	567	573	580	46	46	4	4	2	1	1	0	0	0
	Ch 0.4 to Ch 1.5	553	560	567	573	580	46	46	4	4	2	1	1	0	0	0
	Ch 1.5 to Ch 2.4	553	560	567	573	580	46	46	4	4	2	1	1	0	0	0
Coolmunda Dam Access	Ch 2.4 to Ch 4.5	553	560	567	573	580	46	46	8	4	2	1	1	0	0	0
Local Government Roads: Balonne Shire Council																
Noondoo Thallon Road	GrainCorp Thallon to Carnarvon Highway	10	10	10	10	10	7	9	9	9	6	5	6	6	6	5
Local Government Roads: Goondiwindi Regional Council																
Boodle Street	Holcim Concrete Goondiwindi to Hunt Street	2	2	2	2	2	0	1	1	0	0	0	4	4	0	0
Bybera Road	Cunningham Highway to B2G-LDN060.4	6	6	6	7	7	39	7	2	9	1	13	7	3	7	2
	B2G-LDN060.4 to Earthworks Area 2A	6	6	6	7	7	31	0	0	0	0	13	0	0	0	0
Cemetery Road	Access Track to Moorobie Lane	21	22	23	24	24	0	7	0	0	0	0	3	0	0	0
	Cunningham Highway to GrainCorp Goondiwindi	10	11	11	11	11	4	5	5	5	3	4	4	4	4	3
Coolmunda Dam Access	Inglewood Legacy Bore/Coolmunda Dam to Coolmunda Dam	6	6	6	6	6	9	9	2	2	0	7	7	3	3	0
	Coolmunda Dam Access to Cunningham Highway	6	6	6	6	6	9	9	2	2	0	7	7	3	3	0

Road name	Road section	Background traffic - hourly					Project traffic daily volumes (assumed all HV)					Predicted change in road traffic noise level L10 (1hr)				
		Year 1	Year 2	Year 3	Year 4	Year 5	Year 1	Year 2	Year 3	Year 4	Year 5	Year 1	Year 2	Year 3	Year 4	Year 5
Cremascos Road	B2G-LDN052.8 to B2G-LDN055.4	9	9	9	9	9	3	3	3	2	2	3	3	3	3	3
	B2G-LDN055.4 to B2G-LDN054.2	9	9	9	9	9	2	3	2	2	2	3	3	3	3	3
	Cunningham Highway to B2G-LDN052.8	9	9	9	9	9	3	3	3	3	2	3	3	3	3	3
East Sawmill Road	Cunningham Highway to B2G-LDN030.0	4	4	4	4	4	47	54	3	2	1	16	16	5	4	3
Elizabeth Street	Cunningham Highway to B2G-LDN065.8	4	4	4	4	4	2	2	3	5	2	5	5	5	7	5
Eukabilla Road	Kildonan Road to NS2B-LDN033.2	2	2	2	2	2	5	6	6	7	4	10	10	10	11	8
	NS2B-LDN033.2 to NS2B-LDN035.6	2	2	2	2	2	2	2	3	4	1	6	6	8	9	5
Fosters Road	Cunningham Highway to Borrow Site #9 (Fosters Road)	2	2	2	3	3	83	16	0	0	0	21	14	0	0	0
Georges Lane	B2G-LDN000.9 to Yelarbon Kurumbul Road	1	2	2	2	2	2	1	2	2	1	8	5	5	6	5
Grays Road	Millmerran-Inglewood Road to Mosquito Creek Road	2	2	2	3	3	0	12	0	0	0	0	13	0	0	0
Hunt Street	Leichhardt Highway to Boodle Street	2	2	2	2	2	0	0	0	0	0	0	1	1	0	0
Kildonan Road	Eukabilla Road to NS2B-LDN031.0	172	177	183	189	195	2	1	2	3	0	0	0	0	0	0
	NS2B-LDN031.0 to South Kurumbul Road	172	177	183	189	195	27	32	2	3	0	2	2	0	0	0
	South Kurumbul Road to Cunningham Highway	172	177	183	189	195	25	32	0	0	0	2	2	0	0	0
	Cunningham Highway to Eukabilla Road	135	136	137	138	139	8	6	5	4	4	1	1	0	0	0
McDougalls Road	B2G-LDN049.8 to McDougalls Road	1	1	1	1	1	5	5	2	5	1	13	13	8	12	7
	McDougalls Road to Cunningham Highway	1	1	1	1	1	5	5	2	5	1	13	13	8	12	7
Mooroobie Lane	Cemetery Road to Mooroobie Lane borrow pit site	3	4	4	4	4	0	7	0	0	0	0	8	0	0	0
	Mooroobie Lane borrow pit site to Mooroobie Lane	3	4	4	4	4	0	14	0	0	0	0	11	0	0	0
	Mooroobie Lane to Wondalli Kurumbul Road	3	4	4	4	4	0	14	0	0	0	0	11	0	0	0
Mosquito Creek Road	Mosquito Road borrow pit site to Grays Road	2	2	2	3	3	0	12	0	0	0	0	13	0	0	0
Queen Street South	Yelarbon Kurumbul to B2G-LDN016.0	1	1	1	1	1	5	1	4	3	1	12	7	12	10	7
Silo Street	Barwon Highway to GrainCorp Talwood	12	12	12	12	12	1	1	1	1	0	1	1	1	1	0
South Kurumbul Road	Kildonan Road to Yelarbon Kurumbul Road	6	6	7	7	7	2	1	2	3	0	3	1	3	4	0
South Toobeah Road	GrainCorp Toobeah to Barwon Highway	8	8	8	8	8	1	1	1	1	1	1	1	1	1	1
Springborg Road	Cunningham highway to B2G-LDN037.6	1	1	1	1	1	4	2	4	3	1	11	8	11	10	7
Suttons Road	B2G-LDN030.0 to Access Track (Off Suttons Road)	1	1	1	1	1	25	32	0	0	0	19	20	0	0	0
Thornton Road	B2G-LDN069.0 to B2G-LDN067.6	2	2	2	2	2	3	3	2	3	1	8	8	6	8	5
	B2G-LDN067.6 to Millmerran-Inglewood Road	2	2	2	2	2	55	17	2	3	1	20	15	7	8	5
Town Common Road	Boral Concrete Goondiwindi to Barwon Highway	30	30	30	30	30	0	2	2	0	0	0	1	1	0	0
Whetstone Access	B2G-LDN044.5 to Cunningham Highway	2	2	2	2	2	18	26	14	19	13	15	16	14	15	13
Wondalli Kurumbul Road	Yelarbon Kurumbul Road to Mooroobie Lane	3	3	3	3	3	0	14	0	0	0	0	12	0	0	0
Wongavale Yugilbar Road	Millmerran-Inglewood Road to B2G-LDN081.0	2	2	2	2	2	2	3	2	8	1	6	8	5	12	5
Yelarbon Kurumbul Road	South Kurumbul Road to B2G-LDN006.3	6	7	7	7	7	3	2	3	4	1	4	2	4	5	2
	B2G-LDN006.3 to Wondalli Kurumbul Road	6	7	7	7	7	2	16	4	6	2	4	9	5	6	3
	Wondalli Kurumbul Road to Yelarbon Kurumbul Road	6	7	7	7	7	2	2	4	6	2	4	3	5	6	3
	Yelarbon Kurumbul Road to B2G-LDN020.3	6	7	7	7	7	7	4	9	9	4	7	4	7	7	4
	B2G-LDN020.3 to B2G-LDN025.9	5	5	5	5	5	9	5	13	10	5	8	6	10	9	6
	B2G-LDN025.9 to Cunningham Highway	5	5	5	5	5	15	21	17	14	7	10	12	11	10	7
Local Government Roads: Moree Plains Shire Council																
Boggabilla Weir Access	River Road to Boggabilla Weir	2	2	2	2	2	4	2	1	0	0	9	7	4	2	0
River Road	Newell Highway to Boggabilla Weir Access	2	2	2	2	2	4	2	1	0	0	9	7	4	2	0
Local Government Roads: Toowoomba Regional Council																

Road name	Road section	Background traffic - hourly					Project traffic daily volumes (assumed all HV)					Predicted change in road traffic noise level L10 (1hr)				
		Year 1	Year 2	Year 3	Year 4	Year 5	Year 1	Year 2	Year 3	Year 4	Year 5	Year 1	Year 2	Year 3	Year 4	Year 5
Alderley Street	Greenwattle Street to Toowoomba Workforce Origin 2	1163	1231	1303	1379	1460	0	0	0	0	0	0	0	0	0	0
	Toowoomba Workforce Origin B to Toowoomba-Athol Road	676	678	680	683	685	16	16	16	16	16	0	0	0	0	0
	Toowoomba-Athol Road to Condamine Street	1317	1322	1327	1331	1336	0	0	0	0	0	0	0	0	0	0
Athol School Road	B2G-LDN187.8 to B2G-LDN188.2	22	23	24	24	25	96	52	3	1	0	12	9	1	0	0
	B2G-LDN188.2 to Gore Highway	22	23	24	24	25	98	54	5	5	3	12	9	2	2	1
Biddeston Southbrook Road	Gore Highway to B2G-LDN183.8	16	16	17	18	18	1	24	24	2	1	1	8	7	1	1
Blackwell Road	Gore Highway to Millmerran Quarry	4	4	4	4	4	0	0	0	7	1	0	0	0	8	2
	Millmerran Quarry to B2G-LDN120.2	4	4	4	4	4	0	0	0	15	2	0	0	0	11	4
	B2G-LDN120.2 to Millmerran-Inglewood Road	1	1	1	1	1	3	5	5	18	4	10	12	12	18	11
Bligh Street	Six Mile Road to Boral Concrete Millmerran	2	2	2	2	2	0	2	2	1	0	0	6	6	5	0
Brimblecombe Road	Toowoomba-Cecil Plains Road to Brimblecombe Road	14	15	15	16	16	4	9	9	4	2	3	5	5	3	2
	Brimblecombe Road to WL 194467R	15	15	16	16	17	2	7	7	2	0	1	4	4	1	0
Bushy Lane	B2G-LDN183.0 to Gore Highway	9	9	9	10	10	3	6	3	5	3	3	5	3	4	3
Campbell Street	Millmerran-Inglewood Road to Saleyards Road	114	119	123	129	134	18	19	20	22	18	2	2	2	2	2
	Saleyards Road to Gore Highway	212	221	230	240	250	18	19	19	19	18	1	1	1	1	1
Chamberlain Road	Warrego Highway to B2G-LDN204.2	2	2	2	2	2	1	1	2	2	1	5	5	6	6	5
Commodore Peak Road	Scragg Road to Millmerran-Inglewood Road	3	3	3	3	3	2	3	17	3	2	5	6	13	6	5
Condamine Street	Alderley Street to Hanson Concrete Supplier	100	100	101	101	101	0	0	0	0	0	0	0	0	0	0
Desmonds Lane	Yarranlea Road to B2G-LDN163.3	1	1	1	2	2	1	1	2	1	1	7	7	9	5	5
Dieckmann Road	B2G-LDN150.5 to Gore Highway	2	2	2	2	2	3	50	11	6	2	7	19	13	10	7
Draper Road	Steger Road to B2G-FBW206.9	4	4	4	4	4	2	2	2	2	2	5	5	5	5	5
Drayton Wellcamp Road	Wellcamp Westbrook Road to Access Track	402	425	450	477	504	0	0	0	13	1	0	0	0	0	0
	Access Track to Greenwattle Street	402	425	450	477	504	0	0	0	0	0	0	0	0	0	0
Florence Street	Gore Highway to West Street	27	27	27	27	27	0	0	0	0	0	0	0	0	0	0
Forestry Road	Access Track to Millmerran-Inglewood Road	1	1	1	1	1	0	12	0	0	0	0	16	0	0	0
	Millmerran-Inglewood Road to Earthworks Area 3B	1	1	1	1	1	0	12	0	0	0	0	16	0	0	0
Fysh Road	B2G-LDN147.1 to Gore Highway	7	7	7	8	8	2	2	2	7	3	3	3	3	6	3
Gap Road	Gore Highway to Grevillea Street	116	119	123	127	131	0	0	1	0	0	0	0	0	0	0
Geitz Road	B2G-LDN179.0 to Linthorpe Valley Road	4	4	4	4	5	1	1	1	5	1	3	3	3	7	3
Gilgai Lane	B2G-LDN144.6 to Gore Highway	3	3	3	3	3	2	3	4	4	2	5	6	7	8	5
Grevillea Street	Boral Concrete Pittsworth to Gap Road	45	46	48	49	51	0	0	1	0	0	0	0	0	0	0
Hall Road	B2G-LDN139.0 to Gore Highway	1	1	1	1	1	18	18	18	18	18	18	18	18	18	18
Heckendorf Road	Heckendorf Road borrow pits to B2G-LDN116.0	5	5	5	5	5	0	23	49	0	0	0	12	15	0	0
	B2G-LDN116.0 to Millmerran-Inglewood Road	5	5	5	5	5	0	23	49	2	0	0	12	15	4	0
Holcim Australia Toowoomba Access	Drayton Wellcamp Road to Holcim Australia Toowoomba Quarry	2	2	3	3	3	0	0	0	13	0	0	0	0	12	1
Kahler Road	Murlaggan Road to B2G-LDN165.6	1	1	1	1	1	1	1	1	2	1	7	7	7	8	7
Kingsthorpe Haden Overpass	Warrego Highway Off-ramp to Kingsthorpe Haden Road	186	188	190	193	195	46	46	8	4	2	3	3	1	0	0
Kooroongarra Road	Millmerran-Inglewood Road to Commodore Mine	1	1	1	1	1	0	0	30	0	0	0	0	20	0	0
Leesons Road	Warrego Highway to Steger Road	7	7	7	7	7	2	25	2	16	3	3	11	3	9	3
	Steger Road to B2G-LDN206.3	7	7	7	7	7	3	26	8	17	3	4	11	6	9	3
Linthorpe Road	Gore Highway to B2G-LDN175.5	3	3	3	3	3	45	76	11	5	1	17	19	11	8	4
Linthorpe Valley Road	Geitz Road to Gore Highway	9	9	9	9	10	1	1	1	5	1	2	2	2	4	2
Linhabar Road	Gore Highway to B2G-LDN172.0	31	32	34	35	36	1	1	2	2	1	0	0	1	1	0

Road name	Road section	Background traffic - hourly					Project traffic daily volumes (assumed all HV)					Predicted change in road traffic noise level L10 (1hr)				
		Year 1	Year 2	Year 3	Year 4	Year 5	Year 1	Year 2	Year 3	Year 4	Year 5	Year 1	Year 2	Year 3	Year 4	Year 5
Commodore Road	Ch B2G-LDN172.0 to B2G-LDN172.6	31	32	34	35	36	1	1	2	1	1	0	0	1	0	0
McDougall Street	Humes Precast Toowoomba to Toowoomba-Cecil Plains Road	539	543	546	550	554	1	3	2	1	0	0	0	0	0	0
Millwood Road	Millmerran-Inglewood Road to B2G-LDN112.1	4	4	4	4	4	3	26	19	6	3	5	13	12	8	5
	B2G-LDN112.1 to Millwood Road	4	4	4	4	4	0	23	0	0	0	0	13	0	0	0
	Millwood Road to Kooroongarra Road	1	1	1	1	1	0	23	0	0	0	0	19	0	0	0
Moffatt Reserve Road	Millmerran-Inglewood Road to Millmerran Power Station	22	22	22	22	22	2	12	12	3	0	1	4	4	1	0
Murlaggan Road	B2G-LDN164.3 to Kahler Road	37	38	40	41	42	52	52	2	4	3	7	7	1	1	1
	Kahler Road to Gore Highway	37	38	40	41	42	53	53	4	6	4	7	7	1	2	1
Oakey-Pittsworth Road	Gore Highway to B2G-LDN171.0	166	166	166	166	167	1	1	2	1	1	0	0	0	0	0
O'Mara Road	Toowoomba-Cecil Plains Road to Warrego Highway	587	621	657	696	736	1	8	2	15	0	0	0	0	0	0
Owens Scrub Road	B2G-LDN129.5 to B2G-LDN128.2	57	59	61	64	67	1	3	3	5	1	0	1	1	1	0
	B2G-LDN128.2 to B2G-LDN130.0	57	59	61	64	67	47	3	3	5	1	6	1	1	1	0
	B2G-LDN130.0 to Millmerran-Inglewood Road	57	59	61	64	67	90	44	6	7	3	8	5	1	1	1
Paint Mine Road	Gore Highway to B2G-LDN173.5	4	4	5	5	5	1	1	1	2	1	3	3	3	4	3
Paton Road	Millmerran-Inglewood Road to B2G-LDN104.5	2	2	2	2	2	2	3	3	8	3	7	7	7	11	7
Quarry Road Access	Tummalville Road to Quarry	1	1	1	1	1	0	27	0	6	1	0	19	0	13	6
Saleyards Road	Campbell Street to Gore Highway	39	40	42	44	46	0	0	0	5	1	0	0	0	1	0
Schwarten Road	Millmerran-Inglewood Road to B2G-LDN126.9	1	1	1	1	1	1	2	2	1	1	7	8	8	7	7
Scragg Road	Commodore Peak Road to B2G-LDN123.6	2	2	2	2	2	2	3	17	3	2	7	7	15	7	7
	B2G-LDN123.6 to B2G-LDN123.8	2	2	2	2	2	0	0	0	0	0	0	2	0	0	0
Scrubby Road	Bland Quarry Pittsworth to Gore Highway	26	27	28	28	29	0	258	258	12	1	0	15	15	4	0
Steger Road	Warrego Highway to New Hope Recycled Water Pipeline	141	142	144	146	148	5	16	9	8	2	0	1	1	1	0
	New Hope Recycled Water Pipeline to Draper Road	141	142	144	146	148	3	7	7	4	2	0	1	1	0	0
	Draper Road to Leeson's Road	141	142	144	146	148	1	5	5	1	0	0	0	0	0	0
Tummalville Road	Access Track to Gore Highway	17	18	18	19	20	0	27	0	6	1	0	8	0	3	1
Turalin Road	Gore Highway to Miscellaneous Site Facility	26	26	26	26	26	39	39	39	39	39	8	8	8	8	8
Ware Street	GrainCorp Brookstead to B2G-LDN153.1	23	24	24	25	26	4	4	4	4	3	2	2	2	2	1
	B2G-LDN153.1 to Gore Highway	23	24	24	25	26	6	7	9	7	5	3	3	3	3	2
	Gore Highway to B2G-LDN150.9	10	11	11	11	12	0	0	0	1	0	0	0	0	1	0
Wellcamp Westbrook Road	Drayton Wellcamp Road to Toowoomba-Cecil Plains Road	144	153	161	171	181	0	0	0	13	1	0	0	0	1	0
West Street	Gore Highway to Florence Street	8	8	8	8	8	0	2	2	1	0	0	2	2	2	0
	Florence Street to Six Mile Road	2	2	2	2	2	0	2	2	1	0	0	6	6	5	0
Yarranlea Road	Gore Highway to B2G-LDN161.0	10	10	11	11	11	3	238	238	8	3	3	19	18	5	3
	B2G-LDN161.0 to Desmonds Lane	10	10	11	11	11	1	1	2	1	1	1	1	2	1	1

APPENDIX

V

Noise and Vibration Assessment—Construction and Road Traffic

Appendix G Operational road traffic noise screening assessment

BORDER TO GOWRIE REVISED DRAFT ENVIRONMENTAL IMPACT STATEMENT

The following tables present the results of the desktop screening assessment discussed in **Section 6.2**.

The following conservative assumptions have been adopted to facilitate a worst-case road traffic noise level for the desktop assessment:

- An annual traffic growth rate of 2% p.a. was assumed. This is consistent with the Project traffic assessment.
- Existing traffic speeds were applied and assumed to not change due to the Project.
- No angle of view correction was applied.
- A road surface type correction of +3 dBA was applied to the new, upgraded, and existing road segments, to reflect the 5-14 Bituminous Seal pavement type to be reinstated on these sections of modified roads.
- Each road was assumed to have a 3% gradient.
- A +2.5 dB facade correction was applied to each prediction.
- CoRTN low flow corrections were not applied.
- The most stringent CoP Vol 1 criterion for new roads have been applied (i.e. 60 dBA LA10(18hour)).



Table 10-1 Predicted operational road traffic noise levels – new roads

Road ID	Road name	Approx. chainage (km)	Nearest receptor	2022 AADT	HV%	Speed limit (km/h)	Description of sensitive receptors	2022 distance to nearest receptor (m)	Calculated 2022 LA10(18hr) (dBA)	Criterion (dBA)	2038 AADT	Distance to nearest receptor (m)	Predicted 2038 LA10(18hr) (dBA)	Meets criterion?	Level below criterion (dBA)	Access controlled?	Further assessment required?
NSC02	Eukabilla Road	NS2B: 33200	254188	30	11%	100	No nearby sensitive receptors	1,200	30	60	41	1,200	32	Yes	-28	Yes	No
NSC03	Georges Lane	3.6	2008222	22	19%	100	No nearby sensitive receptors	1,750	28	60	30	1,750	29	Yes	-31	No	No
NSC05	Yelarbon - Kurumbul Road	8.6	254161	30	11%	100	Scattered rural residential	110	43	60	41	130	42	Yes	-18	No	No
NSC06	Yelarbon - Kurumbul Road	12.2	254255	30	11%	100	No nearby sensitive receptors	2,400	26	60	41	2,400	28	Yes	-32	Yes	No
NSC07	Yelarbon - Kurumbul Road	14.3	254250	30	11%	100	Scattered rural residential	80	45	60	41	100	45	Yes	-15	No	No
NSC08	Yelarbon - Kurumbul Road	19	324270	30	11%	100	Scattered rural residential	110	43	60	41	110	44	Yes	-16	No	No
NSC09	Yelarbon - Kurumbul Road	20.8	324270	30	11%	100	No nearby sensitive receptors	1,070	31	60	41	1,070	32	Yes	-28	Yes	No
NSC10	Yelarbon - Kurumbul Road	23.6	254347	30	11%	100	Scattered rural residential	110	43	60	41	75	46	Yes	-14	No	No
NSC11	Yelarbon - Kurumbul Road	25.4	254612	30	11%	100	Edge of township	230	39	60	41	230	41	Yes	-19	Yes	No
SC01	Cunningham Highway	25.4	254558	1,409	47%	80	Edge of township	30	69	60 ¹	1,589	30	69	No	+9	No	Yes – predicted exceedance
SC02	Wondalli St	25.4	254476	191	39%	50	Edge of township	25	58	60 ¹	319	15	63	No	+3	No	Yes – predicted exceedance
NSC12	Railway Parade	25.2	254612	3	0%	50	Edge of township	50	31	60	5	50	32	Yes	-28	No	No
NSC13	E of Sawmill Road	26.8	254594	15	17%	100	Edge of township	50	45	60	21	50	46	Yes	-14	No	No
NSC14	Suttons Road	30	254325	10	67%	60	No nearby sensitive receptors	1,800	25	60	14	1,750	27	Yes	-33	Yes	No
NSC31	Commodore Peak Road	123.4	256019	47	30%	100	Scattered rural residential	60	50	60	65	65	51	Yes	-9	Yes	No
NSC33	Schwarten Road	126.3	319275	3	0%	100	Scattered rural residential	200	28	60	4	200	31	Yes	-29	Yes	No
NSC34	Owens Scrub Road	129.8	256057	534	30%	100	Scattered rural residential	155	56	60 ¹	733	155	57	Yes	-3	No	No
NSC35	Fysh Road	148.2	260119	74	20%	100	Edge of township	45	53	60	102	45	54	Yes	-6	No	No
NSC36	Pampas Pit Road	148.2	260170	11	15%	80	Edge of township	70	40	60	15	70	41	Yes	-19	No	No
NSC37	Elsden Road	151.2	260930	17	22%	80	No nearby sensitive receptors	135	39	60	23	380	35	Yes	-25	Yes	No
NSC39	Saal Road	154	262034	70	34%	80	Edge of township	170	46	60	96	65	52	Yes	-8	Yes	No
NSC42	Desmonds Lane	162.5	319154	15	14%	100	Scattered rural residential	30	47	60	21	50	46	Yes	-14	No	No
NSC44	Murlaggan Road South	165	319485	24	14%	50	Scattered rural residential	560	30	60	33	180	37	Yes	-23	Yes	No



Road ID	Road name	Approx. chainage (km)	Nearest receptor	2022 AADT	HV%	Speed limit (km/h)	Description of sensitive receptors	2022 distance to nearest receptor (m)	Calculated 2022 LA10(18hr) (dBA)	Criterion (dBA)	2038 AADT	Distance to nearest receptor (m)	Predicted 2038 LA10(18hr) (dBA)	Meets criterion?	Level below criterion (dBA)	Access controlled?	Further assessment required?
NSC45	Murlaggan Road North	166	319481	24	14%	50	Scattered rural residential	70	41	60	33	70	42	Yes	-18	No	No
NSC46	French Road	170	322529	73	24%	80	Scattered rural residential	135	46	60	100	135	47	Yes	-13	Yes	No
NSC48	Quibet Road	172.2	323722	8	40%	80	Edge of township	45	44	60	11	45	45	Yes	-15	No	No
NSC49	Lochaber Road	173.7	322429	344	6%	100	Scattered rural residential	50	57	60 ¹	472	50	58	Yes	-2	No	Yes – predicted marginal compliance
NSC50	McEwan Lane	173.8	321982	1	0%	100	Scattered rural residential	90	28	60	1	90	29	Yes	-31	Yes	No
NSC53	Bushy Lane	183.8	319254	144	15%	100	Scattered rural residential	70	53	60	198	137	51	Yes	-9	Yes	No
NSC54	Biddenston Southbrook Road	184.9	319297	182	25%	80	Scattered rural residential	60	54	60	250	50	57	Yes	-3	No	No
NSC55	Athol School Road	188.4	319103	241	12.5%	80	Scattered rural residential	80	52	60	331	50	56	Yes	-4	No	No
Note 1: Although the calculated existing noise level for this road segment is greater than 55 dBA LA10(18hour), the lower new roads criterion has been conservatively applied to all road segments.																	



Table 10-2 Predicted operational road traffic noise levels – upgraded roads

Road ID	Road name	Approx. chainage (km)	Nearest receptor	10-year horizon AADT	HV%	Speed limit (km/h)	Description of sensitive receptors	Distance to nearest receptor (m)	Predicted 2038 LA10(18hr) (dBA)	Criterion (dBA)	Meets criterion?	Level below criterion (dBA)	Access controlled?	Further assessment required?
NSC01	Kildonan Road	NS2B: 33.0	2004625	320	23%	100	No nearby sensitive receptors	2,500	38	68	Yes	-30	Yes	No
NSC04	Yelarbon Kurumbul Road	5.8	254168	41	11%	100	Scattered rural residential	12	55	68	Yes	-13	Yes	No
SC03	Cunningham Highway	26.6	254501	1,918	37%	80	Scattered rural residential	90	64	68	Yes	-4	Yes	Yes – state-controlled road with receptor(s) within 300 m
NSC15	Springborg Road	37.6	254657	16	17%	100	No nearby sensitive receptors	1,200	28	68	Yes	-40	Yes	No
NSC16	Whetstone Access Road	45.2	254714	30	28%	50	Scattered rural residential	800	33	68	Yes	-35	Yes	No
NSC17	Cremascos Road	54.4	254828	185	32%	100	Scattered rural residential	130	52	68	Yes	-16	No	No
NSC18	Bybera Road	60.6	255080	33	33%	100	No nearby sensitive receptors	815	35	68	Yes	-33	Yes	No
NSC19	Schofields Boundary Road	65.8	255248	15	35%	60	No nearby sensitive receptors	1,200	27	68	Yes	-41	Yes	No
NSC20	Thornton Road	68.6	255223	9	15%	100	No nearby sensitive receptors	1,550	24	68	Yes	-44	Yes	No
SC04	Millmerran Inglewood Road	72.8	255277	490	33%	100	No nearby sensitive receptors	770	47	68	Yes	-21	Yes	No
NSC21	Grays Road	78.2	255282	41	8%	100	No nearby sensitive receptors	1,000	32	68	Yes	-36	Yes	No
NSC22	Wongavale Yugibar Road	80.8	255295	41	8%	100	No nearby sensitive receptors	1,200	31	68	Yes	-37	Yes	No
NSC23	Unnamed Road	91.8	255318	465	36%	80	No nearby sensitive receptors	4,700	36	68	Yes	-32	Yes	No
NSC24	Forestry Road	96.0	255318	1	0%	100	No nearby sensitive receptors	750	16	68	Yes	-52	Yes	No
NSC25	Kooroongarra Road	103.0	255433	113	19%	100	No nearby sensitive receptors	450	42	68	Yes	-26	Yes	No
NSC26	Patons Koorongara Road	105.8	255455	6	13%	100	No nearby sensitive receptors	900	25	68	Yes	-43	Yes	No
NSC27	Nicol Creek Road	108.0	255511	77	75%	80	Scattered rural residential	160	49	68	Yes	-19	No	No
NSC28	Millwood Road	112.0	255601	29	38%	80	No nearby sensitive receptors	820	34	68	Yes	-34	Yes	No
NSC29	Heckendorfs Road	116.4	255691	38	31%	100	No nearby sensitive receptors	340	40	68	Yes	-28	Yes	No
NSC30	Blackwell Road	120.2	255835	22	17%	100	No nearby sensitive receptors	1,050	30	68	Yes	-38	Yes	No
NSC32	Scraggs Road	123.8	256019	65	30%	100	Scattered rural residential	60	52	68	Yes	-16	No	No
SC05	Millmerran-Inglewood Road	127.0	256166	896	37%	100	Scattered rural residential	150	59	68	Yes	-9	No	Yes – state-controlled road with receptor(s) within 300 m
SC06	Millmerran Leyburn Road	141.4	257028	277	23%	100	No nearby sensitive receptors	460	46	68	Yes	-22	No	No
SC07	Gore Highway	148.1	260165	7,106	32%	80	No nearby sensitive receptors	90	69	68	No	+1	No	Yes – predicted exceedance
SC08	Gore Highway	151.2	261084	7,238	31%	90	No nearby sensitive receptors	120	68	68	Yes	0	No	Yes – predicted marginal compliance
NSC38	Mann Silo Road	153.4	261386	96	45%	60	Edge of township	50	53	68	Yes	-15	No	No



Road ID	Road name	Approx. chainage (km)	Nearest receptor	10-year horizon AADT	HV%	Speed limit (km/h)	Description of sensitive receptors	Distance to nearest receptor (m)	Predicted 2038 LA10(18hr) (dBA)	Criterion (dBA)	Meets criterion?	Level below criterion (dBA)	Access controlled?	Further assessment required?
SC09	Gore Highway	154.0	262286	7,284	33%	100	Edge of township	70	72	68	No	+4	No	Yes – predicted exceedance
NSC40	Longhurst Road	159.2	319174	350	83%	80	No nearby sensitive receptors	1,000	46	68	Yes	-22	Yes	No
NSC41	Yarranlea Road	162.4	319154	47	22%	100	No nearby sensitive receptors	370	40	68	Yes	-28	Yes	No
NSC43	Roche Road	164.5	319485	33	14%	100	Scattered rural residential	260	39	68	Yes	-29	Yes	No
NSC47	Tip Road	170.5	323406	73	24%	80	Scattered rural residential	300	42	68	Yes	-27	Yes	No
SC10	Oakley-Pittsworth Road / Gore Highway	172.2	321618	1,517	27%	80	Scattered rural residential	230	57	68	Yes	-11	Yes	Yes – state-controlled road with receptor(s) within 300 m
SC11	Gore Highway	173.4	321184	7,945	36%	100	Scattered rural residential	70	72	68	No	+4	Yes	Yes – predicted exceedance
NSC51	Linthorpe Road	177.0	319206	294	14%	100	Scattered rural residential	140	52	68	Yes	-16	No	No
NSC52	Linthorpe Valley Road	184.6	319465	180	25%	80	Scattered rural residential	150	4	68	Yes	-19	No	No
SC12	Gore Highway	184.6	324333	11,468	30%	100	Scattered rural residential	180	68	68	Yes	0	Yes	Yes – predicted marginal compliance
SC13	Toowoomba Cecil Planes Road	197.4	319605	3,484	21%	100	Scattered rural residential	240	61	68	Yes	-7	Yes	Yes – state-controlled road with receptor(s) within 300 m
NSC56	Brimblecombe Road	200.0	2008347	146	27%	100	Scattered rural residential	290	47	68	Yes	-21	Yes	No
SC14	Warrego Highway	204.3	320557	20,156	21%	100	Scattered rural residential	75	75	68	No	+7	No	Yes – predicted exceedance
NSC57	Chamberlain Road	205.7	315138	96	34%	100	No nearby sensitive receptors	460	43	68	Yes	-25	Yes	No
NSC58	Leesons Road	207.6	315421	96	34%	100	Scattered rural residential	45	55	68	Yes	-13	No	No



APPENDIX

V

Noise and Vibration Assessment—Construction and Road Traffic

Appendix H Operational road traffic noise modelling inputs

BORDER TO GOWRIE REVISED DRAFT ENVIRONMENTAL IMPACT STATEMENT

H.1 Noise modelling overview

A three-dimensional computer model of the study area was developed by the FFJV using SoundPLAN v8.2 software. This previously developed model was updated by SLR for this report.

The inputs of the SoundPLAN noise model can be separated into the following types:

- Calculation algorithm – the standard implemented by SoundPLAN
- Terrain – a 3D representation of the existing and proposed ground elevations
- Road surface corrections – attenuation effects due to differing road pavements
- Roads, including:
 - o Alignment – the placement of each road source line
 - o Traffic volumes/speeds/composition – the traffic parameters of each road source line
- Ground surface corrections – areas of soft (absorptive) and hard (reflective) ground
- Buildings – location, layout, height, use and number of floor levels
- Noise barriers – existing and proposed (if any)
- Receptor locations – positions and heights at which the noise levels are assessed

The model inputs are discussed in the following sections.

H.2 Calculation Algorithm

SoundPLAN is a software package which enables compilation of a sophisticated computer model comprising a 3-D ground map containing ground contours, the 3D road design (including gradients) and building locations, traffic volumes, mix and speed, road pavement surface characteristics and noise barriers.

The Calculation of Road Traffic Noise (CoRTN) 1988 prediction technique was utilised within SoundPLAN to calculate the relevant road traffic noise levels. These calculations account for the intervening topography, buildings and noise barriers. CoRTN is the recommended road traffic noise prediction technique in the CoP Vol 1.

H.3 Terrain

The verification model terrain was based on 0.5 m contours from Global Mapper (received 4 November 2021) and contained spatial data representative of the existing elevations within the project area, up to the required extents.

The surrounding terrain was edited to include the 0.25 m Future Road Design Contours. The file (named “Design contours”, received 05 July 2022) contained spatial survey data better representative of the future road design elevations and was used for the road elevations component of the DGM.

H.4 Road emission correction factors

The CoRTN road traffic noise model predicts noise levels for a dense graded asphalt (DGA) road pavement surface. In order to predict road traffic noise levels for other types of road pavement surfaces, corrections must be applied to the predictions. Corrections for differing surface types have been developed by DTMR and are published in Table 4.3.4.1 – *Pavement Surface Correction Factors* of the CoP Vol 1.



The existing and future road surface for all assessed roads within the Project area is Bituminous Seal (BS) with chip sizes varying between 5 to 14 mm. The correction factor specified in the CoP Vol 1 for this surface type is +1-3 dB. For this assessment, the highest value in this range (+3 dB) has been conservatively applied to all roads.

In addition to the pavement surface correction factor, CoRTN calibration factors for Queensland conditions have also been applied for all predictions. The CoRTN calibration correction factors applicable to this noise assessment are reproduced from Table 4.3.2.1 – *CoRTN calibration factors and accuracies for Queensland conditions* of the CoP Vol 1 in **Table 10-3**.

Table 10-3 Calibration factors and accuracies for Queensland conditions

Road location	Receptor location	Calibration factor (dBA)	Accuracy of calibrated calculation or prediction (dBA)
Across Queensland (Except Pacific Motorway, Logan Motorway to Nerang)	Free-field	-0.7	± 3.6
	1 m in front of building facade	-1.7	± 5.0

All noise predictions in this report include a +2.5 dBA facade correction unless otherwise stated.

H.5 Roads

The 3D proposed road design was used to create road source lines in the noise model. These source lines represent the centre of each road and hold the proposed road traffic data.

The existing roads were digitised in SoundPLAN following the existing road alignment based on aerial imagery from:

- Nearmap 2021 imagery for sites 1 to 6
- Queensland Glove 2019 imagery for site 7 to 12

The future road design alignment was provided by AECOM:

- “K_IR_3120000_D_ROA_PL_VE_MAIN_EIS SET_12D”, received 21 June 2022

The verification model traffic volumes were based on 2022 traffic measurements conducted by TTM Group during the noise measurement period. These traffic parameters are presented in **Table 10-4**.

The 2028 and 2038 traffic volumes presented in **Table 10-5** were based on traffic modelling undertaken by AECOM.



Table 10-4 Traffic parameters – verification scenario (2022)

TC ID	Road ID	Road name	Descriptions	Town	2022 18-hour traffic volume	2022 HV%	Speed limit (km/h)
TC1	SC14	Warrego Highway Eastbound	West of Jannuschs Road	Kingsthorpe	8,088	19%	100
TC1a	SC14	Warrego Highway Westbound	West of Jannuschs Road	Kingsthorpe	7,930	22%	100
TC2	SC13	Toowoomba Cecil Plains Road	West of Toowoomba Bypass	Wellcamp	2,287	21%	100
TC3	SC12	Gore Highway	North of Biddeston Southbrook Road	Southbrook	6,216	31%	100
TC3a	SC12	Gore Highway	South of Biddeston Southbrook Road	Southbrook	6,329	30%	100
TC4	SC11	Gore Highway	North of Lochaber Road	Pittsworth	4,384	36%	100
TC4a	NSC49	Lochaber Road	West of Gore Highway	Pittsworth	351	21%	80
TC5	SC10	Oakey Pittsworth Road	West of Gore Highway	Pittsworth	1,436	27%	80
TC5a	-	Gore Highway	South of Oakey Pittsworth Road	Pittsworth	3,599	46%	80
TC5b	-	Gore Highway	South of Lochaber Road	Pittsworth	3,942	38%	100
TC6	SC9	Gore Highway	West of Saal Road	Brookstead	4,248	33%	100
TC6a	-	Saal Road	North of Gore Highway	Brookstead	67	41%	60
TC7	SC08	Gore Highway	West of Brookstead Norwin Road	Brookstead	4,220	31%	90
TC8	SC07	Gore Highway	East of Pampas Horrane Road	Pampas	4,144	32%	80
TC9	SC05	Millmerran Inglewood Road	North of Koroongarra Road	Millmerran	860	37%	100
TC10	SC03	Cunningham Highway	West of Wyemo Street	East Yelarbon	1,631	37%	70
TC11	SC01	Cunningham Highway	West of Eena Street	North Yelarbon	1,324	47%	80
TC12	SC02	Wondalli Street	South of Kera Street	Yelarbon	180	39%	50



Table 10-5 Traffic parameters – future scenarios (2028 and 2038)

TC ID	Road ID	Map area	Road name	Descriptions	Town	2028 18-hour traffic volume	2038 18-hour traffic volume	2022 HV%	Speed limit (km/h)
TC1	SC14	1	Warrego Highway Eastbound	West of Jannuschs Road	Kingsthorpe	8,682	9,770	19%	100
TC1a	SC14	1	Warrego Highway Westbound	West of Jannuschs Road	Kingsthorpe	8,512	9,580	22%	100
TC2	SC13	2	Toowoomba Cecil Plains Road	West of Toowoomba Bypass	Wellcamp	2,638	3,345	21%	100
TC3	SC12	3	Gore Highway	North of Biddeston Southbrook Road	Southbrook	7,650	10,813	31%	100
TC3a	SC12	3	Gore Highway	South of Biddeston Southbrook Road	Southbrook	7,789	11,009	30%	100
TC4	SC11	4	Gore Highway	North of Lochaber Road	Pittsworth	5,396	7,627	36%	100
TC4a	NSC49	4	Lochaber Road	West of Gore Highway	Pittsworth	432	610	21%	80
TC5	SC10	5	Oakey Pittsworth Road	West of Gore Highway	Pittsworth	1,443	1,456	27%	80
TC5a	-	5	Gore Highway	South of Oakey Pittsworth Road	Pittsworth	4,429	6,260	46%	80
TC5b	-	5	Gore Highway	South of Lochaber Road	Pittsworth	4,852	6,858	38%	100
TC6	SC9	6	Gore Highway	West of Saal Road	Brookstead	5,121	6,993	33%	100
TC6a	-	6	Saal Road	North of Gore Highway	Brookstead	81	111	41%	60
TC7	SC08	7	Gore Highway	West of Brookstead Norwin Road	Brookstead	5,088	6,948	31%	90
TC8	SC07	8	Gore Highway	East of Pampas Horrane Road	Pampas	4,996	6,822	32%	80
TC9	SC05	9	Millmerran Inglewood Road	North of Kooroongarra Road	Millmerran	860	860	37%	100
TC10	SC03	10b	Cunningham Highway	West of Wyemo Street	East Yelarbon	1,707	1,841	37%	70
TC11	SC01	10a	Cunningham Highway	West of Eena Street	North Yelarbon	1,385	1,494	47%	80
TC12	SC02	10a	Wondalli Street	South of Kera Street	Yelarbon	218	300	39%	50

Note 1: See Appendix I



H.6 Ground absorption

Noise travels more efficiently over areas of hard ground, such as concrete, roads and water. Areas of soft ground such as grass provide a reduction in noise level over distance compared to hard ground. This effect has been taken into consideration by applying 'ground absorption coefficients' to different surface types within the SoundPLAN model.

The following assumptions were made for both the verification model:

- Roads have been modelled as hard ground with a ground absorption coefficient of 0.0.
- All other areas have also been modelled with a ground absorption coefficient of 0.75. This assumes approximately 25% of the suburban areas are hard buildings and driveways, and the remainder is lawns/gardens or vacant vegetated land, as is typical for the Project area.

The following assumptions were made for both the future model:

- Roads have been modelled as hard ground with a ground absorption coefficient of 0.0.
- All other areas have also been modelled with a ground absorption coefficient of 0.5. This assumes approximately half of the suburban areas are hard buildings and driveways; and the remainder is lawns or gardens. This conservative approach has been adopted for the future scenario because the ground can become relatively hard and hydrophobic due to dry weather conditions and represents a likely 'worst-case' scenario.

H.7 Buildings

Building outlines were obtained from a Geoscape data set (B2G_GeoscapeBuildingFootprints_20220307_GDB) supplied 27 June 2022. The building outlines were compared against aerial imagery in ArcGIS Pro. Buildings were numbered as shown in the noise contour maps in **Appendix I**.

Commercial buildings and garden sheds have been excluded from this assessment as these are not considered to be noise-sensitive places according to the CoP V1. Commercial buildings have been included in the noise model to account for any acoustic reflection/shielding effects they may provide in the calculations. However, sheds have been removed from the noise model.

Most receptors along the alignment are single-storey buildings, however there are some two-storey buildings. Each building storey has been assessed as a separate "receptor" in accordance with CoP Vol 1 requirements. As such, a single-storey building will be represented by only one receptor, whilst a two-storey building will be represented by two receptors (being one for each floor).

H.8 Noise Barriers

There are no existing noise barriers within the study area. Additionally, no noise barriers have been recommended to mitigate noise emissions from the project (**Section 8.3.2**). Therefore, there are no noise barriers in the noise model.



H.9 Receptors

A receptor point is the designated point at a building where the existing or future road traffic noise level is predicted and assessed. It is also the reference point used to determine the requirements for noise barriers or in-house treatments.

DTMR requires that the receptor point be representative of the mid-window height of the ground floor (plus upper floors, where applicable) at a distance of 1.0 m from the facade. Calculations were conducted at all exposed facades of sensitive buildings directly exposed to road traffic.

The following receptor heights were adopted for each storey, depending on the building type:

- Single storey buildings: 1.8 m above ground level.
- Elevated single storey buildings: 2.8 m above ground level.
- Double storey buildings: 1.8 m and 4.6 m above ground level.

H.10 Other model and calculation assumptions

The following assumptions were made in all noise models:

- The number of reflections from objects and the ground has been set to 2. The reflection of noise is considered from barriers and buildings, where the reflected noise passes back over the source. Reflections from the receptor point's own facade have already been considered as part of the facade correction (**Section H.4**) and therefore reflections from the receptor's facade are disabled.
- The search radius of noise sources for each receptor point was 5,000 m for all calculations.
- Noise contour maps were calculated with a grid spacing of 5 m.



APPENDIX

V

Noise and Vibration Assessment—Construction and Road Traffic

Appendix I Predicted operational road traffic noise levels

BORDER TO GOWRIE REVISED DRAFT ENVIRONMENTAL IMPACT STATEMENT

The predicted 2028 and 2038 operational road traffic noise levels, for both the New Roads and Upgraded Roads scenarios, are tabulated in **Table 10-6** for residences and **Table 10-7** for educational, community and health buildings.

Table 10-6 Predicted LA10(18hour) road traffic noise levels – residential

Receptor type	Sensitive receptor	Floor	CoP Vol 1 road traffic noise criteria LA10(18hour) (dBA)		Predicted LA10(18hour) facade noise level (dBA)			
					New Roads		Upgraded Roads	
			New Roads	Upgraded Roads	2028	2038	2028	2038
Residence	254340	Ground	60	68	48	48	51	51
Residence	254344	Ground	60	68	47	47	49	50
Residence	254346	Ground	60	68	47	47	49	50
Residence	254348	Ground	60	68	47	47	49	50
Residence	254369	Ground	60	68	47	47	49	50
Residence	254384	Ground	60	68	45	46	48	48
Residence	254388	Ground	60	68	46	47	48	49
Residence	254400	Ground	60	68	49	49	50	51
Residence	254403	Ground	60	68	49	49	50	51
Residence	254396	Ground	60	68	46	46	48	48
Residence	254402	Ground	60	68	43	43	47	48
Residence	254412	Ground	60	68	50	50	52	53
Residence	254376	Ground	60	68	49	50	52	53
Residence	254421	Ground	60	68	50	50	51	52
Residence	254433	Ground	60	68	49	50	51	51
Residence	254437	Ground	60	68	48	48	49	50
Residence	254441	Ground	60	68	46	46	49	49
Residence	254444	Ground	60	68	44	44	47	48
Residence	254449	Ground	60	68	43	43	48	48
Residence	254448	Ground	60	68	43	43	48	48
Residence	254453	Ground	60	68	51	51	52	53
Residence	254458	Ground	60	68	49	50	51	51
Residence	254463	Ground	60	68	48	48	50	50
Residence	254462	Ground	60	68	48	49	50	51
Residence	254460	Ground	60	68	41	42	51	51
Residence	254465	Ground	60	68	41	42	51	51
Residence	254470	Ground	60	68	48	48	49	50
Residence	254476	Ground	60	68	55	55	58	59
Residence	254468	Ground	60	68	41	42	52	52



Receptor type	Sensitive receptor	Floor	CoP Vol 1 road traffic noise criteria LA10(18hour) (dBA)		Predicted LA10(18hour) facade noise level (dBA)			
					New Roads		Upgraded Roads	
			New Roads	Upgraded Roads	2028	2038	2028	2038
Residence	254490	Ground	60	68	44	44	49	49
Residence	254484	Ground	60	68	39	40	54	54
Residence	254487	Ground	60	68	40	40	53	54
Residence	254478	Ground	60	68	40	40	53	53
Residence	254494	Ground	60	68	44	45	49	49
Residence	254493	Ground	60	68	39	40	57	57
Residence	254502	Ground	60	68	53	53	54	55
Residence	254500	Ground	60	68	42	42	51	52
Residence	254501	Ground	60	68	39	39	60	61
Residence	254508	Ground	60	68	50	51	52	52
Residence	254507	Ground	60	68	44	45	49	49
Residence	254517	Ground	60	68	49	49	51	52
Residence	254513	Ground	60	68	42	42	53	54
Residence	254524	Ground	60	68	47	48	51	52
Residence	254521	Ground	60	68	41	41	53	54
Residence	254526	Ground	60	68	41	41	54	54
Residence	254532	Ground	60	68	46	46	50	50
Residence	254529	Ground	60	68	40	41	55	55
Residence	254534	Ground	60	68	55	56	57	57
Residence	254533	Ground	60	68	45	45	51	52
Residence	254531	Ground	60	68	40	41	57	57
Residence	254535	Ground	60	68	43	43	53	53
Residence	254539	Ground	60	68	54	54	55	56
Residence	254536	Ground	60	68	55	55	56	56
Residence	254537	Ground	60	68	41	41	60	60
Residence	254540	Ground	60	68	52	53	55	55
Residence	254542	Ground	60	68	45	45	52	52
Residence	254546	Ground	60	68	50	51	55	55
Residence	254549	Ground	60	68	50	50	55	55
Residence	254551	Ground	60	68	59	59	61	62
Residence	254550	Ground	60	68	49	50	55	56
Residence	254558	Ground	60	68	59	59	69	69
Residence	254559	Ground	60	68	54	55	67	68



Receptor type	Sensitive receptor	Floor type	CoP Vol 1 road traffic noise criteria LA10(18hour) (dBA)		Predicted LA10(18hour) facade noise level (dBA)			
					New Roads		Upgraded Roads	
			New Roads	Upgraded Roads	2028	2038	2028	2038
Residence	254560	Ground	60	68	45	46	52	52
Residence	254562	Ground	60	68	56	56	69	70
Residence	254562	First	60	68	56	57	69	70
Residence	254565	Ground	60	68	47	47	67	67
Residence	254568	Ground	60	68	45	45	54	55
Residence	254573	Ground	60	68	44	44	56	56
Residence	254576	Ground	60	68	46	47	57	57
Residence	254578	Ground	60	68	43	43	58	58
Residence	254587	Ground	60	68	43	43	61	61
Residence	254589	Ground	60	68	42	43	67	68
Residence	254595	Ground	60	68	44	44	69	69
Residence	254598	Ground	60	68	43	43	68	68
Residence	254594	Ground	60	68	42	42	66	67
Residence	254609	Ground	60	68	52	52	59	59
Residence	254612	Ground	60	68	51	52	56	57
Residence	254614	Ground	60	68	48	49	60	60
Residence	256166	Ground	-	68	-	-	55	55
Residence	260058	Ground	-	68	-	-	57	59
Residence	260067	Ground	-	68	-	-	57	58
Residence	260165	Ground	-	68	-	-	63	65
Residence	260169	Ground	-	68	-	-	69	70
Residence	260189	Ground	-	68	-	-	70	72
Residence	260213	Ground	-	68	-	-	72	73
Residence	260930	Ground	-	68	-	-	58	60
Residence	261084	Ground	-	68	-	-	66	67
Residence	261908	Ground	-	68	-	-	61	62
Residence	261969	Ground	-	68	-	-	62	63
Residence	262034	Ground	-	68	-	-	61	63
Residence	262063	Ground	-	68	-	-	62	64
Residence	262104	Ground	-	68	-	-	64	66
Residence	262181	Ground	-	68	-	-	72	74
Residence	262286	Ground	-	68	-	-	67	69
Residence	323569	Ground	-	68	-	-	56	57



Receptor type	Sensitive receptor	Floor	CoP Vol 1 road traffic noise criteria LA10(18hour) (dBA)		Predicted LA10(18hour) facade noise level (dBA)			
					New Roads		Upgraded Roads	
			New Roads	Upgraded Roads	2028	2038	2028	2038
Residence	323525	Ground	-	68	-	-	58	60
Residence	322790	Ground	63	68	36	37	64	66
Residence	2008318	Ground	63	68	35	37	61	63
Residence	2008319	Ground	63	68	36	38	62	64
Residence	323796	Ground	63	68	38	39	62	64
Residence	323804	Ground	63	68	42	44	62	64
Residence	322665	Ground	63	68	42	43	60	62
Residence	321184	Ground	63	68	41	43	66	67
Residence	323854	Ground	63	68	58	60	62	64
Residence	324333	Ground	-	68	-	-	64	66
Residence	319605	Ground	-	68	-	-	57	58
Residence	320557	Ground	-	68	-	-	71	72
Hotel	321618	Ground	-	68	-	-	63	65
Hotel	320889	Ground	-	68	-	-	63	64
Hotel	320977	Ground	-	68	-	-	56	57
Hotel	322047	Ground	-	68	-	-	62	64

Table 10-7 Predicted LA10(18hour) road traffic noise levels – educational, community and health buildings

Receptor	Sensitive receptor	Floor	New roads criterion	Predicted LA10(1hour) facade noise level (dBA)			
				New Roads		Upgraded Roads	
				2028	2038	2028	2038
Yelarbon Soldiers Memorial Hall	254564	Ground	58	56	57	72	73
Yelarbon Fire Station	254592	Ground	58	47	47	70	71
Pampas Memorial Hall	260123	Ground	-	-	-	74	75
Brookstead Community Hall	262035	Ground	-	-	-	64	65
Yelarbon State School	254515	Ground	58	48	48	55	55
Brookstead State School	261795	Ground	-	-	-	62	63



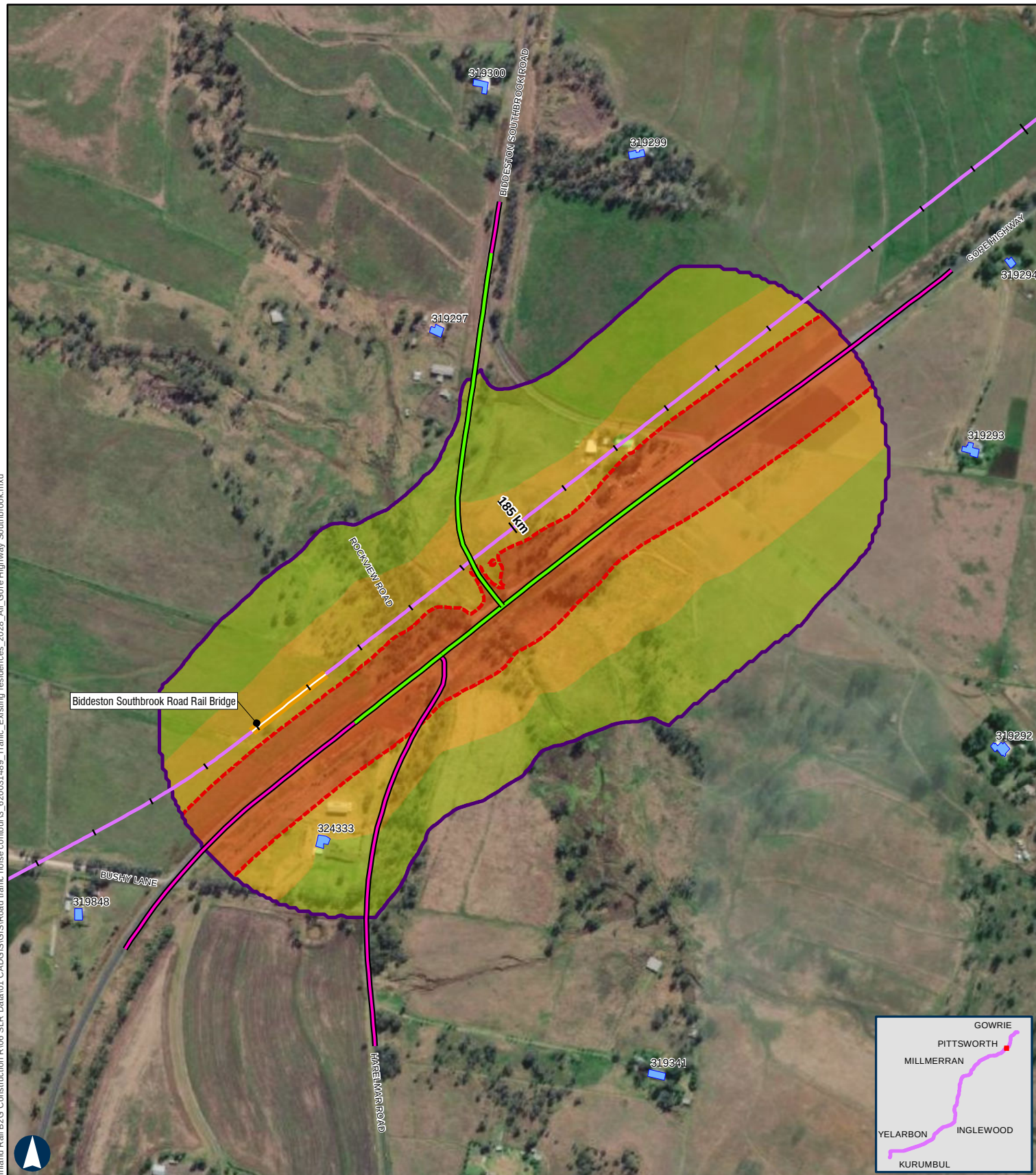
APPENDIX

V

Noise and Vibration Assessment—Construction and Road Traffic

Appendix J Predicted operational road traffic noise level contours

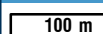
BORDER TO GOWRIE REVISED DRAFT ENVIRONMENTAL IMPACT STATEMENT



BORDER TO GOWRIE

Existing Residences - Year 2028 - All Assessment Roads
Gore Highway Southbrook

APPENDIX J



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Author: JG

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- | | | |
|---|-------------------------------|---|
|  | Level Crossings | Sensitive Receptor Type |
|  | Flying Fox Camp |  Residential |
|  | Modelled Road with Road Works |  Community |
|  | All Assessment Roads |  Educational |
|  | Project Extent |  Commercial |
|  | Crossing Loops |  Parkland |
|  | Bridges and Viaducts |  Future Developments |
|  | Rail Alignment/
Centreline | |
|  | Koala Habitat Area | |

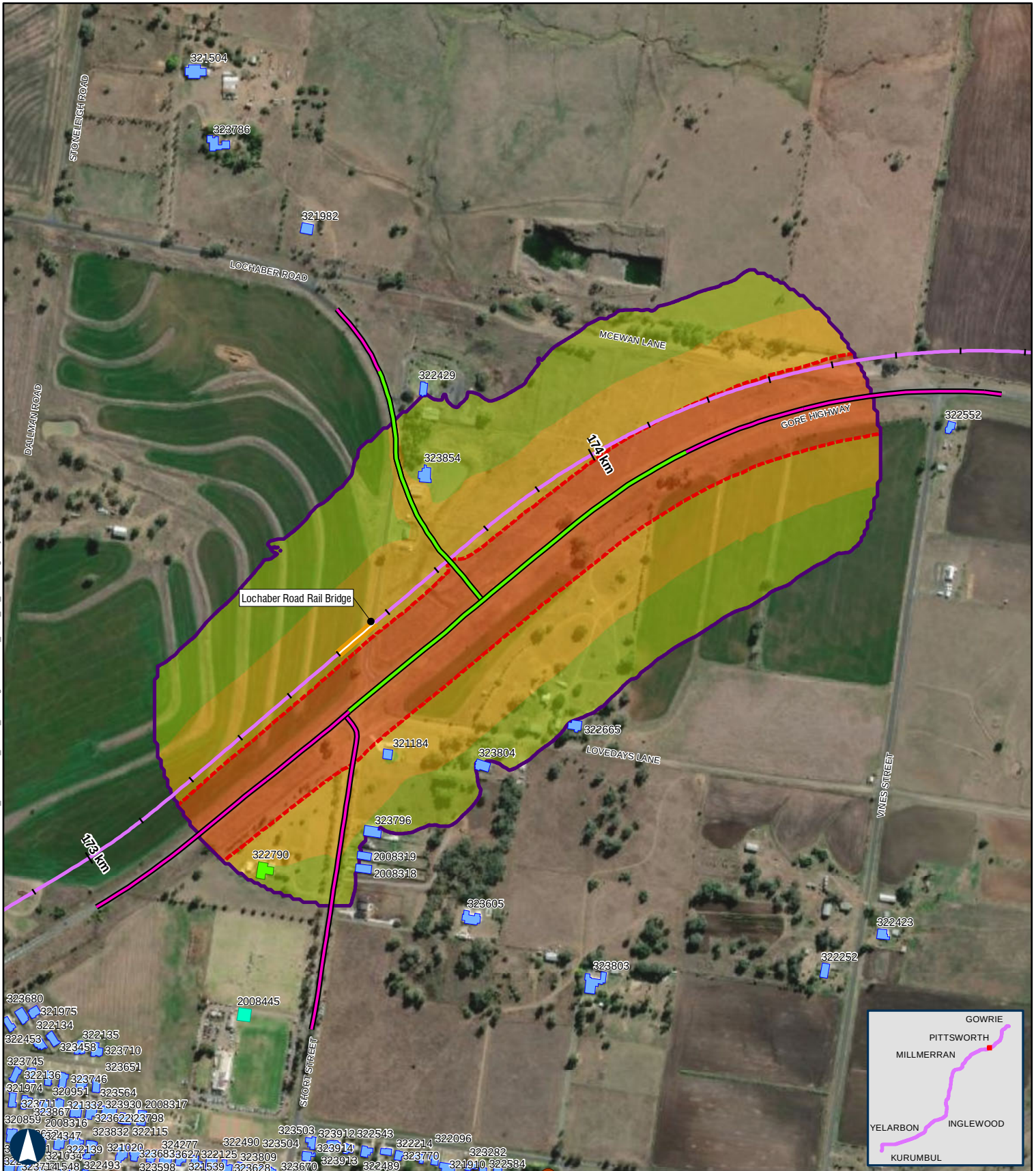
-  Criteria Line
 Modelled Area
- Noise Levels (dBA)**
-  ≤ 60
 60 - 63
 63 - 68
 > 68



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BORDER TO GOWRIE

Existing Residences - Year 2028 - All Assessment Roads Gore Highway & Lochaber Road

APPENDIX J

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- ✗ Level Crossings
- Flying Fox Camp
- Modelled Road with Road Works
- All Assessment Roads
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨ Koala Habitat Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Criteria Line

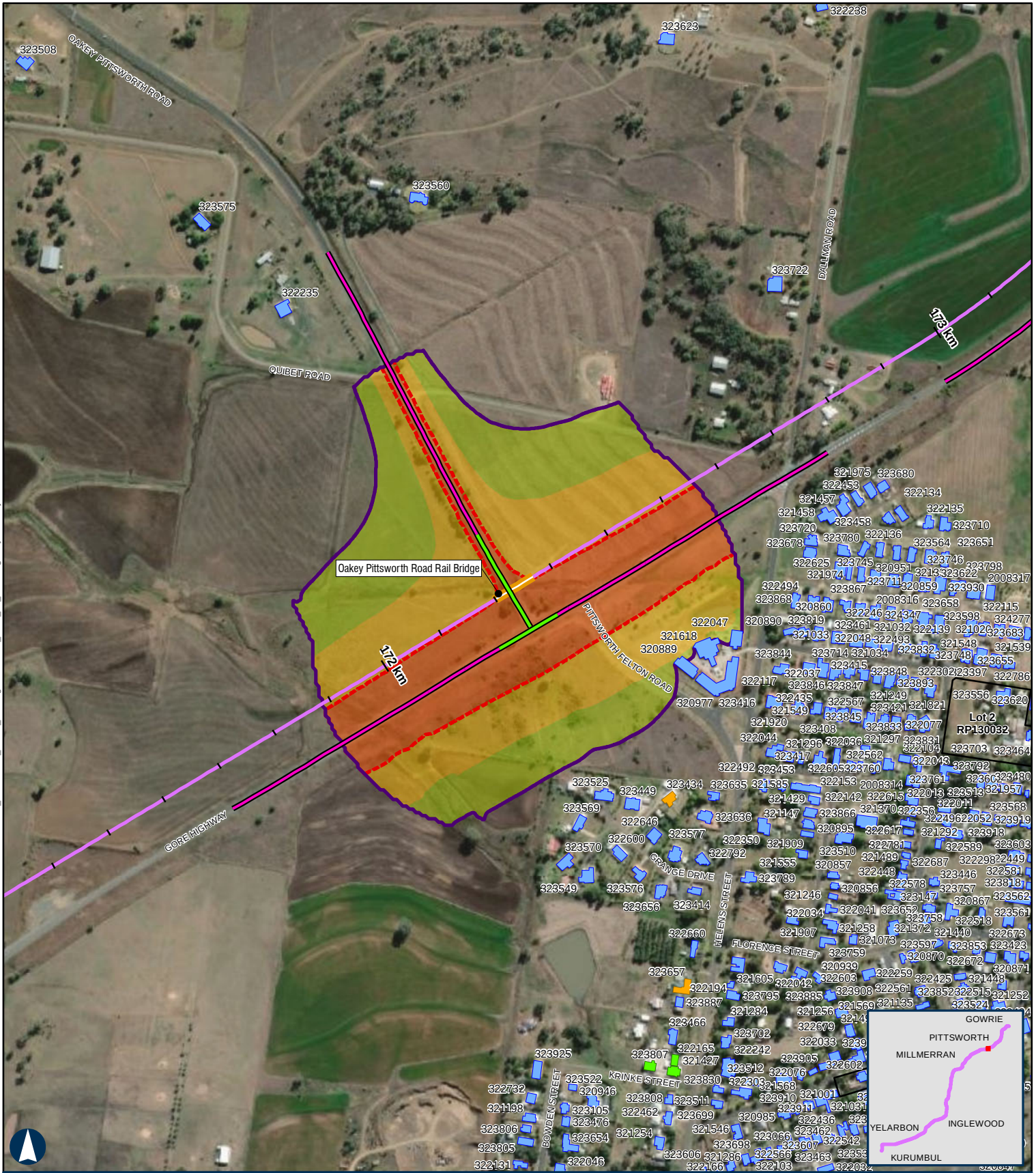
Modelled Area

Noise Levels (dBA)

- ≤ 60
- 60 - 63
- 63 - 68
- > 68

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BORDER TO GOWRIE

Existing Residences - Year 2028 - All Assessment Roads Gore Highway & Oakley Pittsworth Road

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- ✗ Level Crossings
- Flying Fox Camp
- Modelled Road with Road Works
- All Assessment Roads
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Koala Habitat Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

- Criteria Line
- Modelled Area

Noise Levels (dBA)

- ≤ 60
- 60 - 63
- 63 - 68
- > 68

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BORDER TO GOWRIE

Existing Residences - Year 2028 - All Assessment Roads Gore Highway Pampas

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✕ Level Crossings

● Flying Fox Camp

— Modelled Road with Road Works

— All Assessment Roads

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/ Centreline

▨ Koala Habitat Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Criteria Line

Modelled Area

Noise Levels (dBA)

≤ 60

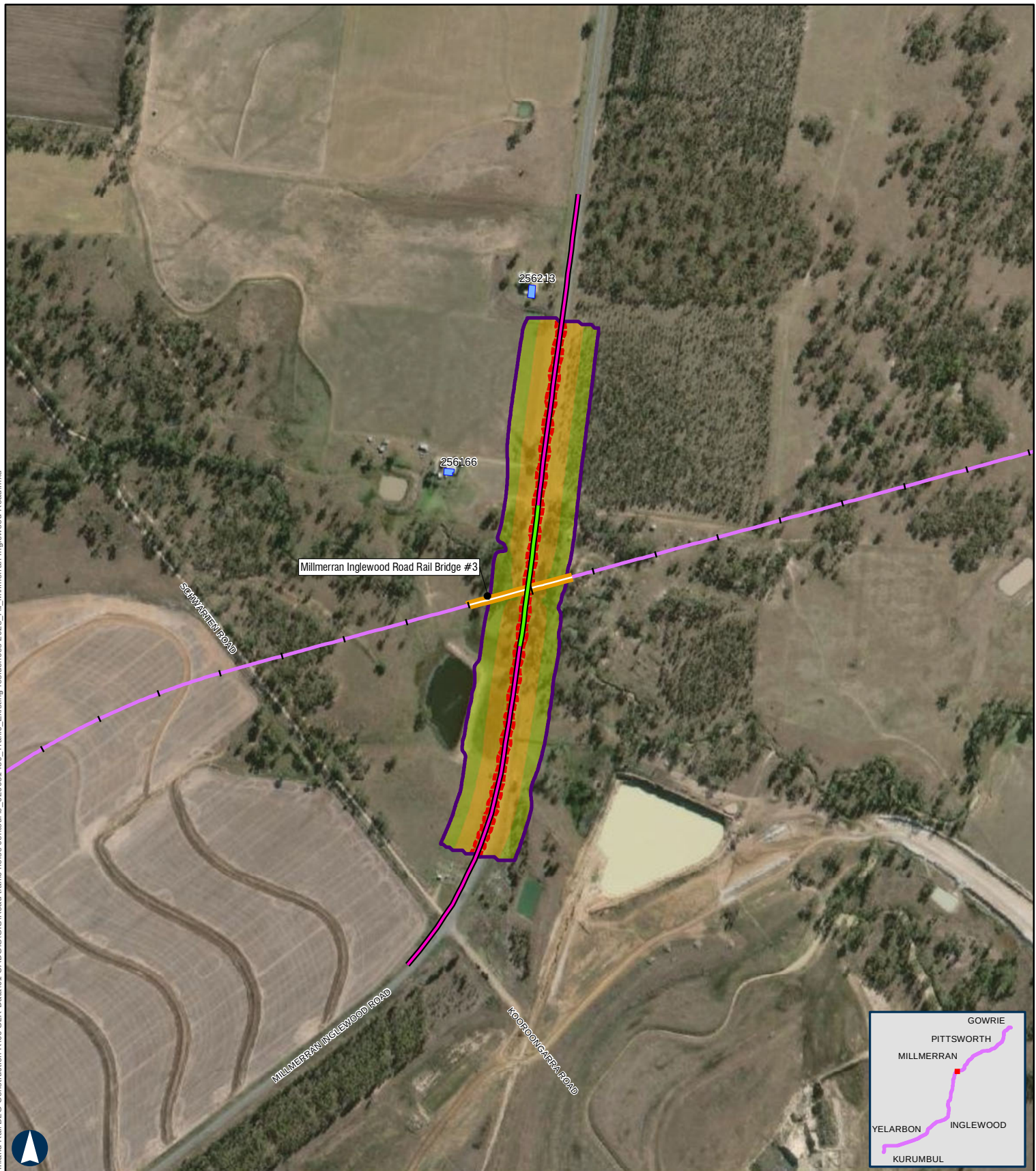
60 - 63

63 - 68

> 68

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BORDER TO GOWRIE

Existing Residences - Year 2028 - All Assessment Roads

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✗ Level Crossings

 Flying Fox Camp

_____ Modelled Road with

— Road Works
— All Assessment Roads

— Project Extent
— Crossing Loops

Bridges and Viaducts

 Rail Alignment
Centreline

 Koala Habitat Area

Sensitive Receptor Type

Residential

 Community

 Educational

 Commercial

 Parkland

Future Developments

 Criteria Line

 Modelled Area

Noise Levels (dBA)

☐ <= 60

60 - 63

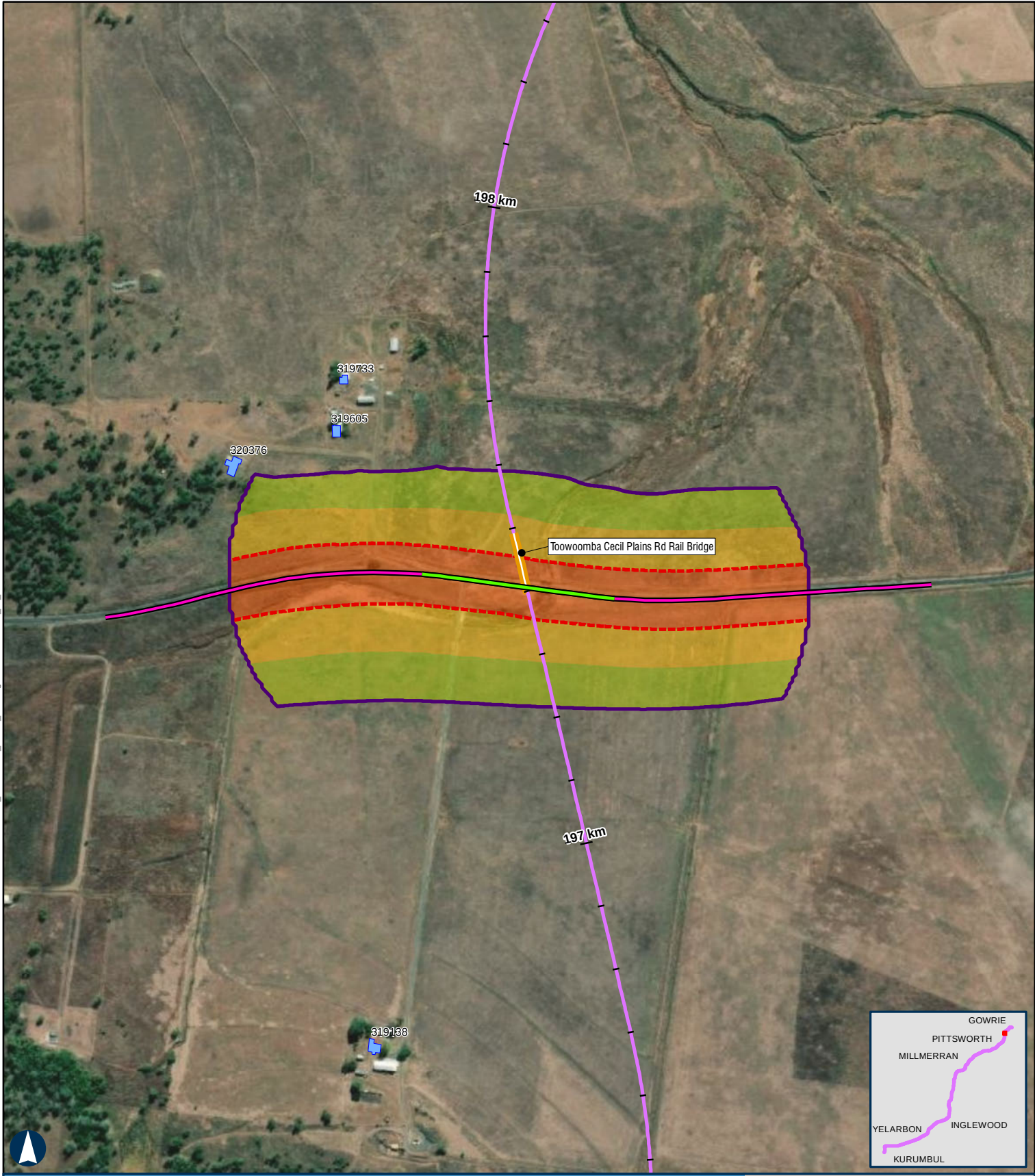
63 - 68

■ > 68

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BORDER TO GOWRIE

**Existing Residences - Year 2038 - All Assessment Roads
Toowoomba Cecil Plains Road**

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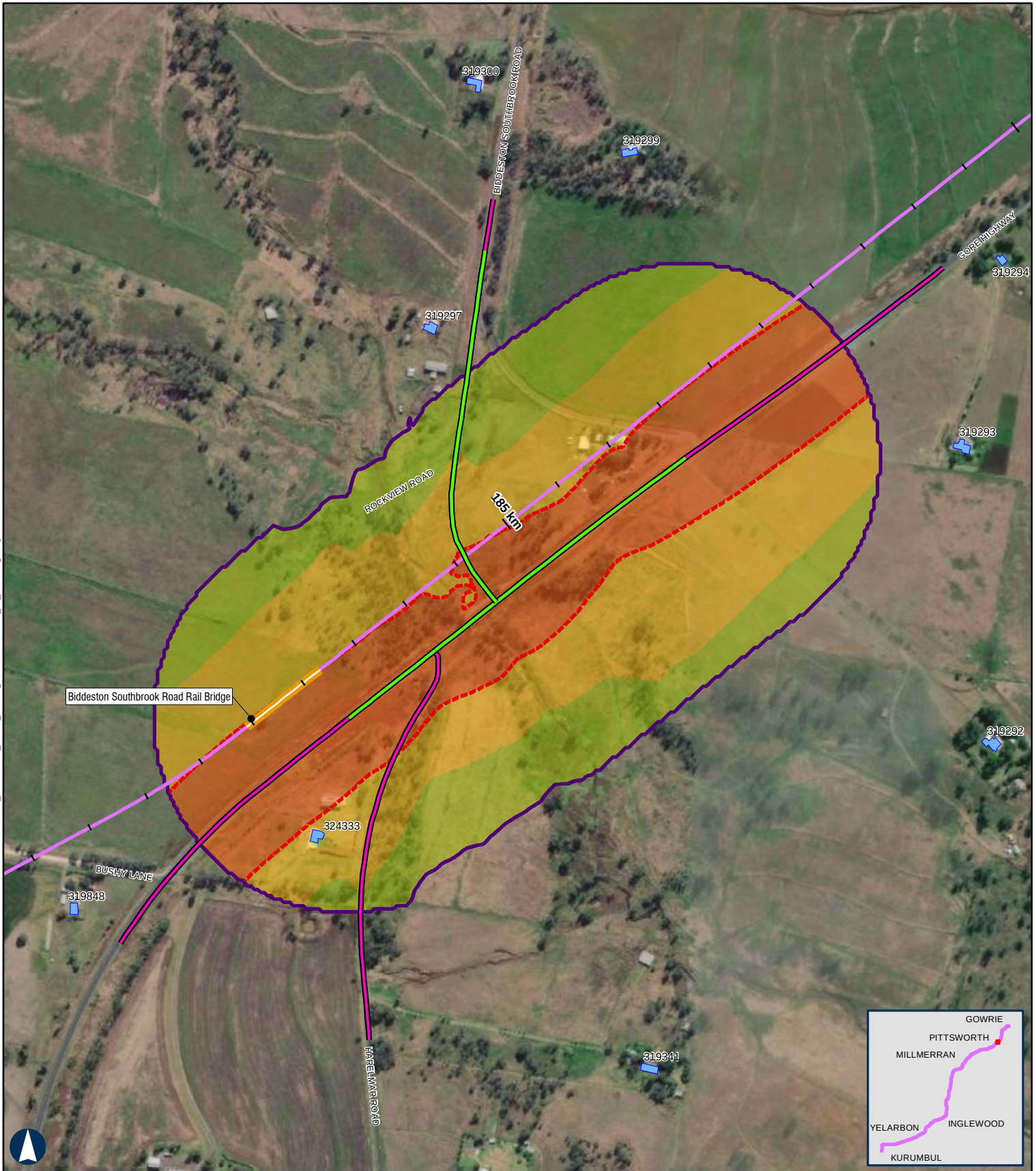
- ✗ Level Crossings
 - Flying Fox Camp
 - Modelled Road with Road Works
 - All Assessment Roads
 - Project Extent
 - Crossing Loops
 - Bridges and Viaducts
 - Rail Alignment/ Centreline
 - ▨ Koala Habitat Area
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Criteria Line
 - Modelled Area
- Noise Levels (dBA)**
- <= 60
 - 60 - 63
 - 63 - 68
 - > 68



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BORDER TO GOWRIE

Existing Residences - Year 2038 - All Assessment Roads
Gore Highway Southbrook

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✕ Level Crossings

● Flying Fox Camp

— Modelled Road with Road Works

— All Assessment Roads

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/ Centreline

— Koala Habitat Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

— Criteria Line

— Modelled Area

Noise Levels (dBA)

≤ 60

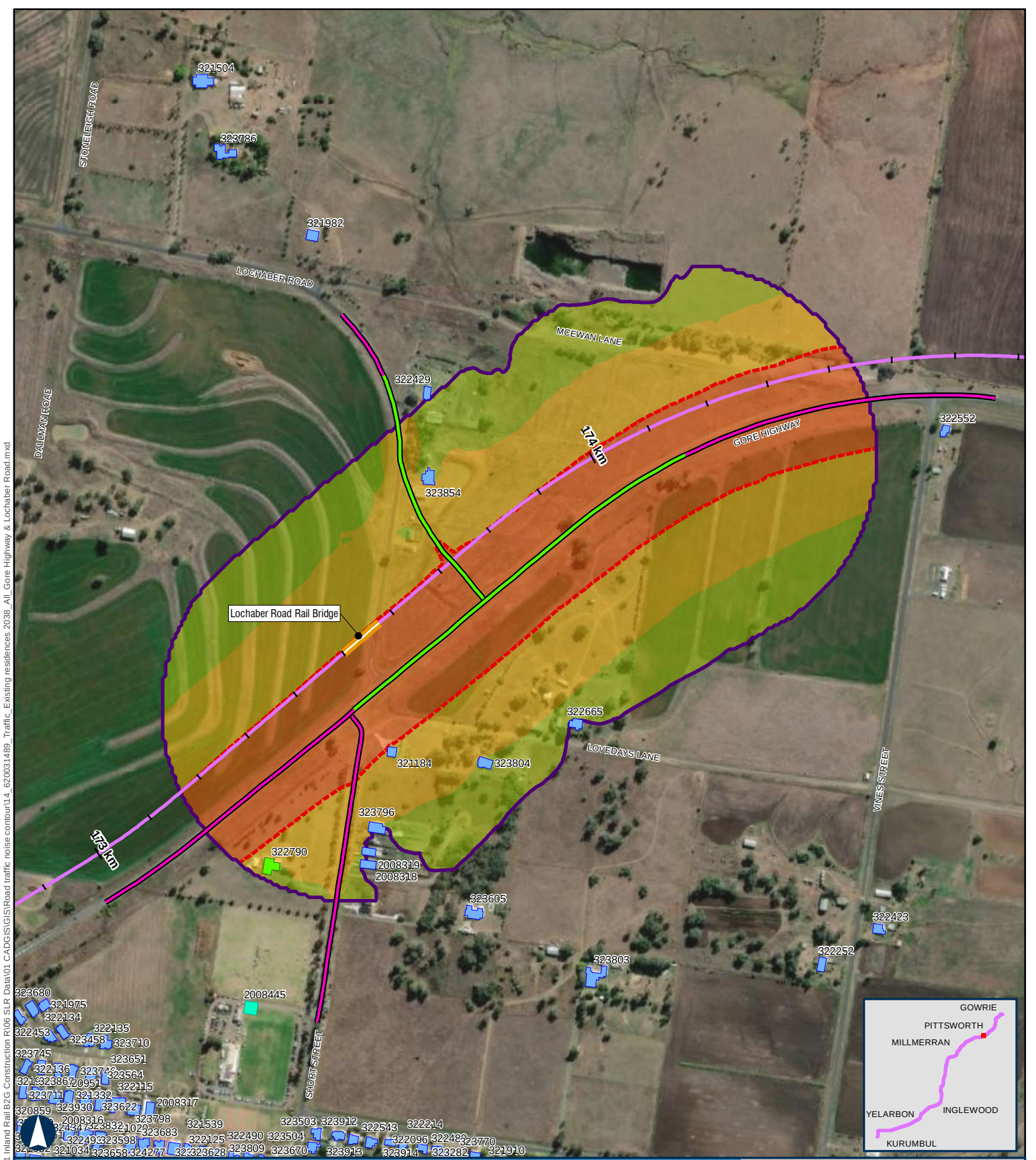
60 - 63

63 - 68

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BORDER TO GOWRIE

**Existing Residences - Year 2038 - All Assessment Roads
Gore Highway & Lochaber Road**

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✗ Level Crossings

● Flying Fox Camp

— Modelled Road with Road Works

— All Assessment Roads

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/ Centreline

▨ Koala Habitat Area

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Future Developments

Criteria Line

Modelled Area

Noise Levels (dBA)

≤ 60

60 - 63

63 - 68

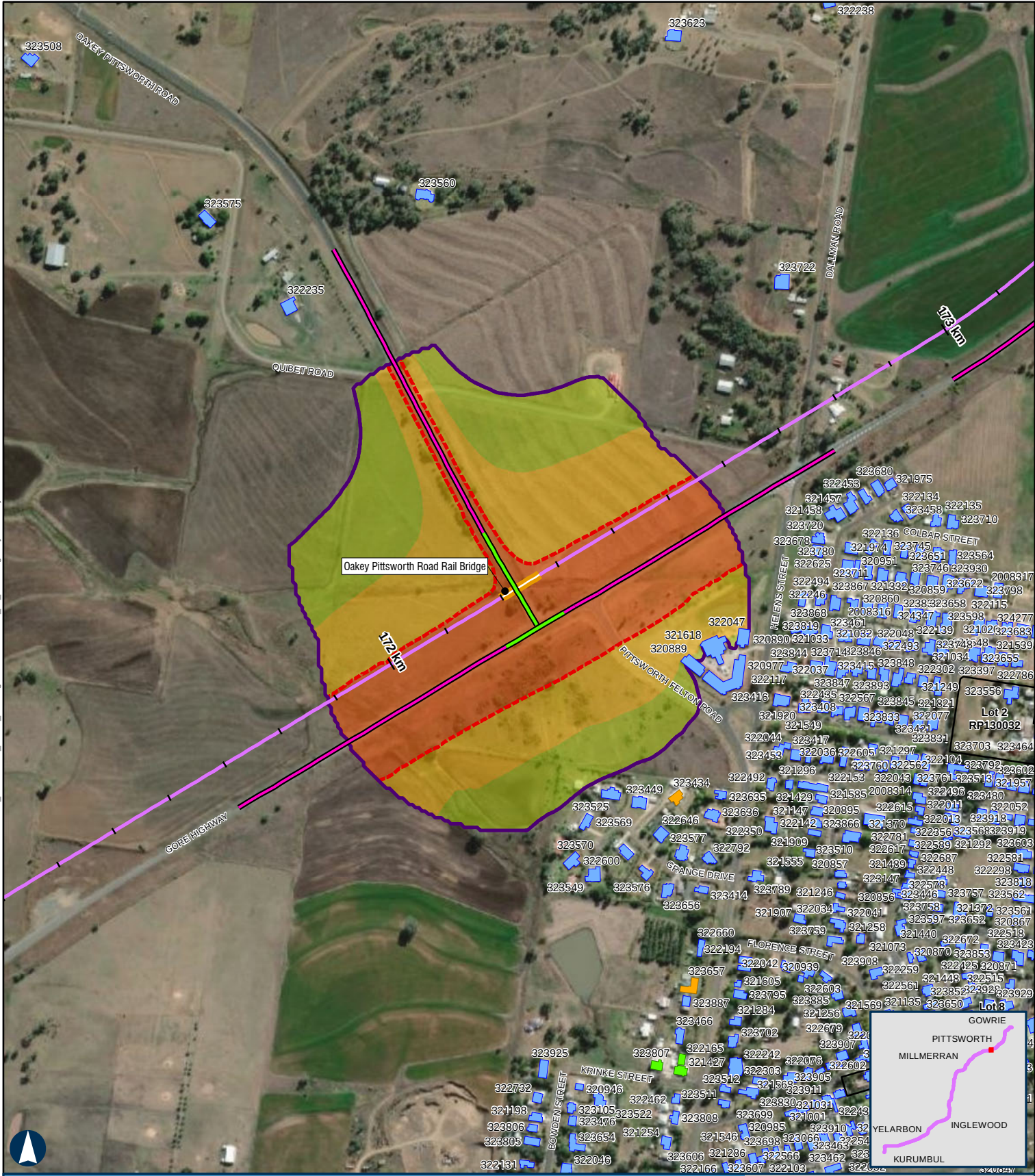
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BORDER TO GOWRIE

**Existing Residences - Year 2038 - All Assessment Roads
Gore Highway & Oakey Pittsworth Road**

APPENDIX J

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- ✗

Level Crossings
- Flying Fox Camp
- Modelled Road with Road Works
- All Assessment Roads
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- ▨

Koala Habitat Area

Sensitive Receptor Type

■

Residential

■

Community

■

Educational

■

Commercial

■

Parkland

□

Future Developments

Criteria Line

Modelled Area

Noise Levels (dBA)

■

<= 60

■

60 - 63

■

63 - 68

■

> 68

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BORDER TO GOWRIE

Existing Residences - Year 2038 - All Assessment Roads
Gore Highway Brookstead

APPENDIX J

100 m

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- Level Crossings
- Flying Fox Camp
- Modelled Road with Road Works
- All Assessment Roads
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Koala Habitat Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

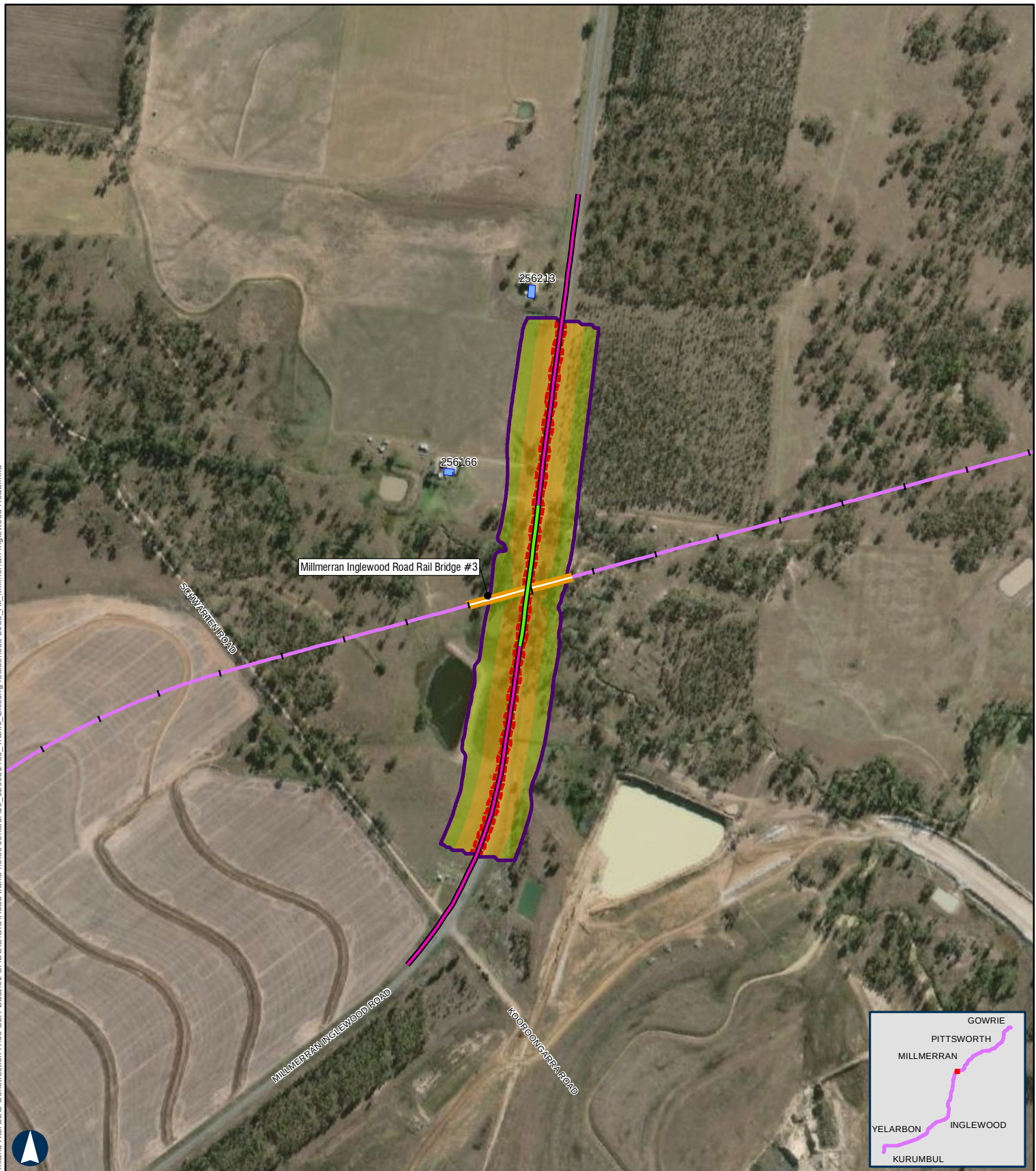
- Criteria Line
- Modelled Area

Noise Levels (dBA)

- ≤ 60
- 60 - 63
- 63 - 68
- > 68

ARTC **InlandRail**

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BORDER TO GOWRIE

Existing Residences - Year 2038 - All Assessment Roads

APPENDIX J

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4
Date: 15-Nov-2024
Author: JG

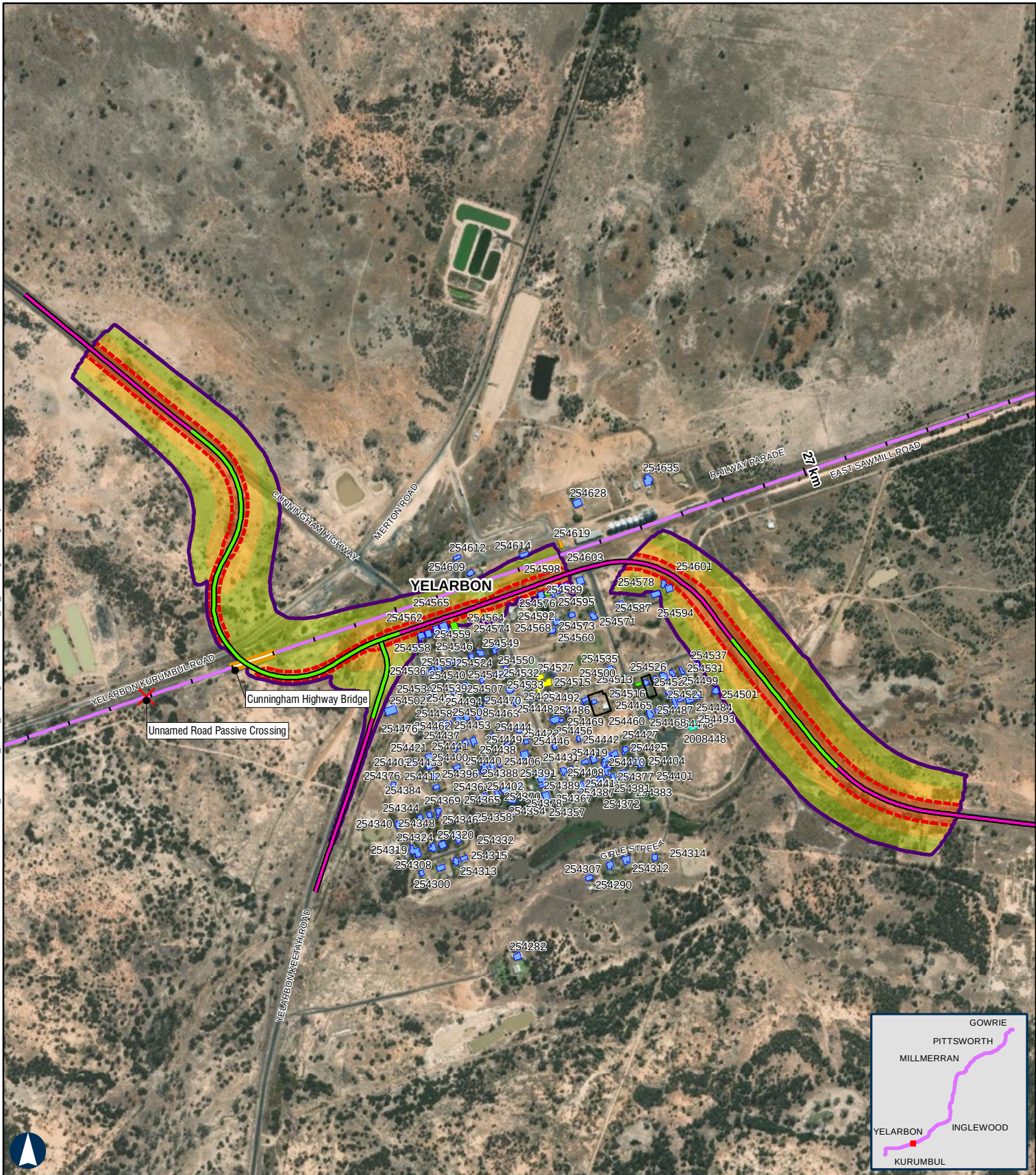
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-
- Legend**
- Level Crossings
 - Flying Fox Camp
 - Modelled Road with Road Works
 - All Assessment Roads
 - Project Extent
 - Crossing Loops
 - Bridges and Viaducts
 - Rail Alignment/ Centreline
 - Koala Habitat Area
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

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\\au.sif.local\Corporate\Projects\SLR\620-BNE\620-BNE\620-BNE\GIS\GISData\01_Inland_Rail\B2G_Construction\R06_SLR_Data\01_CAD\GIS\GISData\Traffic_Existing_residences_2038_All_Cunningham_Highway_Yelarbon.mxd



BORDER TO GOWRIE

Existing Residences - Year 2038 - All Assessment Roads Cunningham Highway Yelarbon

APPENDIX J

100 m

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Author: JG

Scale: 1:12,000

✗ Level Crossings

● Flying Fox Camp

— Modelled Road with Road Works

— All Assessment Roads

— Project Extent

— Crossing Loops

— Bridges and Viaducts

— Rail Alignment/
Centreline

▨ Koala Habitat Area

Sensitive Receptor Type

Residential
Community
Educational
Commercial
Parkland
Future Developments

Criteria Line

Modelled Area

Noise Levels (dBA)

≤ 60
60 - 63
63 - 68
> 68

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\\au.slir.local\Corporate\Projects\SLIR\620-BNE\620-BNE\031489-00001\Inland Rail B2G Construction R106 SLR Data\01 CAD\GIS\GISRoad traffic noise contour25_620031489_Traffic_ECH 2028_Alt_Pampas.mxd



BORDER TO GOWRIE

Educational, Community and Health Buildings - Year 2028
All Assessment Roads - Pampas

APPENDIX J

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

Scale: 1:8,000

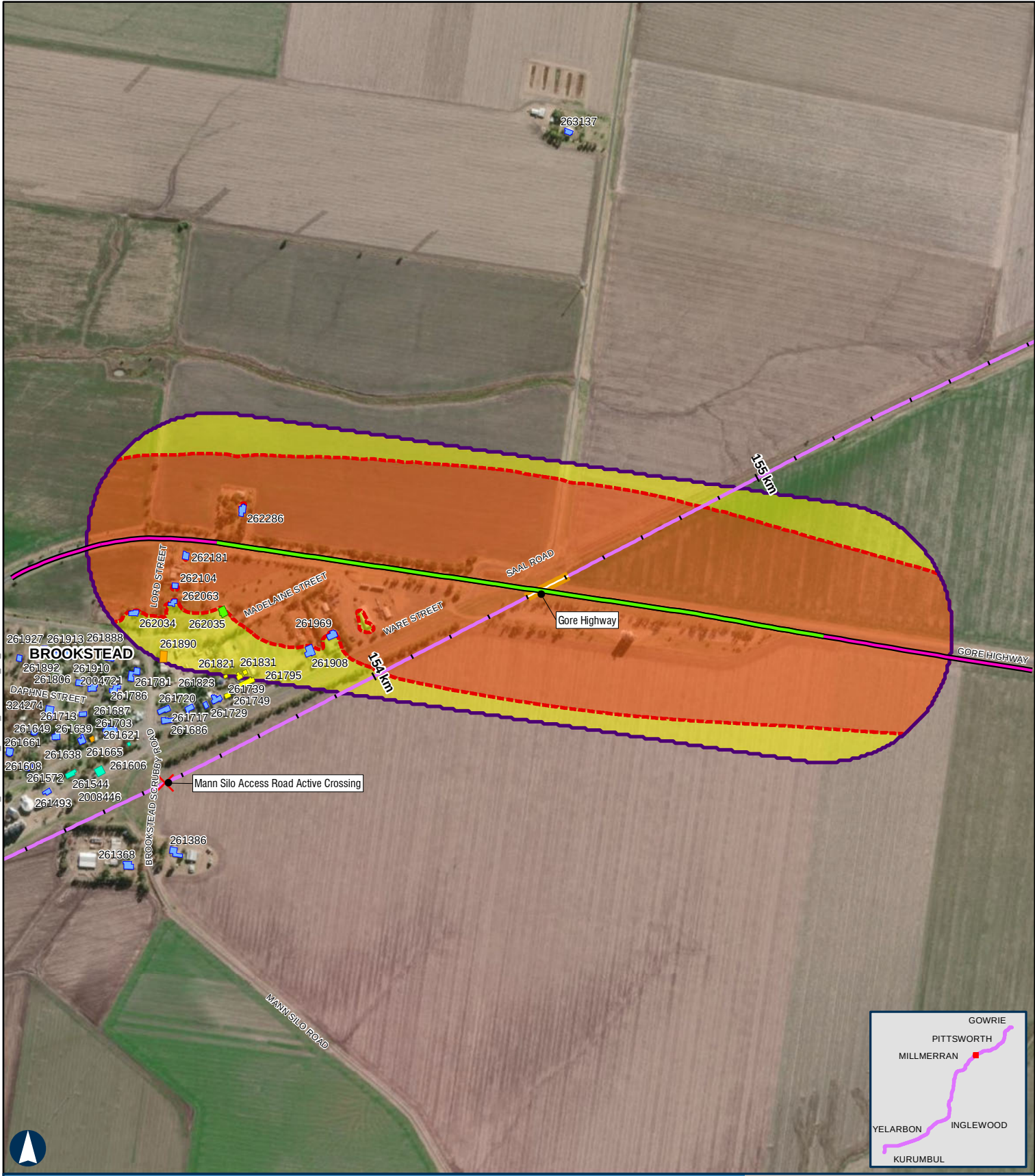
- ✕ Level Crossings
 - Flying Fox Camp
 - Modelled Road with Road Works
 - All Assessment Roads
 - Project Extent
 - Crossing Loops
 - Bridges and Viaducts
 - Rail Alignment/ Centreline
 - ▨ Koala Habitat Area
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Criteria Line
 - Modelled Area
- Noise Levels (dBA)**
- <= 57
 - 57 - 65
 - > 65

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\\au.sif.local\Corporate\Projects\SLR\620-BNE\620-031489-00001\Inland Rail B2G Construction R06 SLR Data\01 CAD\GIS\GISRoad traffic noise contour25_620031489_Traffic_ECH 2008 - All Brookstead.mxd



BORDER TO GOWRIE

Educational, Community and Health Buildings - Year 2038 All Assessment Roads - Brookstead

APPENDIX J

100 m

Coordinate System: GDA 1994 MGA Zone 56

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- ✗ Level Crossings
 - Flying Fox Camp
 - Modelled Road with Road Works
 - All Assessment Roads
 - Project Extent
 - Crossing Loops
 - Bridges and Viaducts
 - Rail Alignment/ Centreline
 - ▨ Koala Habitat Area
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Criteria Line
- Modelled Area
- Noise Levels (dBA)**
- ≤ 57
 - 57 - 65
 - > 65

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BORDER TO GOWRIE

Educational, Community and Health Buildings - Year 2038

All Assessment Roads - Pampas

APPENDIX J

100 m

Coordinate System: GDA 1994 MGA Zone 56

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✗ Level Crossings

 Flying Fox Camp

 Modelled Road with Road Works

■ All Assessment Roads

— Project Extent
— Crossing Loops

Bridges and Viaducts

Rail Alignment/

 Koala Habitat Area

Sensitive Receptor Type

 Residential

Community

Community

Educational

Educational

Commercial

 Commerce
 Parkland

Future Developments

 Criteria Line

 Modelled Area

Noise Levels (dBA)

☐ <= 57

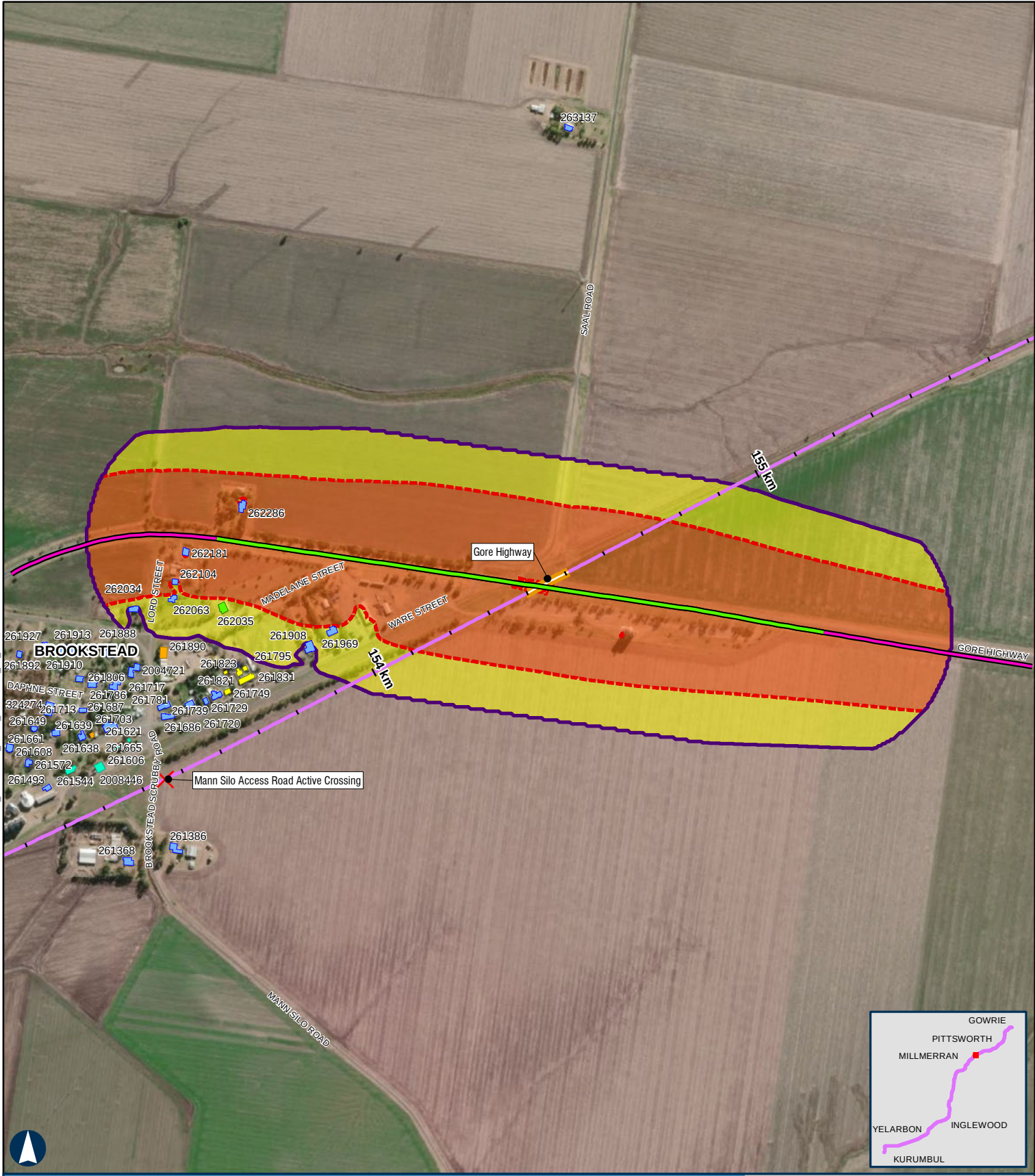
57 - 65

 61-65
 ≥ 65

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\\au.sif.local\Corporate\Projects\SLR\620-BNE\620-031489-00001\Inland Rail B2G Construction R06 SLR Data\01 CAD\GIS\GISRoad traffic noise contour\01_620031489_Traffic_OED 2028_All Brookstead.mxd



BORDER TO GOWRIE Outdoor Educational and Passive Recreational Areas
Year 2028 - All Assessment Roads - Brookstead

APPENDIX J

100 m

Coordinate System: GDA 1994 MGA Zone 56

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- ✗ Level Crossings
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 - Project Extent
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 - Rail Alignment/ Centreline
 - ▨ Koala Habitat Area
- Sensitive Receptor Type**
- Residential
 - Community
 - Educational
 - Commercial
 - Parkland
 - Future Developments

- Criteria Line
 - Modelled Area
- Noise Levels (dBA)**
- <= 60
 - 60
 - > 63

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