

| Optimisation Capital Expenditure Projects in 2019/2020           |                                                                                                                |                                                                                                                                               |                              |
|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| Location                                                         | Intervention                                                                                                   | Purpose of Project                                                                                                                            | Phase completed in 2019/2020 |
| Otahuhu Town Centre Upgrade - Great South Road / Princess Street | Intersection signalisation                                                                                     | Improve provision for active modes and overall intersection improvement in a town centre environment                                          | Construction                 |
| Redoubt Road                                                     | Dynamic lane                                                                                                   | General vehicle and bus efficiency improvement                                                                                                | Construction                 |
| Gossamer Dr / Ti Rakau Dr                                        | Introduce dual right turn lane on Ti Rakau Dr into Gossamer Dr                                                 | Ease congestion on Ti Rakau Drive                                                                                                             | Construction                 |
| Felton Matthew Avenue / St Johns Road                            | Intersection signalisation                                                                                     | Improve pedestrian connectivity and overall efficiency of the intersection                                                                    | Construction                 |
| Glenfield Road / Bentley Avenue                                  | Additional crosswalk on the eastern approach, raised table across slip lane                                    | Pedestrian connectivity improvement in local centre                                                                                           | Construction                 |
| James Fletcher Drive / Saville Drive                             | Add additional through lane at intersection                                                                    | Ease congestion particularly for freight                                                                                                      | Construction                 |
| Cascades Road / Aviemore Drive                                   | Roundabout Metering                                                                                            | Improve general vehicle throughput                                                                                                            | Construction                 |
| SH1 / Mt Wellington Highway                                      | Double right turn onto motorway onramp with new pedestrian crossing facilities                                 | To facilitate improved freight vehicle movements and improve pedestrian crossings                                                             | Construction                 |
| Birkenhead Avenue T3                                             | T3 - Special Vehicle Lane                                                                                      | Improve people movement                                                                                                                       | Construction                 |
| Variable Messaging signs                                         | Install three VMS signs                                                                                        | Improve vehicle travel time and reliability                                                                                                   | Construction                 |
| Takapuna Town Centre                                             | Hurstmere Road / Lake Road Intersection Improvements and Hurstmere Road / Anzac Street Roundabout improvements | Improve pedestrian connectivity and level of service in a town centre                                                                         | Construction                 |
| Wellersley Street / Sale Street West                             | Signalisation                                                                                                  | Improve pedestrian connectivity                                                                                                               | Construction                 |
| Highbrook Drive                                                  | Roundabout Installation                                                                                        | Improve freight and general vehicle throughput                                                                                                | Design                       |
| Trugood Drive / Cryers Road                                      | Roundabout Installation                                                                                        | Improve freight and general vehicle throughput                                                                                                | Design                       |
| Hill Road / Charles Prevost Drive                                | Intersection improvements                                                                                      | Improve general vehicle throughput                                                                                                            | Design                       |
| Triangle Road / Maioro Street / Patiki Street                    | Select one dynamic lane after investigation of the three sites                                                 | Improve vehicle and freight efficiency as well as safety at Triangle                                                                          | Design                       |
| The Strand                                                       | Special Vehicle Lane                                                                                           | Complex project to improve freight movements and accommodate cycling in the lower Strand and across Tamaki Road, with removal of some Parking | Design                       |
| Alfriston Road / Magic Way                                       | Intersection improvements                                                                                      | Relieve Congestion and improve pedestrian connectivity                                                                                        | Design                       |