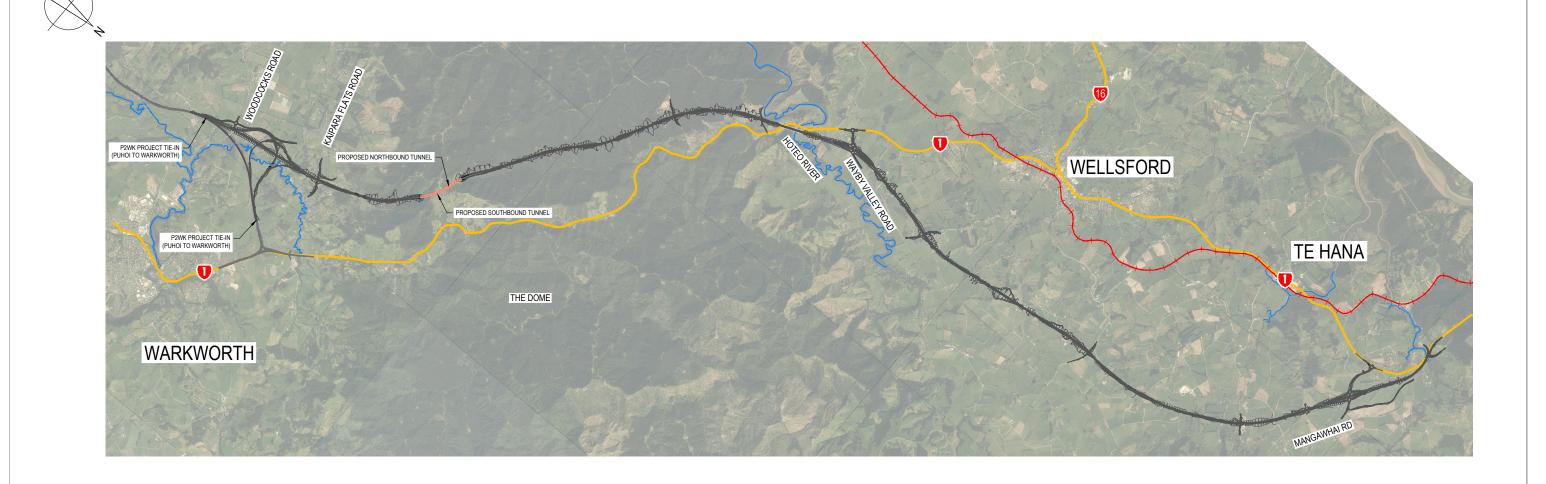




WARKWORTH TO WELLSFORD PROJECT VOLUME 3 - DRAWING SET





| rawing Iumber | DRAWING TITLE | DRAWING NUMBER | DRAWING | TITLE | DRAWING NUMBER | | DRAWING TITLE |
|------------------|--|-------------------|---|---|------------------------|-----------------------|--|
| | GENERAL | SW-031 | OPERATIONAL WATER MANAGEMENT - WATER MANAGE | MENT PLAN - SHEET 21 OF 23 | ME-020 | MAHURANGI SEDIMEN | T DEPOSITION SCENARIO |
| G-001 | COVER SHEET & LOCATION OF PROPOSED PROJECT | SW-032 | OPERATIONAL WATER MANAGEMENT - WATER MANAGE | MENT PLAN - SHEET 22 OF 23 | ME-021 | | T DEPOSITION SCENARIO |
| G-002 | DRAWING INDEX - SHEET 1 OF 2 | SW-033 | OPERATIONAL WATER MANAGEMENT - WATER MANAGE | | ME-022 | KAIPARA SEDIMENT DE | |
| G-003 | DRAWING INDEX - SHEET 2 OF 2 | | | | ME-022 | KAIPARA SEDIMENT DE | |
| G-000 G-010 | GENERAL NOTES AND LEGEND - SHEET 1 OF 1 | | ENVIRONMENTAL SPECIALIST DRAWINGS | | ME-023 | KAIPARA SEDIMENT DE | |
| 0.010 | | | LIVINONIMENTAL OF LOTALIOT DRAWINGS | | | | |
| | | | | | ME-025 | KAIPARA SEDIMENT DE | |
| | ENGINEERING DESIGN DRAWINGS | 014/ 004 | CONSTRUCTION WATER MANAGEMENT CONSTRUCTION WATER MANAGEMENT - DRAWING INDI | | ME-026 | KAIPARA SEDIMENT DE | |
| | | CW-001 | CONSTRUCTION WATER MANAGEMENT - DRAWING IND | EX, NOTES AND LEGEND | ME-027 | KAIPARA SEDIMENT DE | POSITION SCENARIO |
| | PROPOSED DESIGNATION & INDICATIVE ALIGNMENT | | | | | | |
| R-001 | PROPOSED DESIGNATION & INDICATIVE ALIGNMENT NOTES AND LEGEND - SHEET 1 OF 1 | CW-011 | CONSTRUCTION WATER MANAGEMENT - CONCEPT PLA | | | OPERATIONAL NC | DISE DRAWINGS |
| | | CW-012 | CONSTRUCTION WATER MANAGEMENT - CONCEPT PLA | N - SHEET 2 OF 23 | ON-010 | OPERATIONAL NOISE A | SSESSMENT NOISE CONTOUR MAP - SHEET 1 OF 16 |
| R-100 | PROPOSED DESIGNATION & INDICATIVE ALIGNMENT PLAN - SHEET LAYOUT (1:5000) - SHEET 1 OF 1 | CW-013 | CONSTRUCTION WATER MANAGEMENT - CONCEPT PLA | N - SHEET 3 OF 23 | ON-011 | OPERATIONAL NOISE A | SSESSMENT NOISE CONTOUR MAP - SHEET 2 OF 16 |
| R-101 | PROPOSED DESIGNATION & INDICATIVE ALIGNMENT PLAN - SHEET 1 OF 9 | CW-014 | CONSTRUCTION WATER MANAGEMENT - CONCEPT PLA | N - SHEET 4 OF 23 | ON-012 | OPERATIONAL NOISE A | SSESSMENT NOISE CONTOUR MAP - SHEET 3 OF 16 |
| R-102 | PROPOSED DESIGNATION & INDICATIVE ALIGNMENT PLAN - SHEET 2 OF 9 | CW-015 | CONSTRUCTION WATER MANAGEMENT - CONCEPT PLA | N - SHEET 5 OF 23 | ON-013 | OPERATIONAL NOISE A | SSESSMENT NOISE CONTOUR MAP- SHEET 4 OF 16 |
| R-103 | PROPOSED DESIGNATION & INDICATIVE ALIGNMENT PLAN - SHEET 3 OF 9 | CW-016 | CONSTRUCTION WATER MANAGEMENT - CONCEPT PLA | N - SHEET 6 OF 23 | ON-014 | | SSESSMENT NOISE CONTOUR MAP - SHEET 5 OF 16 |
| R-104 | PROPOSED DESIGNATION & INDICATIVE ALIGNMENT PLAN - SHEET 4 OF 9 | CW-017 | CONSTRUCTION WATER MANAGEMENT - CONCEPT PLA | | ON-015 | | SSESSMENT NOISE CONTOUR MAP - SHEET 6 OF 16 |
| R-105 | PROPOSED DESIGNATION & INDICATIVE ALIGNMENT PLAN - SHEET 5 OF 9 | CW-018 | CONSTRUCTION WATER MANAGEMENT - CONCEPT PLA | | ON-016 | | SSESSMENT NOISE CONTOUR MAP - SHEET 7 OF 16 |
| R-105 | PROPOSED DESIGNATION & INDICATIVE ALIGNMENT PLAN - SHEET 6 OF 9 | CW-010 | CONSTRUCTION WATER MANAGEMENT - CONCEPT PLA | | | | |
| | | | | | ON-017 | | SSESSMENT NOISE CONTOUR MAP - SHEET 8 OF 16 |
| R-107 | PROPOSED DESIGNATION & INDICATIVE ALIGNMENT PLAN - SHEET 7 OF 9 | CW-020 | CONSTRUCTION WATER MANAGEMENT - CONCEPT PLA | | ON-018 | | SSESSMENT NOISE CONTOUR MAP - SHEET 9 OF 16 |
| R-108 | PROPOSED DESIGNATION & INDICATIVE ALIGNMENT PLAN - SHEET 8 OF 9 | CW-021 | CONSTRUCTION WATER MANAGEMENT - CONCEPT PLA | | ON-019 | | SSESSMENT NOISE CONTOUR MAP - SHEET 10 OF 16 |
| R-109 | PROPOSED DESIGNATION & INDICATIVE ALIGNMENT PLAN - SHEET 9 OF 9 | CW-022 | CONSTRUCTION WATER MANAGEMENT - CONCEPT PLA | | ON-020 | OPERATIONAL NOISE A | SSESSMENT NOISE CONTOUR MAP - SHEET 11 OF 16 |
| | | CW-023 | CONSTRUCTION WATER MANAGEMENT - CONCEPT PLA | N - SHEET 13 OF 23 | ON-021 | OPERATIONAL NOISE A | SSESSMENT NOISE CONTOUR MAP - SHEET 12 OF 16 |
| R-130 | SOUTHBOUND ALIGNMENT MCS0 - SHEET LAYOUT PLAN (1:5000) - SHEET 1 OF 1 | CW-024 | CONSTRUCTION WATER MANAGEMENT - CONCEPT PLA | N - SHEET 14 OF 23 | ON-022 | OPERATIONAL NOISE A | SSESSMENT NOISE CONTOUR MAP - SHEET 13 OF 16 |
| R-131 | SOUTHBOUND ALIGNMENT MCS0 - PLAN AND LONGITUDINAL SECTION - SHEET 1 OF 9 | CW-025 | CONSTRUCTION WATER MANAGEMENT - CONCEPT PLA | N - SHEET 15 OF 23 | ON-023 | OPERATIONAL NOISE A | SSESSMENT NOISE CONTOUR MAP - SHEET 14 OF 16 |
| R-132 | SOUTHBOUND ALIGNMENT MCS0 - PLAN AND LONGITUDINAL SECTION - SHEET 2 OF 9 | CW-026 | CONSTRUCTION WATER MANAGEMENT - CONCEPT PLA | | ON-020 | | SSESSMENT NOISE CONTOUR MAP - SHEET 15 OF 16 |
| R-133 | SOUTHBOUND ALIGNMENT MCGG + DAVING EXHIBITION CONCEPTION OF THE PLAN AND LONGITUDINAL SECTION - SHEET 3 OF 9 | CW-020 | CONSTRUCTION WATER MANAGEMENT - CONCEPT PLA | | ON-024 | | SSESSMENT NOISE CONTOUR MAP - SHEET 16 OF 16 |
| R-133 | SOUTHBOUND ALIGNMENT MCS0 - PLAN AND LONGITUDINAL SECTION - SHEET 3 OF 9 | CW-027 | CONSTRUCTION WATER MANAGEMENT - CONCEPT PLA | | 011-020 | OF LIVETIONAL NOISE P | COLOGINE NT NOIDE CONTOUR WAF - STILLT IV UF 10 |
| | | | | | | | |
| R-135 | SOUTHBOUND ALIGNMENT MCS0 - PLAN AND LONGITUDINAL SECTION - SHEET 5 OF 9 | CW-029 | CONSTRUCTION WATER MANAGEMENT - CONCEPT PLA | | | | S - VEGETATION DRAWINGS |
| R-136 | SOUTHBOUND ALIGNMENT MCS0 - PLAN AND LONGITUDINAL SECTION - SHEET 6 OF 9 | CW-030 | CONSTRUCTION WATER MANAGEMENT - CONCEPT PLA | | ES-010 | TERRESTRIAL SURVEY | AREA - WARKWORTH NORTH - SHEET 1 OF 5 |
| R-137 | SOUTHBOUND ALIGNMENT MCS0 - PLAN AND LONGITUDINAL SECTION - SHEET 7 OF 9 | CW-031 | CONSTRUCTION WATER MANAGEMENT - CONCEPT PLA | N - SHEET 21 OF 23 | ES-011 | TERRESTRIAL SURVEY | AREA - DOME VALLEY FOREST - SHEET 2 OF 5 |
| R-138 | SOUTHBOUND ALIGNMENT MCS0 - PLAN AND LONGITUDINAL SECTION - SHEET 8 OF 9 | CW-032 | CONSTRUCTION WATER MANAGEMENT - CONCEPT PLA | N - SHEET 22 OF 23 | ES-012 | TERRESTRIAL SURVEY | AREA - HOTEO NORTH - HOTEO RIVER - SHEET 3 OF 5 |
| R-139 | SOUTHBOUND ALIGNMENT MCS0 - PLAN AND LONGITUDINAL SECTION - SHEET 9 OF 9 | CW-033 | CONSTRUCTION WATER MANAGEMENT - CONCEPT PLA | N - SHEET 23 OF 23 | ES-013 | TERRESTRIAL SURVEY | AREA - HOTEO NORTH - WELLSFORD EAST - SHEET 4 OF 5 |
| | | | | | ES-014 | | AREA - HOTEO NORTH - TE HANA - SHEET 5 OF 5 |
| R-181 | TYPICAL CROSS SECTIONS - SHEET 1 OF 2 | CW-071 | CONSTRUCTION WATER MANAGEMENT - CONCEPTUAL | CONSTRUCTION YARD OUTLINE | | | |
| R-182 | | | CONSTRUCTION WATER MANAGEMENT - TYPICAL CONC | | | | |
| 11-102 | TYPICAL CROSS SECTIONS - SHEET 2 OF 2 | CW-072 | | | E0.000 | | S - HERPETOFAUNA DRAWINGS |
| | | CW-073 | CONSTRUCTION WATER MANAGEMENT - TYPICAL CONC | | ES-020 | | IRDS - WARKWORTH NORTH - SHEET 1 OF 5 |
| | BRIDGE STRUCTURES | CW-074 | CONSTRUCTION WATER MANAGEMENT - TYPICAL CONC | | ES-021 | | RDS - DOME VALLEY FOREST - SHEET 2 OF 5 |
| S-001 | STRUCTURES LOCATION PLAN - SHEET 1 OF 1 | CW-075 | CONSTRUCTION WATER MANAGEMENT - TYPICAL CONC | | ES-022 | HERPETOFAUNA RECC | RDS - HOTEO NORTH - HOTEO RIVER - SHEET 3 OF 5 |
| | | CW-076 | CONSTRUCTION WATER MANAGEMENT - TYPICAL CONC | EPT DESIGN DETAILS - SHEET 5 OF 5 | ES-023 | HERPETOFAUNA RECO | RDS - HOTEO NORTH - WELLSFORD EAST - SHEET 4 OF 5 |
| S-051 | BRIDGE 05 - PLAN AND ELEVATION - SHEET 1 OF 1 | | | | ES-024 | HERPETOFAUNA RECC | RDS - HOTEO NORTH - TE HANA - SHEET 5 OF 5 |
| S-061 | BRIDGE 06 - PLAN AND ELEVATION - SHEET 1 OF 1 | CW-081 | SOIL DISPOSAL SITE ESTABLISHMENT CONCEPTUAL - M | ETHODOLOGY STAGING PLAN - SHEET 1 OF 4 | | | |
| S-111 | BRIDGE 11 - PLAN AND ELEVATION - SHEET 1 OF 2 | CW-082 | SOIL DISPOSAL SITE ESTABLISHMENT CONCEPTUAL - M | ETHODOLOGY STAGING PLAN - SHEET 2 OF 4 | | ECOLOGICAL SITE | S - AVIFAUNA DRAWINGS |
| S-112 | BRIDGE 11 - PLAN AND ELEVATION - SHEET 2 OF 2 | CW-083 | SOIL DISPOSAL SITE ESTABLISHMENT CONCEPTUAL - M | ETHODOLOGY STAGING PLAN - SHEET 3 OF 4 | ES-030 | AVIFAUNA SAMPLING L | OCATIONS - WARKWORTH NORTH - SHEET 1 OF 5 |
| S-201 | BRIDGE 20 - PLAN AND ELEVATION - SHEET 1 OF 1 | CW-084 | SOIL DISPOSAL SITE ESTABLISHMENT CONCEPTUAL - M | ETHODOLOGY STAGING PLAN - SHEET 4 OF 4 | ES-031 | AVIFAUNA SAMPLING L | OCATIONS - DOME VALLEY FOREST - SHEET 2 OF 5 |
| S-211 | BRIDGE 21 - PLAN AND ELEVATION - SHEET 1 OF 2 | | | | ES-032 | | OCATIONS - HOTEO NORTH - HOTEO RIVER - SHEET 3 OF 5 |
| S-212 | BRIDGE 21 - PLAN AND ELEVATION - SHEET 2 OF 2 | CW-086 | INDICATIVE ESC MEASURES - BRIDGE 11 - PLAN AND EL | EVATION - SHEET 1 OF 2 | ES-033 | | OCATIONS - HOTEO NORTH - WELLSFORD EAST - SHEET 4 OF 5 |
| S-221 | BRIDGE 22 - PLAN AND ELEVATION - SHEET 1 OF 1 | CW-087 | INDICATIVE ESC MEASURES - BRIDGE 11 - PLAN AND EL | | ES-034 | | OCATIONS - HOTEO NORTH - TE HANA - SHEET 5 OF 5 |
| 0 221 | | 011 001 | | | L3-034 | AVII AUNA SAWFLING L | OCATIONS - TOTEO NORTH - TE TIANA - SHEET 5 OF 5 |
| | OPERATIONAL WATER MANAGEMENT | | | | | | |
| 0.11.001 | | 0111.011 | GROUND WATER DRAWINGS | | | | ES - BAT DRAWINGS |
| SW-001 | OPERATIONAL WATER MANAGEMENT NOTES AND LEGEND - SHEET 1 OF 1 | GW-011 | GROUND WATER - GEOLOGICAL LONGITUDINAL SECTIO | | ES-040 | | ONS - WARKWORTH NORTH - SHEET 1 OF 5 |
| | | GW-012 | GROUND WATER - GEOLOGICAL LONGITUDINAL SECTIO | | ES-041 | | ONS - DOME VALLEY FOREST - SHEET 2 OF 5 |
| SW-011 | OPERATIONAL WATER MANAGEMENT - WATER MANAGEMENT PLAN - SHEET 1 OF 23 | GW-013 | GROUND WATER - GEOLOGICAL LONGITUDINAL SECTIO | N - SHEET 3 OF 10 | ES-042 | BAT SAMPLING LOCATI | ONS - HOTEO NORTH - HOTEO RIVER - SHEET 3 OF 5 |
| SW-012 | OPERATIONAL WATER MANAGEMENT - WATER MANAGEMENT PLAN - SHEET 2 OF 23 | GW-014 | GROUND WATER - GEOLOGICAL LONGITUDINAL SECTIO | N - SHEET 4 OF 10 | ES-043 | BAT SAMPLING LOCATI | ONS - HOTEO NORTH - WELLSFORD EAST - SHEET 4 OF 5 |
| SW-013 | OPERATIONAL WATER MANAGEMENT - WATER MANAGEMENT PLAN - SHEET 3 OF 23 | GW-015 | GROUND WATER - GEOLOGICAL LONGITUDINAL SECTIO | N - SHEET 5 OF 10 | ES-044 | BAT SAMPLING LOCATI | ONS - HOTEO NORTH - TE HANA - SHEET 5 OF 5 |
| SW-014 | OPERATIONAL WATER MANAGEMENT - WATER MANAGEMENT PLAN - SHEET 4 OF 23 | GW-016 | GROUND WATER - GEOLOGICAL LONGITUDINAL SECTIO | N - SHEET 6 OF 10 | | | |
| SW-015 | OPERATIONAL WATER MANAGEMENT - WATER MANAGEMENT PLAN - SHEET 5 OF 23 | GW-017 | GROUND WATER - GEOLOGICAL LONGITUDINAL SECTIO | | | | S - FRESHWATER DRAWINGS |
| SW-016 | OPERATIONAL WATER MANAGEMENT - WATER MANAGEMENT PLAN - SHEET 6 OF 23 | GW-018 | GROUND WATER - GEOLOGICAL LONGITUDINAL SECTIO | | ES-050 | | P - WARKWORTH NORTH - SHEET 1 OF 5 |
| SW-010 | OPERATIONAL WATER MANAGEMENT - WATER MANAGEMENT PLAN - SHEET 7 OF 23 | GW-018 | GROUND WATER - GEOLOGICAL LONGITUDINAL SECTIO | | | | |
| | | | | | ES-051 | | P - DOME VALLEY FOREST - SHEET 2 OF 5 |
| SW-018 | OPERATIONAL WATER MANAGEMENT - WATER MANAGEMENT PLAN - SHEET 8 OF 23 | GW-020 | GROUND WATER - GEOLOGICAL LONGITUDINAL SECTIO | N - SHEET TU UF TU | ES-052 | | P - HOTEO NORTH - HOTEO RIVER - SHEET 3 OF 5 |
| SW-019 | OPERATIONAL WATER MANAGEMENT - WATER MANAGEMENT PLAN - SHEET 9 OF 23 | | | | ES-053 | | P - HOTEO NORTH - WELLSFORD EAST - SHEET 4 OF 5 |
| SW-020 | OPERATIONAL WATER MANAGEMENT - WATER MANAGEMENT PLAN - SHEET 10 OF 23 | | MARINE ECOLOGY DRAWINGS | | ES-054 | FRESHWATER SITE MA | P - HOTEO NORTH - TE HANA - SHEET 5 OF 5 |
| SW-021 | OPERATIONAL WATER MANAGEMENT - WATER MANAGEMENT PLAN - SHEET 11 OF 23 | ME-011 | MARINE ECOLOGICAL ASSESSMENT KAIPARA HARBOUF | | | | |
| SW-022 | OPERATIONAL WATER MANAGEMENT - WATER MANAGEMENT PLAN - SHEET 12 OF 23 | ME-012 | MARINE ECOLOGICAL ASSESSMENT KAIPARA AND MAH | JRANGI HARBOURS | | ECOLOGICAL VAI | UES - INDIVIDUAL SITE DRAWINGS |
| SW-023 | OPERATIONAL WATER MANAGEMENT - WATER MANAGEMENT PLAN - SHEET 13 OF 23 | ME-013 | MARINE ECOLOGICAL ASSESSMENT MAHURANGI HARB | DUR | EV-001 | | IENT TERRESTRIAL VALUES MAP - SHEET 1 OF 6 |
| SW-024 | OPERATIONAL WATER MANAGEMENT - WATER MANAGEMENT PLAN - SHEET 14 OF 23 | ME-014 | MAHURANGI SEDIMENT DEPOSITION SCENARIO | | EV-001 | | IENT TERRESTRIAL VALUES MAP - SHEET 2 OF 6 |
| SW-024 | OPERATIONAL WATER MANAGEMENT - WATER MANAGEMENT PLAN - SHEET 15 OF 23 | ME-015 | MAHURANGI SEDIMENT DEPOSITION SCENARIO | | EV-002 | | IENT TERRESTRIAL VALUES MAP - SHEET 2 OF 6 |
| SW-025 SW-026 | OPERATIONAL WATER MANAGEMENT - WATER MANAGEMENT PLAN - SHEET 15 OF 23 OPERATIONAL WATER MANAGEMENT - WATER MANAGEMENT PLAN - SHEET 16 OF 23 | ME-015 | MAHURANGI SEDIMENT DEPOSITION SCENARIO | | | | |
| | | | | | EV-004 | | IENT TERRESTRIAL VALUES MAP - SHEET 4 OF 6 |
| SW-027 | OPERATIONAL WATER MANAGEMENT - WATER MANAGEMENT PLAN - SHEET 17 OF 23 | ME-017 | MAHURANGI SEDIMENT DEPOSITION SCENARIO | | EV-005 | | IENT TERRESTRIAL VALUES MAP - SHEET 5 OF 6 |
| SW-028 | OPERATIONAL WATER MANAGEMENT - WATER MANAGEMENT PLAN - SHEET 18 OF 23 | ME-018 | MAHURANGI SEDIMENT DEPOSITION SCENARIO | | EV-006 | ECOLOGICAL ASSESS | IENT TERRESTRIAL VALUES MAP - SHEET 6 OF 6 |
| SW-029 | OPERATIONAL WATER MANAGEMENT - WATER MANAGEMENT PLAN - SHEET 19 OF 23 | ME-019 | MAHURANGI SEDIMENT DEPOSITION SCENARIO | | | | |
| SW-030 | OPERATIONAL WATER MANAGEMENT - WATER MANAGEMENT PLAN - SHEET 20 OF 23 | | | | | | |
| | | | | | | | |
| | | | | DO NOT SCALE | | | OJECT WARKWORTH TO WELLSFORD PROJEC |
| | | CDODT | | | FOR RMA APPR | JVALS | |
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| No | Revision | Note: * indicates signature | es on original issue of dra | wing or last revision of drawing | Drawn | Checked | Approve |
| Plot | Date: 5 July | 2019 - 9:14 AM | Cad File No: | C:\WW2W\CAD_LM\20190703\ | PA4156-G-0 | 002-003_LM | l.dwg |





| DRAWING DRAWING TITLE NUMBER PRIORITY ECOLOGICAL SITE DRAWINGS PES-010 PRIORITY ECOLOGICAL SITES (PES) OVERVIEW MAP - SHEET 1 OF 1 PES-020 OVERVIEW OF PES IN THE UPPER KOURAWHERO STREAM CATCHMENT AREA - SHEET 1 OF 1 PES-030 PRIORITY ECOLOGICAL SITES - WN_T_MAHU_01 - SHEET 1 OF 14 PES-031 PRIORITY ECOLOGICAL SITES - WN_T_KOURA_01 - SHEET 2 OF 14 PES-032 PRIORITY ECOLOGICAL SITES - WN_T_KOURA_01 - SHEET 3 OF 14 PES-033 PRIORITY ECOLOGICAL SITES - WN_T_KOURA_02 - SHEET 6 OF 14 PES-034 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_02 - SHEET 6 OF 14 PES-035 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_03 - SHEET 9 OF 14 PES-036 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_05 - SHEET 9 OF 14 PES-037 PRIORITY ECOLOGICAL SITES - DVF_W_KORUA_01 - SHEET 10 OF 14 PES-039 PRIORITY ECOLOGICAL SITES - DVF_W_KORUA_02 - SHEET 10 OF 14 PES-040 PRIORITY ECOLOGICAL SITES - NN_T_HOTEO_02 - SHEET 10 OF 14 PES-041 PRIORITY ECOLOGICAL SITES - HN_T_HOTEO_02 - SHEET 10 OF 14 PES-042 PRIORITY ECOLOGICAL SITES - HN_T_HOTEO_02 - SHEET 10 OF 14 PES-043 PRIORITY ECOLOGICAL MITIGATION MAPS - SHEET 10 F 6 EM-010 LANDSCAPE AND ECOLOGICAL |)rawing Number | DRAWING TITLE |
|--|-------------------|--|
| PES-020 OVERVIEW OF PES IN THE UPPER KOURAWHERO STREAM CATCHMENT AREA - SHEET 1 OF PES-030 PRIORITY ECOLOGICAL SITES - WN_T_MAHU_01 - SHEET 1 OF 14 PES-031 PRIORITY ECOLOGICAL SITES - WN_T_MAHU_02 - SHEET 2 OF 14 PES-032 PRIORITY ECOLOGICAL SITES - WN_T_KOURA_01 - SHEET 3 OF 14 PES-033 PRIORITY ECOLOGICAL SITES - WN_T_KOURA_01 - SHEET 4 OF 14 PES-035 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_02 - SHEET 5 OF 14 PES-036 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_03 - SHEET 7 OF 14 PES-037 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_03 - SHEET 7 OF 14 PES-038 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_04 - SHEET 8 OF 14 PES-039 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_05 - SHEET 1 OF 14 PES-039 PRIORITY ECOLOGICAL SITES - DVF_W_KORUA_01 - SHEET 10 OF 14 PES-040 PRIORITY ECOLOGICAL SITES - NN_T_HOTEO_02 - SHEET 11 OF 14 PES-041 PRIORITY ECOLOGICAL SITES - HN_T_HOTEO_02 - SHEET 10 OF 14 PES-042 PRIORITY ECOLOGICAL SITES - HN_T_HOTEO_02 - SHEET 10 OF 14 PES-043 PRIORITY ECOLOGICAL SITES - HN_T_HOTEO_02 - SHEET 10 OF 6 EM-010 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 1 OF 6 EM-010 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 2 OF 6 EM-011 LANDSCAPE AND ECOLOGICAL | | PRIORITY ECOLOGICAL SITE DRAWINGS |
| PES-030 PRIORITY ECOLOGICAL SITES - WN_T_MAHU_01 - SHEET 1 OF 14 PES-031 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_01 - SHEET 3 OF 14 PES-032 PRIORITY ECOLOGICAL SITES - WN_T_KOURA_01 - SHEET 3 OF 14 PES-033 PRIORITY ECOLOGICAL SITES - WN_T_KOURA_01 - SHEET 3 OF 14 PES-034 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_02 - SHEET 5 OF 14 PES-035 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_02 - SHEET 5 OF 14 PES-036 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_03 - SHEET 7 OF 14 PES-037 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_04 - SHEET 8 OF 14 PES-038 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_05 - SHEET 10 OF 14 PES-039 PRIORITY ECOLOGICAL SITES - DVF_W_KORUA_01 - SHEET 10 OF 14 PES-040 PRIORITY ECOLOGICAL SITES - NN_T_HOTEO_02 - SHEET 11 OF 14 PES-041 PRIORITY ECOLOGICAL SITES - HN_T_HOTEO_02 - SHEET 12 OF 14 PES-042 PRIORITY ECOLOGICAL SITES - HN_W_HOTEO_02 - SHEET 13 OF 14 PES-043 PRIORITY ECOLOGICAL SITES - HN_W_HOTEO_02 - SHEET 10 OF 14 PES-044 PRIORITY ECOLOGICAL SITES - HN_W_HOTEO_02 - SHEET 10 OF 6 EM-010 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 1 OF 6 EM-011 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 3 OF 6 EM-012 LANDSCAPE AND ECOLOGICAL MITIGATION MA | PES-010 | PRIORITY ECOLOGICAL SITES (PES) OVERVIEW MAP - SHEET 1 OF 1 |
| PES-031 PRIORITY ECOLOGICAL SITES - WN_T_MAHU_02 - SHEET 2 OF 14 PES-032 PRIORITY ECOLOGICAL SITES - WN_T_KOURA_01 - SHEET 3 OF 14 PES-033 PRIORITY ECOLOGICAL SITES - WN_T_KOURA_01 - SHEET 5 OF 14 PES-035 PRIORITY ECOLOGICAL SITES - WN_T_KOURA_02 - SHEET 5 OF 14 PES-036 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_02 - SHEET 6 OF 14 PES-037 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_03 - SHEET 7 OF 14 PES-038 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_04 - SHEET 9 OF 14 PES-039 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_05 - SHEET 9 OF 14 PES-039 PRIORITY ECOLOGICAL SITES - DVF_W_KORUA_01 - SHEET 10 OF 14 PES-040 PRIORITY ECOLOGICAL SITES - DVF_T_KORUA_02 - SHEET 10 OF 14 PES-041 PRIORITY ECOLOGICAL SITES - HN_T_HOTEO_02 - SHEET 12 OF 14 PES-042 PRIORITY ECOLOGICAL SITES - HN_T_HOTEO_02 - SHEET 10 OF 14 PES-043 PRIORITY ECOLOGICAL SITES - HN_W_HOTEO_02 - SHEET 10 F 14 PES-044 PRIORITY ECOLOGICAL SITES - HN_W_HOTEO_02 - SHEET 10 F 14 PES-045 PRIORITY ECOLOGICAL MITIGATION MAPS - SHEET 2 OF 6 EM-010 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 1 OF 6 EM-011 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 3 OF 6 EM-012 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHE | PES-020 | OVERVIEW OF PES IN THE UPPER KOURAWHERO STREAM CATCHMENT AREA - SHEET 1 OF 1 |
| PES-032 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_01 - SHEET 3 OF 14 PES-033 PRIORITY ECOLOGICAL SITES - WN_T_KOURA_02 - SHEET 4 OF 14 PES-034 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_02 - SHEET 6 OF 14 PES-035 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_02 - SHEET 7 OF 14 PES-036 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_03 - SHEET 7 OF 14 PES-037 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_04 - SHEET 8 OF 14 PES-038 PRIORITY ECOLOGICAL SITES - DVF_W_KORUA_01 - SHEET 10 OF 14 PES-039 PRIORITY ECOLOGICAL SITES - DVF_W_KORUA_01 - SHEET 10 OF 14 PES-040 PRIORITY ECOLOGICAL SITES - DVF_T_KORUA_02 - SHEET 10 OF 14 PES-041 PRIORITY ECOLOGICAL SITES - HN_T_HOTEO_02 - SHEET 10 F 14 PES-042 PRIORITY ECOLOGICAL SITES - HN_T_HOTEO_02 - SHEET 13 OF 14 PES-043 PRIORITY ECOLOGICAL SITES - HN_W_HOTEO_02 - SHEET 10 F 14 PES-044 PRIORITY ECOLOGICAL SITES - HN_W_HOTEO_02 - SHEET 10 F 6 EM-010 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 2 OF 6 EM-011 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 3 OF 6 EM-012 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 3 OF 6 EM-013 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 3 OF 6 EM-014 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - S | PES-030 | PRIORITY ECOLOGICAL SITES - WN_T_MAHU_01 - SHEET 1 OF 14 |
| PES-033 PRIORITY ECOLOGICAL SITES - WN_T_KOURA_01A - SHEET 4 OF 14 PES-034 PRIORITY ECOLOGICAL SITES - WN_T_KOURA_02 - SHEET 5 OF 14 PES-035 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_02 - SHEET 6 OF 14 PES-036 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_02 - SHEET 6 OF 14 PES-037 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_03 - SHEET 7 OF 14 PES-038 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_05 - SHEET 9 OF 14 PES-039 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_02 - SHEET 10 OF 14 PES-040 PRIORITY ECOLOGICAL SITES - WN_T_KORUA_02 - SHEET 11 OF 14 PES-041 PRIORITY ECOLOGICAL SITES - HN_T_HOTEO_02 - SHEET 12 OF 14 PES-042 PRIORITY ECOLOGICAL SITES - HN_T_HOTEO_02 - SHEET 13 OF 14 PES-043 PRIORITY ECOLOGICAL SITES - HN_W_HOTEO_02 - SHEET 10 F 6 EM-010 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 1 OF 6 EM-011 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 2 OF 6 EM-012 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 3 OF 6 EM-013 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 5 OF 6 EM-014 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 5 OF 6 EM-015 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 5 OF 6 EM-016 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 5 O | PES-031 | PRIORITY ECOLOGICAL SITES - WN_T_MAHU_02 - SHEET 2 OF 14 |
| PES-034 PRIORITY ECOLOGICAL SITES - WN_T_KOURA_02 - SHEET 5 OF 14 PES-035 PRIORITY ECOLOGICAL SITES - WN_W_KORUA_02 - SHEET 6 OF 14 PES-036 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_03 - SHEET 7 OF 14 PES-037 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_04 - SHEET 8 OF 14 PES-038 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_05 - SHEET 9 OF 14 PES-039 PRIORITY ECOLOGICAL SITES - DVF_W_KORUA_01 - SHEET 10 OF 14 PES-040 PRIORITY ECOLOGICAL SITES - DVF_W_KORUA_02 - SHEET 11 OF 14 PES-041 PRIORITY ECOLOGICAL SITES - HN_T_HOTEO_02 - SHEET 12 OF 14 PES-042 PRIORITY ECOLOGICAL SITES - HN_T_HOTEO_02 - SHEET 13 OF 14 PES-043 PRIORITY ECOLOGICAL SITES - HN_W_HOTEO_02 - SHEET 13 OF 14 PES-044 PRIORITY ECOLOGICAL SITES - HN_W_HOTEO_02 - SHEET 10 F 6 EM-010 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 1 OF 6 EM-011 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 3 OF 6 EM-011 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 3 OF 6 EM-011 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 3 OF 6 EM-012 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 3 OF 6 EM-013 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 5 OF 6 EM-014 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 6 | PES-032 | PRIORITY ECOLOGICAL SITES - WN_W_KOURA_01 - SHEET 3 OF 14 |
| PES-035 PRIORITY ECOLOGICAL SITES - WN_W_KORUA_02 - SHEET 6 OF 14 PES-036 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_03 - SHEET 7 OF 14 PES-037 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_04 - SHEET 8 OF 14 PES-038 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_05 - SHEET 9 OF 14 PES-039 PRIORITY ECOLOGICAL SITES - DVF_W_KOURA_01 - SHEET 10 OF 14 PES-040 PRIORITY ECOLOGICAL SITES - DVF_T_KORUA_02 - SHEET 10 OF 14 PES-041 PRIORITY ECOLOGICAL SITES - HN_T_HOTEO_02 - SHEET 12 OF 14 PES-042 PRIORITY ECOLOGICAL SITES - HN_T_HOTEO_02 - SHEET 12 OF 14 PES-043 PRIORITY ECOLOGICAL SITES - HN_T_HOTEO_02 - SHEET 13 OF 14 PES-044 PRIORITY ECOLOGICAL SITES - HN_W_HOTEO_02 - SHEET 10 F 6 EM-010 LANDSCAPE AND ECOLOGICAL MITIGATION DRAWINGS EM-011 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 2 OF 6 EM-012 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 3 OF 6 EM-013 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 3 OF 6 EM-014 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 5 OF 6 EM-015 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 5 OF 6 EM-014 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 10 F 6 EM-015 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 10 F 6 | PES-033 | PRIORITY ECOLOGICAL SITES - WN_T_KOURA_01A - SHEET 4 OF 14 |
| PES-036 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_03 - SHEET 7 OF 14 PES-037 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_04 - SHEET 8 OF 14 PES-038 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_05 - SHEET 9 OF 14 PES-039 PRIORITY ECOLOGICAL SITES - DVF_W_KOURA_05 - SHEET 9 OF 14 PES-040 PRIORITY ECOLOGICAL SITES - DVF_T_KORUA_02 - SHEET 11 OF 14 PES-041 PRIORITY ECOLOGICAL SITES - HN_T_HOTEO_02 - SHEET 12 OF 14 PES-042 PRIORITY ECOLOGICAL SITES - HN_T_HOTEO_02 - SHEET 13 OF 14 PES-043 PRIORITY ECOLOGICAL SITES - HN_T_HOTEO_02 - SHEET 14 OF 14 PES-043 PRIORITY ECOLOGICAL SITES - HN_T_HOTEO_02 - SHEET 10 F 6 EM-010 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 1 OF 6 EM-011 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 2 OF 6 EM-012 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 3 OF 6 EM-013 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 5 OF 6 EM-014 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 5 OF 6 EM-015 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 5 OF 6 EM-014 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 5 OF 6 EM-015 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 5 OF 6 EM-015 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 5 OF 6 </td <td>PES-034</td> <td>PRIORITY ECOLOGICAL SITES - WN_T_KOURA_02 - SHEET 5 OF 14</td> | PES-034 | PRIORITY ECOLOGICAL SITES - WN_T_KOURA_02 - SHEET 5 OF 14 |
| PES-037 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_04 - SHEET 8 OF 14 PES-038 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_05 - SHEET 9 OF 14 PES-039 PRIORITY ECOLOGICAL SITES - DVF_W_KORUA_01 - SHEET 10 OF 14 PES-040 PRIORITY ECOLOGICAL SITES - DVF_T_KORUA_02 - SHEET 11 OF 14 PES-041 PRIORITY ECOLOGICAL SITES - HN_T_HOTEO_02 - SHEET 12 OF 14 PES-042 PRIORITY ECOLOGICAL SITES - HN_T_HOTEO_02 - SHEET 13 OF 14 PES-043 PRIORITY ECOLOGICAL SITES - HN_W_HOTEO_02 - SHEET 14 OF 14 PES-044 PRIORITY ECOLOGICAL SITES - HN_W_HOTEO_02 - SHEET 14 OF 14 PES-045 PRIORITY ECOLOGICAL SITES - HN_W_HOTEO_02 - SHEET 14 OF 14 PES-046 PRIORITY ECOLOGICAL SITES - HN_W_HOTEO_02 - SHEET 14 OF 14 PES-047 PRIORITY ECOLOGICAL SITES - HN_W_HOTEO_02 - SHEET 10 F 6 EM-010 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 1 OF 6 EM-011 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 2 OF 6 EM-012 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 3 OF 6 EM-013 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 5 OF 6 EM-014 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 6 OF 6 EM-015 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 6 OF 6 EM-014 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEE | PES-035 | PRIORITY ECOLOGICAL SITES - WN_W_KORUA_02 - SHEET 6 OF 14 |
| PES-038 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_05 - SHEET 9 OF 14 PES-039 PRIORITY ECOLOGICAL SITES - DVF_W_KORUA_01 - SHEET 10 OF 14 PES-040 PRIORITY ECOLOGICAL SITES - DVF_T_KORUA_02 - SHEET 11 OF 14 PES-041 PRIORITY ECOLOGICAL SITES - HN_T_HOTEO_02 - SHEET 12 OF 14 PES-042 PRIORITY ECOLOGICAL SITES - HN_T_HOTEO_02 - SHEET 13 OF 14 PES-043 PRIORITY ECOLOGICAL SITES - HN_W_HOTEO_02 - SHEET 14 OF 14 COLOGICAL MITIGATION DRAWINGS LANDSCAPE AND ECOLOGICAL MITIGATION DRAWINGS EM-010 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 10 F 6 EM-011 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 3 OF 6 EM-012 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 3 OF 6 EM-013 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 4 OF 6 EM-014 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 5 OF 6 EM-014 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 6 OF 6 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 5 OF 6 EM-015 LANDSCAPE VISUAL SIMULATIONS | PES-036 | PRIORITY ECOLOGICAL SITES - WN_W_KOURA_03 - SHEET 7 OF 14 |
| PES-039 PRIORITY ECOLOGICAL SITES - DVF_W_KORUA_01 - SHEET 10 OF 14 PES-040 PRIORITY ECOLOGICAL SITES - DVF_T_KORUA_02 - SHEET 11 OF 14 PES-041 PRIORITY ECOLOGICAL SITES - HN_T_HOTEO_02 - SHEET 12 OF 14 PES-042 PRIORITY ECOLOGICAL SITES - HN_T_HOTEO_02 - SHEET 13 OF 14 PES-043 PRIORITY ECOLOGICAL SITES - HN_T_HOTEO_02 - SHEET 13 OF 14 PES-043 PRIORITY ECOLOGICAL SITES - HN_W_HOTEO_02 - SHEET 14 OF 14 Colspan="2">COLOGICAL MITIGATION DRAWINGS LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 1 OF 6 EM-010 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 1 OF 6 EM-011 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 3 OF 6 EM-012 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 4 OF 6 EM-012 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 5 OF 6 EM-014 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 6 OF 6 LANDSCAPE VISUAL SIMULATIONS LS-001 VIEWPOINT 9: WAYBY STATION ROAD LOOKING EAST LS-001 VIEWPOINT 9: WAYBY STATION ROAD LOOKING KEST | PES-037 | PRIORITY ECOLOGICAL SITES - WN_W_KOURA_04 - SHEET 8 OF 14 |
| PES-040 PRIORITY ECOLOGICAL SITES - DVF_T_KORUA_02 - SHEET 11 OF 14 PES-041 PRIORITY ECOLOGICAL SITES - HN_T_HOTEO_02 - SHEET 12 OF 14 PES-042 PRIORITY ECOLOGICAL SITES - HN_T_HOTEO_02A - SHEET 13 OF 14 PES-043 PRIORITY ECOLOGICAL SITES - HN_W_HOTEO_02 - SHEET 14 OF 14 COLOGICAL SITES - HN_W_HOTEO_02 - SHEET 14 OF 14 LANDSCAPE AND ECOLOGICAL MITIGATION DRAWINGS EM-010 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 1 OF 6 EM-011 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 3 OF 6 EM-012 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 3 OF 6 EM-013 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 4 OF 6 EM-014 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 5 OF 6 EM-015 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 6 OF 6 EM-015 LANDSCAPE VISUAL SIMULATIONS LS-001 VIEWPOINT 8: SH1 LOOKING SOUTH-EAST LS-002 VIEWPOINT 9: WAYBY STATION ROAD LOOKING EAST LS-003 VIEWPOINT 15: WHANGARIPO VALLEY ROAD LOOKING WEST LS-004 VIEWPOINT 15: WHANGARIPO VALLEY ROAD LOOKING WEST LS-005 VIEWPOINT 20: VIPOND ROAD (EAST) LOOKING SOUTH (2 MAY 2017) LS-006 V | PES-038 | PRIORITY ECOLOGICAL SITES - WN_W_KOURA_05 - SHEET 9 OF 14 |
| PES-041 PRIORITY ECOLOGICAL SITES - HN_T_HOTEO_02 - SHEET 12 OF 14 PES-042 PRIORITY ECOLOGICAL SITES - HN_T_HOTEO_02A - SHEET 13 OF 14 PES-043 PRIORITY ECOLOGICAL SITES - HN_W_HOTEO_02 - SHEET 14 OF 14 Image: Colomon Colomotor C | PES-039 | PRIORITY ECOLOGICAL SITES - DVF_W_KORUA_01 - SHEET 10 OF 14 |
| PES-042 PRIORITY ECOLOGICAL SITES - HN_T_HOTEO_02A - SHEET 13 OF 14 PES-043 PRIORITY ECOLOGICAL SITES - HN_W_HOTEO_02 - SHEET 14 OF 14 Image: Cological Sites - HN_W_HOTEO_02 - SHEET 14 OF 14 Image: Cological Sites - HN_W_HOTEO_02 - SHEET 14 OF 14 Image: Cological Sites - HN_W_HOTEO_02 - SHEET 14 OF 14 Image: Cological Sites - HN_W_HOTEO_02 - SHEET 14 OF 14 Image: Cological Sites - HN_W_HOTEO_02 - SHEET 14 OF 6 Image: Cological Mitigation MAPS - SHEET 2 OF 6 Image: Cological Sites - HN_HOTEO_02 - SHEET 1 OF 6 Image: Cological Mitigation MAPS - SHEET 3 OF 6 Image: Cological And Ecological Mitigation MAPS - SHEET 3 OF 6 Image: Cological Mitigation MAPS - SHEET 5 OF 6 Image: Cological And Ecological Mitigation MAPS - SHEET 5 OF 6 Image: Cological Mitigation MAPS - SHEET 6 OF 6 Image: Cological And Ecological Mitigation MAPS - SHEET 6 OF 6 Image: Cological Mitigation MAPS - SHEET 6 OF 6 Image: Cological Mitigation Road Looking East Image: Cological Mitigation Road Looking East Is-001 VIEWPOINT 9: WAYBY STATION ROAD LOOKING EAST Image: Cological Mitigation Road Looking WEST Is-003 VIEWPOINT 15: WHANGARIPO VALLEY ROAD LOOKING WEST Image: Cological Mitigation Road Looking South (2 MAY 2017) Is-005 VIEWPOINT 10: VIPOND ROAD (EAST) LOOKING SOUTH (2 MAY 2017) Image: Cological Mitigation Road Coloking North-East Image: Cological Mitigation Ro | PES-040 | PRIORITY ECOLOGICAL SITES - DVF_T_KORUA_02 - SHEET 11 OF 14 |
| PES-043 PRIORITY ECOLOGICAL SITES - HN_W_HOTEO_02 - SHEET 14 OF 14 LANDSCAPE AND ECOLOGICAL MITIGATION DRAWINGS EM-010 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 1 OF 6 EM-011 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 2 OF 6 EM-012 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 3 OF 6 EM-013 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 3 OF 6 EM-014 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 5 OF 6 EM-015 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 6 OF 6 CLANDSCAPE VISUAL SIMULATIONS LS-001 VIEWPOINT 8: SH1 LOOKING SOUTH-EAST LS-002 VIEWPOINT 9: WAYBY STATION ROAD LOOKING EAST LS-003 VIEWPOINT 9: WAYBY STATION ROAD LOOKING WEST LS-004 VIEWPOINT 15: WHANGARIPO VALLEY ROAD LOOKING WEST LS-005 VIEWPOINT 15: WHANGARIPO VALLEY ROAD LOOKING WEST LS-006 VIEWPOINT 20: VIPOND ROAD (EAST) LOOKING SOUTH (2 MAY 2017) LS-007 VIEWPOINT 20: VIPOND ROAD (EAST) LOOKING NORTH-EAST LS-008 VIEWPOINT 21: CHARIS LANE LOOKING NORTH-EAST LS-009 VIEWPOINT 21: CHARIS LANE LOOKING NORTH-EAST | PES-041 | PRIORITY ECOLOGICAL SITES - HN_T_HOTEO_02 - SHEET 12 OF 14 |
| LANDSCAPE AND ECOLOGICAL MITIGATION DRAWINGS EM-010 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 1 OF 6 EM-011 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 2 OF 6 EM-012 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 3 OF 6 EM-013 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 3 OF 6 EM-014 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 5 OF 6 EM-015 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 6 OF 6 COLOGICAL MITIGATION ROAD LOOKING EAST LANDSCAPE VISUAL SIMULATIONS LS-001 VIEWPOINT 9: WAYBY STATION ROAD LOOKING EAST LS-002 VIEWPOINT 9: WAYBY STATION ROAD LOOKING EAST LS-003 VIEWPOINT 15: WHANGARIPO VALLEY ROAD LOOKING WEST LS-004 VIEWPOINT 15: WHANGARIPO VALLEY ROAD LOOKING SOUTH (2 MAY 2017) LS-005 VIEWPOINT 20: VIPOND ROAD (EAST) LOOKING SOUT | PES-042 | PRIORITY ECOLOGICAL SITES - HN_T_HOTEO_02A - SHEET 13 OF 14 |
| EM-010 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 1 OF 6 EM-011 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 2 OF 6 EM-012 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 3 OF 6 EM-013 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 3 OF 6 EM-014 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 4 OF 6 EM-015 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 6 OF 6 COLOGICAL MITIGATION MAPS - SHEET 1 DOND MAPS - SHEET 6 OF 6 COLOGICAL MITIGATION MAPS - SHEET 6 OF 6 LANDSCAPE VISUAL SIMULATIONS LANDSCAPE VISUAL SIMULATIONS LANDSCAPE VISUAL SIMULATION RO | PES-043 | PRIORITY ECOLOGICAL SITES - HN_W_HOTEO_02 - SHEET 14 OF 14 |
| EM-011 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 2 OF 6 EM-012 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 3 OF 6 EM-013 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 4 OF 6 EM-014 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 5 OF 6 EM-015 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 6 OF 6 COLOGICAL MITIGATION MAPS - SHEET 6 OF 6 EM-015 LANDSCAPE VISUAL SIMULATIONS LANDSCAPE VISUAL SIMULATIONS LANDSCAPE VISUAL SIMULATIONS LS-001 VIEWPOINT 8: SH1 LOOKING SOUTH-EAST LS-002 VIEWPOINT 9: WAYBY STATION ROAD LOOKING EAST LS-001 VIEWPOINT 9: WAYBY STATION ROAD LOOKING EAST LS-002 VIEWPOINT 15: WHANGARIPO VALLEY ROAD LOOKING WEST LS-004 VIEWPOINT 15: WHANGARIPO VALLEY ROAD LOOKING WEST LS-006 VIEWPOINT 15: WHANGARIPO VALLEY ROAD LOOKING SOUTH (2 MAY 2017) LS-006 VIEWPOINT 20: VIPOND ROAD (EAST) LOOKING SOUTH (2 MAY 2017) LS-008 V | | LANDSCAPE AND ECOLOGICAL MITIGATION DRAWINGS |
| EM-012 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 3 OF 6 EM-013 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 4 OF 6 EM-014 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 5 OF 6 EM-015 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 6 OF 6 COLOGICAL MITIGATION MAPS - SHEET 6 OF 6 LANDSCAPE VISUAL SIMULATIONS LS-001 VIEWPOINT 8: SH1 LOOKING SOUTH-EAST LS-002 VIEWPOINT 9: WAYBY STATION ROAD LOOKING EAST LS-003 VIEWPOINT 9: WAYBY STATION ROAD LOOKING EAST LS-004 VIEWPOINT 15: WHANGARIPO VALLEY ROAD LOOKING WEST LS-005 VIEWPOINT 15: WHANGARIPO VALLEY ROAD LOOKING WEST LS-006 VIEWPOINT 20: VIPOND ROAD (EAST) LOOKING SOUTH (2 MAY 2017) LS-007 VIEWPOINT 20: VIPOND ROAD (EAST) LOOKING SOUTH (2 MAY 2017) LS-008 VIEWPOINT 21: CHARIS LANE LOOKING NORTH-EAST LS-009 VIEWPOINT 21: CHARIS LANE LOOKING NORTH-EAST | EM-010 | LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 1 OF 6 |
| EM-013 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 4 OF 6 EM-014 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 5 OF 6 EM-015 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 6 OF 6 Control Content Contented Control Control Content Control Control C | EM-011 | LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 2 OF 6 |
| EM-014 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 5 OF 6 EM-015 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 6 OF 6 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 6 OF 6 LANDSCAPE VISUAL SIMULATIONS LS-001 VIEWPOINT 8: SH1 LOOKING SOUTH-EAST LS-002 VIEWPOINT 9: WAYBY STATION ROAD LOOKING EAST LS-003 VIEWPOINT 9: WAYBY STATION ROAD LOOKING EAST LS-004 VIEWPOINT 15: WHANGARIPO VALLEY ROAD LOOKING WEST LS-005 VIEWPOINT 15: WHANGARIPO VALLEY ROAD LOOKING WEST LS-006 VIEWPOINT 20: VIPOND ROAD (EAST) LOOKING SOUTH (2 MAY 2017) LS-007 VIEWPOINT 20: VIPOND ROAD (EAST) LOOKING SOUTH (2 MAY 2017) LS-008 VIEWPOINT 21: CHARIS LANE LOOKING NORTH-EAST LS-009 VIEWPOINT 21: CHARIS LANE LOOKING NORTH-EAST | EM-012 | LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 3 OF 6 |
| EM-015 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 6 OF 6 LANDSCAPE VISUAL SIMULATIONS LS-001 VIEWPOINT 8: SH1 LOOKING SOUTH-EAST LS-002 VIEWPOINT 9: WAYBY STATION ROAD LOOKING EAST LS-003 VIEWPOINT 9: WAYBY STATION ROAD LOOKING EAST LS-004 VIEWPOINT 15: WHANGARIPO VALLEY ROAD LOOKING WEST LS-005 VIEWPOINT 15: WHANGARIPO VALLEY ROAD LOOKING WEST LS-006 VIEWPOINT 20: VIPOND ROAD (EAST) LOOKING SOUTH (2 MAY 2017) LS-007 VIEWPOINT 20: VIPOND ROAD (EAST) LOOKING SOUTH (2 MAY 2017) LS-008 VIEWPOINT 21: CHARIS LANE LOOKING NORTH-EAST LS-009 VIEWPOINT 21: CHARIS LANE LOOKING NORTH-EAST | EM-013 | LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 4 OF 6 |
| LANDSCAPE VISUAL SIMULATIONS LS-001 VIEWPOINT 8: SH1 LOOKING SOUTH-EAST LS-002 VIEWPOINT 9: WAYBY STATION ROAD LOOKING EAST LS-003 VIEWPOINT 9: WAYBY STATION ROAD LOOKING EAST LS-004 VIEWPOINT 15: WHANGARIPO VALLEY ROAD LOOKING WEST LS-005 VIEWPOINT 15: WHANGARIPO VALLEY ROAD LOOKING WEST LS-006 VIEWPOINT 20: VIPOND ROAD (EAST) LOOKING SOUTH (2 MAY 2017) LS-007 VIEWPOINT 20: VIPOND ROAD (EAST) LOOKING SOUTH (2 MAY 2017) LS-008 VIEWPOINT 21: CHARIS LANE LOOKING NORTH-EAST LS-009 VIEWPOINT 21: CHARIS LANE LOOKING NORTH-EAST | EM-014 | LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 5 OF 6 |
| LS-001 VIEWPOINT 8: SH1 LOOKING SOUTH-EAST LS-002 VIEWPOINT 9: WAYBY STATION ROAD LOOKING EAST LS-003 VIEWPOINT 9: WAYBY STATION ROAD LOOKING EAST LS-004 VIEWPOINT 15: WHANGARIPO VALLEY ROAD LOOKING WEST LS-005 VIEWPOINT 15: WHANGARIPO VALLEY ROAD LOOKING WEST LS-006 VIEWPOINT 20: VIPOND ROAD (EAST) LOOKING SOUTH (2 MAY 2017) LS-007 VIEWPOINT 20: VIPOND ROAD (EAST) LOOKING SOUTH (2 MAY 2017) LS-008 VIEWPOINT 21: CHARIS LANE LOOKING NORTH-EAST LS-009 VIEWPOINT 21: CHARIS LANE LOOKING NORTH-EAST | EM-015 | LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 6 OF 6 |
| LS-002 VIEWPOINT 9: WAYBY STATION ROAD LOOKING EAST LS-003 VIEWPOINT 9: WAYBY STATION ROAD LOOKING EAST LS-004 VIEWPOINT 15: WHANGARIPO VALLEY ROAD LOOKING WEST LS-005 VIEWPOINT 15: WHANGARIPO VALLEY ROAD LOOKING WEST LS-006 VIEWPOINT 20: VIPOND ROAD (EAST) LOOKING SOUTH (2 MAY 2017) LS-007 VIEWPOINT 20: VIPOND ROAD (EAST) LOOKING SOUTH (2 MAY 2017) LS-008 VIEWPOINT 21: CHARIS LANE LOOKING NORTH-EAST LS-009 VIEWPOINT 21: CHARIS LANE LOOKING NORTH-EAST | | LANDSCAPE VISUAL SIMULATIONS |
| LS-003 VIEWPOINT 9: WAYBY STATION ROAD LOOKING EAST LS-004 VIEWPOINT 15: WHANGARIPO VALLEY ROAD LOOKING WEST LS-005 VIEWPOINT 15: WHANGARIPO VALLEY ROAD LOOKING WEST LS-006 VIEWPOINT 20: VIPOND ROAD (EAST) LOOKING SOUTH (2 MAY 2017) LS-007 VIEWPOINT 20: VIPOND ROAD (EAST) LOOKING SOUTH (2 MAY 2017) LS-008 VIEWPOINT 21: CHARIS LANE LOOKING NORTH-EAST LS-009 VIEWPOINT 21: CHARIS LANE LOOKING NORTH-EAST | LS-001 | VIEWPOINT 8: SH1 LOOKING SOUTH-EAST |
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| | LS-008 | VIEWPOINT 21: CHARIS LANE LOOKING NORTH-EAST |
| PLANNING VERSION ULDF | LS-009 | VIEWPOINT 21: CHARIS LANE LOOKING NORTH-EAST |
| | | PLANNING VERSION ULDF |
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| Plot | Date: 5 July 2019 - 1:08 PM Cad File No: C:\WW2W\CAD_LM\20190703\ | PA4156-G-I | 002-003_LN | 1.dwg | |

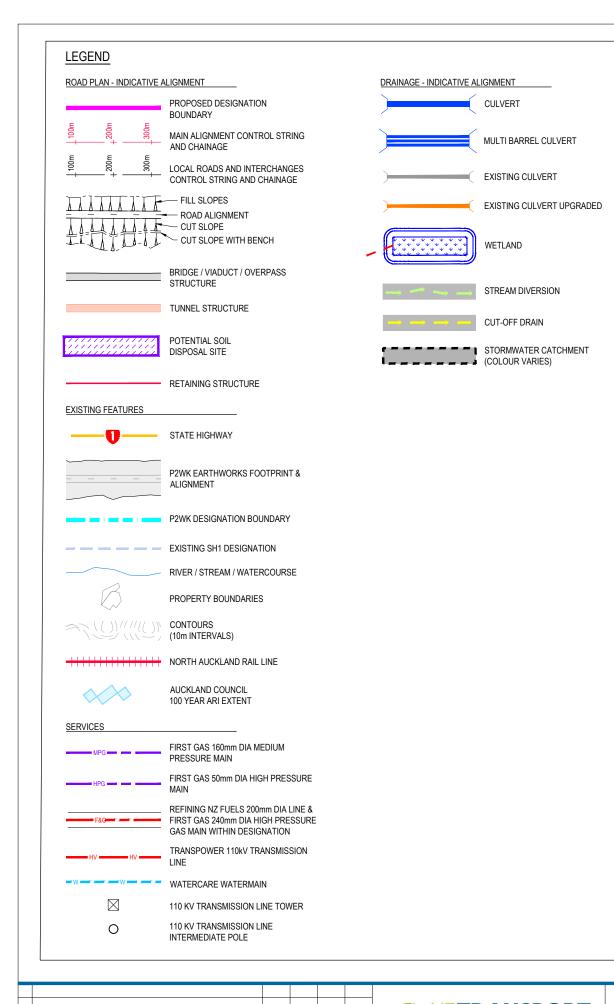




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| | Project | Project WARKWORTH TO WELLSFORD PROJECT | | | | | | | | | |
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| • | Title | Title DRAWING INDEX SHEET 2 OF 2 | | | | | | | | | |
| al Size | Contra | ict: | PA4156 | Drawing No: | G-003 | Sheet: | 2 OF 2 | Rev: | 0 | | |



GENERAL NOTES

- 1. THE ALIGNMENT IS INDICATIVE ONLY.
- 2. ALL MEASUREMENTS ARE IN METRES UNLESS OTHERWISE STATED.
- 3. ALL NAMED ROADS ARE ASSUMED TO BE PUBLIC UNLESS STATED OTHERWISE.
- 4. AERIAL IMAGE FROM AUCKLAND COUNCIL AERIAL SURVEY, 2012.
- DIGITAL TERRAIN MODEL IS COMBINED FROM AERIAL SURVEY (AUG 2010) & AUCKLAND COUNCIL 5. LIDAR DATA TO NZTM PROJECTION.
- 6. EXISTING PROPERTY BOUNDARIES SOURCED FROM LINZ, MAY 2019 UPDATE.
- 7 ALL STREAMS WILL BE BRIDGED, CULVERTED AND/OR DIVERTED. REFER SW SERIES FOR INDICATIVE CULVERTS AND DIVERSION LOCATIONS.
- ALL SOIL DISPOSAL SITE LOCATIONS AND SHAPES ARE INDICATIVE ONLY. ALL SOIL DISPOSAL SITE 8. WORKS ARE TO OCCUR OUTSIDE OF ANY STREAM CHANNEL.
- 9. NO CULVERTS LONGER THAN 30m WILL BE LOCATED IN A SIGNIFICANT ECOLOGICAL AREA (SEA) AS IDENTIFIED IN THE AUCKLAND UNITARY PLAN.

OPERATIONAL WATER MANAGEMENT NOTES

- SOME EXISTING CULVERTS BENEATH STATE HIGHWAY 1 ARE SHOWN, WHERE INDICATIVE DESIGN PROPOSES UPGRADES TO THESE CULVERTS. OTHER EXISTING CULVERTS BENEATH STATE HIGHWAY 1 MAY NOT BE SHOWN.
- 2. 100 YEAR ARI HEADWATER EXTENTS ARE NOT SHOWN AT SOIL DISPOSAL SITES, AS THE FINAL SURFACE PROFILE IS SUBJECT TO DETAILED DESIGN.
- 3. 100 YEAR ARI FLOOD EXTENTS SHOWN ARE BASED ON AUCKLAND COUNCIL GIS LAYER, JULY 2013, AND THEREFORE ARE WITHOUT THE PROJECT IN PLACE.
- 4 WATER MANAGEMENT IS NOT SHOWN FOR ACCESS TRACKS, SUCH AS THOSE PROVIDING ACCESS TO THE INDICATIVE ALIGNMENT WITHIN THE FORESTRY AREA. CROSS DRAINAGE IS TO BE MANAGED BY CULVERTING, LONGITUDINAL DRAINAGE IS TO BE MANAGED BY VEGETATED ROADSIDE DRAINS.
- NO CULVERTS LONGER THAN 30m WILL BE LOCATED IN A SIGNIFICANT ECOLOGICAL AREA (SEA) AS 5. IDENTIFIED IN THE AUCKLAND UNITARY PLAN. CULVERTS LOCATIONS ARE INDICATIVE ONLY.
- CULVERT INFORMATION REFER TO CULVERT SUMMARY TABLE IN STORMWATER REPORT. 6
- WETLAND SHAPE IS INDICATIVE ONLY TO PRESENT PROPOSED LOCATION AND SIZING. SHAPING TO 7 CONTOURS IS SUBJECT TO DETAILED DESIGN.
- STREAM DIVERSIONS AND CUT OFF DRAINS ARE BASED OFF EXISTING CONTOURS. WHERE A SOIL 8. DISPOSAL SITE IS TO BE USED, THE STREAM DIVERSION OR CUT OFF DRAIN SHALL BE AMENDED TO SUIT.

SERVICES NOTES

- POWER DISTRIBUTION AND COMMUNICATION CABLING (i.e. VECTOR, CHORUS, SPARK, VODAFONE) ROUTES ARE NOT SHOWN. AFFECTED ASSETS WILL BE RELOCATED OR PROTECTED
- THE SERVICES SHOWN SHOULD BE CONSIDERED INDICATIVE ONLY AND ARE BASED ON RECORDS 2 SUPPLIED BY THE UTILITY COMPANIES. PRIVATE SERVICES AND CONNECTIONS ARE NOT SHOWN.



Cad File No: W:W2W Designation and Resource Consents/02 Phase 2 Pre Lodgement/2.1 Engineering Design/2.1.3 Focused Design/2.1.3.8 CAD (drawings production)/PA4156-G-010_LM.dwg

No Revision Note: * indicates signatures on original issue of drawing or last revision of drawing Drawn Checked Approved Date

WAS FCW* BN* 07/19

TRANSPORT

AGENCY

WAKA KOTAHI

Plot Date: 3 July 2019 - 12:39 PM

0 ISSUED FOR RMA APPROVALS

GLOSSARY

ARI = ANNUAL RECURRENCE INTERVAL MSE = MECHANICALLY STABILISED EARTH P2WK = PUHOI TO WARKWORTH PROJECT

> ALL INFORMATION SHOWN IS SUBJECT TO FINAL DESIGN AND THE DETAILS MAY CHANGE. AREAS AND MEASUREMENTS ARE SUBJECT TO SURVEY

| | Project | Project WARKWORTH TO WELLSFORD PROJECT | | | | | | | | | |
|---------|--------------------------------|--|--------|-------------|-------|--------|--------|------|---|--|--|
| | Title GENERAL NOTES AND LEGEND | | | | | | | | | | |
| al Size | Contra | act: | PA4156 | Drawing No: | G-010 | Sheet: | 1 OF 1 | Rev: | 0 | | |