

File: 15009

06th October, 2015

Cedric Daniel
Senior Development Engineer
Auckland Council
Level 1
The Strand
Takapuna



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BEA4016570 at 88 Ocean View Road, Northcote.

Design Report – Considered Options.

Initially there were five options considered.

Refer to the attached drawing sheet 15009-C01A.

Due to the contour of the land the options (1-4) that connected the southern corner of No. 88 Ocean View were preferred as that is the lowest part of the site and therefore able to service the entire site.

- Option 1** Follows the contour of the land and proposes to connect to an existing cesspit chamber on a 150mm lead that connects to an existing storm water manhole. This option involves only one other property and was a preferred option until a storm water detention tank was found to be in the rear yard of 2/90 Ocean View blocking the proposed route.
- Option 2** Follows the contour of the land and proposes to connect directly to the existing storm water manhole located in the rear side yard of 2/92 Ocean View. When the public storm water line was installed in the late 1980's to early 1990's this was the intended route for future extension. This option involves three other properties, 92 & 2/92 Ocean View Road and 25A Martin Crescent. This is the preferred option as the existing storm water line has the design capacity to cater for the proposed additional catchment as was originally intended. The proposed methodology for this route is to using thrusting and/or directional drilling as this is much less invasive and disruptive than open trenching. The majority of the works will be conducted from the rear southern corner of 88 Ocean View Road. Minor connection works will be undertaken from inside the manhole located at 2/92 Ocean View Road. Worst case scenario being a minor access excavation may be required directly beside the manhole over the entry point. No access will be required from 25A Martin Crescent, merely permission for the line to pass underneath the rear yard of. All disturbed/affected property will be made good

upon completion of the proposed works.

Options 3&4 Follow the contour of the land but were never really serious contenders as the storm water line that they would connect to is already at capacity for its catchment. In addition, option 4 has a storm water detention tank blocking its path in the side yard of 2/23 Martin Crescent.

Option 5 Does not follow the contour of the land and the existing storm water manhole that it connects to is shallow therefore not all of the rear of 88 Ocean View Road could be serviced by it without pumping. This storm water line is also at capacity for its catchment.

Should you have any queries or require any additional information please contact the undersigned.

Yours Sincerely

A handwritten signature in black ink, appearing to read 'S J Red', written over a horizontal line.

Authorized By:
Stephen J Red
B.E. (Hons)(Civil)
MIPENZ (Civil, Structural); CP Eng.; Int. PE Director
for Chris W Howell and Associates Ltd.

NOTES

1. THE ENGINEER HAS NOT CONDUCTED A VISUAL SURVEY OF THE PROPOSED WORK.
2. ALL DIMENSIONS SHOWN ARE IN METERS UNLESS OTHERWISE SPECIFIED.
3. THE PROPOSED WORK IS TO BE CONDUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL GOVERNMENT AND THE REQUIREMENTS OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 220, 2012 EDITION.
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7. THE PROPOSED WORK IS TO BE CONDUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL GOVERNMENT AND THE REQUIREMENTS OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 220, 2012 EDITION.
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9. THE PROPOSED WORK IS TO BE CONDUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL GOVERNMENT AND THE REQUIREMENTS OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 220, 2012 EDITION.
10. THE PROPOSED WORK IS TO BE CONDUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL GOVERNMENT AND THE REQUIREMENTS OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 220, 2012 EDITION.

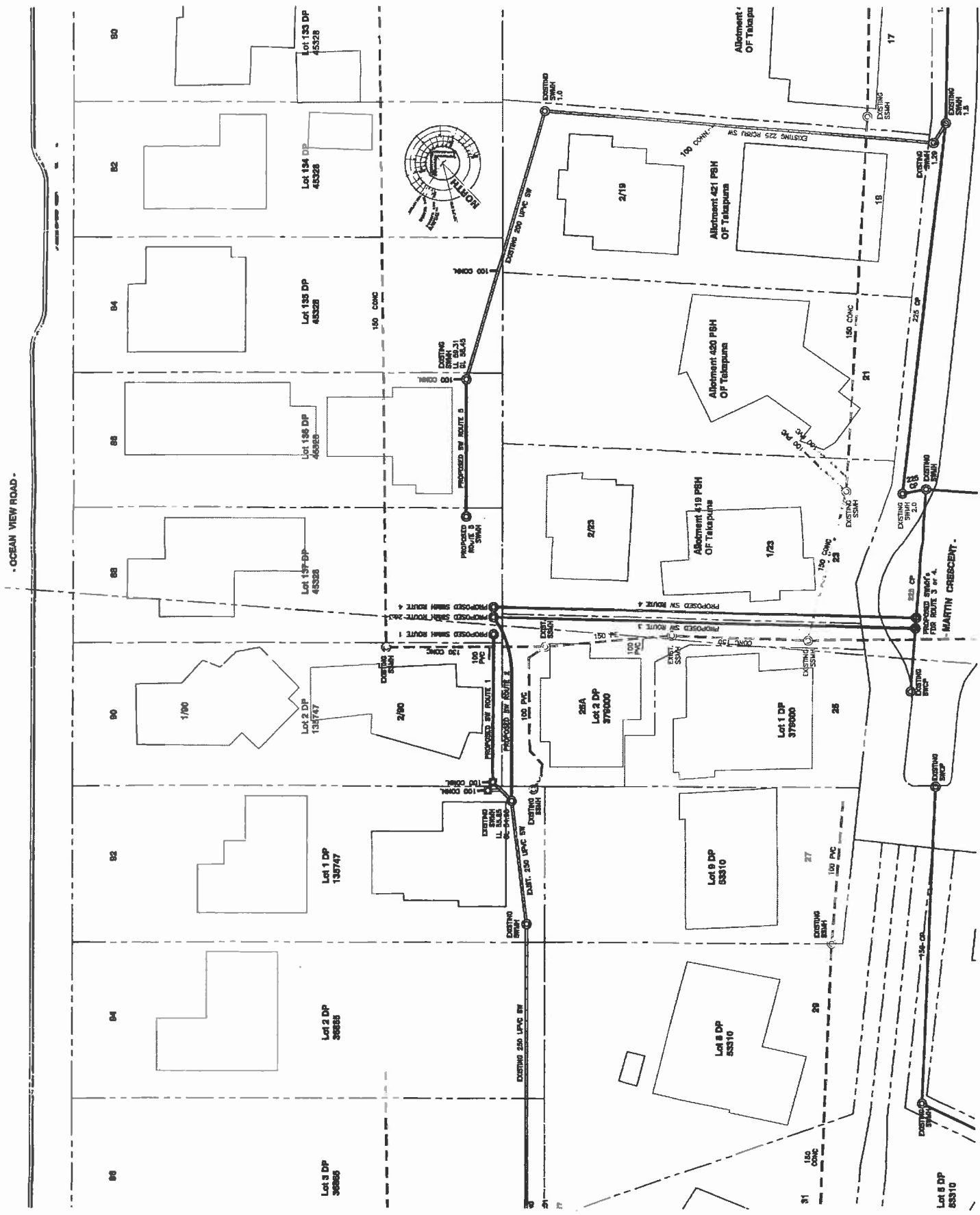
NO.	DATE	REVISIONS/DETAILS	BY

ORRIS W. ROWELL & ASSOCIATES
 ENGINEERS
 100, 101 & 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

PROPOSED DEVELOPMENT & STORMWATER CONNECTION FOR 88 OCEAN VIEW ROAD NORTHCOTE FOR H & M HING

SITE PLAN POSSIBLE STORMWATER CONNECTION ROUTES

DATE: 15/04/2014
 DRAWN: J.M.R.
 CHECKED: J.M.R.
 SCALE: 1:500
 PROJECT NO: 15009
 SHEET NO: C01
 TOTAL SHEETS: A



• OCEAN VIEW ROAD •

MARTIN CRESCENT