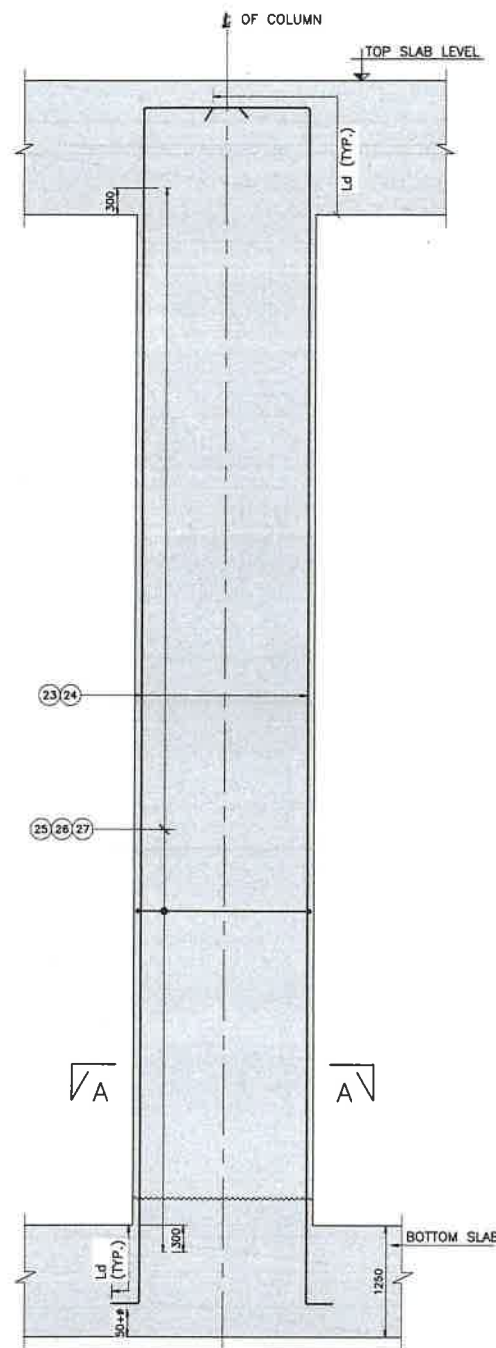
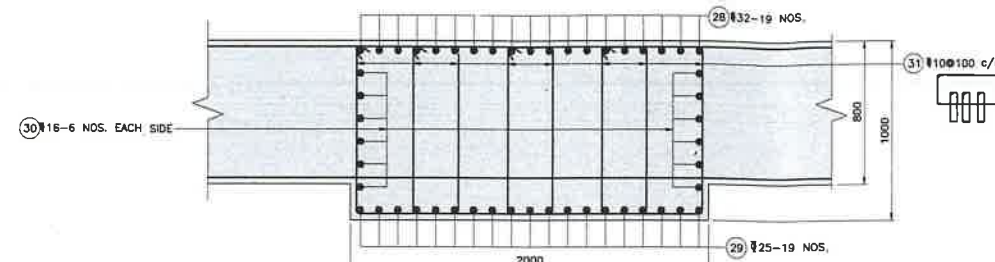


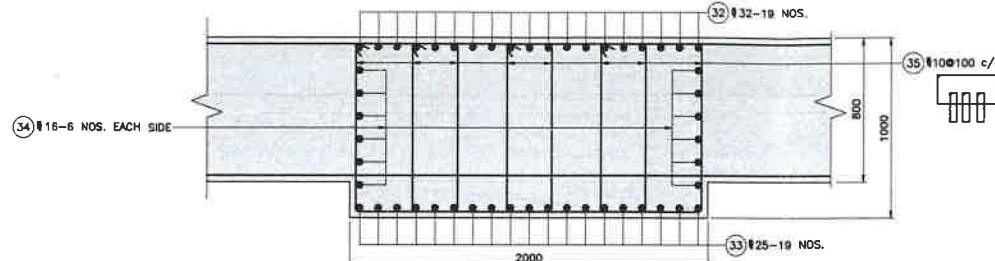
REINFORCEMENT DETAIL OF COLUMN
SECTION A-A
(SCALE 1:20)



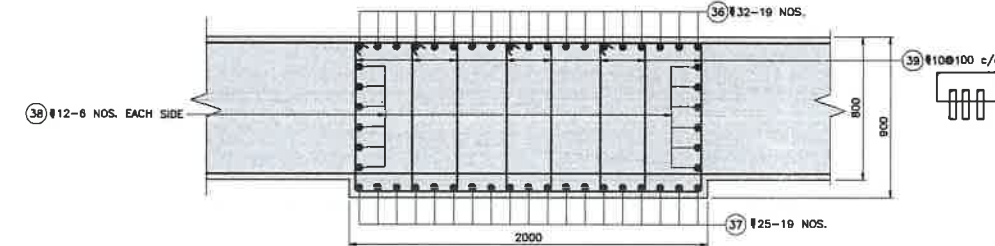
TYP. REINFORCEMENT DETAILS
FOR COLUMN
(SCALE 1:40)



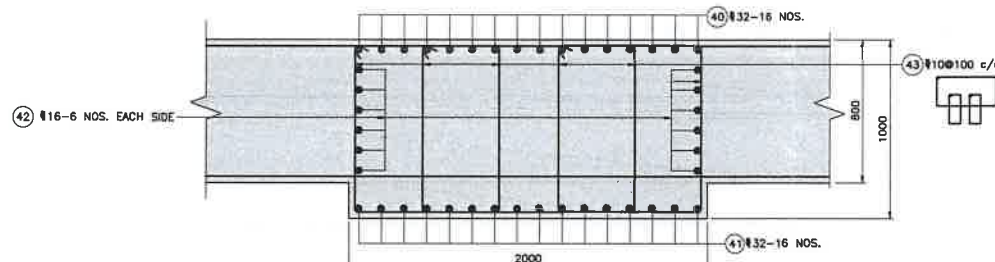
TYPICAL CROSS SECTION OF BEAM REINFORCEMENT
(B1, B2, B3, B10, B11 & B12)
(SCALE 1:20)



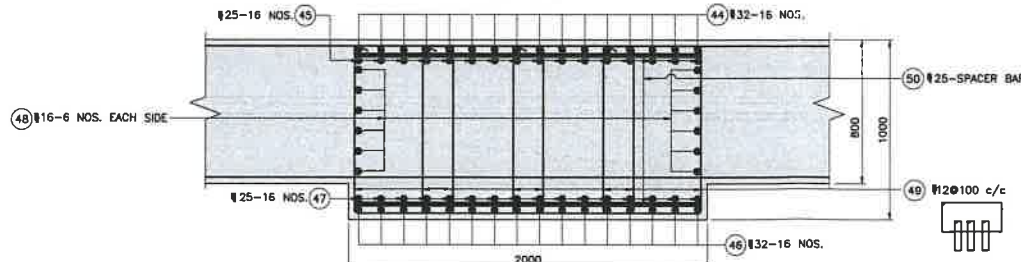
TYPICAL CROSS SECTION OF BEAM REINFORCEMENT
(B5, B6, B7 & B8)
(SCALE 1:20)



TYPICAL CROSS SECTION OF BEAM REINFORCEMENT
(B4 & B9)
(SCALE 1:20)



TYPICAL CROSS SECTION OF BEAM REINFORCEMENT
(TB1 & TB2)
(SCALE 1:20)



TYPICAL CROSS SECTION OF BEAM REINFORCEMENT
(EJB1 & EJB2)
(SCALE 1:20)

REINFORCEMENT FOR COLUMNS

BAR MARK	DESCRIPTION	DIA OF BAR	COLUMN SIZE	
			2000 x 2000	
			SHAPE	SPACING/NOS
23	LAYER 1	32	300	11x2 NOS
24	LAYER 1	32	300	9x2 NOS
25	OUTER STIRRUPS	12		150 c/c
26	STIRRUPS	10-6 LEGGED		150 c/c
27	STIRRUPS	10-6 LEGGED		150 c/c

NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METER, UNLESS OTHERWISE SPECIFIED.
- DIMENSIONS ARE NOT TO BE SCALED, ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH GENERAL ARRANGEMENT DRAWINGS AND RAIL ALIGNMENT DRAWINGS.
- SEISMIC ZONE - II
- IF ANY AMBIGUITY IS FOUND IN DRAWINGS OR AT SITE, THE SAME SHALL BE BROUGHT TO DESIGNER'S/ENGINEER'S NOTICE BEFORE EXECUTION.
- REINFORCEMENT STEEL SHALL BE HYSD BARS OF GRADE Fe 500 CONFORMING TO IS:1786-2008
- GRADE OF CONCRETE SHALL BE AS FOLLOWS:
LEVELING COURSE : PCC M20
BEAM : RCC M35
COLUMN : RCC M35
- CLEAR COVER TO ALL REINFORCEMENT SHALL BE:
BEAM : 50 mm
COLUMN : 50 mm
- THE NOMINAL MAXIMUM SIZE OF AGGREGATE TO BE USED SHALL BE 20mm.
- CONTRACTOR TO ENSURE THAT THE CONCRETE IS SOUND AND THE MATRIX HAS NO HONEYCOMBING OR OTHER DEFECTS.
- ANCHORAGE LENGTH, LAP LENGTH, BAR SPACING'S AND OTHER REINFORCEMENT REQUIREMENT SHALL COMPLY WITH SPECIFICATIONS GIVEN IN IRS-CBC CLAUSE 15.9.6.6.
- NOT MORE THAN 50% OF THE BAR SHALL BE LAPPED AT ANY LOCATION.
- ANY SHIFTING IN COLUMN AT SITE, SHALL BE BROUGHT TO THE NOTICE OF DDC.

NOTES		LEGEND		REFERENCE DRAWINGS		REFERENCE DOCUMENTS		KEY PLAN		STATION BOX KEY PLAN		EMPLOYER			
				1. 02077-BSRP-CR2-C-UB-0-10-1306 (SH-1 OF 3) : GENERAL ARRANGEMENT DRAWING OF KANAKANAGAR STATION 2. 02077-BSRP-CR2-C-UB-0-10-1306 (SH-2 OF 3) : GENERAL ARRANGEMENT DRAWING OF KANAKANAGAR STATION 3. 02077-BSRP-CR2-C-UB-0-10-1307 (SH-1 OF 3) : DIMENSION DETAIL OF KANAKANAGAR STATION (AT GRADE) 4. 02077-BSRP-CR2-C-UB-0-10-1307 (SH-2 OF 3) : DIMENSION DETAIL OF KANAKANAGAR STATION (AT GRADE) 5. 02077-BSRP-CR2-C-UB-0-10-1307 (SH-3 OF 3) : DIMENSION DETAIL OF KANAKANAGAR STATION (AT GRADE)		DOC-BSRP-CR2-AG-04H-BR-10-1567 : DESIGN OF STATION BOX AT CHS-002 OF KANAKANAGAR STATION						RAIL INFRASTRUCTURE DEVELOPMENT COMPANY (KARNATSKA) LIMITED AECOM egis WSP AECOM-EGIS-WSP		PROJECT: BENGALURU SUBURBAN RAILWAY PROJECT (BSRP) K-RIDE CORRIDOR - 2 DRAWING TITLE: REINFORCEMENT DETAIL OF COLUMN AND BEAM OF KANAKANAGAR STATION (AT GRADE) SHEET-3 OF 3	
REVISIONS NO. DATE BY DESCRIPTION		CONTRACTOR TRANSPORTATION INFRASTRUCTURE DEVELOPMENT COMPANY (KARNATSKA) LIMITED DETAILED DESIGN CONSULTANT (DDC) STUR CONSULTANTS PVT. LTD. 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		QUALITY ASSURANCE The responsibility of control check and verification of accuracy, correctness, completeness, adaptation and full compliance of Contract provisions in respect of design analysis and drawing shall rest with Design & Build Contractor. DDC PC Contractor SKD DATE 22.07.2024 22.07.2024 22.07.2024 NAME MLR SDV PC KVM PREPARED BY CHECKED BY APPROVED BY ISSUED BY		CHECKED NAME SDV REVIEWED NAME SDV PROJECT DIRECTOR NAME SDV DATE		EMPLOYER RAIL INFRASTRUCTURE DEVELOPMENT COMPANY (KARNATSKA) LIMITED GENERAL CONSULTANTS AECOM egis WSP AECOM-EGIS-WSP		DRAWING NO. Q2077-BSRP-CR2-C-UB-0-10-1309 SCALE: AS SHOWN DATE 10.07.2024 SHEET-3 OF 3					