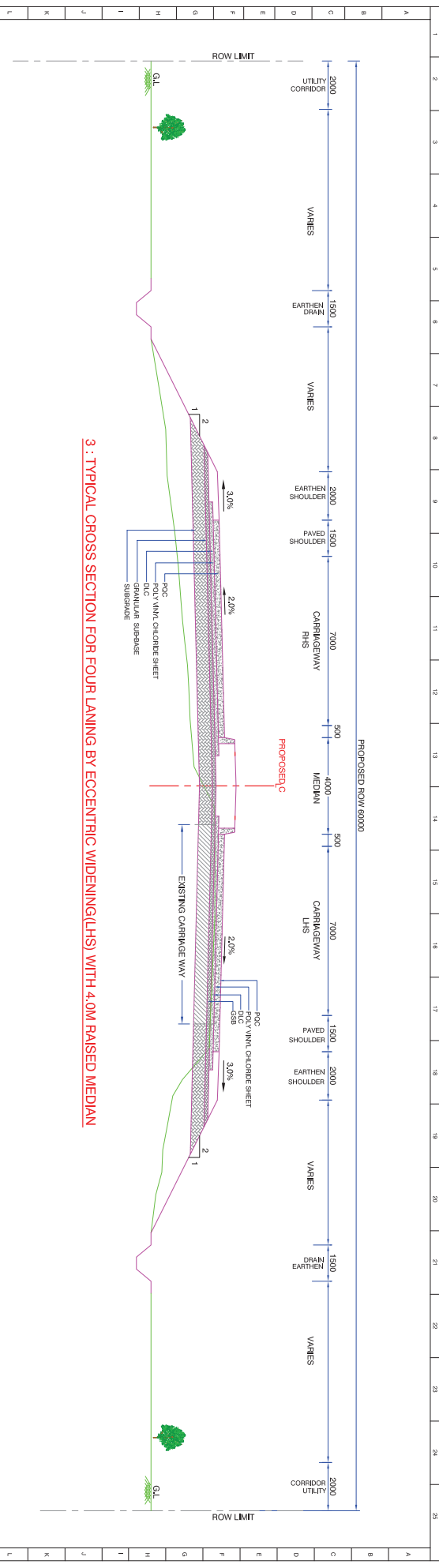
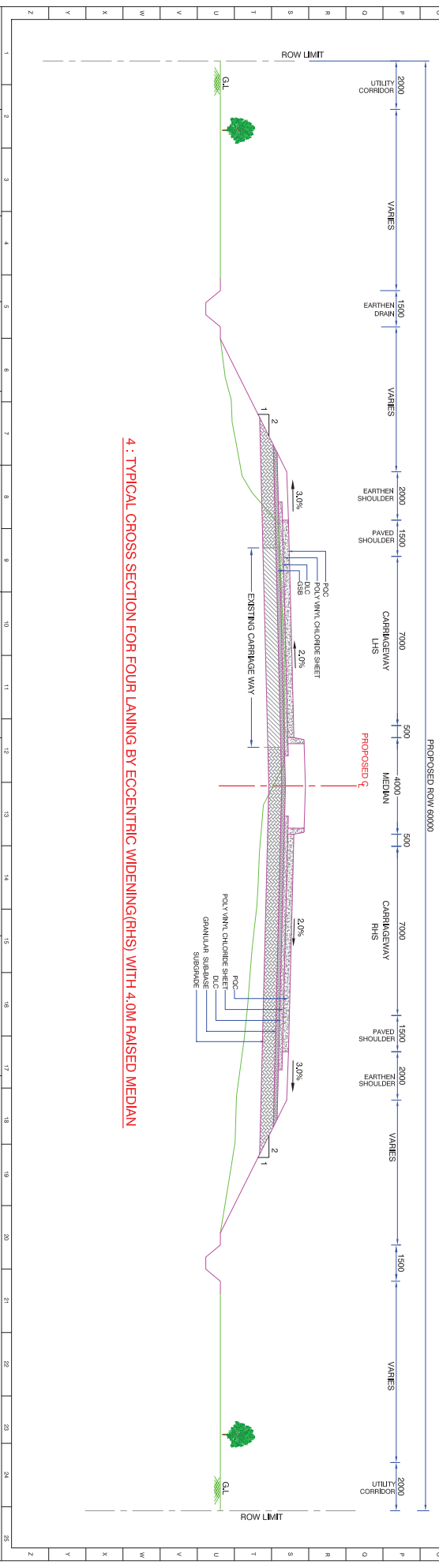


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|-------------------------|----------------------------|-------------------------------|---------------------------------|--------------------|--------------|--|---|---|
| DESIGNED BY GAUSHAMA | DRAWN BY M.D. SHAJADEEN | CHECKED BY M.KHALEEL BASHA | APPROVED BY P. SRINIVASA RAO | DATE 28-01-2016 | LEGEND | CONSULTANTS: | CLIENT: | PROJECT: |
| REVISION NO. 1 DATE | 28-01-16 | Final Detailed Project Report | Proposed Cl. | Proposed ROW | NOT TO SCALE | aanvee associates architects engineers & consultants pvt.ltd Tel: +91-40-33737633 fax: +91-40-33734677 | NATIONAL HIGHWAYS AUTHORITY OF INDIA | PREPARATION OF DETAILED PROJECT REPORT FOR REHABILITATION AND UPGRADATION TO 4-LANE CONFIGURATION OF AUSA - NANDED - WARANANGA & WARDHA - BUTIBORI SECTION OF NH-361 IN THE STATE OF MAHARASHTRA |
| REVISION | | | | | | | | TITLE: WARDHA - BUTIBORI PACKAGE |

DRG. NO. NHM /NH361 /MSC /TCS /AL /01

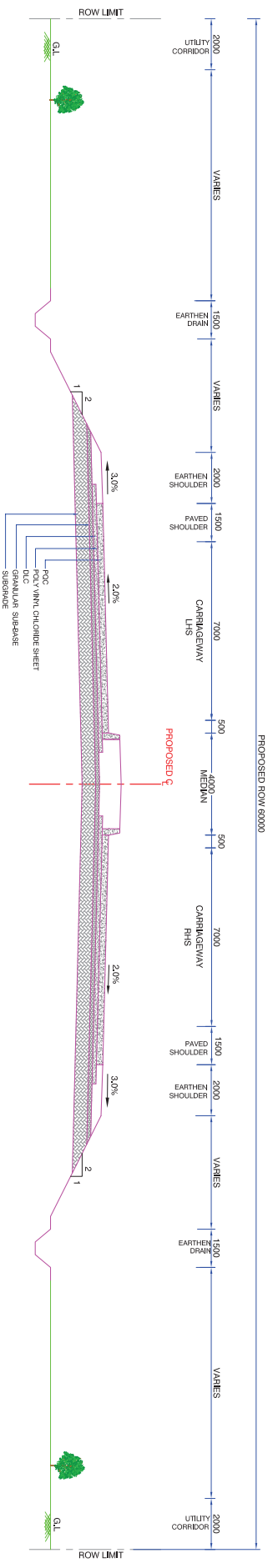


3 : TYPICAL CROSS SECTION FOR FOUR LANNING BY ECCENTRIC WIDENING(LHS) WITH 4.0M RAISED MEDIUM

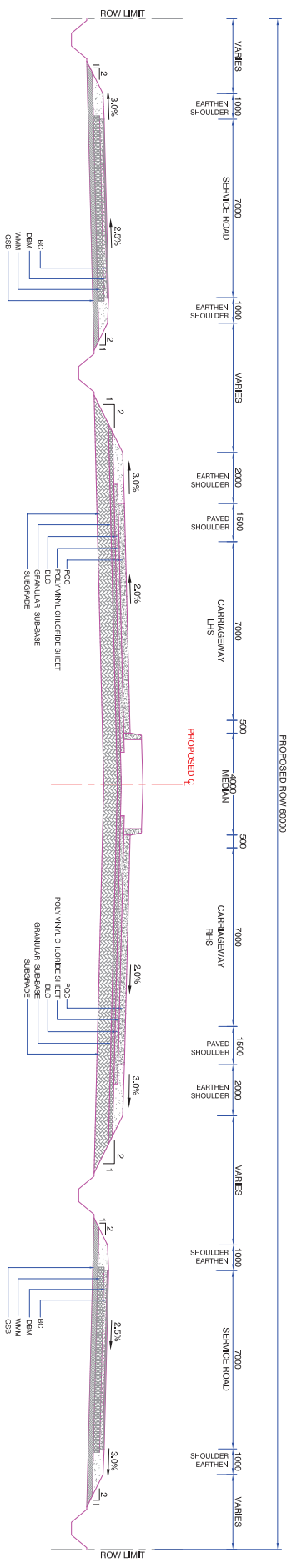


4 : TYPICAL CROSS SECTION FOR FOUR LANNING BY ECCENTRIC WIDENING(RHS) WITH 4.0M RAISED MEDIUM

| | | | | | |
|---|---------------------------|--------------------------------|--|--------------------|--|
| DESIGNED BY GABRISHNA | DRAWN BY MD. SHAJADEEN | CHECKED BY M. KHALEEL BASHA | APPROVED BY P. SRINIVASA RAO | DATE 29-01-2016 | LEGEND Proposed CL Final Detailed Project Report |
| | REVISION NO. 1 | DATE 29-01-16 | DESCRIPTION Final Detailed Project Report | REVISION BY | |
| <p>PROJECT: PREPARATION OF DETAILED PROJECT REPORT FOR REHABILITATION AND UPGRADE TO 4-LANE CONFIGURATION OF AUSA - NANDED - WARANGA & WARDHA - BUTIBORI SECTION OF NH-361 IN THE STATE OF MAHARASHTRA</p> <p>TITLE: TYPICAL CROSS SECTIONS WARDHA - BUTIBORI PACKAGE</p> <p>DRG. NO. NHM /NH-361 /MSC /TCS /AL /02</p> | | | | | |
| <p>CONSULTANTS: aanve associates architects engineers & consultants pvt.ltd Tel: +91-40-23737633 fax: +91-40-23734677</p> | | | | | |
| <p>CLIENT: NATIONAL HIGHWAYS AUTHORITY OF INDIA</p> | | | | | |
| <p>NOT TO SCALE</p> | | | | | |



5 : TYPICAL CROSS SECTION FOR FOUR LANING FOR BYPASS AND RE ALIGNMENT



5A : TYPICAL CROSS SECTION FOR FOUR LANING WITH SERVICE ROADS FOR BYPASS AND RE ALIGNMENT

| | | | | | | | | | | |
|--------------------------|----------------------------|--------------------------------|------------------------------------|--------------------|--|--------------|--|--|--|---|
| DESIGNED BY GAURISHMA | DRAWN BY M.D. SHAJADEEN | CHECKED BY M. KHATEEB BASHA | APPROVED BY P. S. SHINUMASA RAO | DATE 28-01-2016 | REVISION BY Final Detailed Project Report | LEGEND | CONSULTANTS: aanvee associates architects engineers & consultants pvt.ltd Tel: +91-40-33737633 fax: +91-40-33734077 | CLIENT: NATIONAL HIGHWAYS AUTHORITY OF INDIA | PROJECT: PREPARATION OF DETAILED PROJECT REPORT FOR REHABILITATION AND UPGRADATION TO 4-LANE CONFIGURATION OF AUSA - NANDED - WARANNGA & WARDHA - BUTIBORI SECTION OF NH-361 IN THE STATE OF MAHARASHTRA | TITLE: TYPICAL CROSS SECTIONS WARDHA - BUTIBORI PACKAGE |
| REVISION | REVISION NO. DATE | DESCRIPTION | | REVISION BY | PROPOSED CL | NOT TO SCALE | | | | |
| | R0 | 28-01-16 | | | Proposed ROW | | | | | |

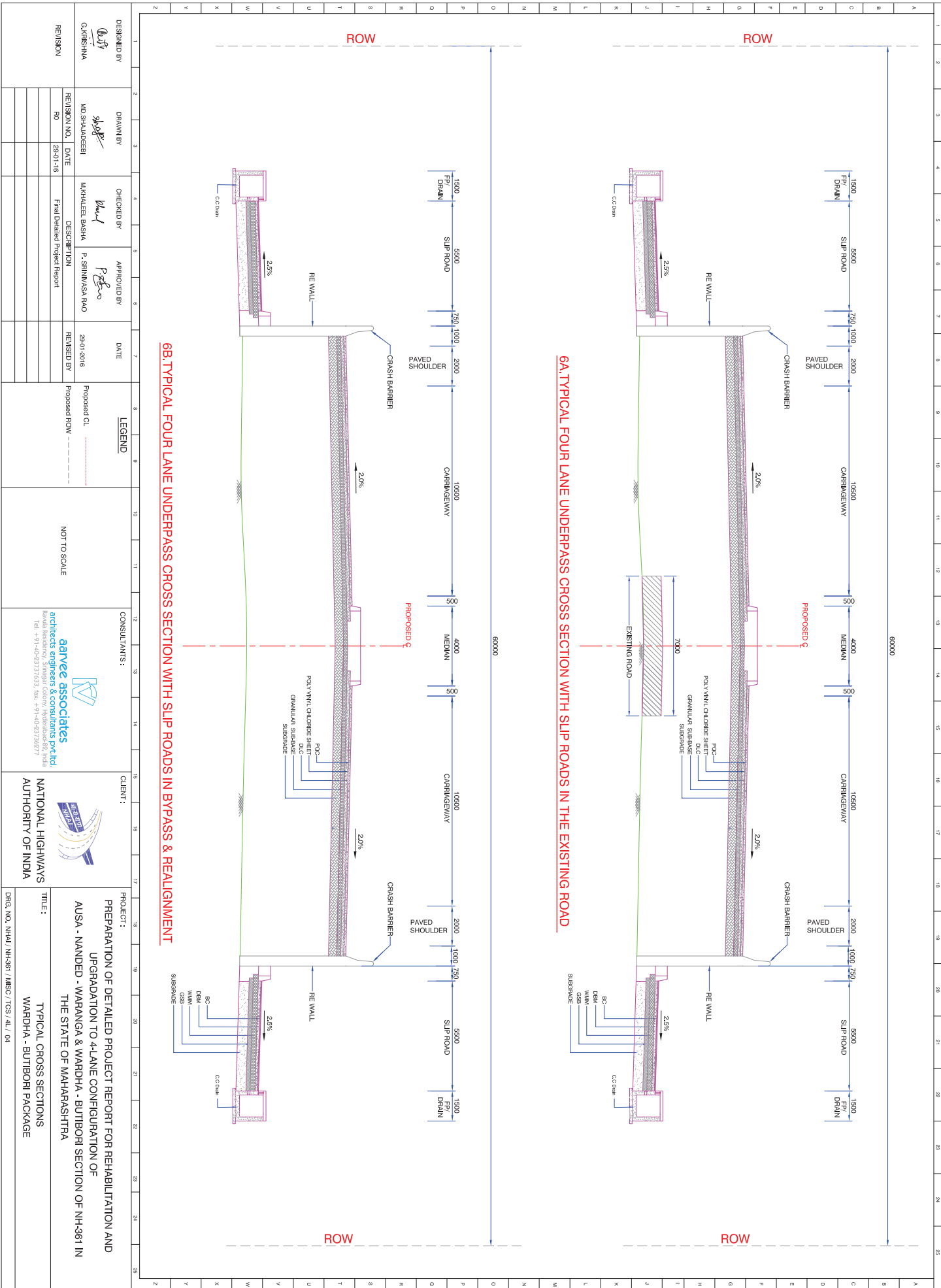
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| DESIGNED BY GAURISHMA | DRAWN BY M.D. SHAJADEEN | CHECKED BY M. KHATEEB BASHA | APPROVED BY P. S. SHINUMASA RAO | DATE 28-01-2016 | REVISION BY Final Detailed Project Report |
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| REVISION | REVISION NO. DATE | DESCRIPTION | REVISION BY |
| | R0 | 28-01-16 | |

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| CONSULTANTS: aanvee associates architects engineers & consultants pvt.ltd Tel: +91-40-33737633 fax: +91-40-33734077 | CLIENT: NATIONAL HIGHWAYS AUTHORITY OF INDIA |
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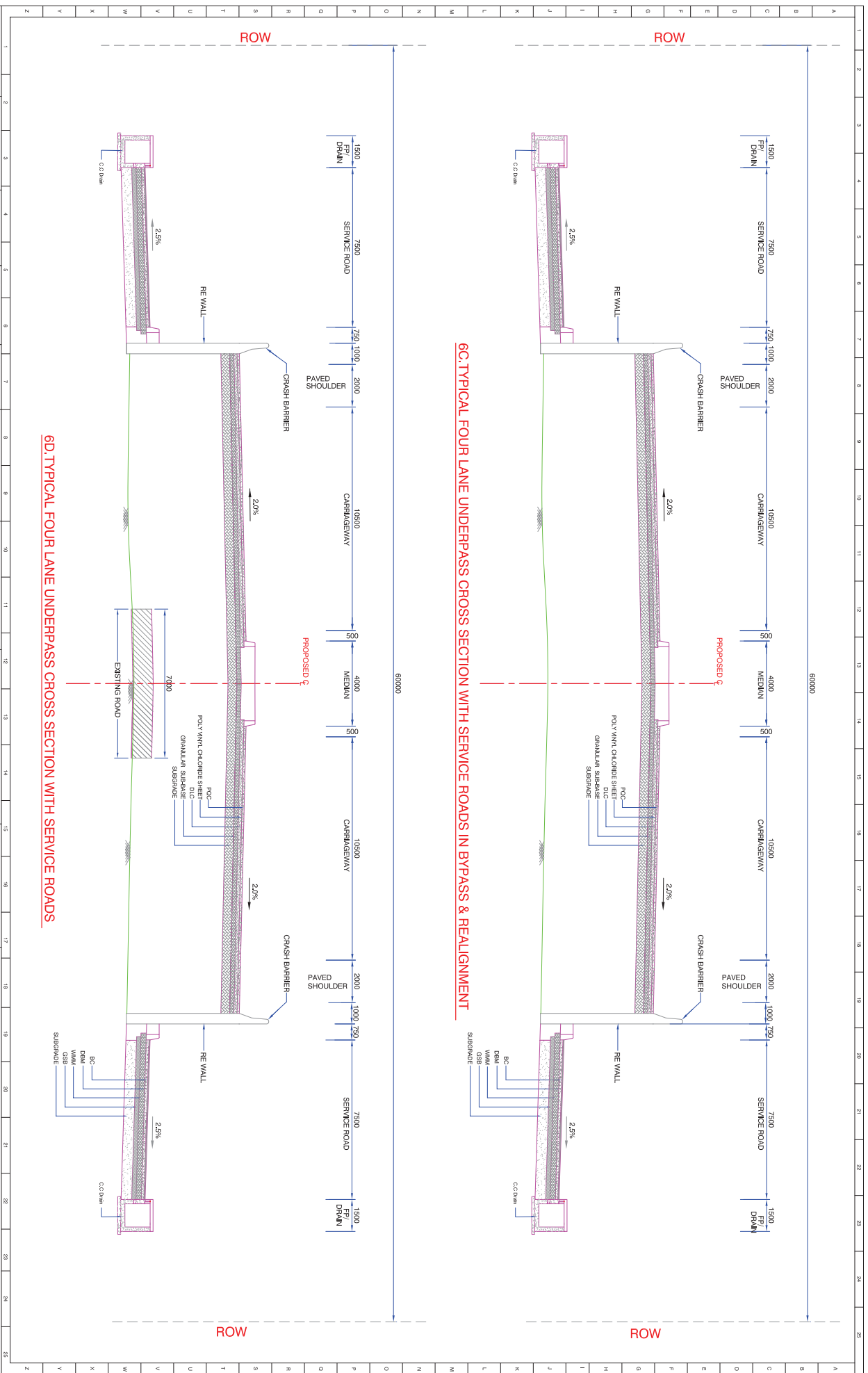
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|--|---|
| PROJECT: PREPARATION OF DETAILED PROJECT REPORT FOR REHABILITATION AND UPGRADATION TO 4-LANE CONFIGURATION OF AUSA - NANDED - WARANNGA & WARDHA - BUTIBORI SECTION OF NH-361 IN THE STATE OF MAHARASHTRA | TITLE: TYPICAL CROSS SECTIONS WARDHA - BUTIBORI PACKAGE |
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6A. TYPICAL FOUR LANE UNDERPASS CROSS SECTION WITH SLIP ROADS IN THE EXISTING ROAD

6B. TYPICAL FOUR LANE UNDERPASS CROSS SECTION WITH SLIP ROADS IN BYPASS & REALIGNMENT

| | | | | | | | | | |
|-------------------------|----------------------------|------------------------------|--|--------------------|-----------------------------|---|--|---|---|
| DESIGNED BY GAUSHAMA | DRAWN BY MD. SHAJAUDDIN | CHECKED BY MKHATEEB BASHA | APPROVED BY P. SRINIVASA RAO | DATE 29-01-2016 | LEGEND | CONSULTANTS: aanvee associates architects engineers & consultants pvt. ltd. Tel: +91-40-33737633 Fax: +91-40-33734977 | CLIENT: NATIONAL HIGHWAYS AUTHORITY OF INDIA | PROJECT: PREPARATION OF DETAILED PROJECT REPORT FOR REHABILITATION AND UPGRADEATION TO 4-LANE CONFIGURATION OF AUSA - NANDED - WARANGA & WARDHA - BUTIBORI SECTION OF NH-361 IN THE STATE OF MAHARASHTRA | TITLE: TYPICAL CROSS SECTIONS WARDHA - BUTIBORI PACKAGE |
| REVISION | REVISION NO. 1 | DATE 29-01-16 | DESCRIPTION Final Detailed Project Report | REVISION BY | Proposed CL Proposed ROW | | | | |

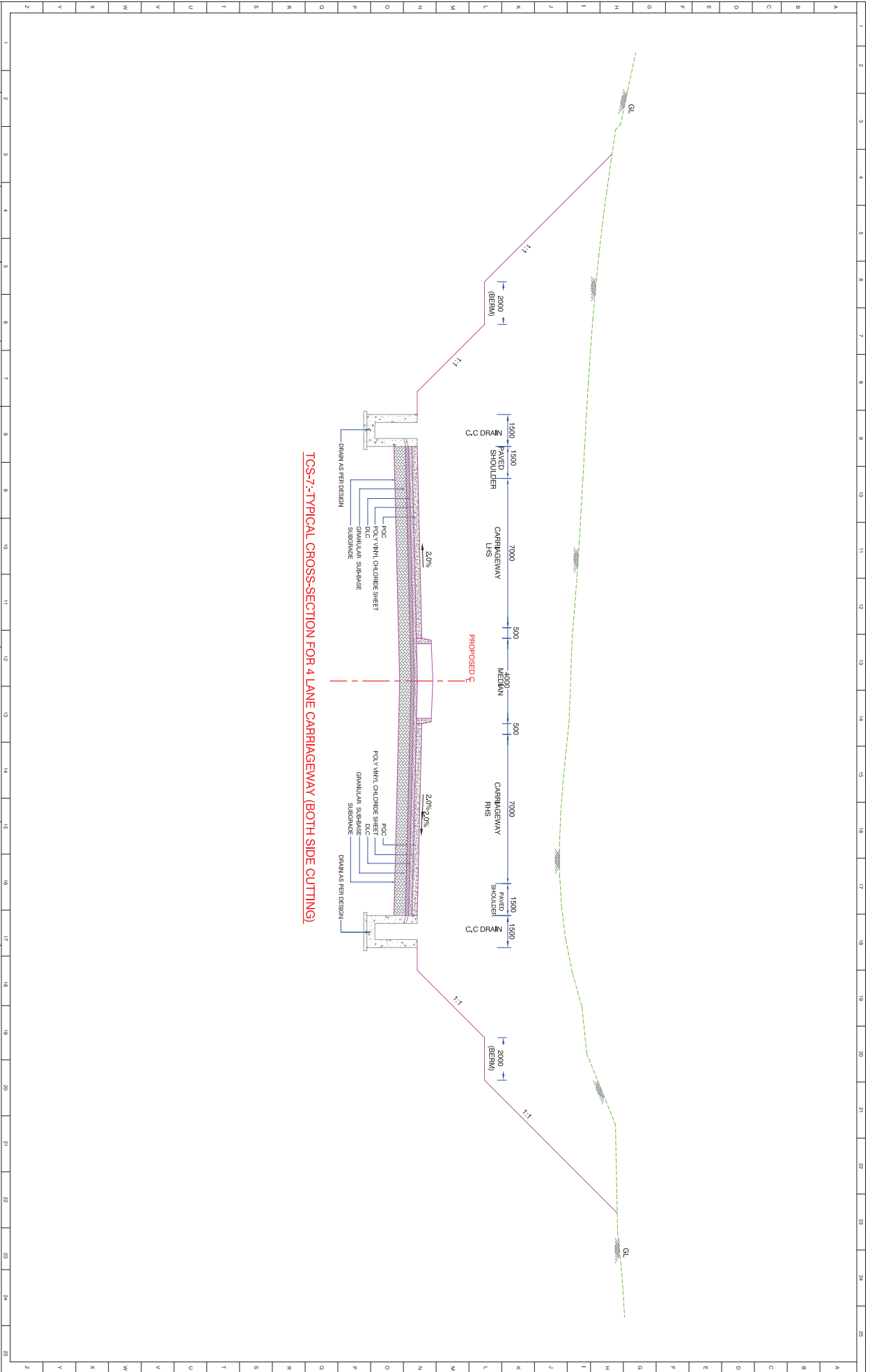


6C. TYPICAL FOUR LANE UNDERPASS CROSS SECTION WITH SERVICE ROADS IN BYPASS & REALIGNMENT

6D. TYPICAL FOUR LANE UNDERPASS CROSS SECTION WITH SERVICE ROADS

| | | | | | | | | | |
|-------------------------|---------------------------|--------------------------------|---------------------------------|--------------------|--------------|--------------|--|---|--|
| DESIGNED BY GAUSHAMA | DRAWN BY MD. SHAJADEEN | CHECKED BY M. KHALEEL BASHA | APPROVED BY P. SRINIVASA RAO | DATE 29-01-2016 | REVISIONS BY | LEGEND | CONSULTANTS: | CLIENT: | PROJECT: |
| | REVISION NO. DATE | DESCRIPTION | | REVISION BY | Proposed CL | NOT TO SCALE | aanvee associates architects engineers & consultants pvt.ltd Tel: +91-40-33737633 Fax: +91-40-33734677 | NATIONAL HIGHWAYS AUTHORITY OF INDIA | PREPARATION OF DETAILED PROJECT REPORT FOR REHABILITATION AND UPGRADATION TO 4-LANE CONFIGURATION OF AUSA - NANDED - WARDANGA & WARDHA - BUTIBORI SECTION OF NH-361 IN THE STATE OF MAHARASHTRA |
| REVISION | R0 | Final Detailed Project Report | | REVISION BY | Proposed ROW | | | | TITLE: WARDHA - BUTIBORI PACKAGE |
| | | | | | | | | | DRG. NO. NHM /NH361 /MSC /TCS /AL /05 |

TCS-7: TYPICAL CROSS-SECTION FOR 4 LANE CARRIAGEWAY (BOTH SIDE CUTTING)



| | | | | |
|-------------------------|---------------------------|-------------------------------|---------------------------------|--------------------|
| DESIGNED BY GAUSHAMA | DRAWN BY MD. SHAJADEEN | CHECKED BY M. RAJEEV BASHA | APPROVED BY P. SRINIVASA RAO | DATE 29-01-2016 |
| REVISION | REVISION NO. DATE | DESCRIPTION | REVISION BY | |
| | R0 | Final Detailed Project Report | | |

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| LEGEND |
| Proposed CL |
| Proposed ROW |
| NOT TO SCALE |

CONSULTANTS:

aanvee associates
 architects engineers & consultants pvt.ltd
 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

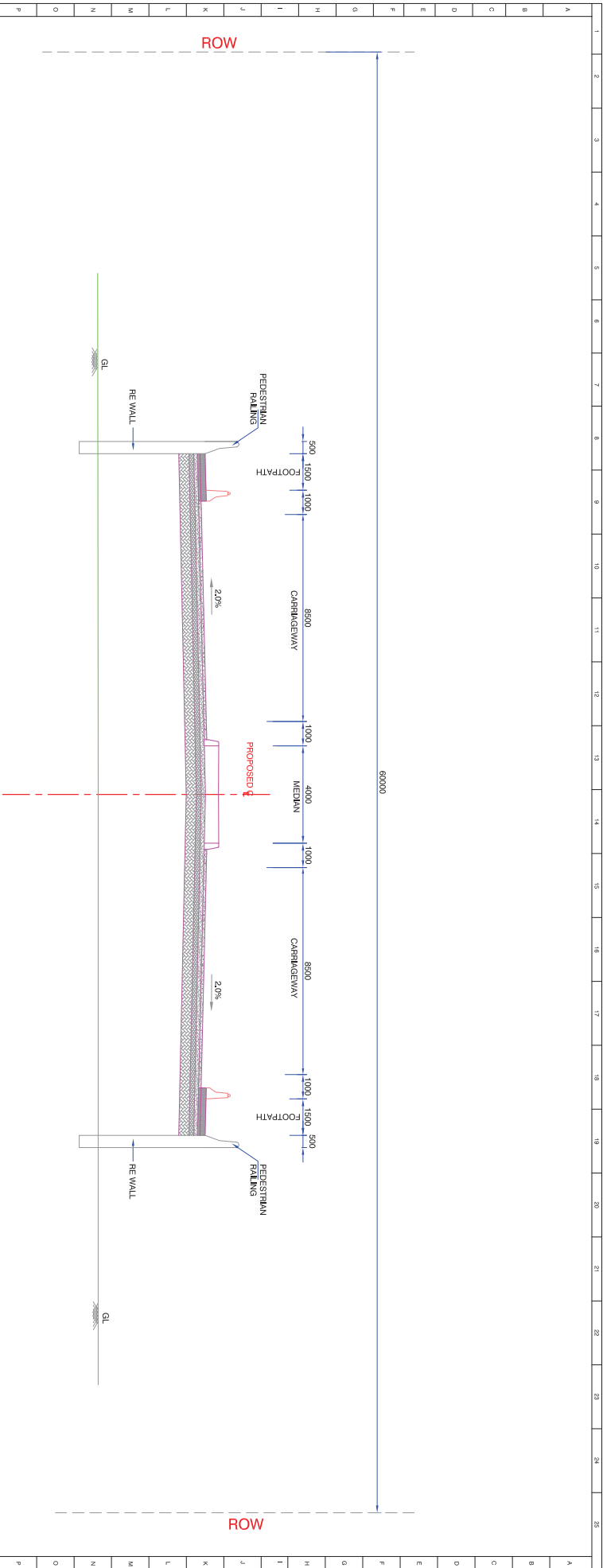
CLIENT:

NATIONAL HIGHWAYS AUTHORITY OF INDIA

PROJECT:
 PREPARATION OF DETAILED PROJECT REPORT FOR REHABILITATION AND UPGRADE TO 4-LANE CONFIGURATION OF AUSA - NANDED - WARDHGA & WARDHGA - BUTIBORI SECTION OF NH-361 IN THE STATE OF MAHARASHTRA

TITLE:
 TYPICAL CROSS SECTIONS
 WARDHGA - BUTIBORI PACKAGE

DRG. NO. NHM /NH361 /MSC /TCS /AL /06



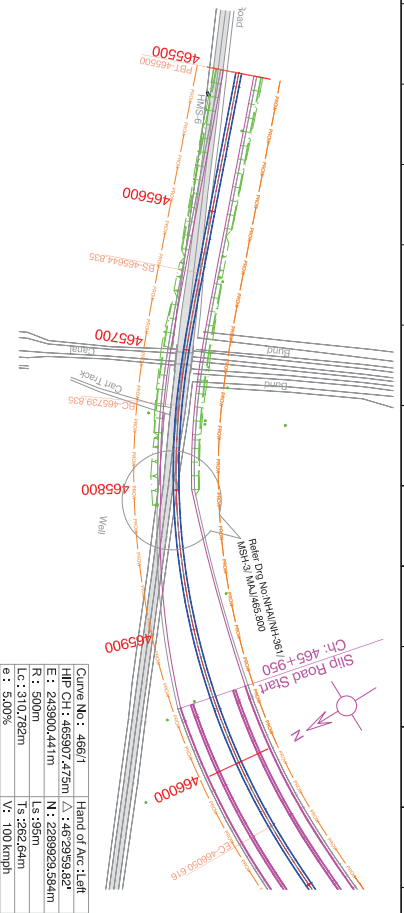
TCS 9 :- TYPICAL CROSS SECTION OF APPROACH TO ROAD OVER BRIDGE

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|-------------------------|---------------------------|-------------------------------|---------------------------------|--------------------|-------------|-----------------------------|--|---|---|
| DESIGNED BY GAKASHMA | DRAWN BY MD. SHAJADEEN | CHECKED BY M. RAJEEV BASHA | APPROVED BY P. SRINIVASA RAO | DATE 29-01-2016 | REVISION BY | LEGEND | CONSULTANTS: | CLIENT: | PROJECT: |
| REVISION | REVISION NO. DATE | DESCRIPTION | REVISION BY | DATE | REVISION BY | Proposed CL Proposed ROW | aanvee associates architects engineers & consultants pvt.ltd Tel: +91-40-23737633 fax: +91-40-23734677 | NATIONAL HIGHWAYS AUTHORITY OF INDIA | PREPARATION OF DETAILED PROJECT REPORT FOR REHABILITATION AND UPGRADATION TO 4-LANE CONFIGURATION OF AUSA - NANDED - WARANGA & WARDHA - BUTIBORI SECTION OF NH-361 IN THE STATE OF MAHARASHTRA |
| | RO | Final Detailed Project Report | | | | NOT TO SCALE | | | TITLE: TYPICAL CROSS SECTIONS WARDHA - BUTIBORI PACKAGE |
| | | | | | | | | | DRG. NO. NHM /NH-361 /MSC /TCS /AL /08 |

**PLAN AND PROFILES OF MAIN CARRIAGEWAY
(WARDHA - BUTIBORI PACKAGE)**

WARDHA

BUTIBORI



| STATION | PROPOSED LEFT MEDIUM EDGE LEVELS | PROPOSED RIGHT MEDIUM EDGE LEVELS | EXISTING ROAD CENTER LEVELS | EXISTING GROUND LEVEL 15.0m LEFT FROM C/L | EXISTING GROUND LEVEL 15.0m RIGHT FROM C/L | HORIZONTAL ALIGNMENT | VERTICAL ALIGNMENT - LOW | VERTICAL ALIGNMENT - HIGH | SUPERELEVATION | CHANGAGE |
|----------|----------------------------------|-----------------------------------|-----------------------------|---|--|----------------------|--------------------------|---------------------------|----------------|----------|
| 465500.0 | 254.380 | 254.380 | 254.380 | 254.279 | 253.831 | | G=1.246 | | | 465500.0 |
| 465520.0 | 254.690 | 254.690 | 254.690 | 254.362 | 253.967 | | L=1.446 | | | 465520.0 |
| 465540.0 | 254.999 | 254.999 | 254.999 | 255.371 | 254.048 | | G=1.446 | | | 465540.0 |
| 465560.0 | 255.306 | 255.306 | 255.306 | 255.309 | 254.089 | | L=14.835m | | | 465560.0 |
| 465580.0 | 255.590 | 255.590 | 255.590 | 255.399 | 254.131 | | G=1.446 | | | 465580.0 |
| 465600.0 | 255.844 | 255.844 | 255.844 | 255.198 | 254.257 | | L=95.0m | | | 465600.0 |
| 465620.0 | 256.070 | 256.070 | 256.070 | 255.411 | 254.423 | | L=95.0m | | | 465620.0 |
| 465640.0 | 256.266 | 256.266 | 256.266 | 254.967 | 254.583 | | G=1.446 | | | 465640.0 |
| 465660.0 | 256.432 | 256.432 | 256.432 | 255.052 | 255.564 | | L=95.0m | | | 465660.0 |
| 465680.0 | 256.570 | 256.570 | 256.570 | 256.154 | 255.577 | | L=95.0m | | | 465680.0 |
| 465700.0 | 256.678 | 256.678 | 256.678 | 256.570 | 256.138 | | L=95.0m | | | 465700.0 |
| 465720.0 | 256.757 | 256.757 | 256.757 | 256.365 | 256.505 | | L=95.0m | | | 465720.0 |
| 465740.0 | 256.807 | 256.807 | 256.807 | 256.425 | 256.686 | | L=95.0m | | | 465740.0 |
| 465760.0 | 256.827 | 256.827 | 256.827 | 255.817 | 255.442 | | L=95.0m | | | 465760.0 |
| 465780.0 | 256.818 | 256.818 | 256.818 | 255.082 | 255.063 | | L=95.0m | | | 465780.0 |
| 465800.0 | 256.780 | 256.780 | 256.780 | 255.276 | 254.871 | | L=95.0m | | | 465800.0 |
| 465820.0 | 256.712 | 256.712 | 256.712 | 255.417 | 254.472 | | L=95.0m | | | 465820.0 |
| 465840.0 | 256.616 | 256.616 | 256.616 | 255.519 | 254.348 | | L=95.0m | | | 465840.0 |
| 465860.0 | 256.490 | 256.490 | 256.490 | 255.159 | 254.281 | | L=95.0m | | | 465860.0 |
| 465880.0 | 256.335 | 256.335 | 256.335 | 254.277 | 254.202 | | L=95.0m | | | 465880.0 |
| 465900.0 | 256.168 | 256.168 | 256.168 | 253.719 | 253.896 | | L=95.0m | | | 465900.0 |
| 465920.0 | 256.002 | 256.002 | 256.002 | 253.740 | 253.747 | | L=95.0m | | | 465920.0 |
| 465940.0 | 255.836 | 255.836 | 255.836 | 253.662 | 253.590 | | L=95.0m | | | 465940.0 |
| 465960.0 | 255.669 | 255.669 | 255.669 | 253.567 | 253.435 | | L=95.0m | | | 465960.0 |
| 465980.0 | 255.538 | 255.538 | 255.538 | 253.295 | 253.283 | | L=95.0m | | | 465980.0 |
| 466000.0 | 255.472 | 255.472 | 255.472 | 253.013 | 253.064 | | L=95.0m | | | 466000.0 |

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| DESIGNED BY GARISHMA | DRAWN BY M.D. SHARADDEBI | CHECKED BY MKHALEEL BASHA | APPROVED BY P. SRINIVASA RAO | DATE 29-01-2016 | LEGEND Proposed CL Existing Road Median Proposed CW Shoulder Proposed ROW Earth work |
| REVISION | NO. | DATE | DESCRIPTION | REVISION BY | SCALE |
| | 01 | 29-01-16 | Final Detailed Project Report | | Horizontal: 1:2500 Vertical: 1:250 |
| <p>CONSULTANTS:</p> <p>aanve associates architects, engineers & consultants pvt. ltd. Bandra Residence, Shriharipur Colony, Vile Parle East, Hyderabad-500, India Tel: +91-40-33737433, Fax: +91-40-33732677</p> <p>CLIENT: NATIONAL HIGHWAYS AUTHORITY OF INDIA</p> <p>PROJECT: PREPARATION OF DETAILED PROJECT REPORT FOR REHABILITATION AND UPGRADE TO 4 - LANE CONFIGURATION OF AUSA - NANDED - WARANGA & WARDHA - BUTIBORI SECTION OF NH - 361 IN THE STATE OF MAHARASHTRA</p> <p>TITLE: PLAN AND PROFILE OF MCW (WARDHA - BUTIBORI PACKAGE) From km 465.500 TO km 466.000</p> <p>DRG. NO. NHM-NH-361 / MS/SH / PP / 01</p> | | | | | |