

**MINUTES OF THE 48th MEETING OF THE EXPERT GROUP ON ZOO
DESIGNING OF THE CENTRAL ZOO AUTHORITY HELD ON
3RD FEBRUARY, 2014**

The 48th Meeting of the Expert Group of the Central Zoo Authority on Zoo Designing was held in the Members' Room of the Central Zoo Authority, New Delhi on 3rd February, 2014. The list of participants is annexed at **Annexure – I**.

Leave of absence to Sh. Kartick Satyanarayan, Prof. (Dr.) Surinder Suneja, Prof. (Dr.) Rommel Mehta and Chief Engineer (CCU), who could not attend the Meeting was granted. Thereafter, the Agenda Items were taken up for discussion.

Agenda Items No. 1

**Master Plan/ Master (layout)
Plan of the Zoos**

1. Revised Master Plan of the Kanpur Zoological Park, Kanpur, Uttar Pradesh

The Master plan was scrutinized and following observations were made:-

- a) The proposal for zoo train does not provide history and background. The zoo authorities should be asked to describe in detail the conditions to be followed as of prescribed by the Central Zoo Authority particularly to prevent air pollution, noise pollution and cutting of trees.
- b) The Master plan should have clearly spelled out, the zoo train should only be operated by using battery.
- c) The zoo can have only 15 numbers of exotic species in his collection. Under the circumstances the budgerigar, zebra pinch, love birds, cockatiel should be removed from the collection plan immediately.
- d) The species of high hills birds like Kaleej, Cheer, Monal should not be part of animal collection plan.
- e) Spotted dove, Pigeon, Crow pheasant should be taken away from the plan.
- f) The animal collection plan seems to be quite ambitious regarding housing of birds of prey. Getting species like Shahin falcon and fishing eagle are minimal. Therefore same should be removed from animal collection plan.
- g) The herbivore safari was never approved as a part of Master (layout) Plan, the same should be rectified in the Master Plan.
- h) The layout plan attached with the Master Plan is not legible, therefore the copy of the approved, duly authenticated by the Member Secretary should be enclosed in real size in colour print.
- i) It was emphasis during discussion that the herbivore kraal should be made covered.
- j) The provision of the same should be indicated in the Master plan.

V. **Himalayan Zoological Park, Gangtok, Sikkim**

Design for the construction of Rescue Centre at Himalayan Zoological Park, Gangtok

The design was scrutinized and not approved, however the following observations were made:-

- a) The species for which rescue centre is proposed to be mention.
- b) The design should have detail dimension.
- c) The rescue Centre should have provision of housing of animals only, rest of the facilities like healthcare, labs, store are not necessary. The zoo may use the existing facility at the zoo for the purpose.
- d) The design of rescue centre for leopards proposed at Malsi Deer Park, may be sent for the reference.

VI. **Jodhpur Zoo, Jodhpur, Rajasthan**

1. Porcupine

The design was scrutinized and approved subject to the condition that the floor of the exhibit should have enough soil and sand to meet the behavior requirement.

2. Spiny tail Lizard, Hedgehog, Monitor lizard and Smaller animal

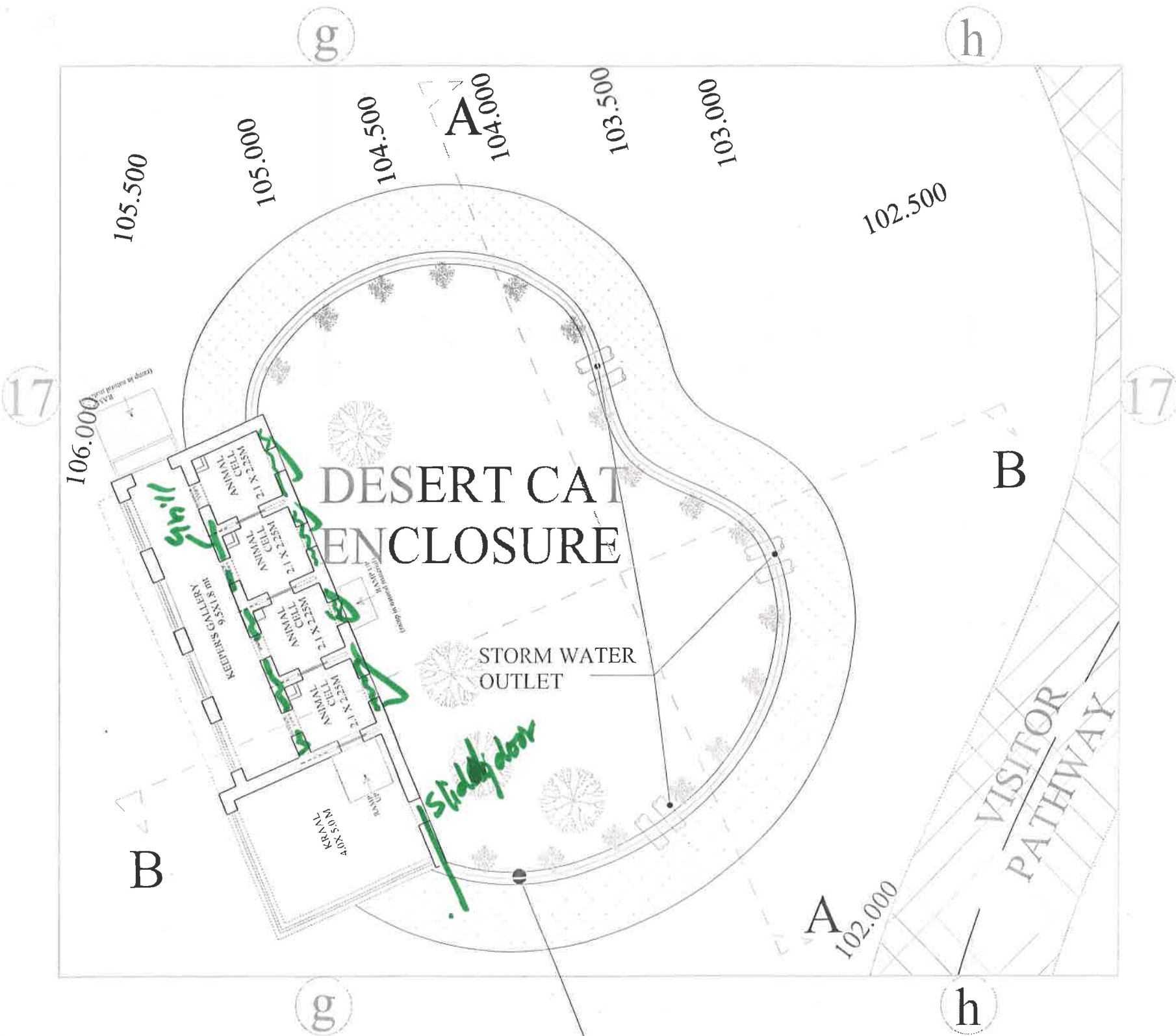
The designs were scrutinized and not approved, however the following observations were made:-

- a) Instead of opening of Spiny tail lizard and Monitor lizard and hedgehog, it should be made in the form of reptile and nocturnal house covered on top.
- b) The reptile and nocturnal house should have proper ventilation, water circulation.
- c) Before preparing the design the zoo director may visit Kamla Nehru Zoological Garden, Ahmedabad to see the reptile house.

3. Desert cat, Desert fox, Common fox, Jungle cat, Jackal, Indian wolf, Bear and Striped hyena

All the design were scrutinized and approved subject to the following:

- a) Opening towards the keepers' gallery should be fully grilled and there should be no wall, including on the corners.
- b) Opening to paddock area through the sliding door.



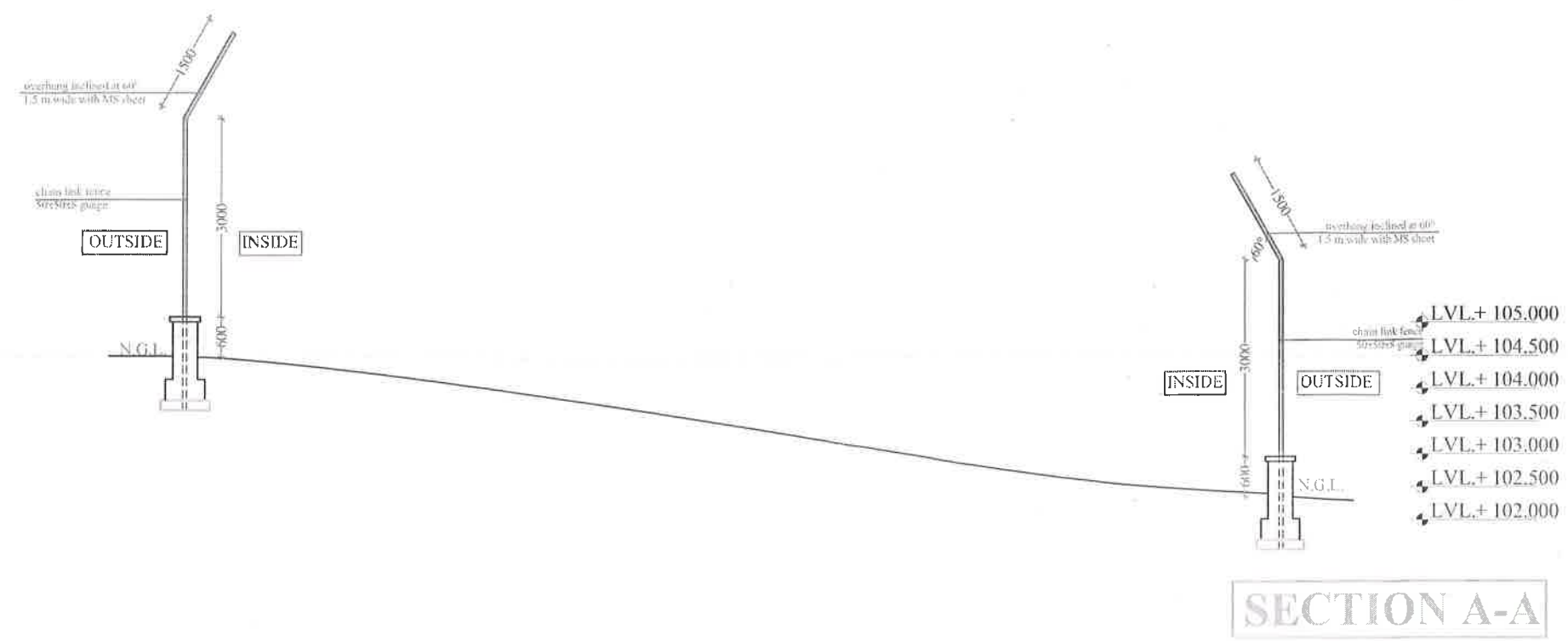
Chain link Fence 50mm x50mmx8 g
 (3 m high) on 375mm th.& 600mm
 high Jodhpur Stone Masonry wall with 60° inclined
 1.5 m overhang with MS steel sheet(As per CZA)

Approved
28/5/14
20/3/14
Jitender
JE
(S.K. Singhal)
 Project Officer
 R.S.P.D.C. Ltd.
 Unit - I JODHPUR
P.M. JAIN
 PROJECT DIRECTOR
 RSRDC LTD.
 JODHPUR

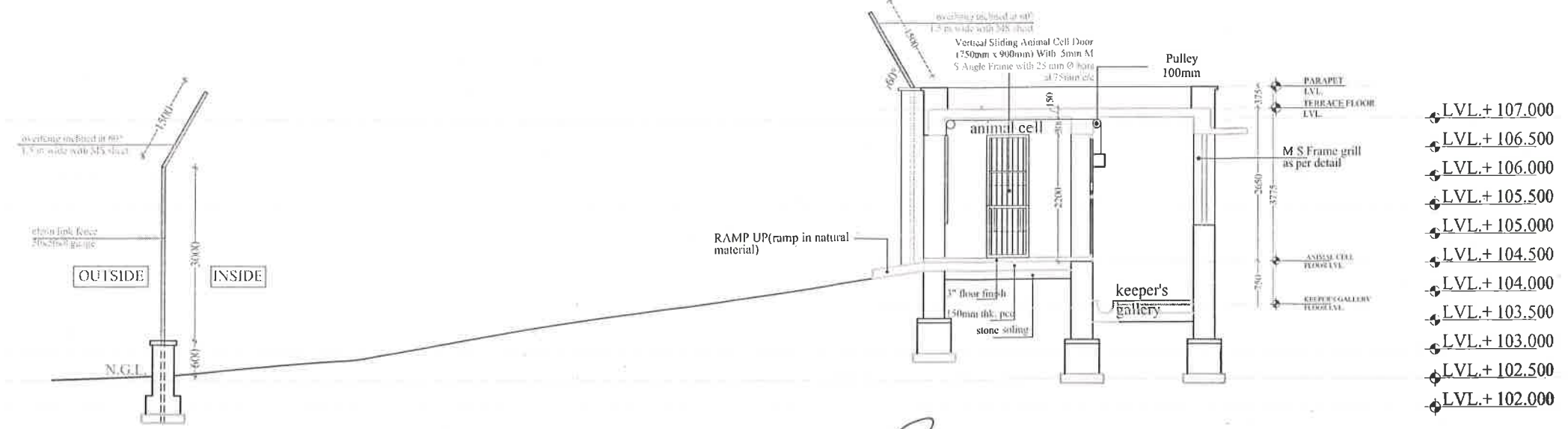
PLAN GRID SIZE (एन.एस.राठीड)
20M X 20 M उप रण संरक्षक
 कन्व. जीव, जोधपुर

AREA:- 198 SQ.MT.
DESERT CAT ENCLOSURE

| Project PROPOSED SATELLITE MACHHA BIOLOGICAL PARK, JODHPUR | Client RSRDC | <table border="1"> <thead> <tr> <th>Sl. No.</th> <th>DATE</th> <th>REVISIONS</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>22.04.14</td> <td>Preparation of drawing</td> </tr> <tr> <td>2</td> <td>22.05.14</td> <td>Modification of drawing</td> </tr> <tr> <td>3</td> <td>15.06.14</td> <td>Modification of drawing</td> </tr> <tr> <td>4</td> <td>24.06.14</td> <td>As per CZA, Jodhpur</td> </tr> <tr> <td>5</td> <td>02.07.14</td> <td>Site plan of enclosure</td> </tr> </tbody> </table> | Sl. No. | DATE | REVISIONS | 1 | 22.04.14 | Preparation of drawing | 2 | 22.05.14 | Modification of drawing | 3 | 15.06.14 | Modification of drawing | 4 | 24.06.14 | As per CZA, Jodhpur | 5 | 02.07.14 | Site plan of enclosure | <table border="1"> <thead> <tr> <th>Sl. No.</th> <th>DATE</th> <th>REVISIONS</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>22.05.14</td> <td>Preparation of drawing</td> </tr> <tr> <td>2</td> <td>02.07.14</td> <td>Modification of drawing</td> </tr> </tbody> </table> | Sl. No. | DATE | REVISIONS | 1 | 22.05.14 | Preparation of drawing | 2 | 02.07.14 | Modification of drawing | <table border="1"> <tr> <td>Checked by: Kavita Jain</td> <td> <table border="1"> <tr> <td>DESERT CAT ENCLOSURE</td> <td> <table border="1"> <tr> <td>Project Officer Kavita Jain</td> <td> <table border="1"> <tr> <td>Project Director P.M. Jain</td> <td> <table border="1"> <tr> <td>Architect The 'FORMS'</td> <td> <table border="1"> <tr> <td>Client RSRDC</td> </tr> </table> </td> </tr> </table> </td> </tr> </table> </td> </tr> </table> </td> </tr> </table> </td></tr></table> | Checked by: Kavita Jain | <table border="1"> <tr> <td>DESERT CAT ENCLOSURE</td> <td> <table border="1"> <tr> <td>Project Officer Kavita Jain</td> <td> <table border="1"> <tr> <td>Project Director P.M. Jain</td> <td> <table border="1"> <tr> <td>Architect The 'FORMS'</td> <td> <table border="1"> <tr> <td>Client RSRDC</td> </tr> </table> </td> </tr> </table> </td> </tr> </table> </td> </tr> </table> </td> </tr> </table> | DESERT CAT ENCLOSURE | <table border="1"> <tr> <td>Project Officer Kavita Jain</td> <td> <table border="1"> <tr> <td>Project Director P.M. Jain</td> <td> <table border="1"> <tr> <td>Architect The 'FORMS'</td> <td> <table border="1"> <tr> <td>Client RSRDC</td> </tr> </table> </td> </tr> </table> </td> </tr> </table> </td> </tr> </table> | Project Officer Kavita Jain | <table border="1"> <tr> <td>Project Director P.M. Jain</td> <td> <table border="1"> <tr> <td>Architect The 'FORMS'</td> <td> <table border="1"> <tr> <td>Client RSRDC</td> </tr> </table> </td> </tr> </table> </td> </tr> </table> | Project Director P.M. Jain | <table border="1"> <tr> <td>Architect The 'FORMS'</td> <td> <table border="1"> <tr> <td>Client RSRDC</td> </tr> </table> </td> </tr> </table> | Architect The 'FORMS' | <table border="1"> <tr> <td>Client RSRDC</td> </tr> </table> | Client RSRDC |
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| Client RSRDC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



SECTION A-A



- LVL.+ 107.000
- LVL.+ 106.500
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Handwritten signature: (D.K. Singhal) Project Officer R.S.R.D.C. Ltd. Unit-1 JODHPUR

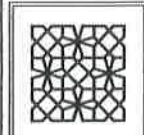
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SECTION B-B

(एम.एस.राठीड़)
वन वन संरक्षक
वन जीव, जोधपुर

DESERT CAT ENCLOSURE

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|--|----------------|---|--|--|----------------------|-------------|-------------|-------------|--------------|-------------|------------------------|------------------------|
| PROJECT PROPOSED SATELLITE MACHIA BIOLOGICAL PARK, JODHPUR | DATE: 09.06.13 | REVISIONS: | REV: 01 DATE: 09.06.13 BY: P.M. JAIN DESCRIPTION: | PROPOSAL SECTION: | DESERT CAT ENCLOSURE | CHECKED BY: | Kavita Jain | MADE BY: | PUJOJA SONI | THE 'FORMS' | LANDSCAPE ARCHITECTURE | |
| | DRAWN: | RSRDC | 1. 01.06.13 2. 02.06.13 3. 03.06.13 4. 04.06.13 5. 05.06.13 6. 06.06.13 7. 07.06.13 8. 08.06.13 | 1. 01.06.13 2. 02.06.13 3. 03.06.13 4. 04.06.13 5. 05.06.13 6. 06.06.13 7. 07.06.13 8. 08.06.13 | CHECKED BY: | Kavita Jain | MADE BY: | PUJOJA SONI | SCALE: 1:100 | THE 'FORMS' | LANDSCAPE ARCHITECTURE | |
| | PROJECT: | PROPOSED SATELLITE MACHIA BIOLOGICAL PARK, JODHPUR | DATE: | 09.06.13 | DRAWN: | RSRDC | CHECKED BY: | Kavita Jain | MADE BY: | PUJOJA SONI | THE 'FORMS' | LANDSCAPE ARCHITECTURE |
| | PROJECT: | PROPOSED SATELLITE MACHIA BIOLOGICAL PARK, JODHPUR | DATE: | 09.06.13 | DRAWN: | RSRDC | CHECKED BY: | Kavita Jain | MADE BY: | PUJOJA SONI | THE 'FORMS' | LANDSCAPE ARCHITECTURE |
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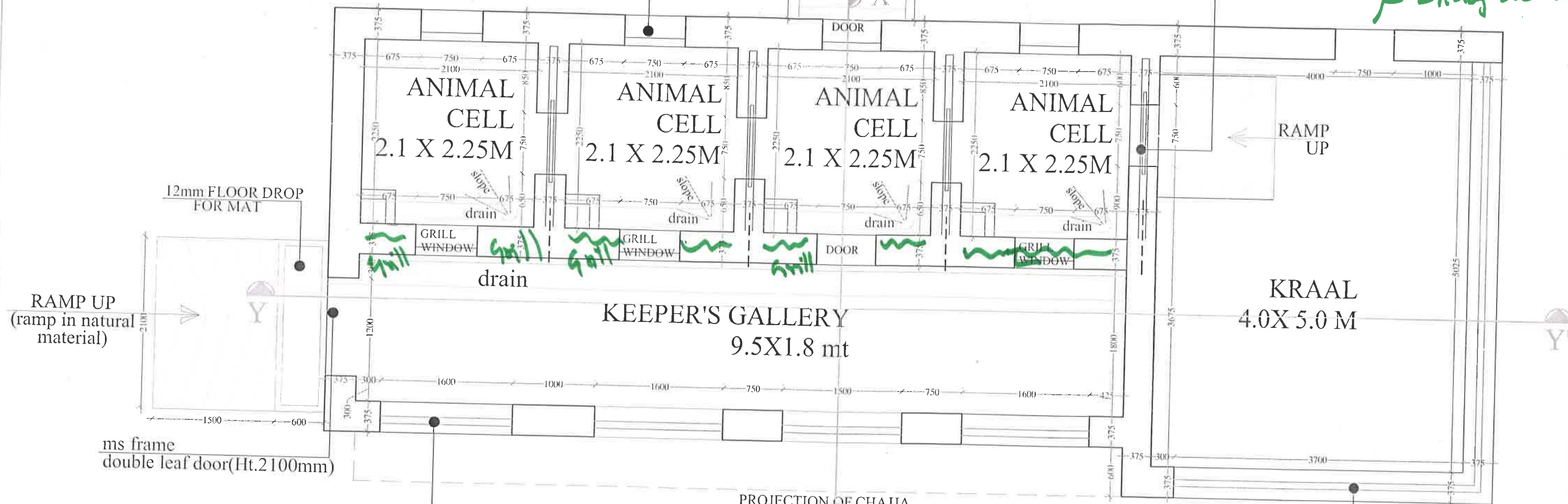


Vertical Sliding Animal Cell Door
(750mm x 900mm) With
5mm M S Angle Frame with
25 mm Ø bars at 75mm c/c

RAMP UP
(ramp in natural material)

Vertical Sliding Animal Cell Door (750mm x
900mm) With 5mm M S Angle Frame with 25
mm Ø bars at 75mm c/c

Sliding door



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chain link fence 50x50x8 gauge with angle iron
post 75x75x8 MM @ 3m c/c in c.c. on 375mm
th. & 600mm high jodhpur stone masonry wall as
per detail

(D.K. Singh)
Project Officer
R.S.R.D.C. Ltd.
Unit -1 JODHPUR

P.M. JAIN
PROJECT DIRECTOR
RSRDC LTD.
JODHPUR

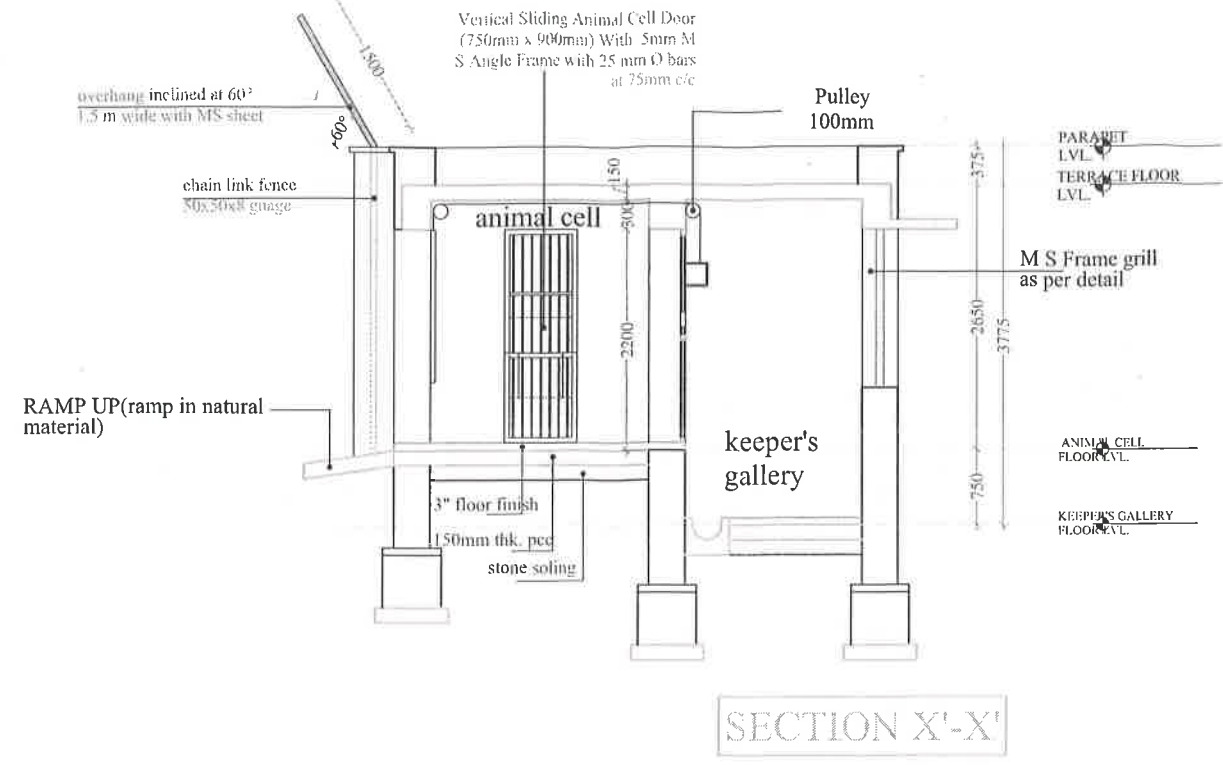
(एन.एस.सोनी)
उप यंत्र संरक्षक
कन्य जीव, जोधपुर

HOLDING AREA/NIGHT
SHELTER PLAN
DESERT CAT ENCLOSURE

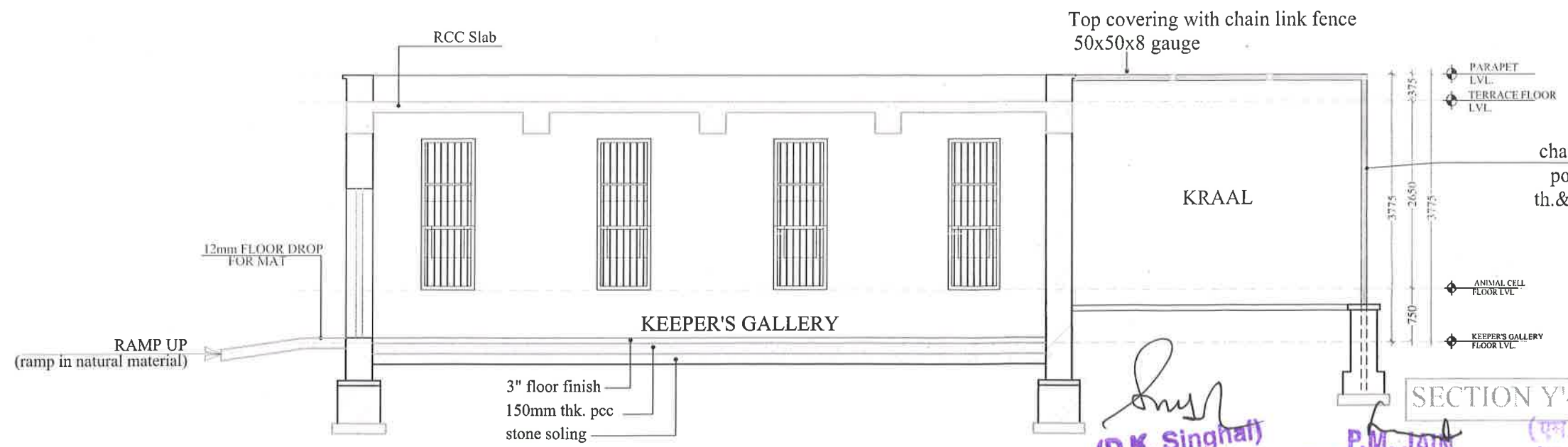
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| PROPOSED SATELLITE MACHHA BIOLOGICAL PARK, JODHPUR RSRDC The 'FORMS', JAIPUR | 1. DATE: 12.08.12 2. DATE: 12.08.12 3. DATE: 12.11.12 4. DATE: 25.01.13 5. DATE: 15.02.13 6. DATE: 28.02.13 7. DATE: 25.02.13 8. DATE: 04.03.13 | 1. DATE: 12.08.12 2. DATE: 12.08.12 3. DATE: 12.11.12 4. DATE: 25.01.13 5. DATE: 15.02.13 6. DATE: 28.02.13 7. DATE: 25.02.13 8. DATE: 04.03.13 | HOLDING AREA/NIGHT SHELTER PLAN DESERT CAT ENCLOSURE Checked By: Kavita Jini DATE: 09 Jan 2013 Drawing No: | DESERT CAT ENCLOSURE Made By: Pooja Soni DATE: 09 Jan 2013 SCALE: 1:50 Drawing No: | CONSULTANT Kavita Jini The 'FORMS' DATE: 09 Jan 2013 DRAWING NO: 1118 PROJECT: | ARCHITECTURE Landscape Jodhpur | |
|---|--|--|---|--|---|--------------------------------------|--|

118

14



SECTION X-X'



SECTION Y-Y'

chain link fence 50x50x8 gauge with angle iron post 75x75x8 MM @ 3m c/c in c.c. on 375mm th. & 600mm high jodhpur stone masonry wall as per detail

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(D.K. Singh)
Project Officer
R.S.R.D.C. Ltd.
Unit -1 JODHPUR

P.M. JAIN
PROJECT DIRECTOR
RSRDC LTD.
JODHPUR

(P.M. Jain)
उप प्र. सं. सं. सं.
का. का. सं. सं.

**HOLDING AREA/NIGHT SHELTER SECTIONS
DESERT CAT ENCLOSURE**

| | | | | | | | |
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| PROPOSED SATELLITE MACHHA BIOLOGICAL PARK, JODHPUR RSRDC THE 'FORMS', JAIPUR | NO. DATE REVISIONS 1. 15-03-19 2. 17-05-19 3. 17-11-19 4. 11-01-21 5. 01-08-21 6. 24-07-21 7. 16-02-22 8. 07-01-23 | NO. DATE REVISIONS 1. 15-03-19 2. 17-05-19 3. 17-11-19 4. 11-01-21 5. 01-08-21 6. 24-07-21 7. 16-02-22 8. 07-01-23 | HOLDING AREA/NIGHT SHELTER SECTIONS DESERT CAT ENCLOSURE Checked by: Kavita Jain DATE: 09 Jan 2013 Drawing No: Wipark/Machha/Desert Cat/04 | DESERT CAT ENCLOSURE Made By: POOJA SONI SCALE: 1:75 | CONSULTANT Kavita Jain The 'FORMS' AN ARCHITECTURAL & INTERIOR DESIGN FIRM 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 | AUTHORITY Conservation Landscape Institute | |
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