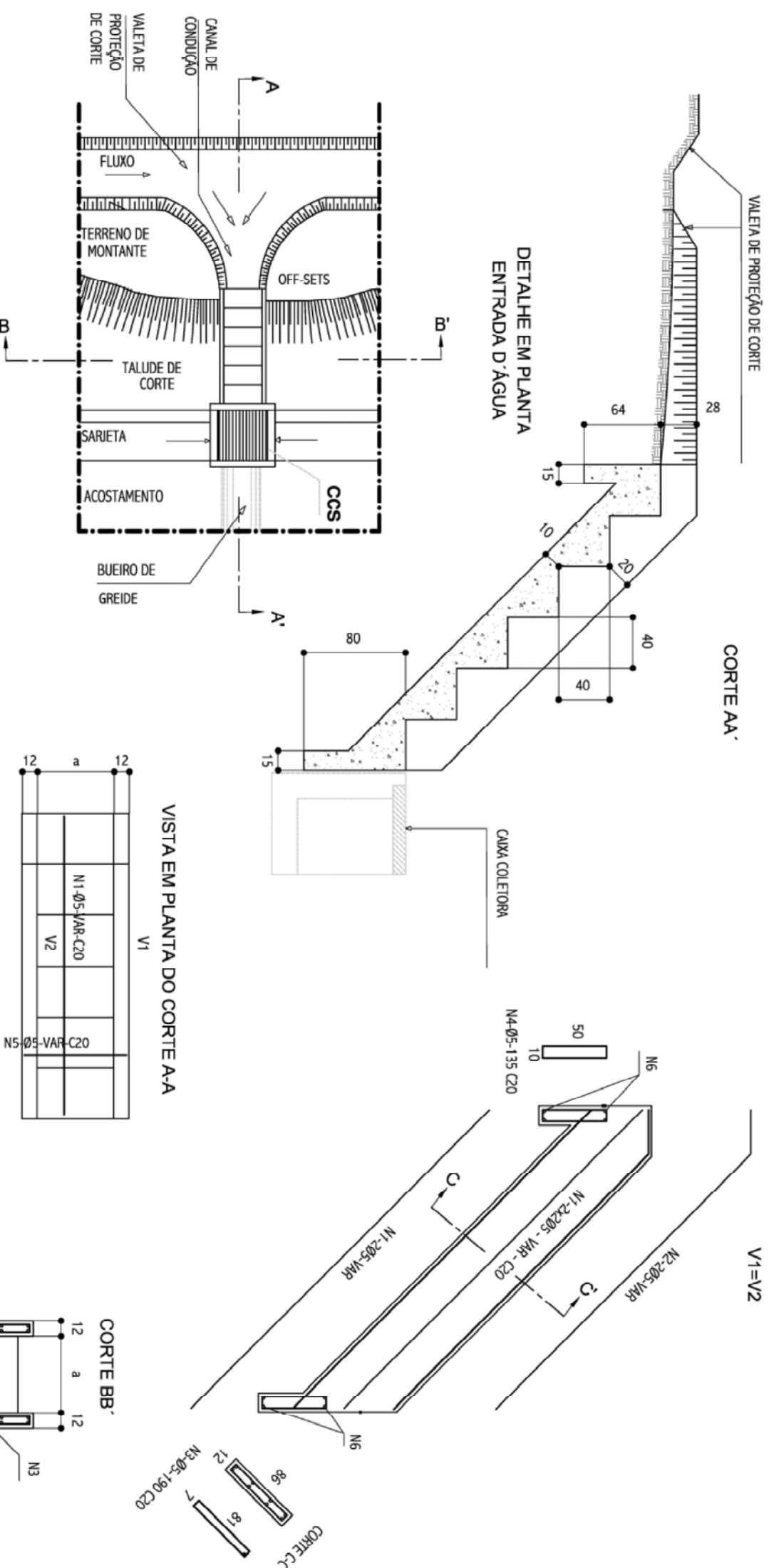
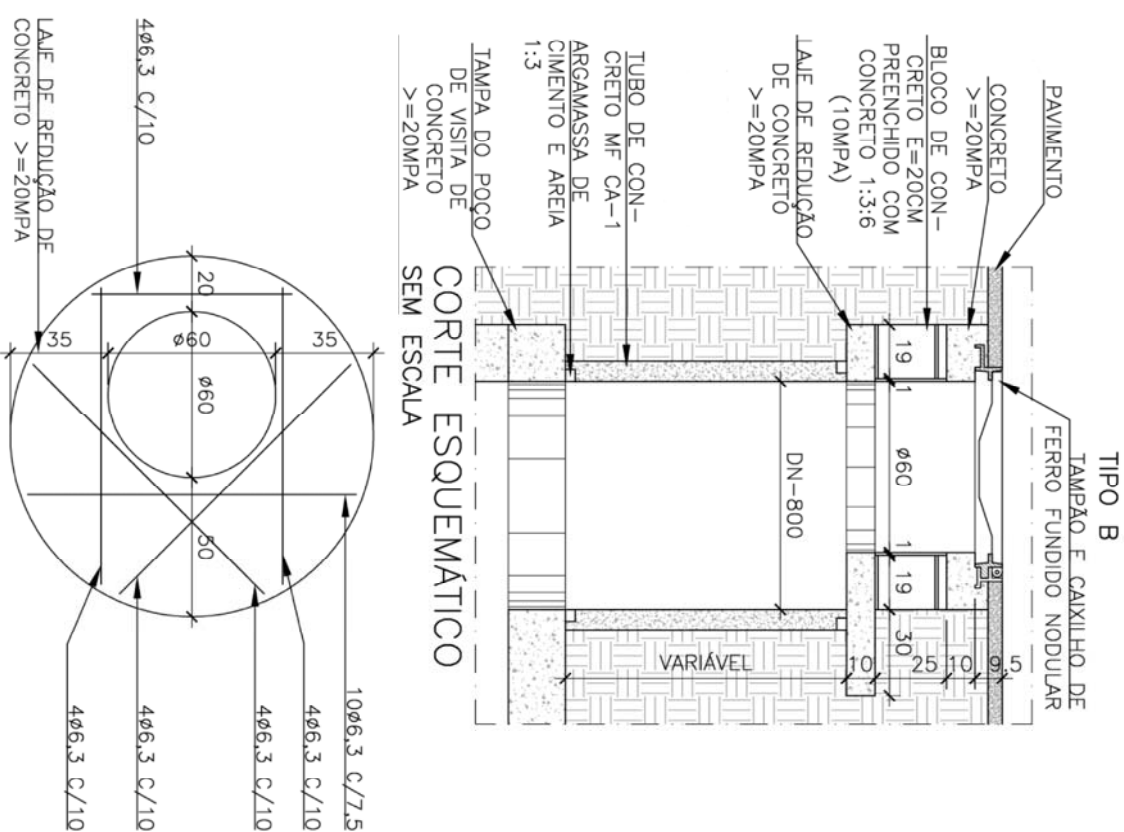
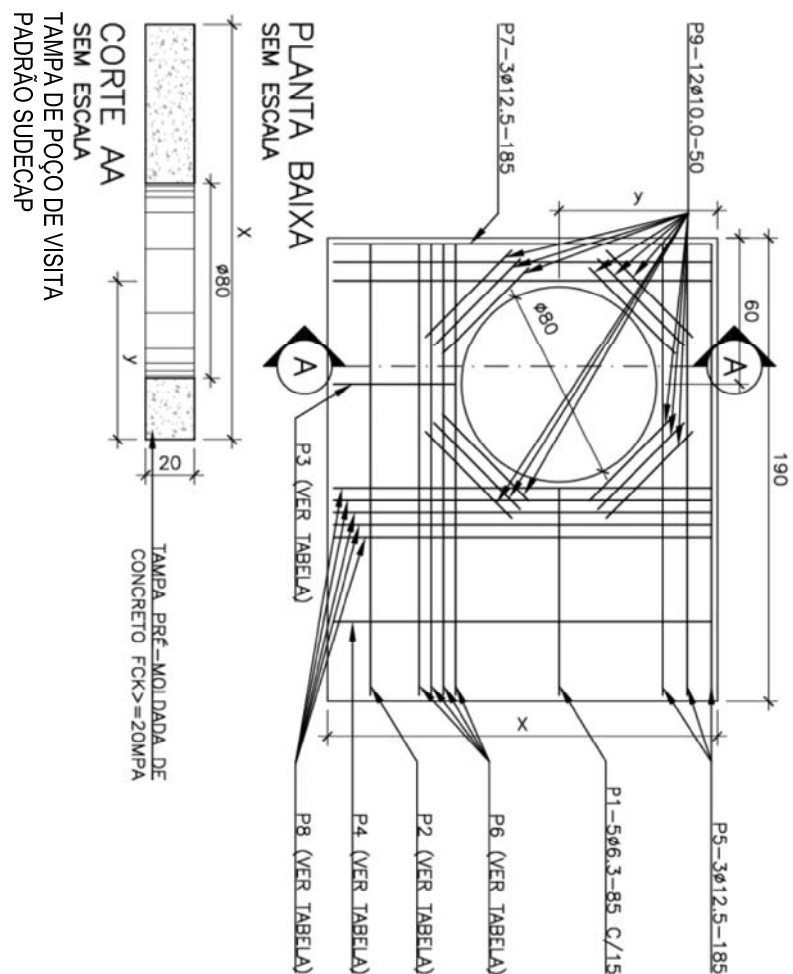


| N | AÇO CA-50 | | |
|-------|------------------|-------------------|-----------------------|
| | DIÂMETRO (mm) | COMPIMENTO (m) | PESO UNITÁRIO (kg) |
| 1 | 8,0 | 2,46 | 0,40 |
| 2 | 8,0 | 2,74 | 0,40 |
| 3 | 5,0 | 3,04 | 0,16 |
| 4 | 5,0 | 2,76 | 0,16 |
| Total | | | 0,44 |
| | | | 3,02 |

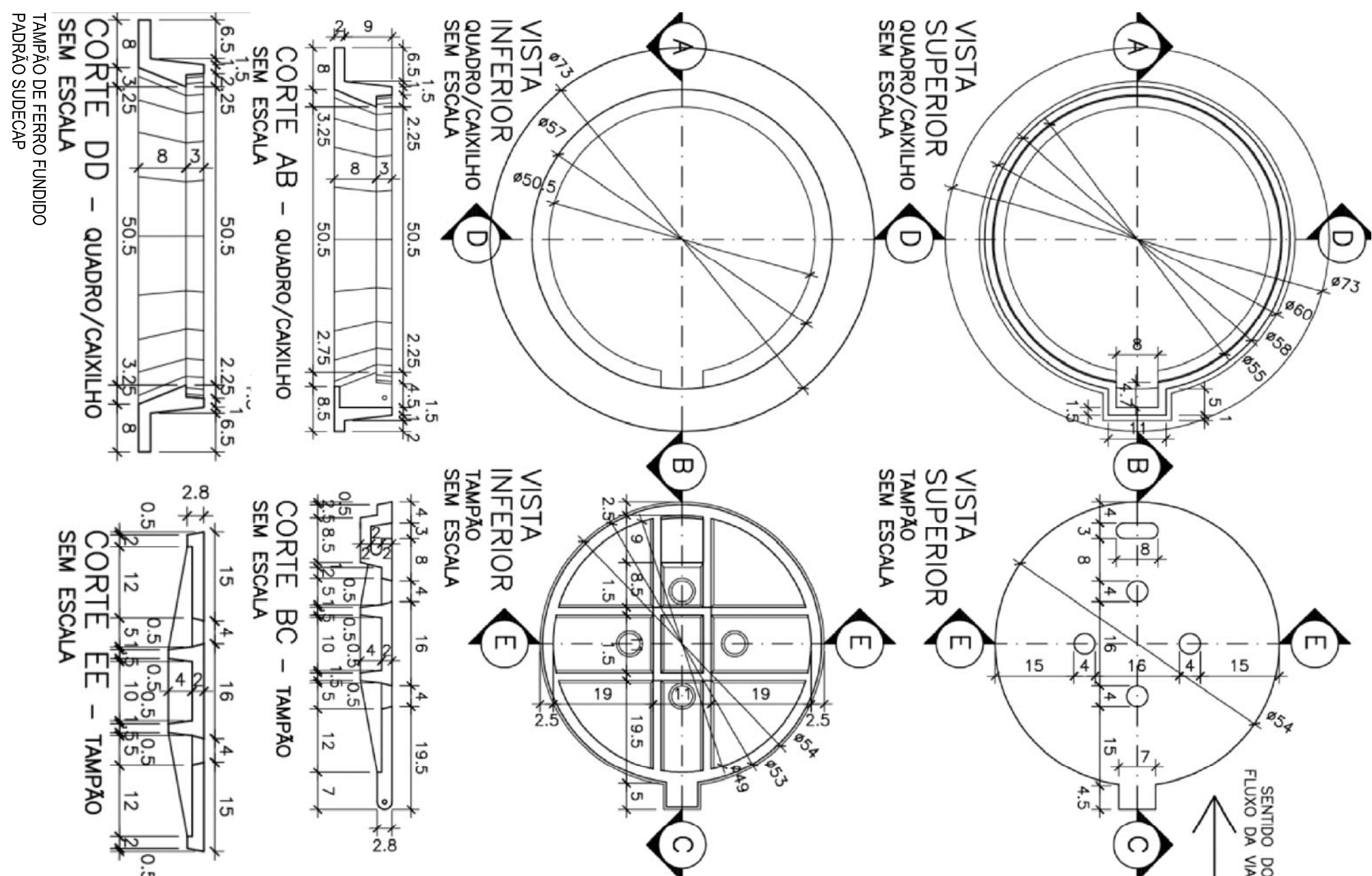
| QUANTIDADES UNITÁRIAS (4 NERVURAS) | | |
|------------------------------------|----|-------|
| TCC01 | | |
| Concreto fck ≥ 25MPa | m³ | 0,092 |
| Aço CA-50 | kg | 12,08 |
| Formas | m² | 1,38 |

| QUANTIDADES UNIDADES (CARA) | | | |
|--|---------------|---------------|---------------|
| CONCENTRO (H.A. x 10000 (m ³)) | | | |
| H (m) | #=60 | #=100 | #=120 |
| 2,0 | 2,00/CS252 | 2,00/CS252 | 2,00/CS252 |
| 2,5 | 2,50/CS256 | 2,50/CS256 | 2,50/CS256 |
| 3,0 | 3,00/CS260 | 3,00/CS260 | 3,00/CS260 |
| 3,5 | 3,50/CS264 | 3,50/CS264 | 3,50/CS264 |
| 4,0 | 4,00/CS268 | 4,00/CS268 | 4,00/CS268 |
| 4,5 | 4,50/CS272 | 4,50/CS272 | 4,50/CS272 |
| 5,0 | 5,00/CS276 | 5,00/CS276 | 5,00/CS276 |
| 5,5 | 5,50/CS280 | 5,50/CS280 | 5,50/CS280 |
| 6,0 | 6,00/CS284 | 6,00/CS284 | 6,00/CS284 |
| 6,5 | 6,50/CS288 | 6,50/CS288 | 6,50/CS288 |
| 7,0 | 7,00/CS292 | 7,00/CS292 | 7,00/CS292 |
| 7,5 | 7,50/CS296 | 7,50/CS296 | 7,50/CS296 |
| 8,0 | 8,00/CS300 | 8,00/CS300 | 8,00/CS300 |
| 8,5 | 8,50/CS304 | 8,50/CS304 | 8,50/CS304 |
| 9,0 | 9,00/CS308 | 9,00/CS308 | 9,00/CS308 |
| 9,5 | 9,50/CS312 | 9,50/CS312 | 9,50/CS312 |
| 10,0 | 10,00/CS316 | 10,00/CS316 | 10,00/CS316 |
| 10,5 | 10,50/CS320 | 10,50/CS320 | 10,50/CS320 |
| 11,0 | 11,00/CS324 | 11,00/CS324 | 11,00/CS324 |
| 11,5 | 11,50/CS328 | 11,50/CS328 | 11,50/CS328 |
| 12,0 | 12,00/CS332 | 12,00/CS332 | 12,00/CS332 |
| 12,5 | 12,50/CS336 | 12,50/CS336 | 12,50/CS336 |
| 13,0 | 13,00/CS340 | 13,00/CS340 | 13,00/CS340 |
| 13,5 | 13,50/CS344 | 13,50/CS344 | 13,50/CS344 |
| 14,0 | 14,00/CS348 | 14,00/CS348 | 14,00/CS348 |
| 14,5 | 14,50/CS352 | 14,50/CS352 | 14,50/CS352 |
| 15,0 | 15,00/CS356 | 15,00/CS356 | 15,00/CS356 |
| 15,5 | 15,50/CS360 | 15,50/CS360 | 15,50/CS360 |
| 16,0 | 16,00/CS364 | 16,00/CS364 | 16,00/CS364 |
| 16,5 | 16,50/CS368 | 16,50/CS368 | 16,50/CS368 |
| 17,0 | 17,00/CS372 | 17,00/CS372 | 17,00/CS372 |
| 17,5 | 17,50/CS376 | 17,50/CS376 | 17,50/CS376 |
| 18,0 | 18,00/CS380 | 18,00/CS380 | 18,00/CS380 |
| 18,5 | 18,50/CS384 | 18,50/CS384 | 18,50/CS384 |
| 19,0 | 19,00/CS388 | 19,00/CS388 | 19,00/CS388 |
| 19,5 | 19,50/CS392 | 19,50/CS392 | 19,50/CS392 |
| 20,0 | 20,00/CS396 | 20,00/CS396 | 20,00/CS396 |
| 20,5 | 20,50/CS400 | 20,50/CS400 | 20,50/CS400 |
| 21,0 | 21,00/CS404 | 21,00/CS404 | 21,00/CS404 |
| 21,5 | 21,50/CS408 | 21,50/CS408 | 21,50/CS408 |
| 22,0 | 22,00/CS412 | 22,00/CS412 | 22,00/CS412 |
| 22,5 | 22,50/CS416 | 22,50/CS416 | 22,50/CS416 |
| 23,0 | 23,00/CS420 | 23,00/CS420 | 23,00/CS420 |
| 23,5 | 23,50/CS424 | 23,50/CS424 | 23,50/CS424 |
| 24,0 | 24,00/CS428 | 24,00/CS428 | 24,00/CS428 |
| 24,5 | 24,50/CS432 | 24,50/CS432 | 24,50/CS432 |
| 25,0 | 25,00/CS436 | 25,00/CS436 | 25,00/CS436 |
| 25,5 | 25,50/CS440 | 25,50/CS440 | 25,50/CS440 |
| 26,0 | 26,00/CS444 | 26,00/CS444 | 26,00/CS444 |
| 26,5 | 26,50/CS448 | 26,50/CS448 | 26,50/CS448 |
| 27,0 | 27,00/CS452 | 27,00/CS452 | 27,00/CS452 |
| 27,5 | 27,50/CS456 | 27,50/CS456 | 27,50/CS456 |
| 28,0 | 28,00/CS460 | 28,00/CS460 | 28,00/CS460 |
| 28,5 | 28,50/CS464 | 28,50/CS464 | 28,50/CS464 |
| 29,0 | 29,00/CS468 | 29,00/CS468 | 29,00/CS468 |
| 29,5 | 29,50/CS472 | 29,50/CS472 | 29,50/CS472 |
| 30,0 | 30,00/CS476 | 30,00/CS476 | 30,00/CS476 |
| 30,5 | 30,50/CS480 | 30,50/CS480 | 30,50/CS480 |
| 31,0 | 31,00/CS484 | 31,00/CS484 | 31,00/CS484 |
| 31,5 | 31,50/CS488 | 31,50/CS488 | 31,50/CS488 |
| 32,0 | 32,00/CS492 | 32,00/CS492 | 32,00/CS492 |
| 32,5 | 32,50/CS496 | 32,50/CS496 | 32,50/CS496 |
| 33,0 | 33,00/CS500 | 33,00/CS500 | 33,00/CS500 |
| 33,5 | 33,50/CS504 | 33,50/CS504 | 33,50/CS504 |
| 34,0 | 34,00/CS508 | 34,00/CS508 | 34,00/CS508 |
| 34,5 | 34,50/CS512 | 34,50/CS512 | 34,50/CS512 |
| 35,0 | 35,00/CS516 | 35,00/CS516 | 35,00/CS516 |
| 35,5 | 35,50/CS520 | 35,50/CS520 | 35,50/CS520 |
| 36,0 | 36,00/CS524 | 36,00/CS524 | 36,00/CS524 |
| 36,5 | 36,50/CS528 | 36,50/CS528 | 36,50/CS528 |
| 37,0 | 37,00/CS532 | 37,00/CS532 | 37,00/CS532 |
| 37,5 | 37,50/CS536 | 37,50/CS536 | 37,50/CS536 |
| 38,0 | 38,00/CS540 | 38,00/CS540 | 38,00/CS540 |
| 38,5 | 38,50/CS544 | 38,50/CS544 | 38,50/CS544 |
| 39,0 | 39,00/CS548 | 39,00/CS548 | 39,00/CS548 |
| 39,5 | 39,50/CS552 | 39,50/CS552 | 39,50/CS552 |
| 40,0 | 40,00/CS556 | 40,00/CS556 | 40,00/CS556 |
| 40,5 | 40,50/CS560 | 40,50/CS560 | 40,50/CS560 |
| 41,0 | 41,00/CS564 | 41,00/CS564 | 41,00/CS564 |
| 41,5 | 41,50/CS568 | 41,50/CS568 | 41,50/CS568 |
| 42,0 | 42,00/CS572 | 42,00/CS572 | 42,00/CS572 |
| 42,5 | 42,50/CS576 | 42,50/CS576 | 42,50/CS576 |
| 43,0 | 43,00/CS580 | 43,00/CS580 | 43,00/CS580 |
| 43,5 | 43,50/CS584 | 43,50/CS584 | 43,50/CS584 |
| 44,0 | 44,00/CS588 | 44,00/CS588 | 44,00/CS588 |
| 44,5 | 44,50/CS592 | 44,50/CS592 | 44,50/CS592 |
| 45,0 | 45,00/CS596 | 45,00/CS596 | 45,00/CS596 |
| 45,5 | 45,50/CS600 | 45,50/CS600 | 45,50/CS600 |
| 46,0 | 46,00/CS604 | 46,00/CS604 | 46,00/CS604 |
| 46,5 | 46,50/CS608 | 46,50/CS608 | 46,50/CS608 |
| 47,0 | 47,00/CS612 | 47,00/CS612 | 47,00/CS612 |
| 47,5 | 47,50/CS616 | 47,50/CS616 | 47,50/CS616 |
| 48,0 | 48,00/CS620 | 48,00/CS620 | 48,00/CS620 |
| 48,5 | 48,50/CS624 | 48,50/CS624 | 48,50/CS624 |
| 49,0 | 49,00/CS628 | 49,00/CS628 | 49,00/CS628 |
| 49,5 | 49,50/CS632 | 49,50/CS632 | 49,50/CS632 |
| 50,0 | 50,00/CS636 | 50,00/CS636 | 50,00/CS636 |
| 50,5 | 50,50/CS640 | 50,50/CS640 | 50,50/CS640 |
| 51,0 | 51,00/CS644 | 51,00/CS644 | 51,00/CS644 |
| 51,5 | 51,50/CS648 | 51,50/CS648 | 51,50/CS648 |
| 52,0 | 52,00/CS652 | 52,00/CS652 | 52,00/CS652 |
| 52,5 | 52,50/CS656 | 52,50/CS656 | 52,50/CS656 |
| 53,0 | 53,00/CS660 | 53,00/CS660 | 53,00/CS660 |
| 53,5 | 53,50/CS664 | 53,50/CS664 | 53,50/CS664 |
| 54,0 | 54,00/CS668 | 54,00/CS668 | 54,00/CS668 |
| 54,5 | 54,50/CS672 | 54,50/CS672 | 54,50/CS672 |
| 55,0 | 55,00/CS676 | 55,00/CS676 | 55,00/CS676 |
| 55,5 | 55,50/CS680 | 55,50/CS680 | 55,50/CS680 |
| 56,0 | 56,00/CS684 | 56,00/CS684 | 56,00/CS684 |
| 56,5 | 56,50/CS688 | 56,50/CS688 | 56,50/CS688 |
| 57,0 | 57,00/CS692 | 57,00/CS692 | 57,00/CS692 |
| 57,5 | 57,50/CS696 | 57,50/CS696 | 57,50/CS696 |
| 58,0 | 58,00/CS700 | 58,00/CS700 | 58,00/CS700 |
| 58,5 | 58,50/CS704 | 58,50/CS704 | 58,50/CS704 |
| 59,0 | 59,00/CS708 | 59,00/CS708 | 59,00/CS708 |
| 59,5 | 59,50/CS712 | 59,50/CS712 | 59,50/CS712 |
| 60,0 | 60,00/CS716 | 60,00/CS716 | 60,00/CS716 |
| 60,5 | 60,50/CS720 | 60,50/CS720 | 60,50/CS720 |
| 61,0 | 61,00/CS724 | 61,00/CS724 | 61,00/CS724 |
| 61,5 | 61,50/CS728 | 61,50/CS728 | 61,50/CS728 |
| 62,0 | 62,00/CS732 | 62,00/CS732 | 62,00/CS732 |
| 62,5 | 62,50/CS736 | 62,50/CS736 | 62,50/CS736 |
| 63,0 | 63,00/CS740 | 63,00/CS740 | 63,00/CS740 |
| 63,5 | 63,50/CS744 | 63,50/CS744 | 63,50/CS744 |
| 64,0 | 64,00/CS748 | 64,00/CS748 | 64,00/CS748 |
| 64,5 | 64,50/CS752 | 64,50/CS752 | 64,50/CS752 |
| 65,0 | 65,00/CS756 | 65,00/CS756 | 65,00/CS756 |
| 65,5 | 65,50/CS760 | 65,50/CS760 | 65,50/CS760 |
| 66,0 | 66,00/CS764 | 66,00/CS764 | 66,00/CS764 |
| 66,5 | 66,50/CS768 | 66,50/CS768 | 66,50/CS768 |
| 67,0 | 67,00/CS772 | 67,00/CS772 | 67,00/CS772 |
| 67,5 | 67,50/CS776 | 67,50/CS776 | 67,50/CS776 |
| 68,0 | 68,00/CS780 | 68,00/CS780 | 68,00/CS780 |
| 68,5 | 68,50/CS784 | 68,50/CS784 | 68,50/CS784 |
| 69,0 | 69,00/CS788 | 69,00/CS788 | 69,00/CS788 |
| 69,5 | 69,50/CS792 | 69,50/CS792 | 69,50/CS792 |
| 70,0 | 70,00/CS796 | 70,00/CS796 | 70,00/CS796 |
| 70,5 | 70,50/CS800 | 70,50/CS800 | 70,50/CS800 |
| 71,0 | 71,00/CS804 | 71,00/CS804 | 71,00/CS804 |
| 71,5 | 71,50/CS808 | 71,50/CS808 | 71,50/CS808 |
| 72,0 | 72,00/CS812 | 72,00/CS812 | 72,00/CS812 |
| 72,5 | 72,50/CS816 | 72,50/CS816 | 72,50/CS816 |
| 73,0 | 73,00/CS820 | 73,00/CS820 | 73,00/CS820 |
| 73,5 | 73,50/CS824 | 73,50/CS824 | 73,50/CS824 |
| 74,0 | 74,00/CS828 | 74,00/CS828 | 74,00/CS828 |
| 74,5 | 74,50/CS832 | 74,50/CS832 | 74,50/CS832 |
| 75,0 | 75,00/CS836 | 75,00/CS836 | 75,00/CS836 |
| 75,5 | 75,50/CS840 | 75,50/CS840 | 75,50/CS840 |
| 76,0 | 76,00/CS844 | 76,00/CS844 | 76,00/CS844 |
| 76,5 | 76,50/CS848 | 76,50/CS848 | 76,50/CS848 |
| 77,0 | 77,00/CS852 | 77,00/CS852 | 77,00/CS852 |
| 77,5 | 77,50/CS856 | 77,50/CS856 | 77,50/CS856 |
| 78,0 | 78,00/CS860 | 78,00/CS860 | 78,00/CS860 |
| 78,5 | 78,50/CS864 | 78,50/CS864 | 78,50/CS864 |
| 79,0 | 79,00/CS868 | 79,00/CS868 | 79,00/CS868 |
| 79,5 | 79,50/CS872 | 79,50/CS872 | 79,50/CS872 |
| 80,0 | 80,00/CS876 | 80,00/CS876 | 80,00/CS876 |
| 80,5 | 80,50/CS880 | 80,50/CS880 | 80,50/CS880 |
| 81,0 | 81,00/CS884 | 81,00/CS884 | 81,00/CS884 |
| 81,5 | 81,50/CS888 | 81,50/CS888 | 81,50/CS888 |
| 82,0 | 82,00/CS892 | 82,00/CS892 | 82,00/CS892 |
| 82,5 | 82,50/CS896 | 82,50/CS896 | 82,50/CS896 |
| 83,0 | 83,00/CS900 | 83,00/CS900 | 83,00/CS900 |
| 83,5 | 83,50/CS904 | 83,50/CS904 | 83,50/CS904 |
| 84,0 | 84,00/CS908 | 84,00/CS908 | 84,00/CS908 |
| 84,5 | 84,50/CS912 | 84,50/CS912 | 84,50/CS912 |
| 85,0 | 85,00/CS916 | 85,00/CS916 | 85,00/CS916 |
| 85,5 | 85,50/CS920 | 85,50/CS920 | 85,50/CS920 |
| 86,0 | 86,00/CS924 | 86,00/CS924 | 86,00/CS924 |
| 86,5 | 86,50/CS928 | 86,50/CS928 | 86,50/CS928 |
| 87,0 | 87,00/CS932 | 87,00/CS932 | 87,00/CS932 |
| 87,5 | 87,50/CS936 | 87,50/CS936 | 87,50/CS936 |
| 88,0 | 88,00/CS940 | 88,00/CS940 | 88,00/CS940 |
| 88,5 | 88,50/CS944 | 88,50/CS944 | 88,50/CS944 |
| 89,0 | 89,00/CS948 | 89,00/CS948 | 89,00/CS948 |
| 89,5 | 89,50/CS952 | 89,50/CS952 | 89,50/CS952 |
| 90,0 | 90,00/CS956 | 90,00/CS956 | 90,00/CS956 |
| 90,5 | 90,50/CS960 | 90,50/CS960 | 90,50/CS960 |
| 91,0 | 91,00/CS964 | 91,00/CS964 | 91,00/CS964 |
| 91,5 | 91,50/CS968 | 91,50/CS968 | 91,50/CS968 |
| 92,0 | 92,00/CS972 | 92,00/CS972 | 92,00/CS972 |
| 92,5 | 92,50/CS976 | 92,50/CS976 | 92,50/CS976 |
| 93,0 | 93,00/CS980 | 93,00/CS980 | 93,00/CS980 |
| 93,5 | 93,50/CS984 | 93,50/CS984 | 93,50/CS984 |
| 94,0 | 94,00/CS988 | 94,00/CS988 | 94,00/CS988 |
| 94,5 | 94,50/CS992 | 94,50/CS992 | 94,50/CS992 |
| 95,0 | 95,00/CS996 | 95,00/CS996 | 95,00/CS996 |
| 95,5 | 95,50/CS1000 | 95,50/CS1000 | 95,50/CS1000 |
| 96,0 | 96,00/CS1004 | 96,00/CS1004 | 96,00/CS1004 |
| 96,5 | 96,50/CS1008 | 96,50/CS1008 | 96,50/CS1008 |
| 97,0 | 97,00/CS1012 | 97,00/CS1012 | 97,00/CS1012 |
| 97,5 | 97,50/CS1016 | 97,50/CS1016 | 97,50/CS1016 |
| 98,0 | 98,00/CS1020 | 98,00/CS1020 | 98,00/CS1020 |
| 98,5 | 98,50/CS1024 | 98,50/CS1024 | 98,50/CS1024 |
| 99,0 | 99,00/CS1028 | 99,00/CS1028 | 99,00/CS1028 |
| 99,5 | 99,50/CS1032 | 99,50/CS1032 | 99,50/CS1032 |
| 100,0 | 100,00/CS1036 | 100,00/CS1036 | 100,00/CS1036 |

| POÇO DE VISITA TIPO – ARMAÇÃO DAS TAMPAIS | | | | | | | | | | |
|---|----|----------|-----|-----|----------|----------|-----|----------|---------|-----------|
| X (cm) | Y | P 1 | P 2 | P 3 | P 4 | P 5 | P 6 | P 7 | P 8 | P 9 |
| 120 | 60 | 6,3 ∓ 15 | - | - | 6,3 ∓ 15 | 3 ∓ 12,5 | - | 3 ∓ 12,5 | 4 ∓ 6,3 | 12 ∓ 10,0 |



| CONCRETO SIMPLES / ARMADO | | | | | CONCRETO ARMADO | | | | | | | | |
|-----------------------------|----------|---------|-----------|-------------|-----------------|---------|---------|---------|---------|---------|---------|---------|-------|
| DIMENSÕES E CONSUMOS MÉDIOS | | | | | | | | | | | | | |
| TIPO | CONCRETO | FORMAS | ESCAVAÇÃO | APLACAMENTO | TIPO | N 1 | N 2 | N 3 | N 4 | N 5 | N 6 | PESO | |
| a | (m³/m²) | (m³/m²) | (m³/m²) | (m³/m²) | | (kg/m³) | (kg/m³) | (kg/m³) | (kg/m³) | (kg/m³) | (kg/m³) | (kg/m³) | |
| DO 0102 | 60 | 0,55 | 2,83 | 1,24 | 0,12 | 10002 | 3,05 | 0,87 | 4,14 | 0,33 | 1,94 | 0,20 | 10,57 |
| DO 0304 | 80 | 0,42 | 3,03 | 1,28 | 0,14 | 10004 | 3,05 | 0,87 | 4,14 | 0,42 | 2,38 | 0,25 | 11,14 |



NOTAS:

01 - SISTEMA DE COBRANÇAS UNIC, SIRSOL 2000, FUSO 235;
02 - SISTEMA DE COBRANÇAS UNIC, SIRSOL 2000, FUSO 235;
03 - AS ESCOLAS INDICADAS NESTE DESEJO REFEREM-SE AO PROMOTO "A1".
04 - AS COAS DOS FRECHOS EXISTENTES DEVERÃO SER CONSERVADAS EM CAMPO.
05 - NOS LOCAS DE ENTRADA DE VEÍCULO O MEO-NO DEVEVA SER REPARADO.
06 - TOSOS OS DISPOSITIVOS SÃO PADRÃO SUCOPAR, EXCETO ONDE INDICADO COMO PADRÃO DNIT.

[illegible]

CONTRATANTE:
PREFEITURA MUNICIPAL DE SANTA LUZIA

TÍTULO:

SANITÁRIA/LUZA / MG

PROJETO DE DRENAGEM
INTERSEÇÃO DA MANGUEIRA
DETAΛHES TIPO