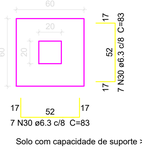
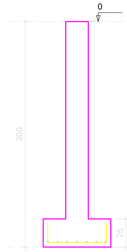
PRODUCED BY AN AUTODESK STUDENT VERSION

S32
PLANTA
ESC 1:25

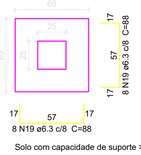


Solo com capacidade de suporte > 4.00 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

CORTE
ESC 1:25

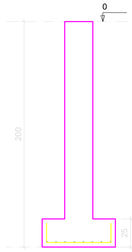


S9=S20
PLANTA
ESC 1:25

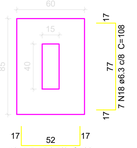


Solo com capacidade de suporte > 4.00 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

CORTE
ESC 1:25



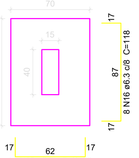
S19
PLANTA
ESC 1:25



Solo com capacidade de suporte > 4.00 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

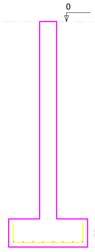
CORTE
ESC 1:25

S16
PLANTA
ESC 1:25

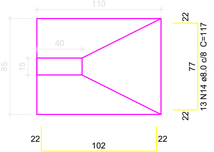


Solo com capacidade de suporte > 4.00 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

CORTE
ESC 1:25



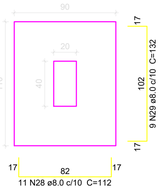
S15=S18
PLANTA
ESC 1:25



Solo com capacidade de suporte > 4.00 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

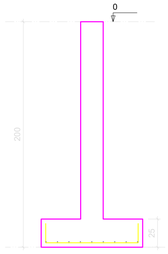
CORTE
ESC 1:25

S31
PLANTA
ESC 1:25

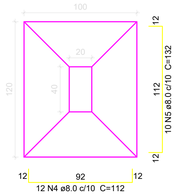


Solo com capacidade de suporte > 4.00 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

CORTE
ESC 1:25

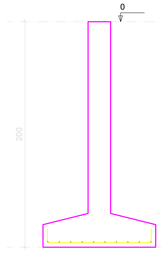


S10
PLANTA
ESC 1:25

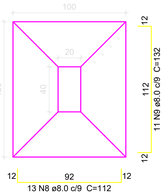


Solo com capacidade de suporte > 4.00 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

CORTE
ESC 1:25

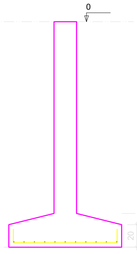


S12
PLANTA
ESC 1:25

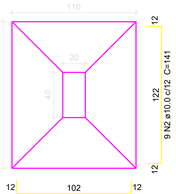


Solo com capacidade de suporte > 4.00 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

CORTE
ESC 1:25

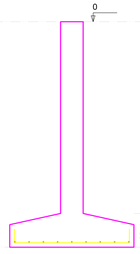


S1
PLANTA
ESC 1:25

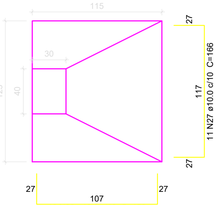


Solo com capacidade de suporte > 4.00 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

CORTE
ESC 1:25

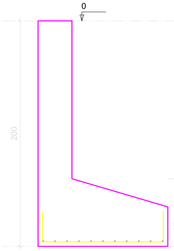


S30
PLANTA
ESC 1:25

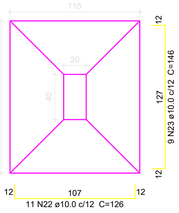


Solo com capacidade de suporte > 4.00 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

CORTE
ESC 1:25

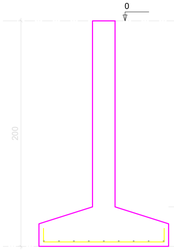


S22
PLANTA
ESC 1:25

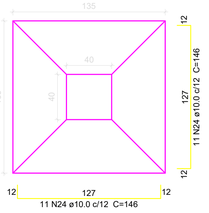


Solo com capacidade de suporte > 4.00 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

CORTE
ESC 1:25

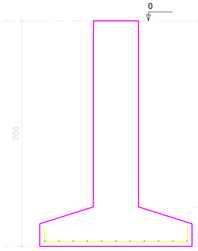


S8=S24
PLANTA
ESC 1:25

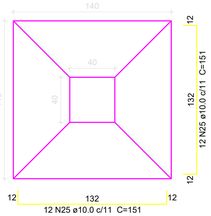


Solo com capacidade de suporte > 4.00 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

CORTE
ESC 1:25

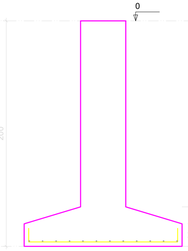


S25
PLANTA
ESC 1:25

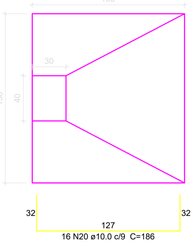


Solo com capacidade de suporte > 4.00 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

CORTE
ESC 1:25

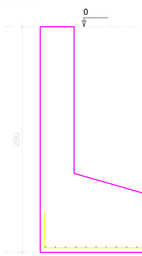


S21
PLANTA
ESC 1:25

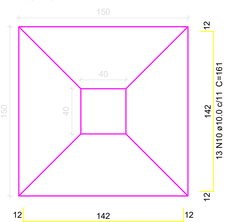


Solo com capacidade de suporte > 4.00 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

CORTE
ESC 1:25

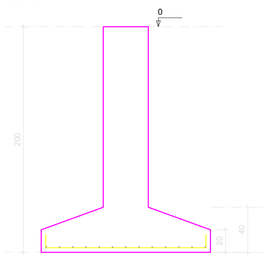


S13
PLANTA
ESC 1:25

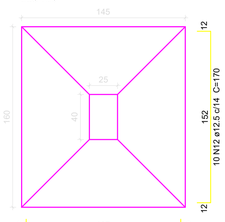


Solo com capacidade de suporte > 4.00 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

CORTE
ESC 1:25

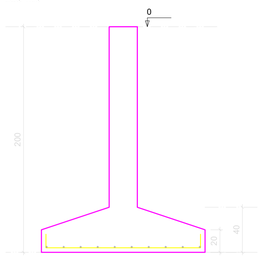


S14
PLANTA
ESC 1:25

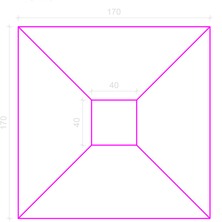


Solo com capacidade de suporte > 4.00 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

CORTE
ESC 1:25

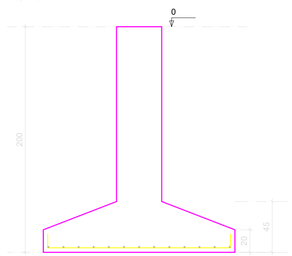


S2
PLANTA
ESC 1:25

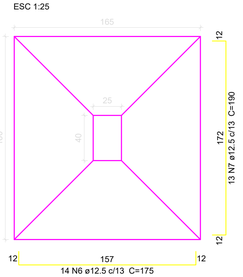


Solo com capacidade de suporte > 4.00 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

CORTE
ESC 1:25

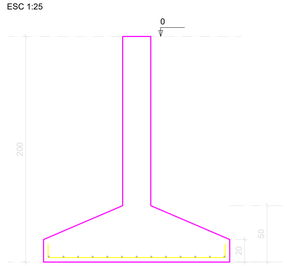


S11
PLANTA
ESC 1:25



Solo com capacidade de suporte > 4.00 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

CORTE
ESC 1:25



Relação do aço

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
S1	CA50	1	10.0	11	121	1331
	CA50	2	10.0	9	141	1269
S2	CA50	3	12.5	26	180	4680
S10	CA50	4	8.0	12	112	1344
	CA50	5	8.0	10	132	1320
S11	CA50	6	12.5	14	175	2450
	CA50	7	12.5	13	190	2470
S12	CA50	8	8.0	13	112	1456
	CA50	9	8.0	11	132	1452
S13	CA50	10	10.0	26	161	4186
S14	CA50	11	12.5	11	155	1705
	CA50	12	12.5	10	170	1700
2xS15	CA50	13	8.0	20	142	2840
	CA50	14	8.0	26	117	3042
S16	CA50	15	6.3	11	93	1023
	CA50	16	6.3	8	118	944
S19	CA50	17	6.3	10	83	830
	CA50	18	6.3	7	108	756
2xS20	CA50	19	6.3	32	88	2816
S21	CA50	20	10.0	16	186	2976
	CA50	21	10.0	15	201	3015
S22	CA50	22	10.0	11	126	1386
	CA50	23	10.0	9	146	1314
2xS24	CA50	24	10.0	44	146	6424
S25	CA50	25	10.0	24	151	3624
S30	CA50	26	10.0	12	156	1872
	CA50	27	10.0	11	166	1826
S31	CA50	28	8.0	11	112	1232
	CA50	29	8.0	9	132	1188
S32	CA50	30	6.3	14	83	1162

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10 % (Barras)	PESO + 10 % (kg)
CA50	6.3	75.4	7	20.3
	8.0	138.8	13	60.2
	10.0	292.3	27	198.2
	12.5	130.1	12	137.8
PESO TOTAL (kg)				
CA50	416.5			

Volume de concreto (C-35) = 9.31 m³
Área de forma = 24.01 m²

ESTRUTURA EM CONCRETO

KENNEDY VASCONCELOS
ENGENHEIRO CIVIL

CÁLCULO ESTRUTURAL
INSTALAÇÕES PREDIAIS
(88) 9.9862.3700

PROPRIETÁRIO: **Prefeitura Municipal de Sobral**
OBRA: **ESCOLA DE SAUDE**
LOCAL: **Av. Jonh Sanford, 1300 , Junco, Sobral-CE**

PROJETO:
F° KENNEDY M. VASCONCELOS
Eng° CIVIL - CREA CE15268D

REVISÕES:

CONTEÚDO:
ARMADURA DAS SAPATAS

PRANCHA N°
10/40

DATA: NOV/2017

FORMATO: SUPER D - INTERNO: 868 x 590 mm.
EXTERNO: 914 x 610 mm.

PRODUCED BY AN AUTODESK STUDENT VERSION
PRODUCED BY AN AUTODESK STUDENT VERSION
PRODUCED BY AN AUTODESK STUDENT VERSION