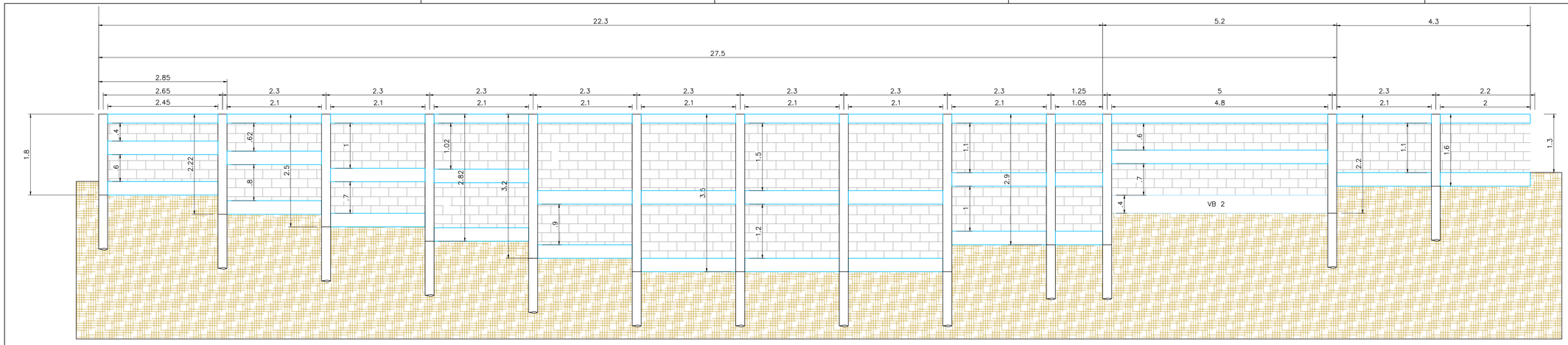
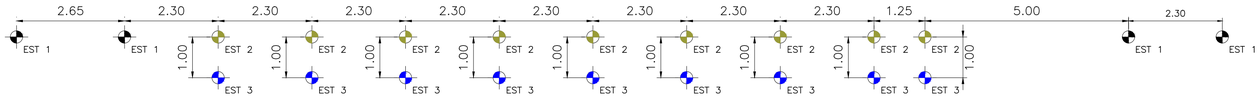


2 MURO LADO ESQUERDO

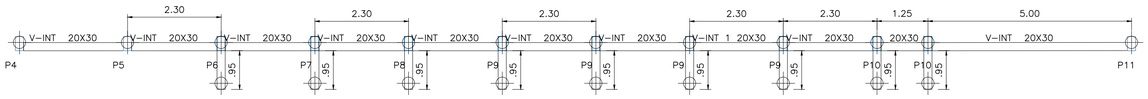
ESCALA 1:50

LOCAÇÃO DAS ESTACAS ESC 1:75

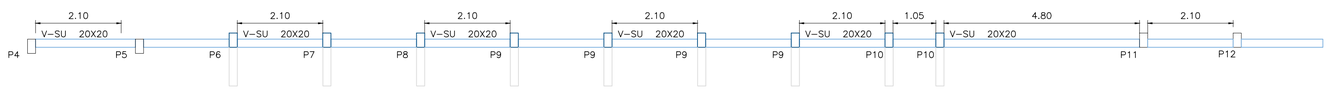


FORMA NÍVEL BALDRAME ESC 1:75

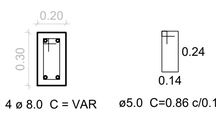
FORMA NÍVEL INTERMEDIARIO ESC 1:75



FORMA NÍVEL SUPERIOR ESC 1:75

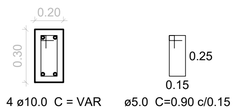


VIGA BALDRAME 1 =INTERMEDIARIA



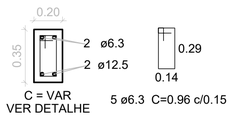
4 ø 8.0 C = VAR ø5.0 C=0.86 c/0.15

PILARES



4 ø10.0 C = VAR ø5.0 C=0.90 c/0.15

VIGA ALAVANCA

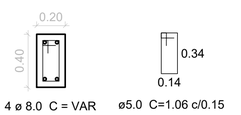


C = VAR VER DETALHE 5 ø6.3 C=0.96 c/0.15

VIGA SUPERIOR

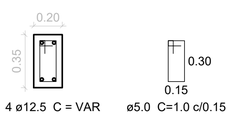
4 ø8.0 C = VAR ø5.0 C=0.66 c/15

VIGA BALDRAME 2



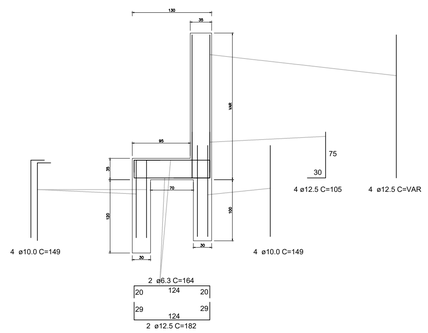
4 ø 8.0 C = VAR ø5.0 C=1.06 c/0.15

PILARES ALAVANCA

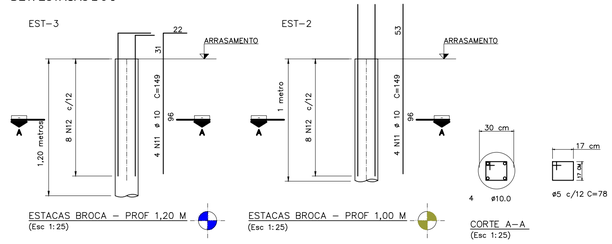


4 ø12.5 C = VAR ø5.0 C=1.0 c/0.15

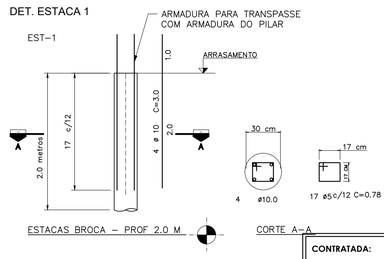
DET. ALAVANCA



DET. ESTACAS 2 e 3



DET. ESTACA 1



AÇO ESTACAS

AÇO	DIAM	Q.	C.TOTAL (m)	KG
CA50	10.0	4.0	155.28	95.81
CA60	5.0	334	260.52	40.12

Relação do aço

AÇO	ITEM	DIAM	Q	UNIT (m)	C.TOTAL (m)
CA60	BALDRAME	5.0	178	0.86	153.08
	INTERMED.	5.0	184	0.86	158.24
	SUPERIOR	5.0	214	0.66	141.24
	PILARES	5.0	42	0.86	36.12
	PILARES AL	5.0	174	1.0	174.00
CA50					
	PILARES AL	6.3	16	1.64	26.24
	BALDRAME	8.0	4	33.02	132.08
	INTERMED.	8.0	4	28.04	112.16
	SUPERIOR	8.0	4	32.54	130.16
	PILAR	10.0	4	7.82	31.28
	PILAR/ALA	12.5	4	25.42	101.68
	PILAR/ALA L	12.5	4	8.40	33.60
	PILAR/ALA C	12.5	2	14.56	29.12
	VIGA AL	6.3	40	0.96	38.40

Resumo do aço

AÇO	DIAM	PESO (kg)				
		BALDRAME	PILAR	INTERMED	SUPERIOR	ALAVANCA
CA50	10.0	-	19.30	-	-	-
	8.0	52.17	-	44.30	51.41	-
	12.5	-	-	-	-	158.28
	6.3	-	-	-	-	15.82
CA60	5.0	62.71	5.56	24.37	21.75	26.80

PESO TOTAL (kg)	
CA50	325.46
CA60	141.19

CONTRATADA: CARVALHO AMARAL ENGENHARIA & PROJETOS
CNPJ Nº: 16.783.066/0001-35
AVENIDA MESTRA RINHINHA, Nº 726 - 1º ANDAR,
CIDADE SANTA MARIA, MONTES CLAROS/MG - CEP: 39401-074

CONTRATANTE: PREFEITURA MUNICIPAL ENGENHEIRO NAVARRO
CNPJ Nº: 17.697.152/0001-98
RUA JOSÉ MARQUES CALDEIRA, Nº 329 - CENTRO
ENGENHEIRO NAVARRO/MG - CEP: 39363-000

RESPONSÁVEL TÉCNICO:
VITOR SOARES RAMOS:11044806621
Assinado de forma digital por VITOR SOARES RAMOS:11044806621
Dados: 2023.12.15 10:19:38 -03'00'
VITOR SOARES RAMOS
CREA/CAU: 241.720/D-MG

RESPONSÁVEL LEGAL:
PREFEITO(A) MUNICIPAL DE ENGENHEIRO NAVARRO

CONSTRUÇÃO DO MURO DE ARRIMO - UBS TIPO I PADRÃO

DESCRIÇÃO: DETALHE MURO ESQUERDO, LOCAÇÃO ESTACAS, FORMAS, DETALHES E QUADRO DE AÇO

ENDEREÇO DA OBRA: RUA CÉLIA DIAS DE ALMEIDA - S/N

MUNICÍPIO: ENGENHEIRO NAVARRO/MG | **DATA INICIAL:** 11 DE DEZEMBRO DE 2023

FASE DO PROJETO: INICIAL | **ART/RRT:** | **DATA DA REV.:**

REFERÊNCIA DO PROJETO: 2472 | **ESCALA:** INDICADAS | **Nº REVISÃO:** 02/05

ESTRUTURAL