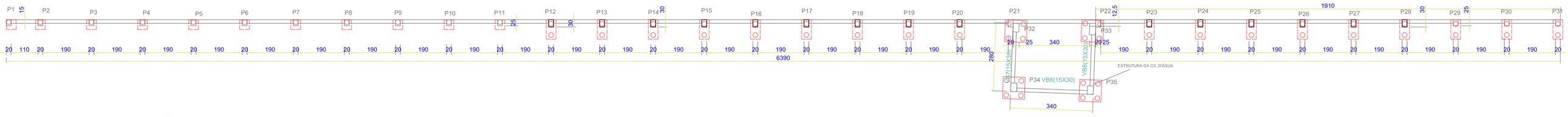
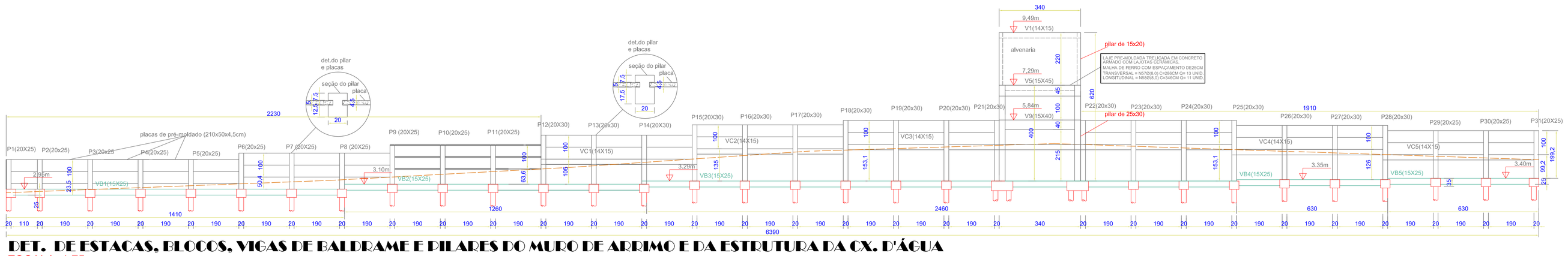


PLANTA DE LOCAÇÃO DE ESTACAS, BLOCOS, VIGAS DE BALDRAME E PILARES DO MURO DE ARRIMO E DA ESTRUTURA DA CX. D'ÁGUA

ESCALA: 1:75



DET. DE ESTACAS, BLOCOS, VIGAS DE BALDRAME E PILARES DO MURO DE ARRIMO E DA ESTRUTURA DA CX. D'ÁGUA

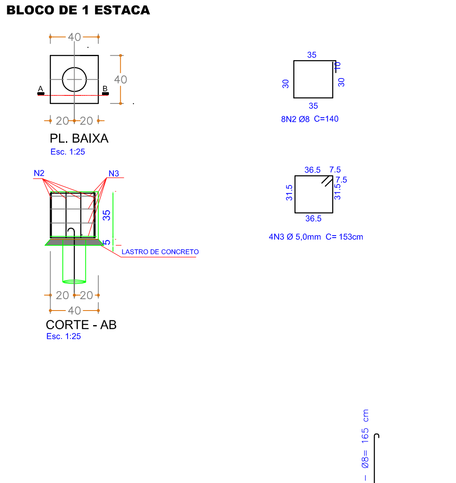
ESCALA: 1:75

NOTA:
- AS ESTACAS DO MURO DOS FUNDOS SERÃO MOLDADAS "IN-LOCO"COM Ø IGUAL A 15CM TERÃO COMPRIMENTO NÃO INFERIOR A 1,50m.
- AS ESTACAS DA ESTRUTURA DA CX. D'ÁGUA DA RTI SERÃO MOLDADAS "IN-LOCO"COM Ø IGUAL A 20CM TERÃO COMPRIMENTO NÃO INFERIOR A 3,00m.

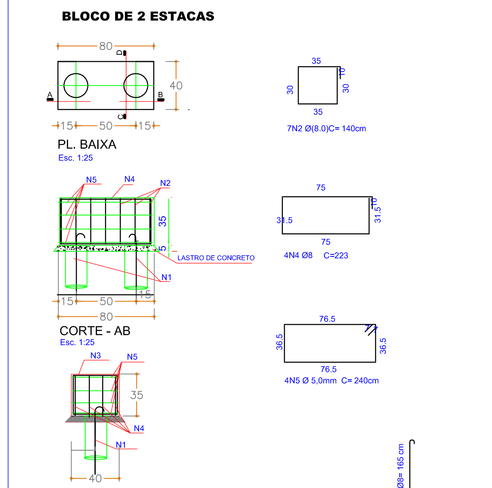
RELAÇÃO DO AÇO DAS ESTACAS BLCCOS , VIGAS E PILARES DO MURO DOS FUNDOS E ESTRUTURA EM C.A. DA CX. D'ÁGUA DA RTI

ACO	Nº	DIAM. (mm)	QUAUT.	UNIT. (cm)	C. TOTAL (cm)
CA.50-A	N1	8.0	126	165	20790
CA.50-A	N2	8.0	2:4	140	29960
CA.60-B	N3	5.0	44	153	6732
CA.50-A	N4	8.0	72	223	16056
CA.60-B	N5	5.0	72	240	17280
CA.60-B	N6	5.0	16	356	5696
CA.50-A	N6A	8.0	56	155	8680
CA.50-A	N7	8.0	48	153	7344
CA.60-B	N8	4.2	153	50	7650
CA.60-B	N9	4.2	153	65	9945
CA.60-B	N10	5.0	153	60	9180
CA.50-A	N11	8.0	36	180	6480
CA.50-A	N12	8.0	36	194	6984
CA.50-A	N13	8.0	24	235	5640
CA.50-A	N14	10.0	12	235	2820
CA.60-B	N15	4.2	302	50	15100
CA.60-B	N16	4.2	302	75	22650
CA.60-B	N17	5.0	302	70	21140
CA.50-A	N18	8.0	24	265	6360
CA.50-A	N19	10.0	12	265	3180
CA.50-A	N20	8.0	56	283	15848
CA.50-A	N21	12.5	28	283	7924
CA.50-A	N22	8.0	16	256	4096
CA.50-A	N23	12.5	8	256	2048
CA.50-A	N24	8.0	16	229	3664
CA.50-A	N25	10.0	8	229	1832
CA.50-A	N26	12.5	18	495	8910
CA.50-A	N27	12.5	12	430	5160
CA.60-B	N28	5.0	102	120	12240
CA.50-A	N29	10.0	12	220	2640
CA.60-B	N30	4.2	45	70	3150
CA.50-A	N31	10.0	12	1200	14400
CA.50-A	N32	10.0	6	306	1836
CA.50-A	N33	12.5	12	1200	14400
CA.50-A	N34	12.5	4	306	1224
CA.60-B	N35	4.2	378	80	30240
CA.50-A	N36	10.0	2	176	352
CA.50-A	N37	12.5	2	176	352
CA.50-A	N38	10.0	2	280	560
CA.50-A	N39	12.5	2	280	560
CA.50-A	N40	10.0	4	666	2664
CA.50-A	N41	12.5	4	666	2664
CA.50-A	N42	12.5	36	356	12816
CA.60-B	N43	4.2	39	50	1950
CA.50-A	N44	12.5	36	296	10656
CA.50-A	N45	8.0	8	356	2848
CA.60-B	N46	4.2	381	55	20955
CA.50-A	N47	8.0	12	296	3552
CA.50-A	N48	8.0	8	336	2688
CA.50-A	N49	10.0	8	336	2688
CA.60-B	N50	5.0	72	120	8640
CA.50-A	N51	8.0	8	276	2208
CA.50-A	N52	12.5	8	276	2208
CA.60-B	N53	5.0	72	110	7920
CA.50-A	N54	8.0	16	666	10656
CA.50-A	N55	8.0	4	1200	4800
CA.50-A	N56	8.0	4	526	2104
CA.50-A	N57	8.0	11	286	3146
CA.50-A	N56	8.0	13	346	4498

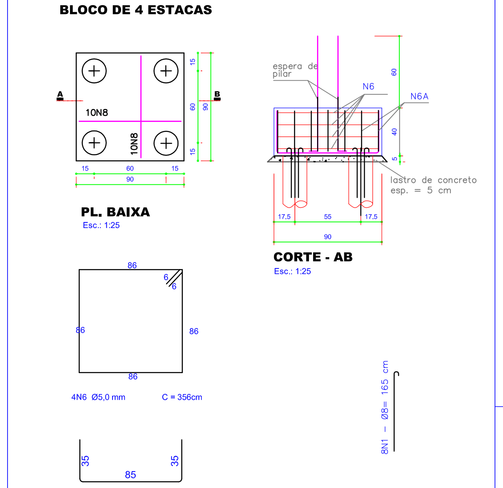
BLOCO DE 1 ESTACA



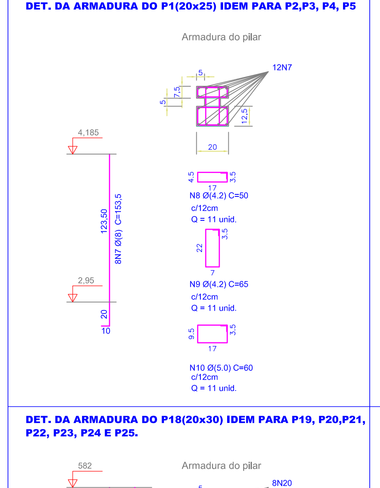
BLOCO DE 2 ESTACAS



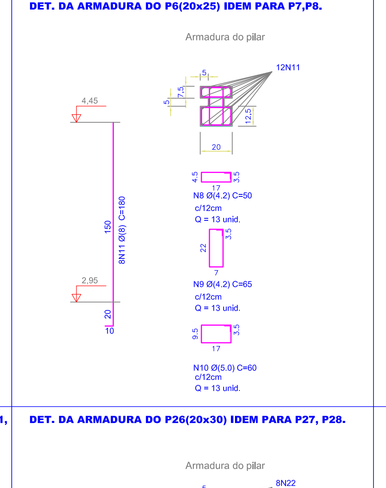
BLOCO DE 4 ESTACAS



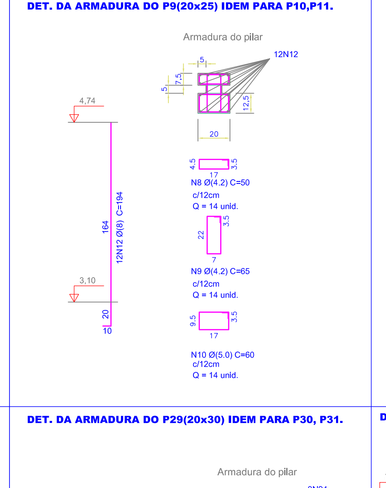
DET. DA ARMADURA DO P1(20x25) IDEM PARA P2,P3, P4, P5



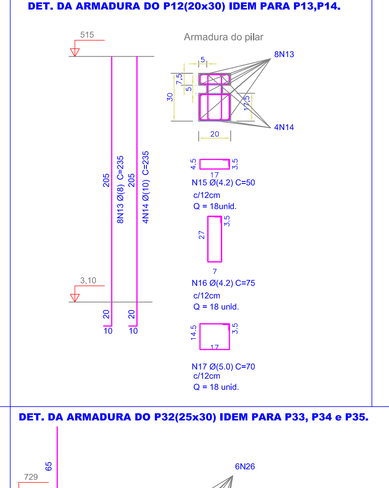
DET. DA ARMADURA DO P6(20x25) IDEM PARA P7,P8.



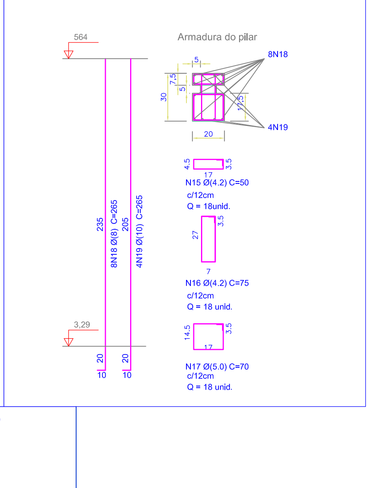
DET. DA ARMADURA DO P9(20x25) IDEM PARA P10,P11.



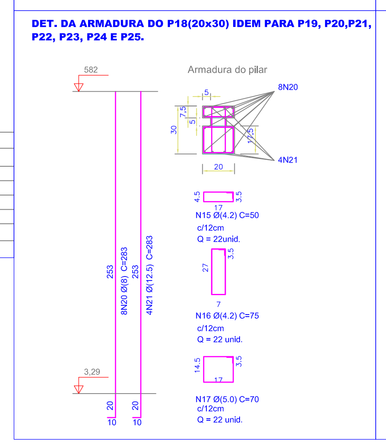
DET. DA ARMADURA DO P12(20x30) IDEM PARA P13,P14.



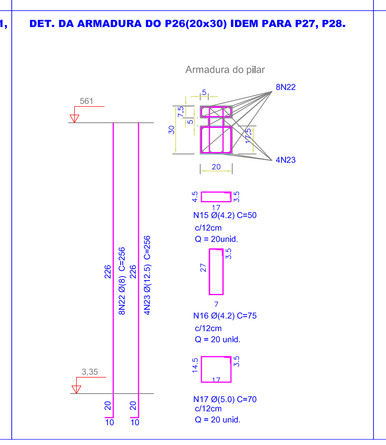
DET. DA ARMADURA DO P15(20x30) IDEM PARA P16, P17.



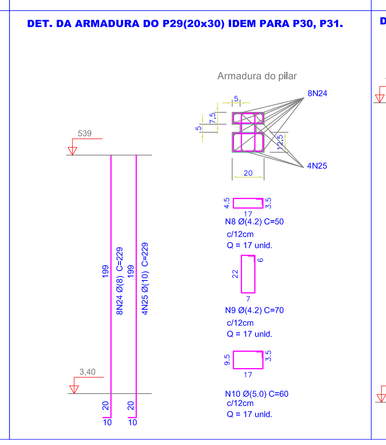
DET. DA ARMADURA DO P18(20x30) IDEM PARA P19, P20,P21, P22, P23, P24 E P25.



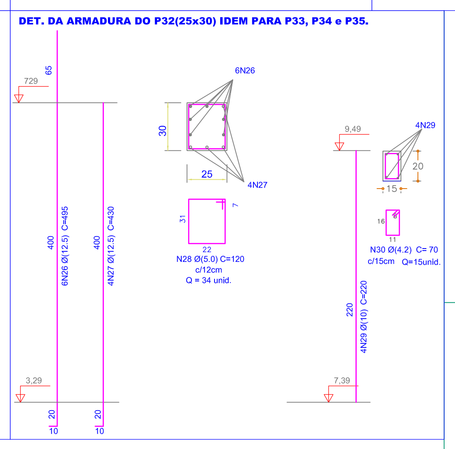
DET. DA ARMADURA DO P26(20x30) IDEM PARA P27, P28.



DET. DA ARMADURA DO P29(20x30) IDEM PARA P30, P31.



DET. DA ARMADURA DO P32(25x30) IDEM PARA P33, P34 e P35.



RESUMO DAS ARMADURAS DO BLOCO

POSIÇÃO DA ARMADURA NO BLOCO	AÇO	DIAM. (mm)	PESO (kg/m)	QUANT. TIPO	COMPRIMENTO PEÇA	COMPRIMENTO TOTAL(m)	PESO (kg) TOTAL
N1	50-A	8	0.40	2	1,65	3,30	1,32
N2	50-A	8	0.40	8	1,40	11,20	4,48
N3	60-B	5	0.15	4	1,53	6,12	0,92
VOLUME DE CONCRETO = 0,056m3			fck = 18 mPa				

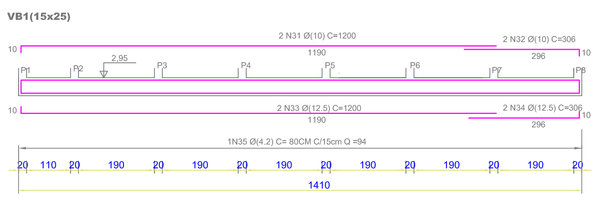
RESUMO DAS ARMADURAS DO BLOCO

POSIÇÃO DA ARMADURA NO BLOCO	AÇO	DIAM. (mm)	PESO (kg/m)	QUANT. TIPO	COMPRIMENTO PEÇA	COMPRIMENTO TOTAL(m)	PESO (kg) TOTAL
N1	50-A	8	0.40	4	1,65	6,60	2,64
N2	50-A	8	0.40	7	1,40	9,80	3,92
N4	50-A	8	0.40	4	2,23	8,92	3,56
N5	60-B	5	0.15	4	2,40	9,60	1,44
VOLUME DE CONCRETO = 0,112m3			fck = 18 mPa				

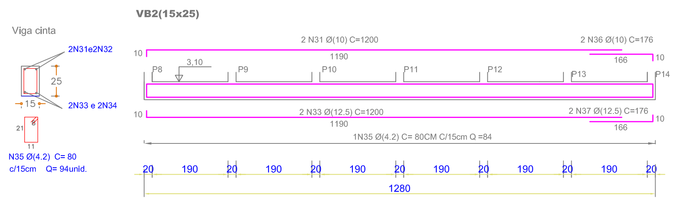
RESUMO DAS ARMADURAS DO BLOCO

POSIÇÃO DA ARMADURA NO BLOCO	AÇO	DIAM. (mm)	PESO (kg/m)	QUANT. TIPO	COMPRIMENTO PEÇA	COMPRIMENTO TOTAL (m)	PESO TOTAL
N1	50-A	8	0.40	8	1,65	13,20	5,54
N6	60-B	5	0.15	4	3,56	14,24	2,35
N6A	50-A	8	0.40	14	1,55	21,84	9,17
VOLUME DE CONCRETO = 0,324 m3			fck = 18 mPa				

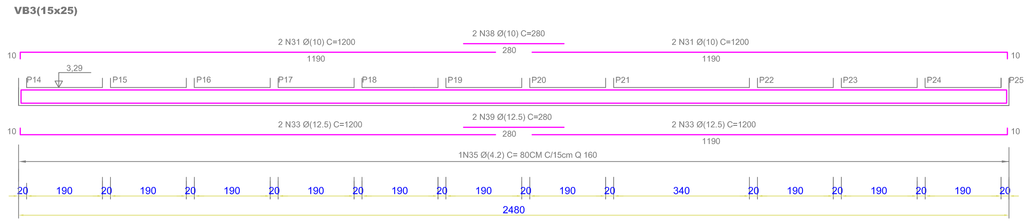
VB1(15x25)



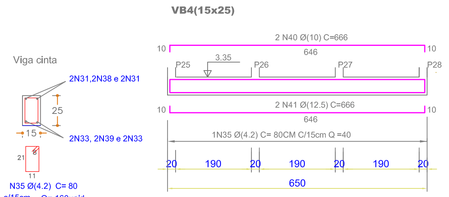
VB2(15x25)



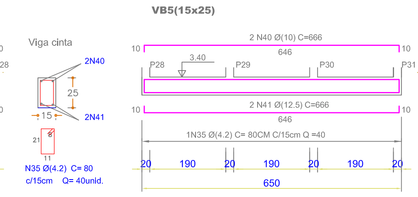
VB3(15x25)



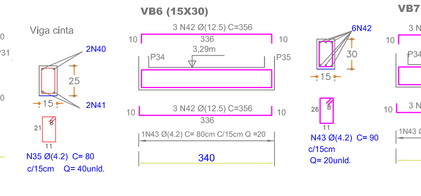
VB4(15x25)



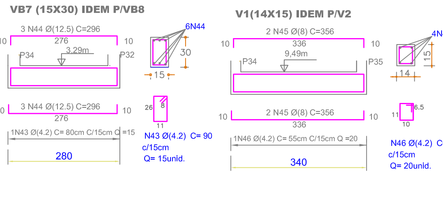
VB5(15x25)



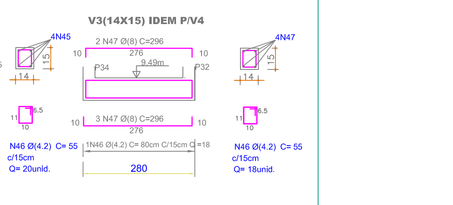
VB6 (15X30)



VB7 (15X30) IDEM P/VB8

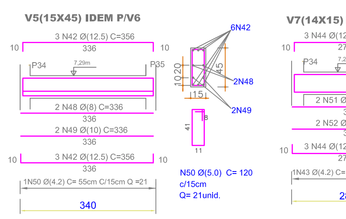


V1(14X15) IDEM P/V2

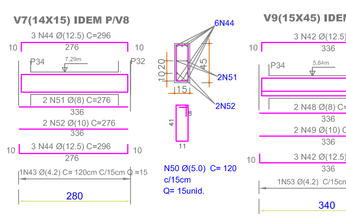


V3(14X15) IDEM P/V4

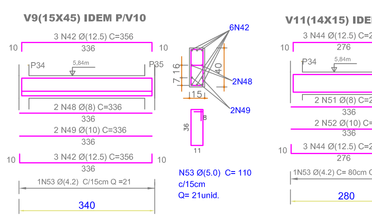
V5(15X45) IDEM P/V6



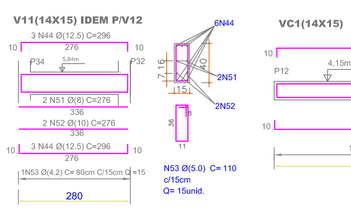
V7(14X15) IDEM P/V8



V9(15X45) IDEM P/V10



V11(14X15) IDEM P/V12



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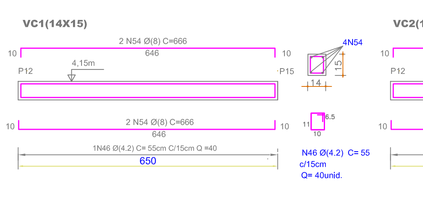
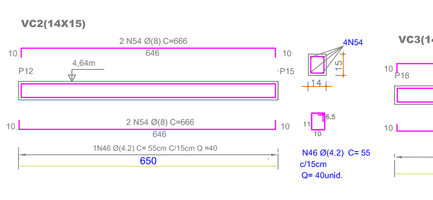


VC2(14X15)



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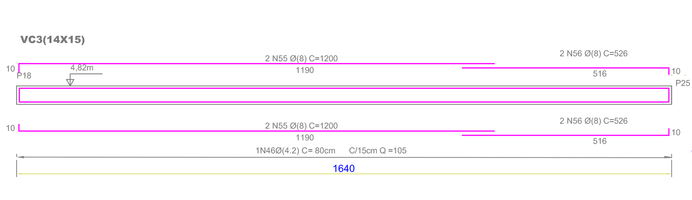

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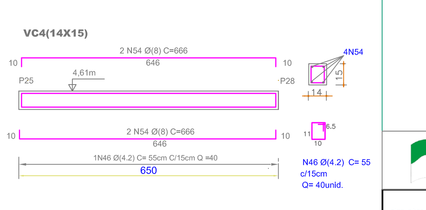

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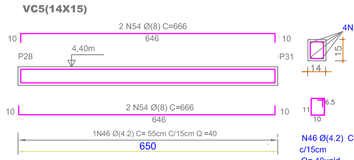

QUADRO RESUMO DE BARRAS

Ø	COMPRIMENTO	PESO + 3%	BARRAS	AÇO
4,2mm	1116,4 m	119,589 kg	96	CA-60B
5,0mm	888,28 m	146,389 kg	76	CA-60B
8,0mm	1684,00 m	693,808 kg	145	CA-50A
10,0mm	329,72 m	213,955 kg	28	CA-50A
12,5mm	689,22 m	709,897 kg	59	CA-50A

RESISTÊNCIA DO CONCRETO:

ESTACAS = 18mPa
BLOCOS = 20mPa
VIGAS DE BALDRAME = 20mPa
VIGAS INTERMEDIÁRIAS = 22mPa
PILARES= 22mPa
VOLUME DE CONCRETO
Estacas: 7,047 m³
Blocos: 7,316 m³
Vigas: 14,639 m³
Pilares: 9,573 m³
Concreto do piso da laje: 0,553 m³
Placas de pré-moldados de C.A.: 2,572m³

ESTADO DE SANTA CATARINA
PREFEITURA MUNICIPAL DE IRINEÓPOLIS
CNPJ: 83.102.5080001-05
Rua Paraná, 200- Centro, CEP. 89440-000
FONE: (047) 36251111 E-mail: prefeitura@irineopolis.sc.gov.br

ESTRUTURAL

Projeto:
Tipo de edificação: EDIFICAÇÃO DE RAMPA DE ACESSIBILIDADE, MUROS E ESTRUTURA EM CONCRETO ARMADO PARA CX. D'ÁGUA DA RTI DO NÚCLEO ESCOLAR GUILHERME BOSSOW

Prop.: PREFEITURA MUNICIPAL DE IRINEÓPOLIS
Localiz. da obra.: RIO BRANCO - IRINEOPOLIS- SC

resp. técnico:

ass.do prefeito

área a construir:

escalas: INDICADAS

des.: JAP

data: 06/2016

ref.: DET. DA ARMADURA DO MURO E DA ESTRUTURA EM CONCRETO ARMADO DA CAIXA D'ÁGUA DA RTI

fls.: 03/03