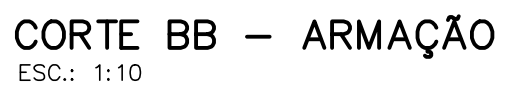
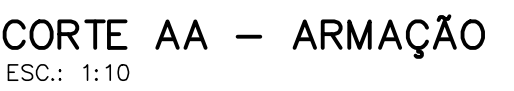


VOLUME DE CONCRETO fck 30MPa = 1,20 m3
VOLUME DE CONCRETO MAGRO = 0,15 m3
ÁREA DE FORMAS = 12,50 m2
VOLUME DE ESCAVAÇÃO = 12,40 m3
VOLUME DE REATERRO = 11,55 m3
VOLUME DE BOTA-FORA = 0,85 m3
APOIOAMENTO DE FUNDO DE VALA = 4,50 m2

Ø
ev > 2cm
0.5 Ø MAX. AGREG.

Ø
ch > 2cm
1.2 Ø MAX. AGREG.

- 01- COTAS E DIMENSÕES EM CENTÍMETRO E ELEVÇÕES EM METRO, EXCETO ONDE INDICADO.
- 02- CONCRETO ESTRUTURAL $f_{ck} = 30$ MPa, CONCRETO MAGRO $f_{ck} = 10$ MPa.
- 03- PARA A CURA DO CONCRETO DEVERÁ SER UTILIZADA LAMINA D'ÁGUA OU LONA (MANTA BÍDM) ENCARCADADA, ADOTAR A CURA QUÍMICA E PROTEÇÃO CONTRA O VENTO IMEDIATAMENTE APÓS O PERÍODO DE PEGA.
- 04- AS FORMAS E ENCOFRAMENTOS DEVERÃO SER DIMENSIONADOS E EXECUTADOS DE ACORDO COM AS PRESCRIÇÕES DA ABNT NBR 7190/97, DE MODO QUE NÃO SOFRA DEFORMAÇÕES PREJUDICIAIS, QUER SOB A AÇÃO DOS FATORES AMBIENTAIS, QUER SOB A CARGA, ESPECIALMENTE A DO CONCRETO ANTES DO INÍCIO DA PEGA. UTILIZAR FORMA CHAPA COMPENSADA RESINADA 12mm.
- 05- OS MATERIAIS CONSTITUINTES DO CONCRETO ARMADO DEVERÃO ATENDER AS SUAS RESPECTIVAS PRESCRIÇÕES, CONFORME ABNT NBR 7211, ABNT NBR 7212, ABNT NBR 7213, ABNT NBR 7214, ABNT NBR 7215, ABNT NBR 7216, ABNT NBR 7217, ABNT NBR 7218, ABNT NBR 7219, ABNT NBR 7220, ABNT NBR 7221, ABNT NBR 7222, ABNT NBR 7223, ABNT NBR 7224, ABNT NBR 7225, ABNT NBR 7226, ABNT NBR 7227, ABNT NBR 7228, ABNT NBR 7229, ABNT NBR 7230, ABNT NBR 7231, ABNT NBR 7232, ABNT NBR 7233, ABNT NBR 7234, ABNT NBR 7235, ABNT NBR 7236, ABNT NBR 7237, ABNT NBR 7238, ABNT NBR 7239, ABNT NBR 7240, ABNT NBR 7241, ABNT NBR 7242, ABNT NBR 7243, ABNT NBR 7244, ABNT NBR 7245, ABNT NBR 7246, ABNT NBR 7247, ABNT NBR 7248, ABNT NBR 7249, ABNT NBR 7250, ABNT NBR 7251, ABNT NBR 7252, ABNT NBR 7253, ABNT NBR 7254, ABNT NBR 7255, ABNT NBR 7256, ABNT NBR 7257, ABNT NBR 7258, ABNT NBR 7259, ABNT NBR 7260, ABNT NBR 7261, ABNT NBR 7262, ABNT NBR 7263, ABNT NBR 7264, ABNT NBR 7265, ABNT NBR 7266, ABNT NBR 7267, ABNT NBR 7268, ABNT NBR 7269, ABNT NBR 7270, ABNT NBR 7271, ABNT NBR 7272, ABNT NBR 7273, ABNT NBR 7274, ABNT NBR 7275, ABNT NBR 7276, ABNT NBR 7277, ABNT NBR 7278, ABNT NBR 7279, ABNT NBR 7280, ABNT NBR 7281, ABNT NBR 7282, ABNT NBR 7283, ABNT NBR 7284, ABNT NBR 7285, ABNT NBR 7286, ABNT NBR 7287, ABNT NBR 7288, ABNT NBR 7289, ABNT NBR 7290, ABNT NBR 7291, ABNT NBR 7292, ABNT NBR 7293, ABNT NBR 7294, ABNT NBR 7295, ABNT NBR 7296, ABNT NBR 7297, ABNT NBR 7298, ABNT NBR 7299, ABNT NBR 7300, ABNT NBR 7301, ABNT NBR 7302, ABNT NBR 7303, ABNT NBR 7304, ABNT NBR 7305, ABNT NBR 7306, ABNT NBR 7307, ABNT NBR 7308, ABNT NBR 7309, ABNT NBR 7310, ABNT NBR 7311, ABNT NBR 7312, ABNT NBR 7313, ABNT NBR 7314, ABNT NBR 7315, ABNT NBR 7316, ABNT NBR 7317, ABNT NBR 7318, ABNT NBR 7319, ABNT NBR 7320, ABNT NBR 7321, ABNT NBR 7322, ABNT NBR 7323, ABNT NBR 7324, ABNT NBR 7325, ABNT NBR 7326, ABNT NBR 7327, ABNT NBR 7328, ABNT NBR 7329, ABNT NBR 7330, ABNT NBR 7331, ABNT NBR 7332, ABNT NBR 7333, ABNT NBR 7334, ABNT NBR 7335, ABNT NBR 7336, ABNT NBR 7337, ABNT NBR 7338, ABNT NBR 7339, ABNT NBR 7340, ABNT NBR 7341, ABNT NBR 7342, ABNT NBR 7343, ABNT NBR 7344, ABNT NBR 7345, ABNT NBR 7346, ABNT NBR 7347, ABNT NBR 7348, ABNT NBR 7349, ABNT NBR 7350, ABNT NBR 7351, ABNT NBR 7352, ABNT NBR 7353, ABNT NBR 7354, ABNT NBR 7355, ABNT NBR 7356, ABNT NBR 7357, ABNT NBR 7358, ABNT NBR 7359, ABNT NBR 7360, ABNT NBR 7361, ABNT NBR 7362, ABNT NBR 7363, ABNT NBR 7364, ABNT NBR 7365, ABNT NBR 7366, ABNT NBR 7367, ABNT NBR 7368, ABNT NBR 7369, ABNT NBR 7370, ABNT NBR 7371, ABNT NBR 7372, ABNT NBR 7373, ABNT NBR 7374, ABNT NBR 7375, ABNT NBR 7376, ABNT NBR 7377, ABNT NBR 7378, ABNT NBR 7379, ABNT NBR 7380, ABNT NBR 7381, ABNT NBR 7382, ABNT NBR 7383, ABNT NBR 7384, ABNT NBR 7385, ABNT NBR 7386, ABNT NBR 7387, ABNT NBR 7388, ABNT NBR 7389, ABNT NBR 7390, ABNT NBR 7391, ABNT NBR 7392, ABNT NBR 7393, ABNT NBR 7394, ABNT NBR 7395, ABNT NBR 7396, ABNT NBR 7397, ABNT NBR 7398, ABNT NBR 7399, ABNT NBR 7400, ABNT NBR 7401, ABNT NBR 7402, ABNT NBR 7403, ABNT NBR 7404, ABNT NBR 7405, ABNT NBR 7406, ABNT NBR 7407, ABNT NBR 7408, ABNT NBR 7409, ABNT NBR 7410, ABNT NBR 7411, ABNT NBR 7412, ABNT NBR 7413, ABNT NBR 7414, ABNT NBR 7415, ABNT NBR 7416, ABNT NBR 7417, ABNT NBR 7418, ABNT NBR 7419, ABNT NBR 7420, ABNT NBR 7421, ABNT NBR 7422, ABNT NBR 7423, ABNT NBR 7424, ABNT NBR 7425, ABNT NBR 7426, ABNT NBR 7427, ABNT NBR 7428, ABNT NBR 7429, ABNT NBR 7430, ABNT NBR 7431, ABNT NBR 7432, ABNT NBR 7433, ABNT NBR 7434, ABNT NBR 7435, ABNT NBR 7436, ABNT NBR 7437, ABNT NBR 7438, ABNT NBR 7439, ABNT NBR 7440, ABNT NBR 7441, ABNT NBR 7442, ABNT NBR 7443, ABNT NBR 7444, ABNT NBR 7445, ABNT NBR 7446, ABNT NBR 7447, ABNT NBR 7448, ABNT NBR 7449, ABNT NBR 7450, ABNT NBR 7451, ABNT NBR 7452, ABNT NBR 7453, ABNT NBR 7454, ABNT NBR 7455, ABNT NBR 7456, ABNT NBR 7457, ABNT NBR 7458, ABNT NBR 7459, ABNT NBR 7460, ABNT NBR 7461, ABNT NBR 7462, ABNT NBR 7463, ABNT NBR 7464, ABNT NBR 7465, ABNT NBR 7466, ABNT NBR 7467, ABNT NBR 7468, ABNT NBR 7469, ABNT 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ABNT NBR 7537, ABNT NBR 7538, ABNT NBR 7539, ABNT NBR 7540, ABNT NBR 7541, ABNT NBR 7542, ABNT NBR 7543, ABNT NBR 7544, ABNT NBR 7545, ABNT NBR 7546, ABNT NBR 7547, ABNT NBR 7548, ABNT NBR 7549, ABNT NBR 7550, ABNT NBR 7551, ABNT NBR 7552, ABNT NBR 7553, ABNT NBR 7554, ABNT NBR 7555, ABNT NBR 7556, ABNT NBR 7557, ABNT NBR 7558, ABNT NBR 7559, ABNT NBR 7560, ABNT NBR 7561, ABNT NBR 7562, ABNT NBR 7563, ABNT NBR 7564, ABNT NBR 7565, ABNT NBR 7566, ABNT NBR 7567, ABNT NBR 7568, ABNT NBR 7569, ABNT NBR 7570, ABNT NBR 7571, ABNT NBR 7572, ABNT NBR 7573, ABNT NBR 7574, ABNT NBR 7575, ABNT NBR 7576, ABNT NBR 7577, ABNT NBR 7578, ABNT NBR 7579, ABNT NBR 7580, ABNT NBR 7581, ABNT NBR 7582, ABNT NBR 7583, ABNT NBR 7584, ABNT NBR 7585, ABNT NBR 7586,



RESUMO AÇO CA-50			
ø(mm)	COMP.(m)	PESO (Kg/m)	TOTAL (Kg)
6.3	48.2	0.25	12.1
8	50.7	0.40	20.3
TOTAL			32.3

CANCELA E SUBSTITUI
O DESENHO NÚMERO:

B-013-000-40-4-XX-0003 A -0011

CANCELADO E SUBSTI-
TUÍDO PELO DESENHO
NÚMERO:

EMINENTE:  ENGESOLO ENGENHARIA LTDA. Rua Alcobaca, 1.210 - Bairro São Francisco Tel: (31) 2103.4300 - Fax: (31) 2103.4389 Belo Horizonte - MG CEP: 31.255-210	
PROJETADO: ARQUITETO ARQUITETA	COORDENADOR: ARQUITETO ARQUITETA
CREA: 7816 / D REGIÃO: 15	CREA: 11694 / D REGIÃO: MG
DESENHO: ANTONIO MARIAM	Nº DA DES. PROJETISTA:
DATA: 12 / 02 / 2015	SA - PROB4 - 15 - RE - 11 - 084 - 051 - A
RESPONSÁVEL TÉCNICO:	WALLACE HERON MARTINS
CREA: 29123 / D REGIÃO: 15 ART Nº: 000000000000 DATA: 27/06/18	

	DATAS
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MUNICÍPIO: ÁGUA DOCE DO NORTE		DISTRITO: SEDE	BAIRRO: –
NOME DO EMPREENDIMENTO: AMPLIAÇÃO DO SISTEMA DE ABASTECIMENTO DE ÁGUA DE ÁGUA DOCE DO NORTE			
TÍTULO: S.A.A. DE ÁGUA DOCE DO NORTE – ESTAÇÃO DE TRATAMENTO DE ÁGUA			
PROJETO ESTRUTURAL – SUPORTES			
LOCAÇÃO, PLANTA E CORTES – FORMA E ARMAÇÃO			
ESCALA:	FOLHA:	Nº CESAN	REV
INDICADA	26 / 42	B-013-000-40-4-XX-0037	00