

| APQ | POS | BIT | QUANT | COMPRIMENTO | TOTAL |
|-----------|-------|-----|-------|-------------|-------|
| | | | MT | MT | MT |
| S1-S3 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S4-S6 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S7-S9 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S10-S12 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S13-S15 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S16-S18 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S19-S21 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S22-S24 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S25-S27 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S28-S30 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S31-S33 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S34-S36 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S37-S39 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S40-S42 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S43-S45 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S46-S48 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S49-S51 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S52-S54 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S55-S57 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S58-S60 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S61-S63 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S64-S66 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S67-S69 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S70-S72 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S73-S75 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S76-S78 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S79-S81 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S82-S84 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S85-S87 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S88-S90 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S91-S93 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S94-S96 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S97-S99 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S100-S102 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S103-S105 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S106-S108 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S109-S111 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S112-S114 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S115-S117 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S118-S120 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S121-S123 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S124-S126 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S127-S129 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S130-S132 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S133-S135 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S136-S138 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S139-S141 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S142-S144 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S145-S147 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S148-S150 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S151-S153 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S154-S156 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S157-S159 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S160-S162 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S163-S165 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S166-S168 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S169-S171 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S172-S174 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S175-S177 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S178-S180 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S181-S183 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S184-S186 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S187-S189 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S190-S192 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S193-S195 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S196-S198 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S199-S201 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S202-S204 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S205-S207 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S208-S210 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S211-S213 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S214-S216 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S217-S219 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S220-S222 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S223-S225 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S226-S228 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S229-S231 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S232-S234 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S235-S237 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S238-S240 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S241-S243 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S244-S246 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S247-S249 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S250-S252 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S253-S255 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S256-S258 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S259-S261 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S262-S264 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S265-S267 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S268-S270 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S271-S273 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S274-S276 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S277-S279 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S280-S282 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S283-S285 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S286-S288 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S289-S291 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S292-S294 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S295-S297 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S298-S300 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S301-S303 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S304-S306 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S307-S309 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S310-S312 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S313-S315 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S316-S318 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S319-S321 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S322-S324 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S325-S327 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S328-S330 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S331-S333 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S334-S336 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S337-S339 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S340-S342 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S343-S345 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S346-S348 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S349-S351 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S352-S354 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S355-S357 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S358-S360 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S361-S363 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S364-S366 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S367-S369 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S370-S372 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S373-S375 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S376-S378 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S379-S381 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S382-S384 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S385-S387 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S388-S390 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S391-S393 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S394-S396 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S397-S399 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S400-S402 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S403-S405 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S406-S408 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S409-S411 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S412-S414 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S415-S417 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S418-S420 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S421-S423 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S424-S426 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S427-S429 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S430-S432 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S433-S435 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S436-S438 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S439-S441 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S442-S444 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S445-S447 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S448-S450 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S451-S453 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S454-S456 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S457-S459 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S460-S462 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S463-S465 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S466-S468 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S469-S471 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S472-S474 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S475-S477 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S478-S480 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S481-S483 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S484-S486 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S487-S489 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S490-S492 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S493-S495 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S496-S498 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S499-S501 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S502-S504 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S505-S507 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S508-S510 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S511-S513 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S514-S516 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S517-S519 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S520-S522 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S523-S525 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S526-S528 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S529-S531 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S532-S534 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S535-S537 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S538-S540 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S541-S543 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S544-S546 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S547-S549 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S550-S552 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S553-S555 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S556-S558 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S559-S561 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S562-S564 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S565-S567 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S568-S570 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S571-S573 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S574-S576 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S577-S579 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S580-S582 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S583-S585 | S2-S2 | S2 | 10 | 7,8 | 78,0 |
| S586-S588 | S2-S2 | S2 | | | |

| ACO | POS | EXT | QUANT. | CONCRETO | UNIT | TOTAL |
|--|-------|----------------|----------------|----------------|----------------|----------------|
| | | m ² | m ³ | m ³ | m ³ | m ³ |
| S11-S17 | 50x40 | 1 | 10 | 183 | 2008 | 2008 |
| S12-S13 | 50x40 | 1 | 10 | 133 | 1717 | 1717 |
| S16-S22 | 50x40 | 1 | 10 | 86 | 1271 | 1271 |
| S24 | 50x40 | 1 | 10 | 12 | 164 | 164 |
| S25-S44-S45-S46-S47-S48-S49-S50-S51-S52-S53-S54-S55-S56-S57-S58-S59-S60-S61-S62-S63-S64-S65-S66-S67-S68-S69-S70-S71-S72-S73-S74-S75-S76-S77-S78-S79-S80-S81-S82-S83-S84-S85-S86-S87-S88-S89-S90-S91-S92-S93-S94-S95-S96-S97-S98-S99-S100-S101-S102-S103-S104-S105-S106-S107-S108-S109-S110-S111-S112-S113-S114-S115-S116-S117-S118-S119-S120-S121-S122-S123-S124-S125-S126-S127-S128-S129-S130-S131-S132-S133-S134-S135-S136-S137-S138-S139-S140-S141-S142-S143-S144-S145-S146-S147-S148-S149-S150-S151-S152-S153-S154-S155-S156-S157-S158-S159-S160-S161-S162-S163-S164-S165-S166-S167-S168-S169-S170-S171-S172-S173-S174-S175-S176-S177-S178-S179-S180-S181-S182-S183-S184-S185-S186-S187-S188-S189-S190-S191-S192-S193-S194-S195-S196-S197-S198-S199-S200 | 12 | 118 | 14 | 200 | 2424 | 2424 |
| TOTAL | | | | | | |

| RESUMO DE AÇO | | PESO | |
|---------------|----|-------|----------|
| ACO | BT | COMPR | |
| 50A | 10 | 1018 | 838 |
| 50B | 10 | 1018 | 739 |
| 50C | 10 | 1018 | 739 |
| 50D | 10 | 1018 | 739 |
| 50E | 10 | 1018 | 739 |
| 50F | 10 | 1018 | 739 |
| 50G | 10 | 1018 | 739 |
| 50H | 10 | 1018 | 739 |
| 50I | 10 | 1018 | 739 |
| 50J | 10 | 1018 | 739 |
| 50K | 10 | 1018 | 739 |
| 50L | 10 | 1018 | 739 |
| 50M | 10 | 1018 | 739 |
| 50N | 10 | 1018 | 739 |
| 50O | 10 | 1018 | 739 |
| 50P | 10 | 1018 | 739 |
| 50Q | 10 | 1018 | 739 |
| 50R | 10 | 1018 | 739 |
| 50S | 10 | 1018 | 739 |
| 50T | 10 | 1018 | 739 |
| 50U | 10 | 1018 | 739 |
| 50V | 10 | 1018 | 739 |
| 50W | 10 | 1018 | 739 |
| 50X | 10 | 1018 | 739 |
| 50Y | 10 | 1018 | 739 |
| 50Z | 10 | 1018 | 739 |
| TOTAL | | 124 | 1364,89T |

Francisco de Assis Araujo Sousa
Engenheiro Civil
CREA: 52.710-D



CONCRETO
Folha 20 de 20

PROJETO: PREFEITURA MUNICIPAL DE TRAIRI

PROJETO: ESCOLA ESTADUAL - NOVA ESCOLA DE GUAJARU

PROJETO: REFORMA DE FUNDAMENTOS (PARTE B)

DATA: 03/25

EMPRESA: CONSTRUTORA SERRA

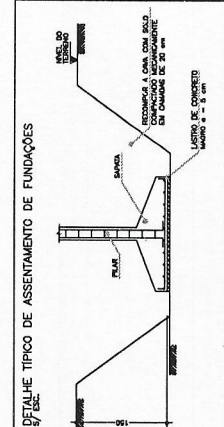
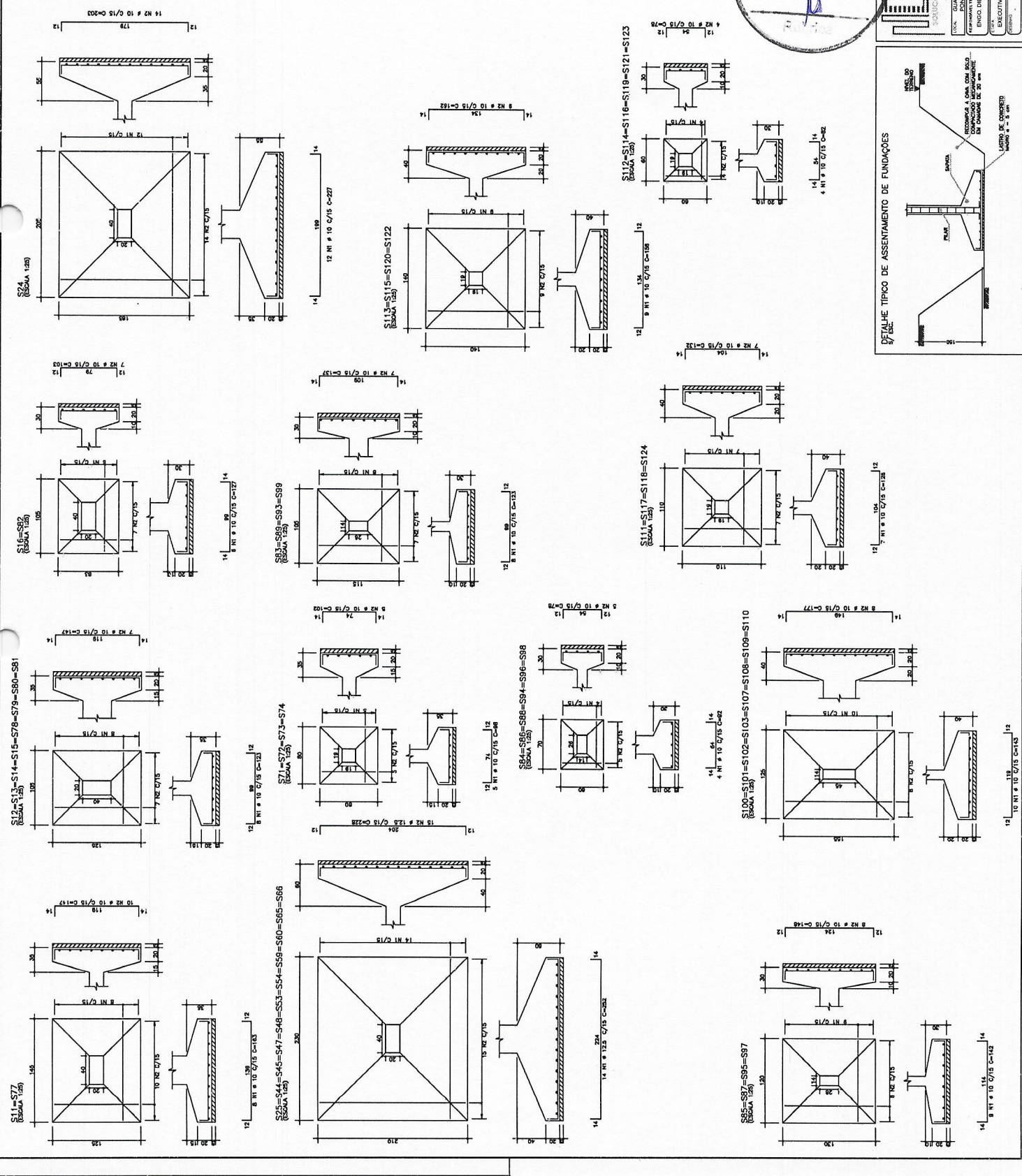
LOCAL: BARRA DO PIRAÍ

PROJETO: ESCOLA ESTADUAL - NOVA ESCOLA DE GUAJARU

PROJETO: REFORMA DE FUNDAMENTOS (PARTE B)

DATA: 03/25

EMPRESA: CONSTRUTORA SERRA



| QTD | POS | BT | QUANT | UNID | TOTAL |
|-------------|-----|-----|-------|------|-------|
| P12=P15=P16 | 50A | 1 | 173 | cm | 6.94 |
| | 50A | 2 | 34 | cm | 3.74 |
| | 50A | 3 | 112 | cm | 4.48 |
| | 50A | 4 | 116 | cm | 4.64 |
| | 50A | 5 | 116 | cm | 4.64 |
| | 50A | 6 | 116 | cm | 4.64 |
| | 50A | 7 | 116 | cm | 4.64 |
| | 50A | 8 | 116 | cm | 4.64 |
| | 50A | 9 | 116 | cm | 4.64 |
| | 50A | 10 | 116 | cm | 4.64 |
| | 50A | 11 | 116 | cm | 4.64 |
| | 50A | 12 | 116 | cm | 4.64 |
| | 50A | 13 | 116 | cm | 4.64 |
| | 50A | 14 | 116 | cm | 4.64 |
| | 50A | 15 | 116 | cm | 4.64 |
| | 50A | 16 | 116 | cm | 4.64 |
| | 50A | 17 | 116 | cm | 4.64 |
| | 50A | 18 | 116 | cm | 4.64 |
| | 50A | 19 | 116 | cm | 4.64 |
| | 50A | 20 | 116 | cm | 4.64 |
| | 50A | 21 | 116 | cm | 4.64 |
| | 50A | 22 | 116 | cm | 4.64 |
| | 50A | 23 | 116 | cm | 4.64 |
| | 50A | 24 | 116 | cm | 4.64 |
| | 50A | 25 | 116 | cm | 4.64 |
| | 50A | 26 | 116 | cm | 4.64 |
| | 50A | 27 | 116 | cm | 4.64 |
| | 50A | 28 | 116 | cm | 4.64 |
| | 50A | 29 | 116 | cm | 4.64 |
| | 50A | 30 | 116 | cm | 4.64 |
| | 50A | 31 | 116 | cm | 4.64 |
| | 50A | 32 | 116 | cm | 4.64 |
| | 50A | 33 | 116 | cm | 4.64 |
| | 50A | 34 | 116 | cm | 4.64 |
| | 50A | 35 | 116 | cm | 4.64 |
| | 50A | 36 | 116 | cm | 4.64 |
| | 50A | 37 | 116 | cm | 4.64 |
| | 50A | 38 | 116 | cm | 4.64 |
| | 50A | 39 | 116 | cm | 4.64 |
| | 50A | 40 | 116 | cm | 4.64 |
| | 50A | 41 | 116 | cm | 4.64 |
| | 50A | 42 | 116 | cm | 4.64 |
| | 50A | 43 | 116 | cm | 4.64 |
| | 50A | 44 | 116 | cm | 4.64 |
| | 50A | 45 | 116 | cm | 4.64 |
| | 50A | 46 | 116 | cm | 4.64 |
| | 50A | 47 | 116 | cm | 4.64 |
| | 50A | 48 | 116 | cm | 4.64 |
| | 50A | 49 | 116 | cm | 4.64 |
| | 50A | 50 | 116 | cm | 4.64 |
| | 50A | 51 | 116 | cm | 4.64 |
| | 50A | 52 | 116 | cm | 4.64 |
| | 50A | 53 | 116 | cm | 4.64 |
| | 50A | 54 | 116 | cm | 4.64 |
| | 50A | 55 | 116 | cm | 4.64 |
| | 50A | 56 | 116 | cm | 4.64 |
| | 50A | 57 | 116 | cm | 4.64 |
| | 50A | 58 | 116 | cm | 4.64 |
| | 50A | 59 | 116 | cm | 4.64 |
| | 50A | 60 | 116 | cm | 4.64 |
| | 50A | 61 | 116 | cm | 4.64 |
| | 50A | 62 | 116 | cm | 4.64 |
| | 50A | 63 | 116 | cm | 4.64 |
| | 50A | 64 | 116 | cm | 4.64 |
| | 50A | 65 | 116 | cm | 4.64 |
| | 50A | 66 | 116 | cm | 4.64 |
| | 50A | 67 | 116 | cm | 4.64 |
| | 50A | 68 | 116 | cm | 4.64 |
| | 50A | 69 | 116 | cm | 4.64 |
| | 50A | 70 | 116 | cm | 4.64 |
| | 50A | 71 | 116 | cm | 4.64 |
| | 50A | 72 | 116 | cm | 4.64 |
| | 50A | 73 | 116 | cm | 4.64 |
| | 50A | 74 | 116 | cm | 4.64 |
| | 50A | 75 | 116 | cm | 4.64 |
| | 50A | 76 | 116 | cm | 4.64 |
| | 50A | 77 | 116 | cm | 4.64 |
| | 50A | 78 | 116 | cm | 4.64 |
| | 50A | 79 | 116 | cm | 4.64 |
| | 50A | 80 | 116 | cm | 4.64 |
| | 50A | 81 | 116 | cm | 4.64 |
| | 50A | 82 | 116 | cm | 4.64 |
| | 50A | 83 | 116 | cm | 4.64 |
| | 50A | 84 | 116 | cm | 4.64 |
| | 50A | 85 | 116 | cm | 4.64 |
| | 50A | 86 | 116 | cm | 4.64 |
| | 50A | 87 | 116 | cm | 4.64 |
| | 50A | 88 | 116 | cm | 4.64 |
| | 50A | 89 | 116 | cm | 4.64 |
| | 50A | 90 | 116 | cm | 4.64 |
| | 50A | 91 | 116 | cm | 4.64 |
| | 50A | 92 | 116 | cm | 4.64 |
| | 50A | 93 | 116 | cm | 4.64 |
| | 50A | 94 | 116 | cm | 4.64 |
| | 50A | 95 | 116 | cm | 4.64 |
| | 50A | 96 | 116 | cm | 4.64 |
| | 50A | 97 | 116 | cm | 4.64 |
| | 50A | 98 | 116 | cm | 4.64 |
| | 50A | 99 | 116 | cm | 4.64 |
| | 50A | 100 | 116 | cm | 4.64 |

| QTD | POS | BT | QUANT | UNID | TOTAL |
|------|-----|-----|-------|------|-------|
| P110 | 50A | 1 | 10 | cm | 0.40 |
| P111 | 50A | 2 | 10 | cm | 0.40 |
| P112 | 50A | 3 | 10 | cm | 0.40 |
| P113 | 50A | 4 | 10 | cm | 0.40 |
| P114 | 50A | 5 | 10 | cm | 0.40 |
| P115 | 50A | 6 | 10 | cm | 0.40 |
| P116 | 50A | 7 | 10 | cm | 0.40 |
| P117 | 50A | 8 | 10 | cm | 0.40 |
| P118 | 50A | 9 | 10 | cm | 0.40 |
| P119 | 50A | 10 | 10 | cm | 0.40 |
| P120 | 50A | 11 | 10 | cm | 0.40 |
| P121 | 50A | 12 | 10 | cm | 0.40 |
| P122 | 50A | 13 | 10 | cm | 0.40 |
| P123 | 50A | 14 | 10 | cm | 0.40 |
| P124 | 50A | 15 | 10 | cm | 0.40 |
| P125 | 50A | 16 | 10 | cm | 0.40 |
| P126 | 50A | 17 | 10 | cm | 0.40 |
| P127 | 50A | 18 | 10 | cm | 0.40 |
| P128 | 50A | 19 | 10 | cm | 0.40 |
| P129 | 50A | 20 | 10 | cm | 0.40 |
| P130 | 50A | 21 | 10 | cm | 0.40 |
| P131 | 50A | 22 | 10 | cm | 0.40 |
| P132 | 50A | 23 | 10 | cm | 0.40 |
| P133 | 50A | 24 | 10 | cm | 0.40 |
| P134 | 50A | 25 | 10 | cm | 0.40 |
| P135 | 50A | 26 | 10 | cm | 0.40 |
| P136 | 50A | 27 | 10 | cm | 0.40 |
| P137 | 50A | 28 | 10 | cm | 0.40 |
| P138 | 50A | 29 | 10 | cm | 0.40 |
| P139 | 50A | 30 | 10 | cm | 0.40 |
| P140 | 50A | 31 | 10 | cm | 0.40 |
| P141 | 50A | 32 | 10 | cm | 0.40 |
| P142 | 50A | 33 | 10 | cm | 0.40 |
| P143 | 50A | 34 | 10 | cm | 0.40 |
| P144 | 50A | 35 | 10 | cm | 0.40 |
| P145 | 50A | 36 | 10 | cm | 0.40 |
| P146 | 50A | 37 | 10 | cm | 0.40 |
| P147 | 50A | 38 | 10 | cm | 0.40 |
| P148 | 50A | 39 | 10 | cm | 0.40 |
| P149 | 50A | 40 | 10 | cm | 0.40 |
| P150 | 50A | 41 | 10 | cm | 0.40 |
| P151 | 50A | 42 | 10 | cm | 0.40 |
| P152 | 50A | 43 | 10 | cm | 0.40 |
| P153 | 50A | 44 | 10 | cm | 0.40 |
| P154 | 50A | 45 | 10 | cm | 0.40 |
| P155 | 50A | 46 | 10 | cm | 0.40 |
| P156 | 50A | 47 | 10 | cm | 0.40 |
| P157 | 50A | 48 | 10 | cm | 0.40 |
| P158 | 50A | 49 | 10 | cm | 0.40 |
| P159 | 50A | 50 | 10 | cm | 0.40 |
| P160 | 50A | 51 | 10 | cm | 0.40 |
| P161 | 50A | 52 | 10 | cm | 0.40 |
| P162 | 50A | 53 | 10 | cm | 0.40 |
| P163 | 50A | 54 | 10 | cm | 0.40 |
| P164 | 50A | 55 | 10 | cm | 0.40 |
| P165 | 50A | 56 | 10 | cm | 0.40 |
| P166 | 50A | 57 | 10 | cm | 0.40 |
| P167 | 50A | 58 | 10 | cm | 0.40 |
| P168 | 50A | 59 | 10 | cm | 0.40 |
| P169 | 50A | 60 | 10 | cm | 0.40 |
| P170 | 50A | 61 | 10 | cm | 0.40 |
| P171 | 50A | 62 | 10 | cm | 0.40 |
| P172 | 50A | 63 | 10 | cm | 0.40 |
| P173 | 50A | 64 | 10 | cm | 0.40 |
| P174 | 50A | 65 | 10 | cm | 0.40 |
| P175 | 50A | 66 | 10 | cm | 0.40 |
| P176 | 50A | 67 | 10 | cm | 0.40 |
| P177 | 50A | 68 | 10 | cm | 0.40 |
| P178 | 50A | 69 | 10 | cm | 0.40 |
| P179 | 50A | 70 | 10 | cm | 0.40 |
| P180 | 50A | 71 | 10 | cm | 0.40 |
| P181 | 50A | 72 | 10 | cm | 0.40 |
| P182 | 50A | 73 | 10 | cm | 0.40 |
| P183 | 50A | 74 | 10 | cm | 0.40 |
| P184 | 50A | 75 | 10 | cm | 0.40 |
| P185 | 50A | 76 | 10 | cm | 0.40 |
| P186 | 50A | 77 | 10 | cm | 0.40 |
| P187 | 50A | 78 | 10 | cm | 0.40 |
| P188 | 50A | 79 | 10 | cm | 0.40 |
| P189 | 50A | 80 | 10 | cm | 0.40 |
| P190 | 50A | 81 | 10 | cm | 0.40 |
| P191 | 50A | 82 | 10 | cm | 0.40 |
| P192 | 50A | 83 | 10 | cm | 0.40 |
| P193 | 50A | 84 | 10 | cm | 0.40 |
| P194 | 50A | 85 | 10 | cm | 0.40 |
| P195 | 50A | 86 | 10 | cm | 0.40 |
| P196 | 50A | 87 | 10 | cm | 0.40 |
| P197 | 50A | 88 | 10 | cm | 0.40 |
| P198 | 50A | 89 | 10 | cm | 0.40 |
| P199 | 50A | 90 | 10 | cm | 0.40 |
| P200 | 50A | 91 | 10 | cm | 0.40 |
| P201 | 50A | 92 | 10 | cm | 0.40 |
| P202 | 50A | 93 | 10 | cm | 0.40 |
| P203 | 50A | 94 | 10 | cm | 0.40 |
| P204 | 50A | 95 | 10 | cm | 0.40 |
| P205 | 50A | 96 | 10 | cm | 0.40 |
| P206 | 50A | 97 | 10 | cm | 0.40 |
| P207 | 50A | 98 | 10 | cm | 0.40 |
| P208 | 50A | 99 | 10 | cm | 0.40 |
| P209 | 50A | 100 | 10 | cm | 0.40 |

COMISSÃO DE LICITAÇÃO

Francisco Frego Araújo Sousa
Engenheiro Civil
CREA/CE: 52.710-D

RESUMO DE QTD

| QTD | POS | BT | QUANT | UNID | TOTAL |
|------|-----|----|-------|------|-------|
| P100 | 50A | 1 | 10 | cm | 0.40 |
| P101 | 50A | 2 | 10 | cm | 0.40 |
| P102 | 50A | 3 | 10 | cm | 0.40 |
| P103 | 50A | 4 | 10 | cm | 0.40 |
| P104 | 50A | 5 | 10 | cm | 0.40 |
| P105 | 50A | 6 | 10 | cm | 0.40 |
| P106 | 50A | 7 | 10 | cm | 0.40 |
| P107 | 50A | 8 | 10 | cm | 0.40 |
| P108 | 50A | 9 | 10 | cm | 0.40 |
| P109 | 50A | 10 | 10 | cm | 0.40 |
| P110 | 50A | 11 | 10 | cm | 0.40 |
| P111 | 50A | 12 | 10 | cm | 0.40 |
| P112 | 5 | | | | |

| APQ | PBS | BIT | QUANT. | CONVERSÃO | UNIT | TOTAL |
|---------|-----|-----|--------|-----------|------|-------|
| | | | | | mm | cm |
| V13 | 60A | 1 | 4 | 1,5 | 60 | 240 |
| | 60B | 2 | 4 | 1,5 | 60 | 240 |
| | 60C | 2 | 4 | 1,5 | 60 | 240 |
| V14 | 60A | 1 | 4 | 1,5 | 60 | 240 |
| | 60B | 2 | 4 | 1,5 | 60 | 240 |
| | 60C | 2 | 4 | 1,5 | 60 | 240 |
| V15 | 60A | 1 | 4 | 1,5 | 60 | 240 |
| | 60B | 2 | 4 | 1,5 | 60 | 240 |
| | 60C | 2 | 4 | 1,5 | 60 | 240 |
| V16 | 60A | 1 | 4 | 1,5 | 60 | 240 |
| | 60B | 2 | 4 | 1,5 | 60 | 240 |
| | 60C | 2 | 4 | 1,5 | 60 | 240 |
| V17=V23 | 60A | 1 | 4 | 1,5 | 60 | 240 |
| | 60B | 2 | 4 | 1,5 | 60 | 240 |
| | 60C | 2 | 4 | 1,5 | 60 | 240 |
| V18=V20 | 60A | 1 | 4 | 1,5 | 60 | 240 |
| | 60B | 2 | 4 | 1,5 | 60 | 240 |
| | 60C | 2 | 4 | 1,5 | 60 | 240 |
| V19 | 60A | 1 | 4 | 1,5 | 60 | 240 |
| | 60B | 2 | 4 | 1,5 | 60 | 240 |
| | 60C | 2 | 4 | 1,5 | 60 | 240 |
| V25 | 60A | 1 | 4 | 1,5 | 60 | 240 |
| | 60B | 2 | 4 | 1,5 | 60 | 240 |
| | 60C | 2 | 4 | 1,5 | 60 | 240 |
| V28 | 60A | 1 | 4 | 1,5 | 60 | 240 |
| | 60B | 2 | 4 | 1,5 | 60 | 240 |
| | 60C | 2 | 4 | 1,5 | 60 | 240 |

| APQ | PBS | BIT | QUANT. | CONVERSÃO | UNIT | TOTAL |
|---------|-----|-----|--------|-----------|------|-------|
| | | | | | mm | cm |
| V13 | 60A | 1 | 4 | 1,5 | 60 | 240 |
| | 60B | 2 | 4 | 1,5 | 60 | 240 |
| | 60C | 2 | 4 | 1,5 | 60 | 240 |
| V14 | 60A | 1 | 4 | 1,5 | 60 | 240 |
| | 60B | 2 | 4 | 1,5 | 60 | 240 |
| | 60C | 2 | 4 | 1,5 | 60 | 240 |
| V15 | 60A | 1 | 4 | 1,5 | 60 | 240 |
| | 60B | 2 | 4 | 1,5 | 60 | 240 |
| | 60C | 2 | 4 | 1,5 | 60 | 240 |
| V16 | 60A | 1 | 4 | 1,5 | 60 | 240 |
| | 60B | 2 | 4 | 1,5 | 60 | 240 |
| | 60C | 2 | 4 | 1,5 | 60 | 240 |
| V17=V23 | 60A | 1 | 4 | 1,5 | 60 | 240 |
| | 60B | 2 | 4 | 1,5 | 60 | 240 |
| | 60C | 2 | 4 | 1,5 | 60 | 240 |
| V18=V20 | 60A | 1 | 4 | 1,5 | 60 | 240 |
| | 60B | 2 | 4 | 1,5 | 60 | 240 |
| | 60C | 2 | 4 | 1,5 | 60 | 240 |
| V19 | 60A | 1 | 4 | 1,5 | 60 | 240 |
| | 60B | 2 | 4 | 1,5 | 60 | 240 |
| | 60C | 2 | 4 | 1,5 | 60 | 240 |
| V25 | 60A | 1 | 4 | 1,5 | 60 | 240 |
| | 60B | 2 | 4 | 1,5 | 60 | 240 |
| | 60C | 2 | 4 | 1,5 | 60 | 240 |
| V28 | 60A | 1 | 4 | 1,5 | 60 | 240 |
| | 60B | 2 | 4 | 1,5 | 60 | 240 |
| | 60C | 2 | 4 | 1,5 | 60 | 240 |

Francisco Diego Araújo Sousa
Engenheiro Civil
CREA/CE: 52.710-D

CONCRETO
Esp. 25, M³

EMPRESA: PREFEITURA MUNICIPAL DE TRAIRI

PROJETO: ESCOLA INFANTIL - NOVA ESCOLA DE GUAJARU

CONTRATO: ANEXOS DE VIGAS (BENEF. PARTE II)

SOLOSCIAS TM

LOCAL: GUARUJÁ - TRAIRES - P. M. DE VIGAS (BENEF. PARTE II)

PREPARADA EM: 02/11/2017

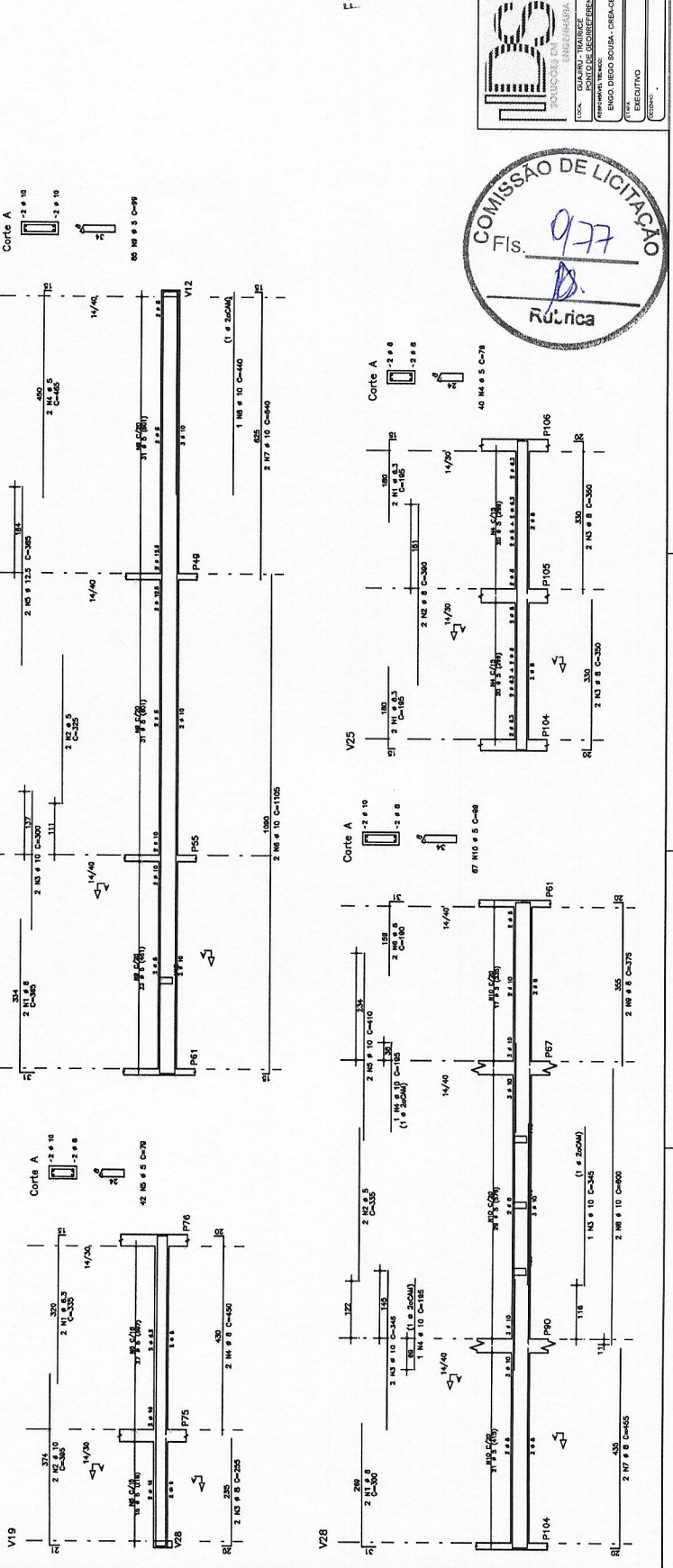
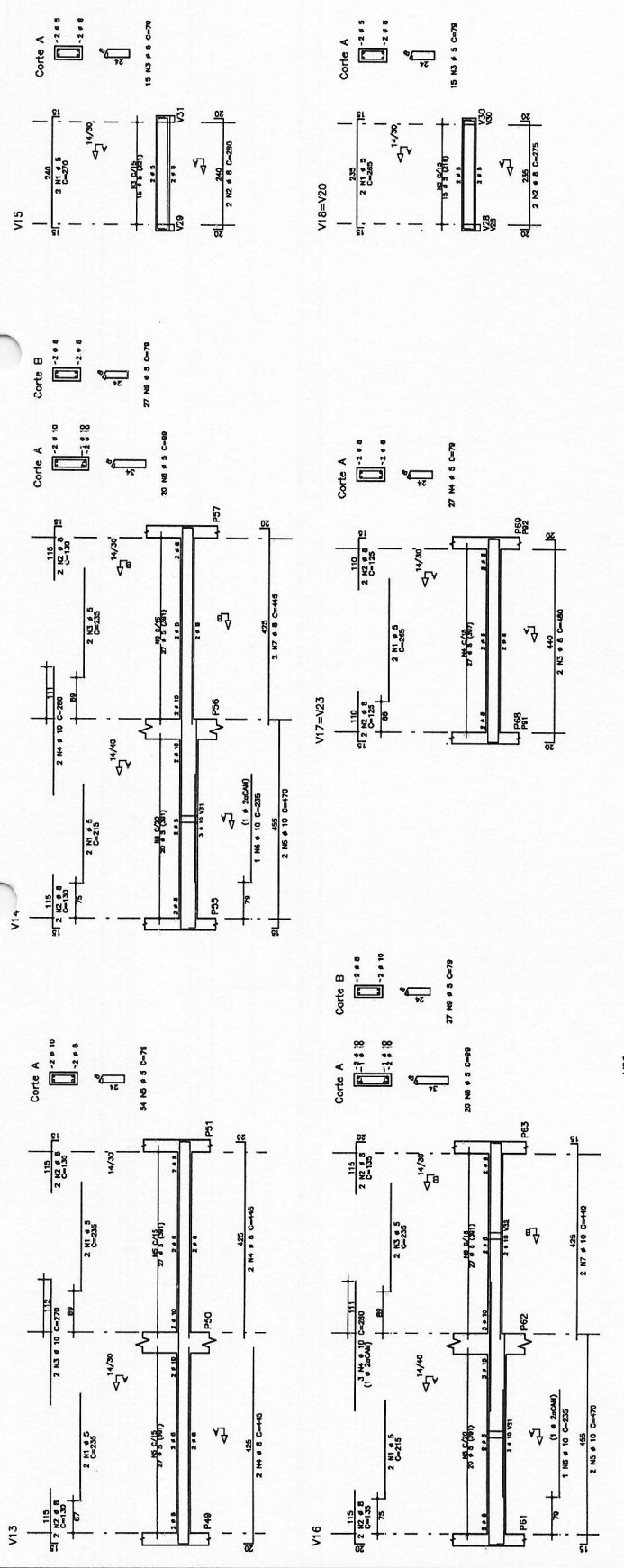
EMPRESA: ENGENHARIA DE PROJETOS E SERVIÇOS DE ENGENHARIA - ENGEPRO

PROJETO: ESCOLA INFANTIL - NOVA ESCOLA DE GUAJARU

DATA: 08/25

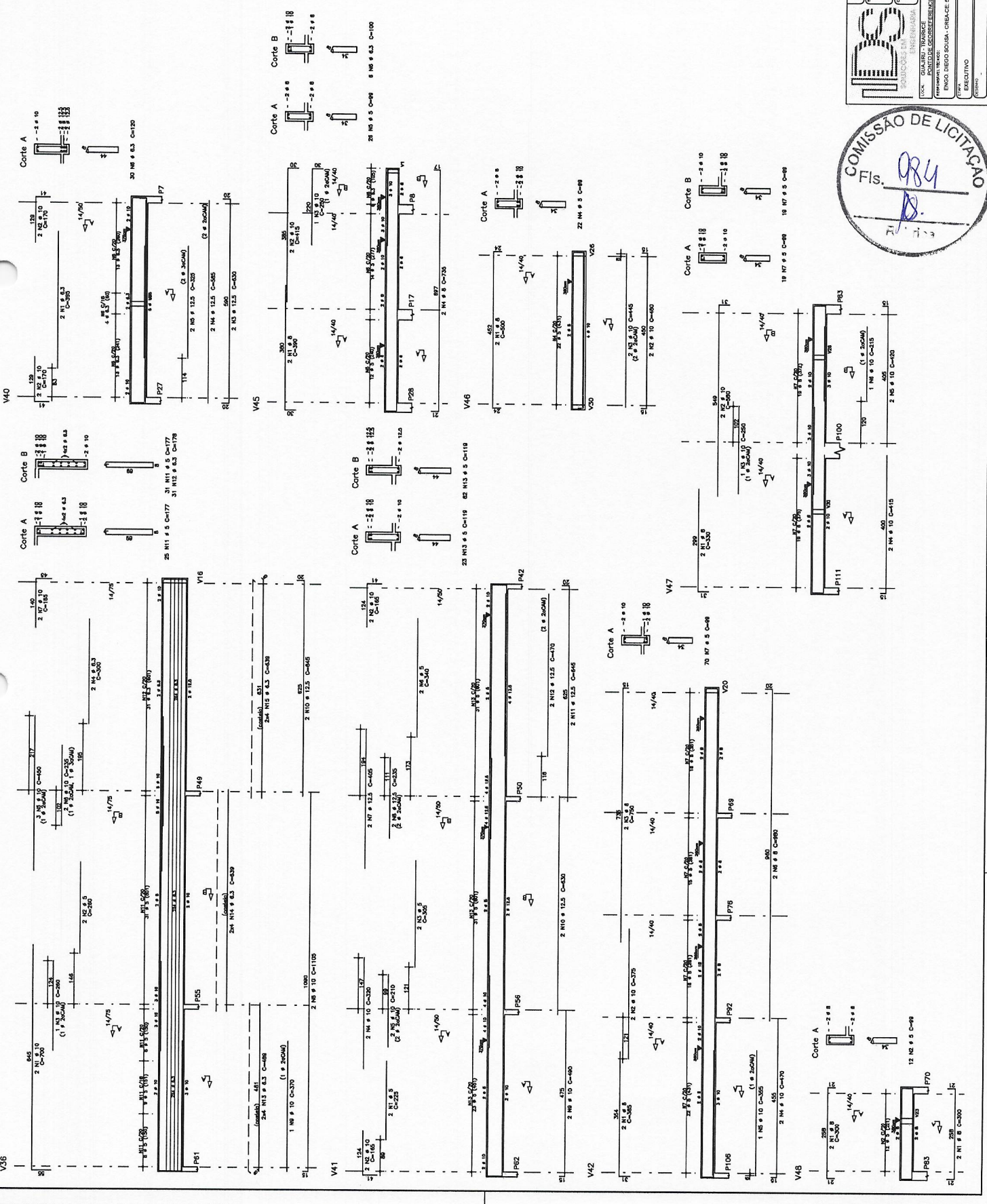
ELABORADO: GEARA

REVISADO: INDICADA



| ACO | BIT | QUANT. | COMPRIMENTO | UNID. | TOTAL |
|-----|-----|--------|-------------|-------|-------|
| | | | cm | | cm |
| V36 | 50A | 10 | 120 | 2 | 2400 |
| | 50A | 2 | 360 | 2 | 720 |
| | 50A | 1 | 1080 | 2 | 2160 |
| | 50A | 2 | 300 | 2 | 600 |
| | 50A | 4 | 108 | 2 | 432 |
| | 50A | 6 | 108 | 2 | 432 |
| | 50A | 10 | 108 | 2 | 432 |
| | 50A | 10 | 108 | 2 | 432 |
| | 50A | 10 | 108 | 2 | 432 |
| | 50A | 10 | 108 | 2 | 432 |
| V40 | 50A | 10 | 120 | 2 | 2400 |
| | 50A | 2 | 360 | 2 | 720 |
| | 50A | 1 | 1080 | 2 | 2160 |
| | 50A | 2 | 300 | 2 | 600 |
| | 50A | 4 | 108 | 2 | 432 |
| | 50A | 6 | 108 | 2 | 432 |
| | 50A | 10 | 108 | 2 | 432 |
| | 50A | 10 | 108 | 2 | 432 |
| | 50A | 10 | 108 | 2 | 432 |
| | 50A | 10 | 108 | 2 | 432 |
| V41 | 50A | 10 | 120 | 2 | 2400 |
| | 50A | 2 | 360 | 2 | 720 |
| | 50A | 1 | 1080 | 2 | 2160 |
| | 50A | 2 | 300 | 2 | 600 |
| | 50A | 4 | 108 | 2 | 432 |
| | 50A | 6 | 108 | 2 | 432 |
| | 50A | 10 | 108 | 2 | 432 |
| | 50A | 10 | 108 | 2 | 432 |
| | 50A | 10 | 108 | 2 | 432 |
| | 50A | 10 | 108 | 2 | 432 |
| V42 | 50A | 10 | 120 | 2 | 2400 |
| | 50A | 2 | 360 | 2 | 720 |
| | 50A | 1 | 1080 | 2 | 2160 |
| | 50A | 2 | 300 | 2 | 600 |
| | 50A | 4 | 108 | 2 | 432 |
| | 50A | 6 | 108 | 2 | 432 |
| | 50A | 10 | 108 | 2 | 432 |
| | 50A | 10 | 108 | 2 | 432 |
| | 50A | 10 | 108 | 2 | 432 |
| | 50A | 10 | 108 | 2 | 432 |
| V43 | 50A | 10 | 120 | 2 | 2400 |
| | 50A | 2 | 360 | 2 | 720 |
| | 50A | 1 | 1080 | 2 | 2160 |
| | 50A | 2 | 300 | 2 | 600 |
| | 50A | 4 | 108 | 2 | 432 |
| | 50A | 6 | 108 | 2 | 432 |
| | 50A | 10 | 108 | 2 | 432 |
| | 50A | 10 | 108 | 2 | 432 |
| | 50A | 10 | 108 | 2 | 432 |
| | 50A | 10 | 108 | 2 | 432 |

| ACO | BIT | QUANT. | COMPRIMENTO | UNID. | TOTAL |
|-----|-----|--------|-------------|-------|-------|
| | | | cm | | cm |
| V36 | 50A | 10 | 120 | 2 | 2400 |
| | 50A | 2 | 360 | 2 | 720 |
| | 50A | 1 | 1080 | 2 | 2160 |
| | 50A | 2 | 300 | 2 | 600 |
| | 50A | 4 | 108 | 2 | 432 |
| | 50A | 6 | 108 | 2 | 432 |
| | 50A | 10 | 108 | 2 | 432 |
| | 50A | 10 | 108 | 2 | 432 |
| | 50A | 10 | 108 | 2 | 432 |
| | 50A | 10 | 108 | 2 | 432 |



Francisco Diego Trajano Souto
Engenheiro Civil
CREA/CE: 52.710-D



CONTRATO
Nº 25/2010

MUNICÍPIO: PREFEITURA MUNICIPAL DE TRAIRI

PROJETO: PROJETO ESTRUTURAL - NOVA ESCOLA DE GUARUJÁ

GOVERNO: ANA HADJIAN DE VIGAS COBERTURA (PARTE IV)

EMPRESA: CONSTRUTORA SERRAVALLE

LOCAL: ESCOLA DE EDUCAÇÃO INFANTIL - RUA JOSÉ GOMES DE OLIVEIRA, 47303-000, 64412-001, TRAIRI, RN

DATA: 10/11/2010

PROFESSOR: ENGENHEIRO CIVIL

ENGENHEIRO: ENGO. DIEGO SOUSA - CREA/CE 52.710-D

PROFESSOR: ENGENHEIRO CIVIL

ENGENHEIRO: ENGO. DIEGO SOUSA - CREA/CE 52.710-D

PROFESSOR: ENGENHEIRO CIVIL

ENGENHEIRO: ENGO. DIEGO SOUSA - CREA/CE 52.710-D

PROFESSOR: ENGENHEIRO CIVIL

ENGENHEIRO: ENGO. DIEGO SOUSA - CREA/CE 52.710-D

15/25

| ANO | POS | BIT | QUANT | COMPRIMENTO | UNIT | TOTAL |
|-----------------------|-----|-----|-------|-------------|------|-------|
| Cobertura - Armadores | 1 | 22 | 770 | 3700 | m | 2861 |
| | 2 | 22 | 770 | 3700 | m | 2861 |
| | 3 | 22 | 770 | 3700 | m | 2861 |
| | 4 | 22 | 770 | 3700 | m | 2861 |
| | 5 | 22 | 770 | 3700 | m | 2861 |
| SOA | 1 | 22 | 770 | 3700 | m | 2861 |
| SOA | 2 | 22 | 770 | 3700 | m | 2861 |
| SOA | 3 | 22 | 770 | 3700 | m | 2861 |
| SOA | 4 | 22 | 770 | 3700 | m | 2861 |
| SOA | 5 | 22 | 770 | 3700 | m | 2861 |
| SOA | 6 | 22 | 770 | 3700 | m | 2861 |
| SOA | 7 | 22 | 770 | 3700 | m | 2861 |

| RESUMO DE AÇO | | PESO | |
|---------------|-----|---------|-----|
| ANO | BIT | COMPR | KG |
| SOA | 1 | 22 | 770 |
| SOA | 2 | 22 | 770 |
| SOA | 3 | 22 | 770 |
| SOA | 4 | 22 | 770 |
| SOA | 5 | 22 | 770 |
| SOA | 6 | 22 | 770 |
| SOA | 7 | 22 | 770 |
| SOA = 008 | | 375,507 | |

Francisco Diego Araújo Sousa
Engenheiro Civil
CREA/CE: 52.710-D

| | |
|--|--|
| CONTRATO 0202/2021 | |
| EMPRESA: PREFEITURA MUNICIPAL DE TUAIRI | PROJETO: PROJETO ESTRUTURAL - NOVA ESCOLA DE GUAJARU |
| EMPRESA: SOLUÇÕES EM ENGENHARIA | PROJETO: AMPLIAÇÃO DE LAJES COBERTURAS (PARTE II) |
| LOCAL: MUNICÍPIO DE TUAIRI - RUA DE ENGENHEIRO FRANCISCO DE ASSIS, S/Nº, BRASÃO, TUAIRI - RS | DATA: 10/04/2021 |
| EMPRESA: ENCO DIEGO SOUSA - CREA/CE 52.710-D | PROJETO: PROJETO ESTRUTURAL - NOVA ESCOLA DE GUAJARU |
| EMPRESA: ENCO DIEGO SOUSA - CREA/CE 52.710-D | PROJETO: PROJETO ESTRUTURAL - NOVA ESCOLA DE GUAJARU |
| EMPRESA: ENCO DIEGO SOUSA - CREA/CE 52.710-D | PROJETO: PROJETO ESTRUTURAL - NOVA ESCOLA DE GUAJARU |
| EMPRESA: ENCO DIEGO SOUSA - CREA/CE 52.710-D | PROJETO: PROJETO ESTRUTURAL - NOVA ESCOLA DE GUAJARU |
| EMPRESA: ENCO DIEGO SOUSA - CREA/CE 52.710-D | PROJETO: PROJETO ESTRUTURAL - NOVA ESCOLA DE GUAJARU |



20/25

