

**PREFEITURA MUNICIPAL DE IRAUÇUBA / CE.**

**RECUPERAÇÃO E ADEQUAÇÃO DA ESTRADA QUE LIGA A CE 173 NO DISTRITO DE JUÁ/ IRAUÇUBA-CE A COMUNIDADE DE MARACANÁ/IRAUÇUBA-CE**

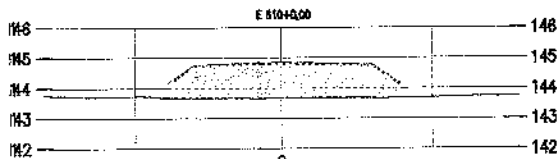
**SEÇÕES TRANSVERSAIS**

PROJETISTA:	CLAUDIO JOSÉ QUEIROZ BARROS - ENG. CIVIL - CREA 13.419/D/CE.
ARQUIVO:	4 - PROJETO TERRAPLANAGEM_TRECHO 01_PARTE 01_R1.DWG

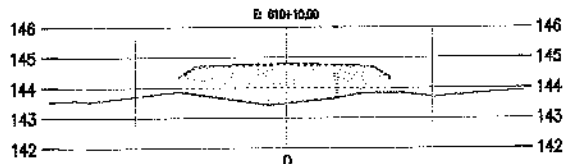
PRANCHA:  
**21/30**

ESCALA:  
**1/250**

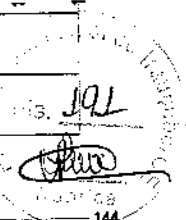
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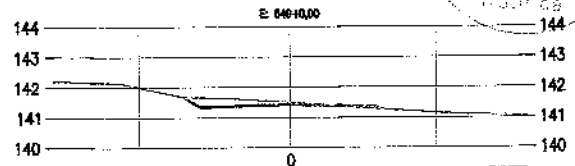
COTAS TN	143.76	143.70	143.73	143.67	143.66	143.65	143.66	143.66	143.65	143.68	143.70	143.74
PROJ.				144.16	144.77	144.63	144.77	144.77	144.15			
VERM.				0.50	1.11	1.17	1.11	1.11	0.50			



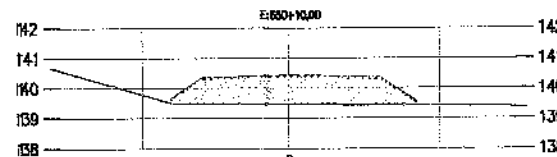
COTAS TN	143.63	143.59	143.79	143.61	143.62	143.46	143.69	143.81	143.70	143.77	143.91
PROJ.				144.33	144.72	144.78	144.72	144.31			
VERM.				0.49	1.10	1.32	1.03	0.49			



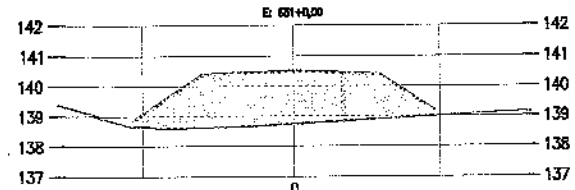
COTAS TN	144.87	144.91	144.88	144.88	144.84	144.86	144.88	144.86	144.86	144.86	144.85
PROJ.				144.85	144.74	144.80	144.74	144.87			
VERM.				0.00	-0.10	-0.06	-0.14	0.00			



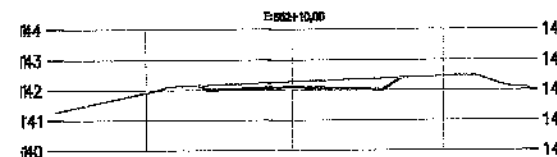
COTAS TN	142.20	142.15	141.89	141.77	141.62	141.48	141.34	141.21	141.14	141.08	141.03
PROJ.				141.56	141.36	141.42	141.36	141.27			
VERM.				0.00	-0.25	-0.06	0.02	-0.00			



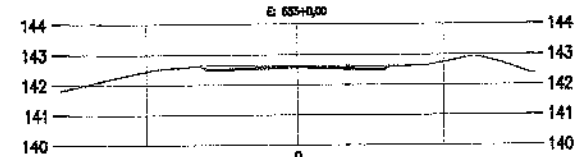
COTAS TN	140.67	140.07	139.76	139.48	139.47	139.45	139.41	139.42	139.41	139.39	139.37
PROJ.				139.66	140.35	140.41	140.33	139.59			
VERM.				0.16	0.89	0.96	0.94	0.21			



COTAS TN	139.39	138.81	138.64	138.66	138.63	138.72	138.63	138.94	139.00	139.05	139.14
PROJ.				139.72	140.42	140.48	140.42	139.72	139.20		
VERM.				1.14	1.79	1.75	1.58	0.78	0.21		



COTAS TN	141.27	141.69	141.80	142.12	142.19	142.27	142.34	142.41	142.44	142.46	142.07
PROJ.				142.15	142.02	142.08	142.02	142.39			
VERM.				0.00	-0.17	-0.16	-0.31	-0.00			



COTAS TN	141.81	142.23	142.44	142.55	142.63	142.62	142.61	142.62	142.74	142.94	142.37
PROJ.				142.61	142.52	142.58	142.52	142.61			
VERM.				0.00	-0.11	-0.04	-0.09	0.00			



**PREFEITURA MUNICIPAL DE IRAUÇUBA / CE.**

RECUPERAÇÃO E ADEQUAÇÃO DA ESTRADA QUE LIGA A CE 173 NO DISTRITO DE JUÁ / IRAUÇUBA-CE  
A COMUNIDADE DE MARACANÁ / IRAUÇUBA-CE

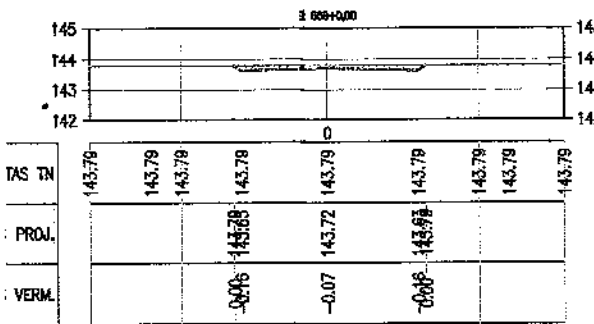
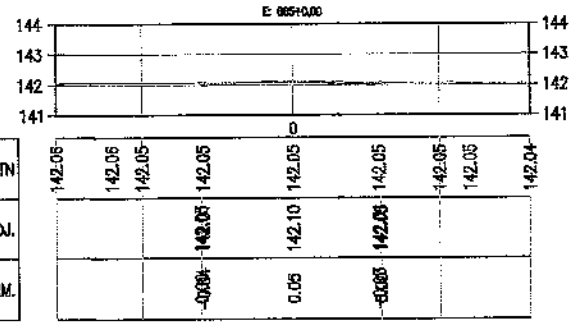
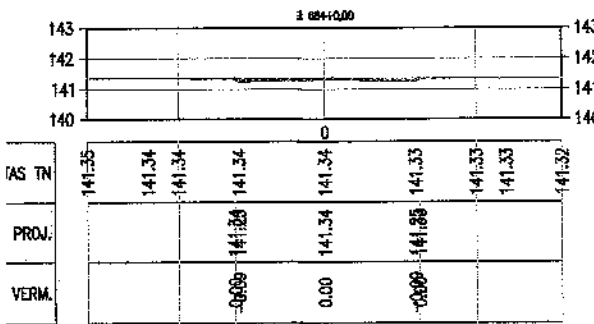
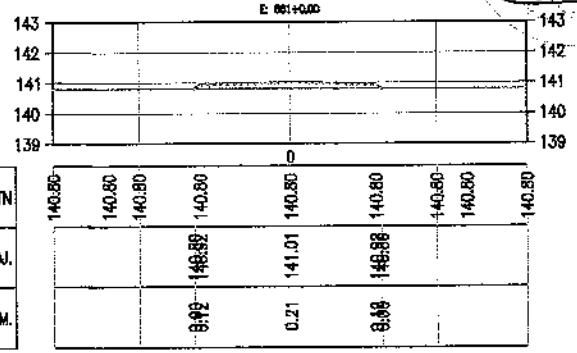
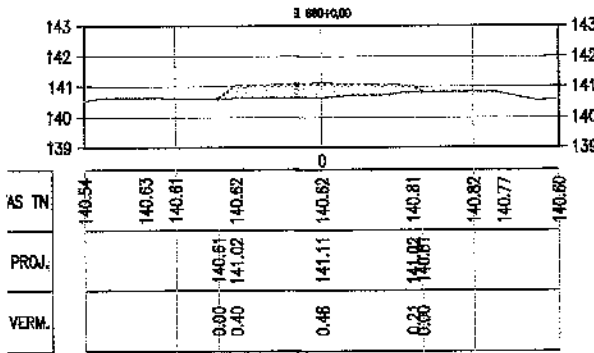
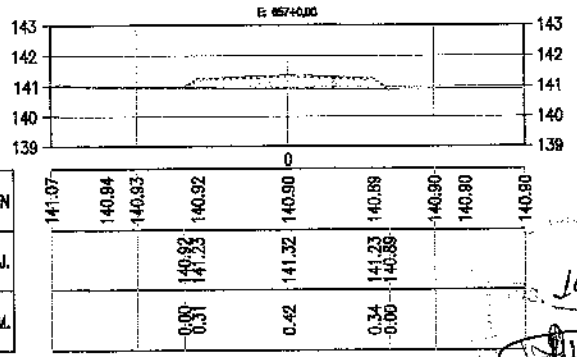
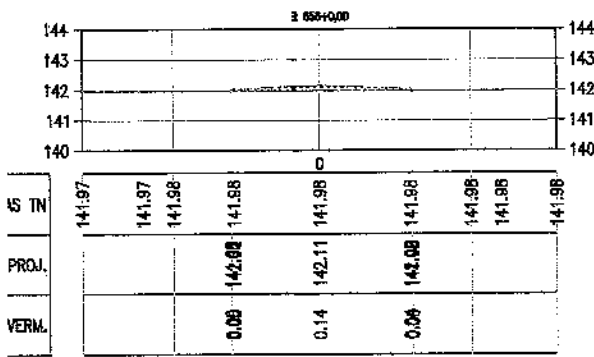
**SEÇÕES TRANSVERSAIS**

PROJETISTA: CLAUDIO JOSÉ QUEIROZ BARROS - ENG.º CIVIL - CREA 13.419/D/CE.

ARQUIVO: 4 - PROJETO TERMOPLANAGEM\_TRECHO 01\_PARTE 01\_R1.DWG

PRANCHA:  
**22 / 30**

ESCALA:  
**1/250**



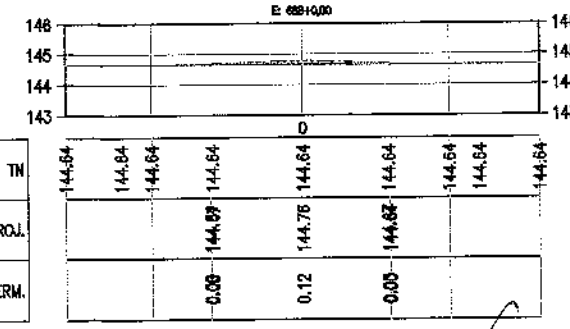
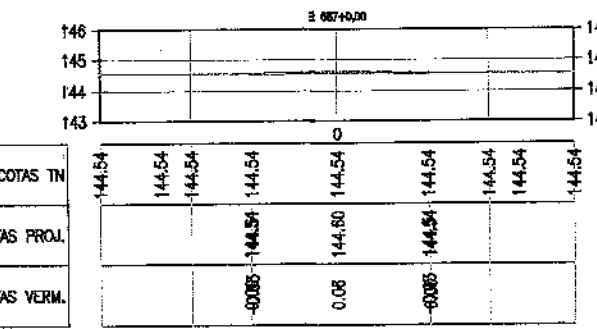
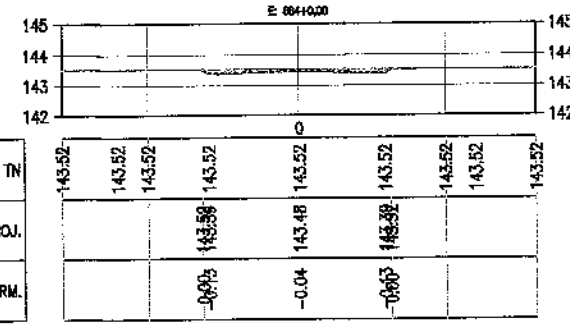
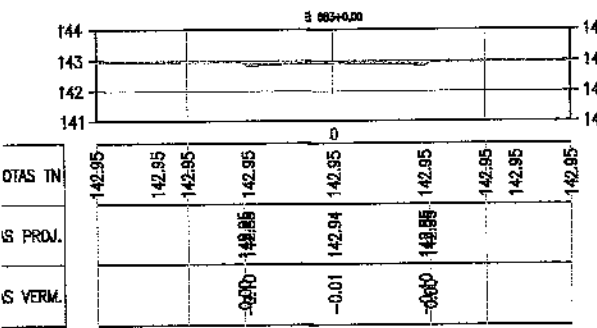
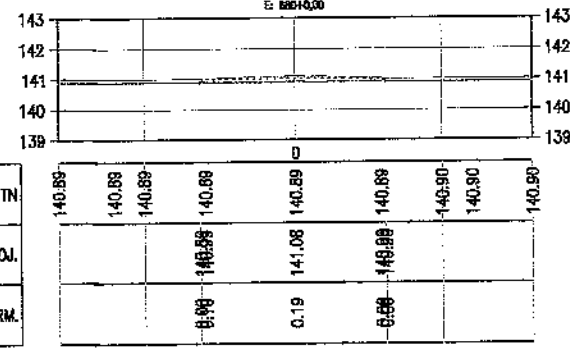
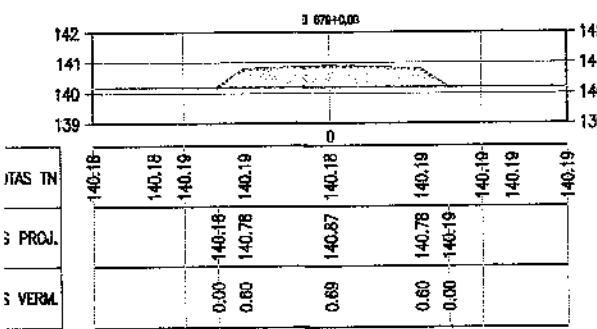
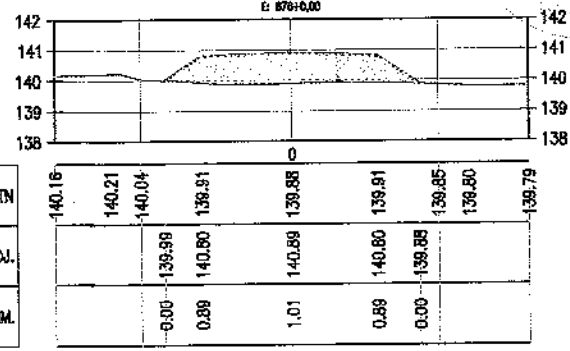
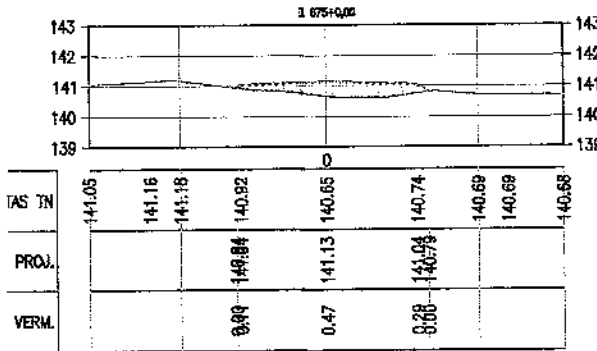
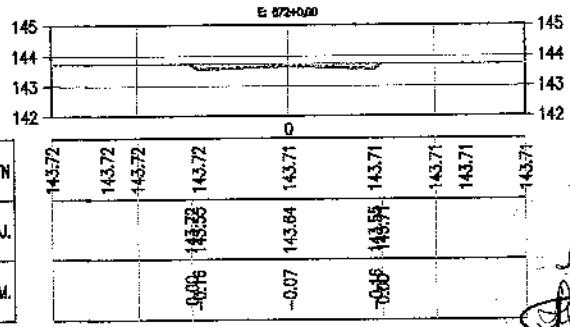
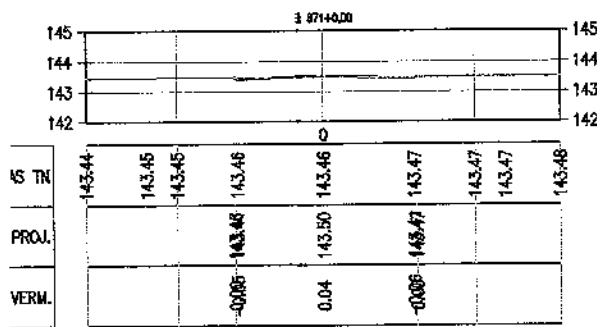
192



**PREFEITURA MUNICIPAL DE IRAUÇUBA / CE**  
 RECUPERAÇÃO E ADEQUAÇÃO DA ESTRADA QUE LIGA ACE 173 NO DISTRITO DE JIÁ/ IRAUÇUBA-CE  
 A COMUNIDADE DE MARACANÁ/IRAUÇUBA CE  
 TRECHO 01: CE 173 A LOC. DE JUA.  
**SEÇÕES TRANSVERSAIS**

PROJETISTA: CLAUDIO JOSÉ QUEIROZ BARROS - ENG° CIVIL - CREA 13.419D/CE  
 ARQUIVO: 4 - PROJETO TERAPLANAGEM\_ TRECHO 01\_PARTE 02\_R0.DWG

PRANCHA:  
**23 / 30**  
 ESCALA:  
**1/250**



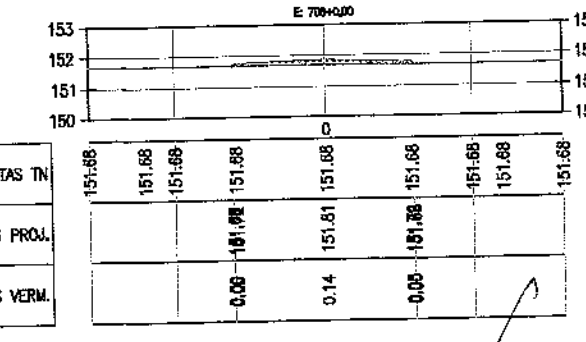
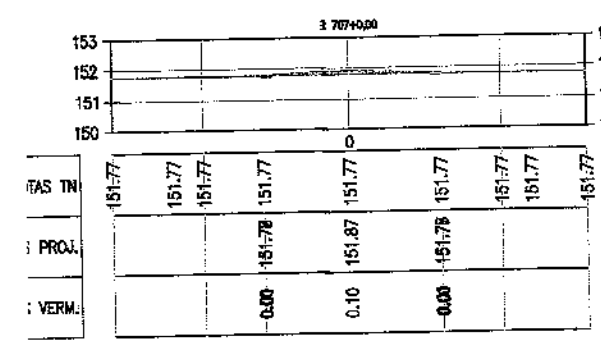
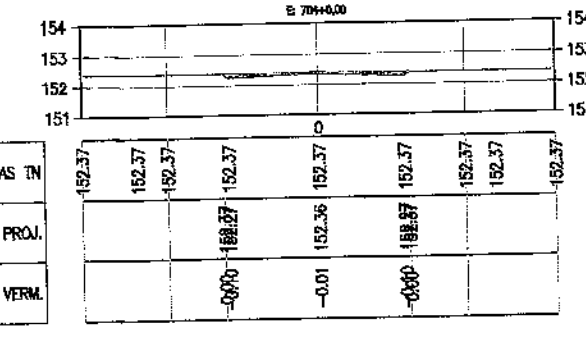
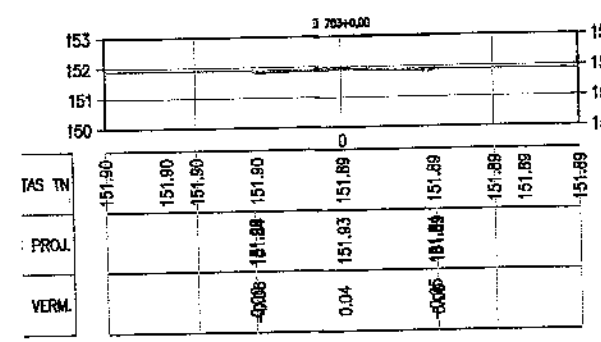
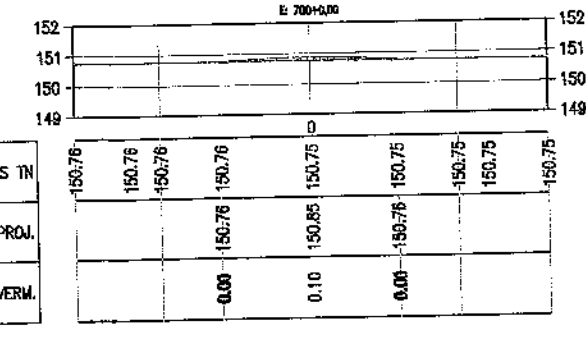
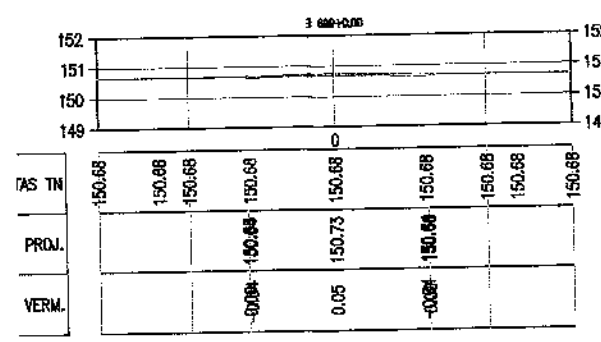
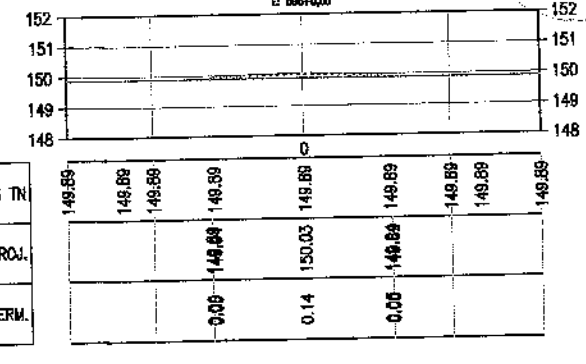
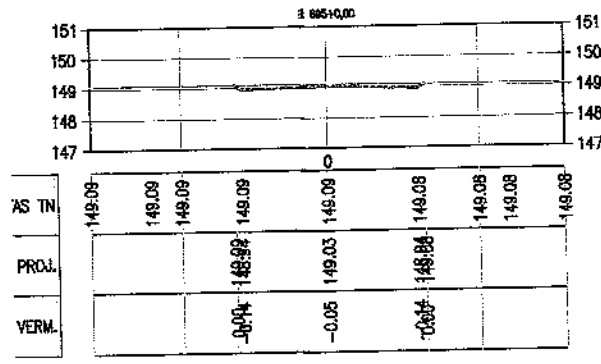
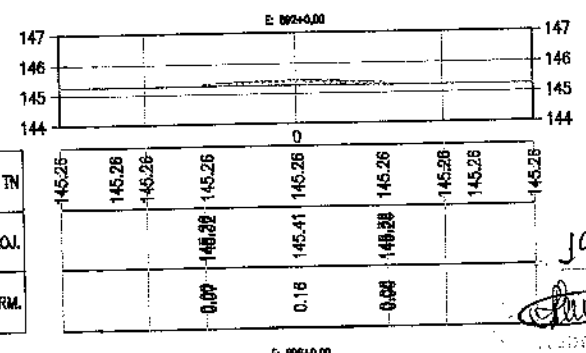
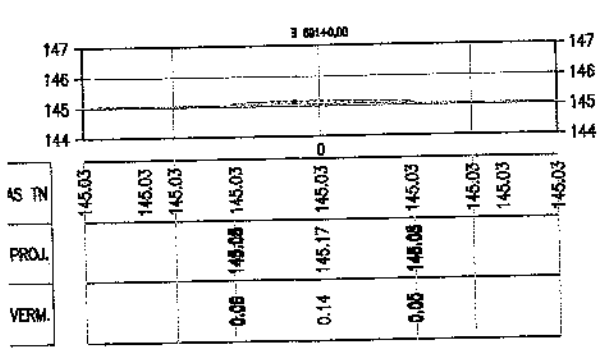
193



**PREFEITURA MUNICIPAL DE IRAUÇUBA / CE**  
 RECUPERAÇÃO E ADEQUAÇÃO DA ESTRADA QUE LIGA ACE 173 NO DISTRITO DE JUIÁ / IRAUÇUBA-CE  
 A COMUNIDADE DE MARACANÁ / IRAUÇUBA CE  
 TRECHO 01: CE 173 A LOC. DE JUA.  
**SEÇÕES TRANSVERSAIS**

PROJETISTA: CLAUDIO JOSÉ QUEIROZ BARROS - ENGº CIVIL - CREA 13.419/D/CE  
 ARQUIVO: 4 - PROJETO TERREAPLANAGEM\_ TRECHO 01\_PARTE 02\_RO.DWG

PRANCHA:  
**24 / 30**  
 ESCALA:  
**1/250**



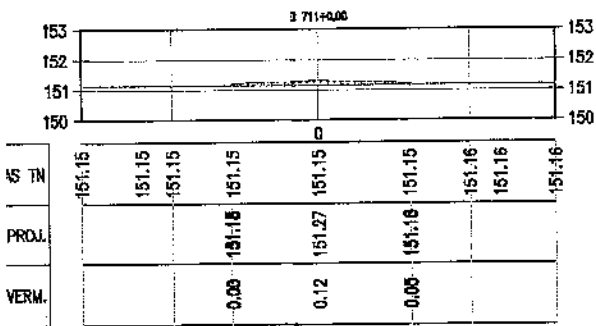
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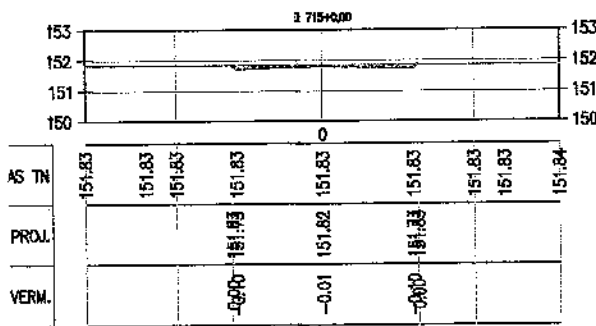
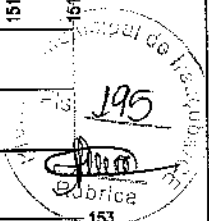
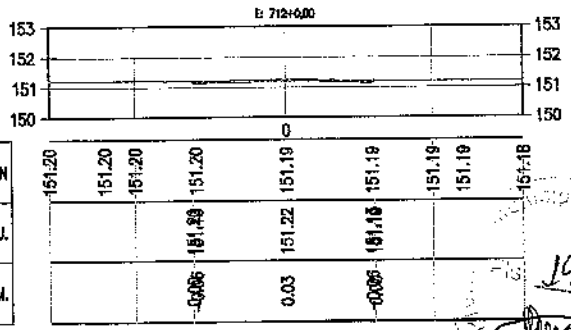
**PREFEITURA MUNICIPAL DE IRAUÇUBA / CE**  
**RECUPERAÇÃO E ADEQUAÇÃO DA ESTRADA QUE LIGA ACE 173 NO DISTRITO DE JIÁ / IRAUÇUBA-CE**  
**A COMUNIDADE DE MARACANÁ / IRAUÇUBA-CE**  
**TRECHO 01: CE 173 A LOC. DE JUA.**  
**SEÇÕES TRANSVERSAIS**

PROJETISTA: CLAUDIO JOSÉ QUEIROZ BARROS - ENGº CIVIL - CREA 13.419/D/CE  
 ARQUIVO: 4 - PROJETO TERRAPLANAGEM\_ TRECHO 01\_PARTIE 02\_R0.DWG

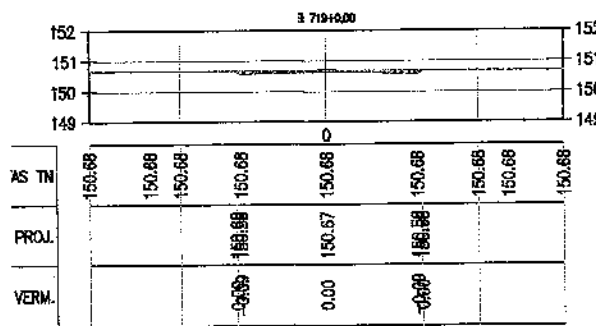
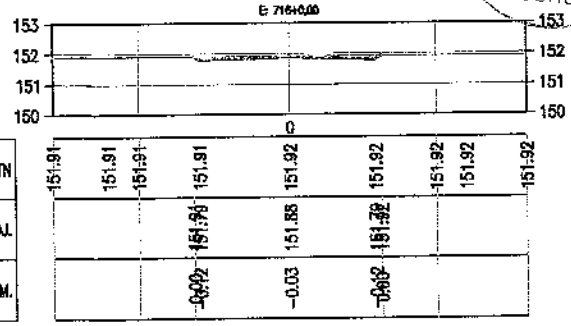
PRANCHA:  
**25 / 30**  
 ESCALA:  
**1/250**



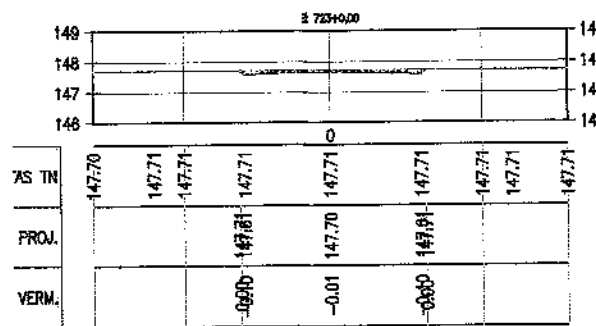
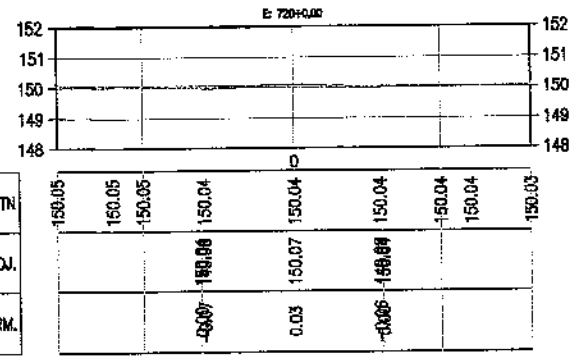
COTAS TN	
COTAS PROJ.	
COTAS VERM.	



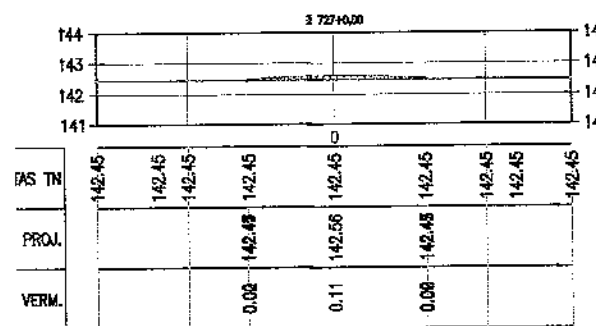
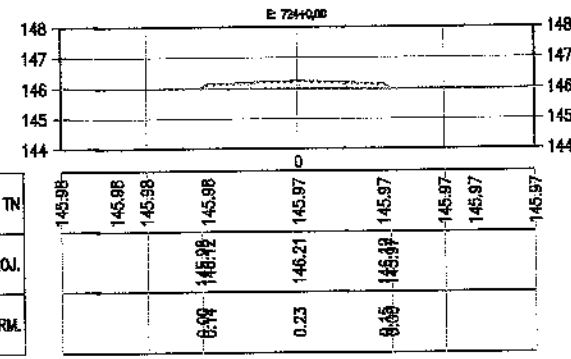
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COTAS PROJ.	
COTAS VERM.	



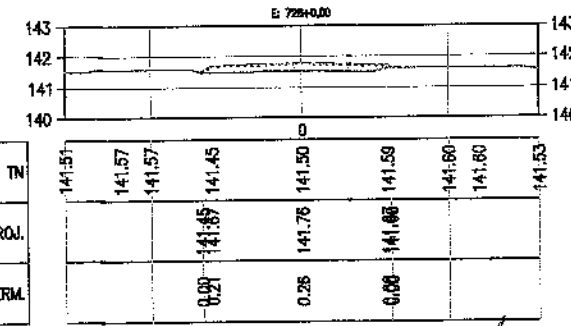
COTAS TN	
COTAS PROJ.	
COTAS VERM.	



COTAS TN	
COTAS PROJ.	
COTAS VERM.	



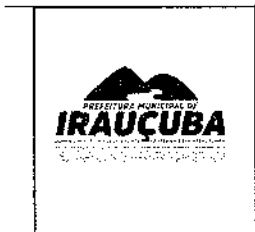
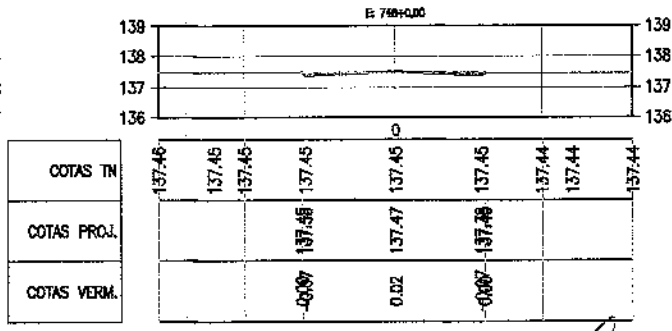
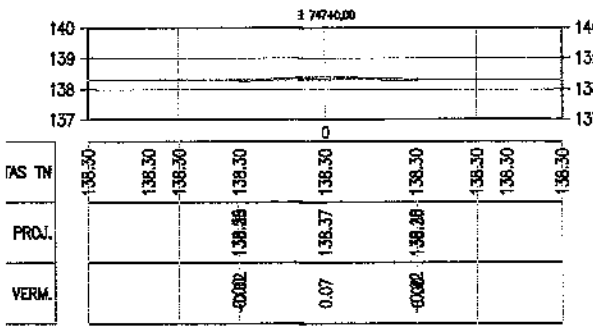
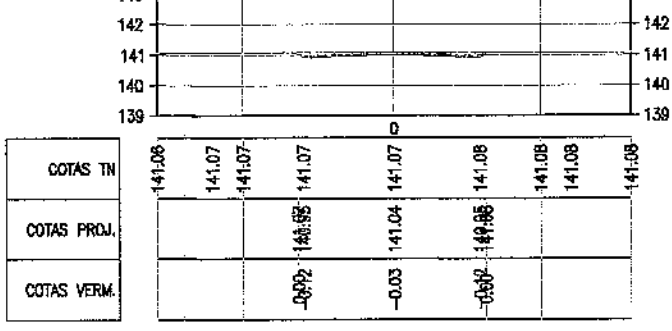
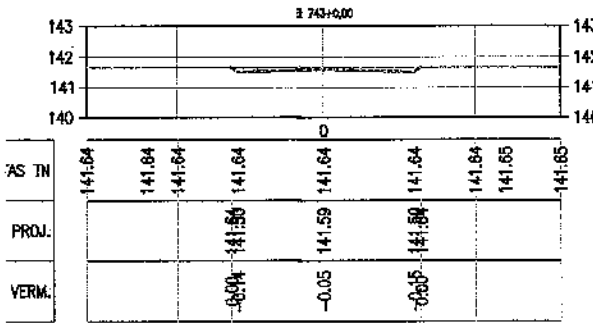
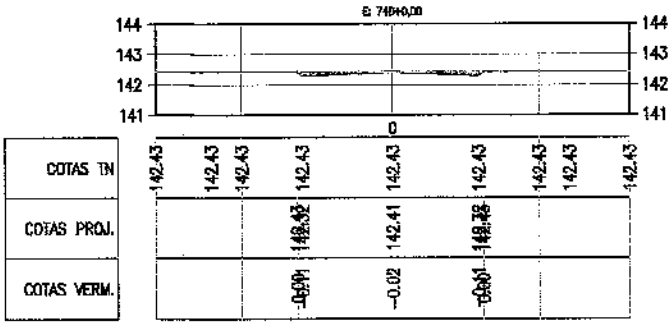
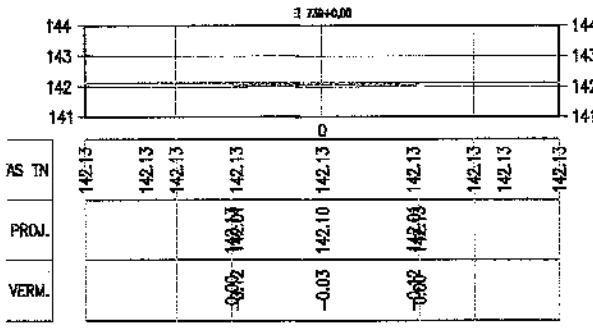
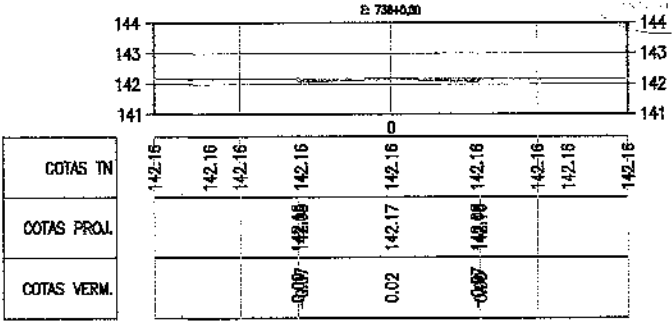
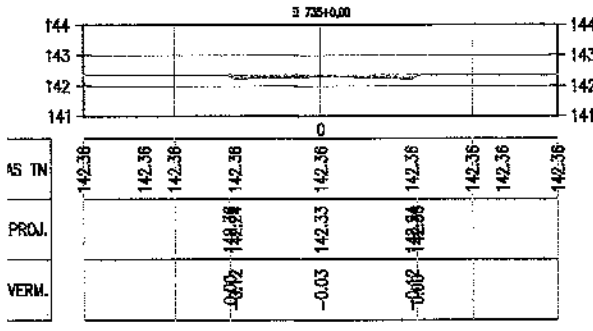
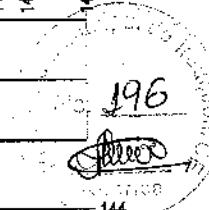
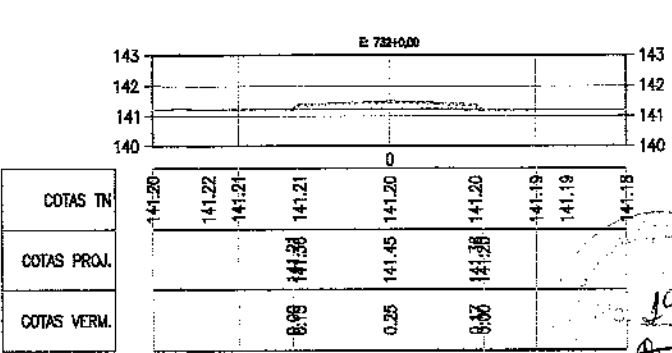
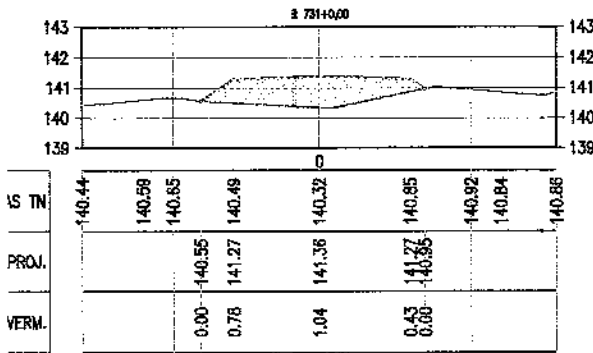
COTAS TN	
COTAS PROJ.	
COTAS VERM.	



**PREFEITURA MUNICIPAL DE IRAUÇUBA / CE**  
**RECUPERAÇÃO E ADEQUAÇÃO DA ESTRADA QUE LIGA ACE 173 NO DISTRITO DE JIÁ, IRAUÇUBA-CE**  
**A COMUNIDADE DE MARACANÁ/IRAUÇUBA CE**  
**TRECHO 01; CE 173 A LOC. DE JUA.**  
**SEÇÕES TRANSVERSAIS**

PROJETISTA: CLAUDIO JOSÉ QUEIROZ BARROS - ENG.º CIVIL - CREA 13.419D/CE  
 ARQUIVO: 4 - PROJETO TER&APLANAGEM\_ TRECHO 01\_PARTE 02\_R0.DWG

PRANCHA:  
**26 / 30**  
 ESCALA:  
**1/250**



**PREFEITURA MUNICIPAL DE IRAUÇUBA / CE**

RECUPERAÇÃO E ADEQUAÇÃO DA ESTRADA QUE LIGA ACE 173 NO DISTRITO DE JIÁ / IRAUÇUBA-CE  
A COMUNIDADE DE MARACANÁ/IRAUÇUBA CE  
TRECHO 01: CE 173 A LOC. DE JUA.

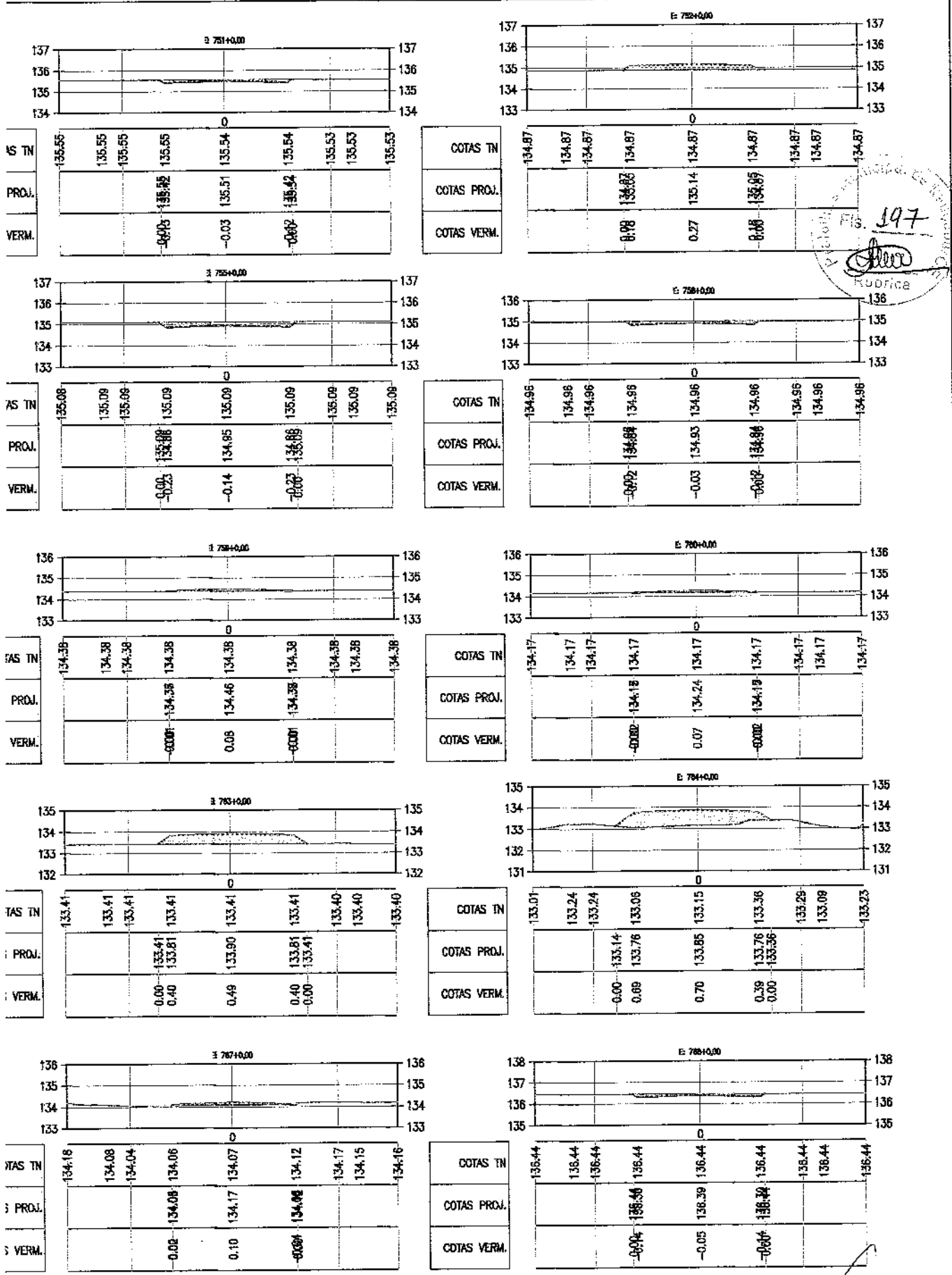
**SEÇÕES TRANSVERSAIS**

PROJETISTA: CLAUDIO JOSÉ QUEIROZ BARROS - ENGº CIVIL - CREA 13.419/D/CE

ARQUIVO: 4 - PROJETO TERMAPLANAGEM\_ TRECHO 01\_PARTE 02\_R0.DWG

PRANCHA:  
**27 / 30**

ESCALA:  
**1/250**

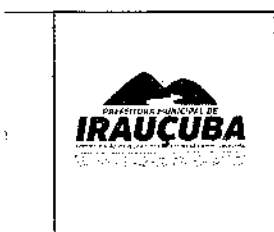
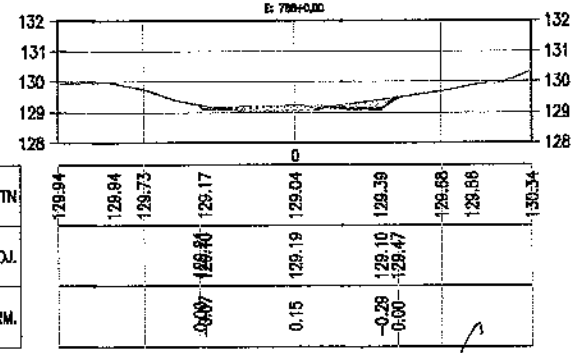
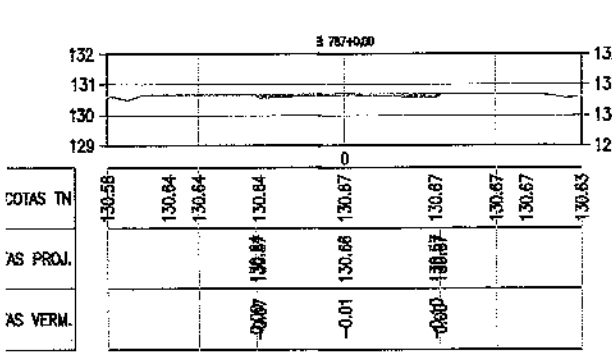
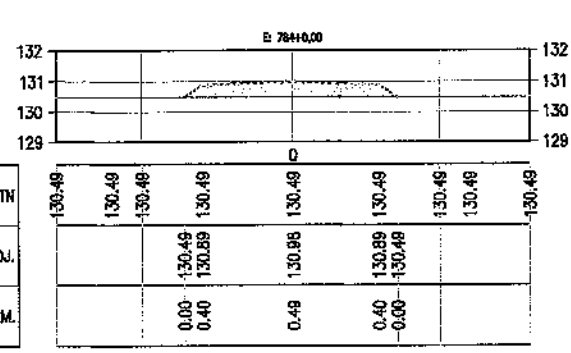
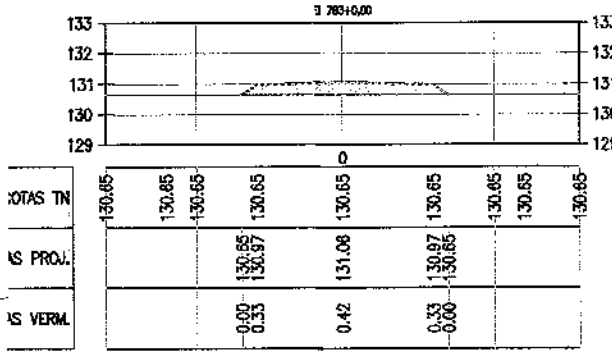
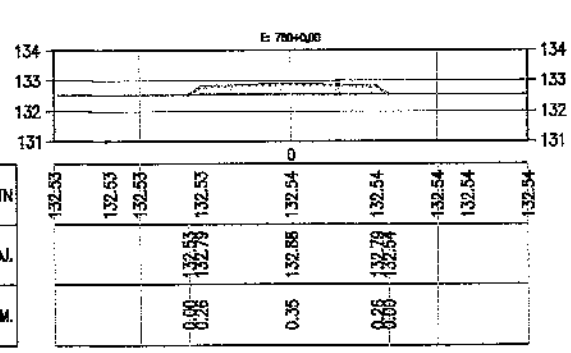
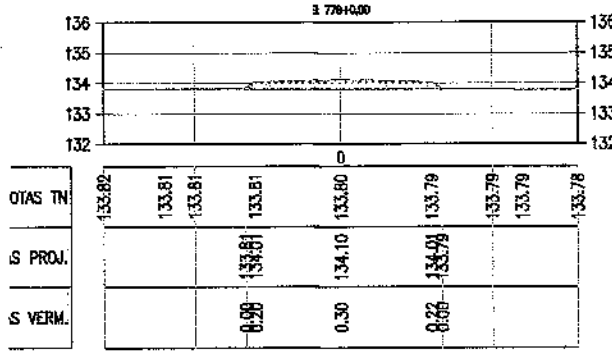
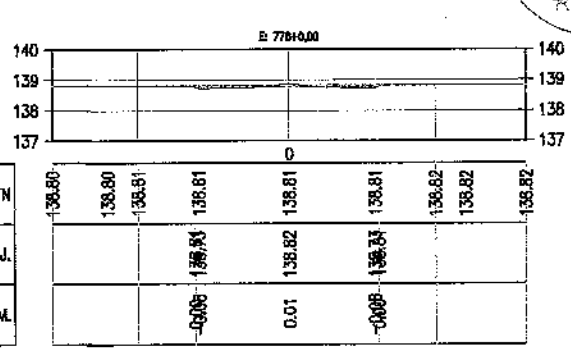
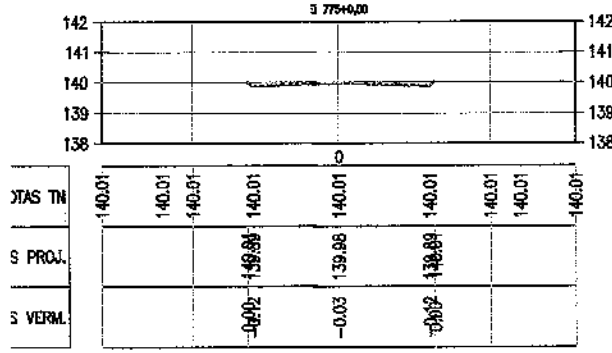
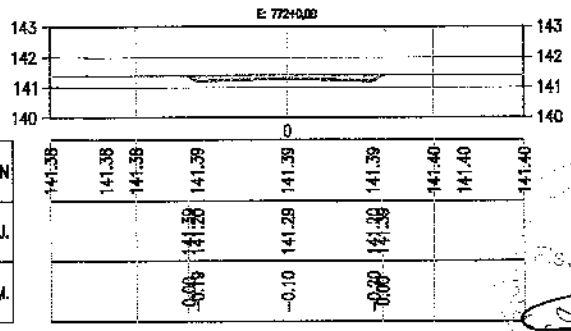
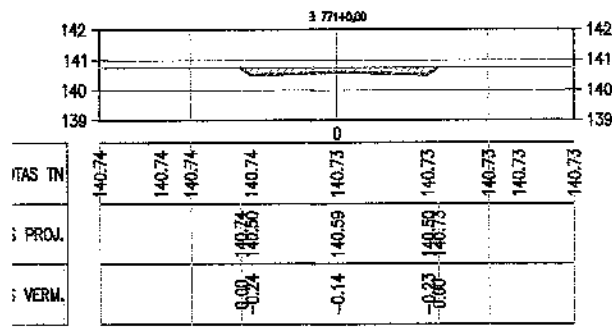


**PREFEITURA MUNICIPAL DE IRAUÇUBA / CE**  
**RECUPERAÇÃO E ADEQUAÇÃO DA ESTRADA QUE LIGA ACE 173 NO DISTRITO DE JIÁ/ IRAUÇUBA-CE**  
**A COMUNIDADE DE MARACANÁ/IRAUÇUBA CE**  
**TRECHO 01: CE 173 A LOC. DE JUA.**  
**SEÇÕES TRANSVERSAIS**

PROJETISTA: CLAUDIO JOSÉ QUEIROZ BARROS - ENGº CIVIL - CREA 13.419/D/CE  
 ARQUIVO: 4 - PROJETO TERAPLANAGEM\_ TRECHO 01\_PARTE 02\_R0.DWG

PRANCHA:  
**28 / 30**  
 ESCALA:  
**1/250**



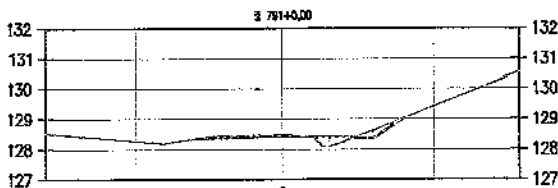


**PREFEITURA MUNICIPAL DE IRAUÇUBA / CE**  
**RECUPERAÇÃO E ADEQUAÇÃO DA ESTRADA QUE LIGA ACE 173 NO DISTRITO DE JIJÁ, IRAUÇUBA-CE**  
**A COMUNIDADE DE MARACANÁ, IRAUÇUBA CE**  
**TRECHO 01: CE 173 A LOC. DE JUA.**  
**SEÇÕES TRANSVERSAIS**

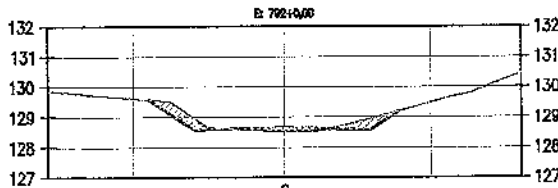
PROJETISTA: CLAUDIO JOSÉ QUEIROZ BARRROS - ENG. CIVIL - CREA 13.419/D/CE  
ARQUIVO: 4 - PROJETO TERAPIANAGEM\_TRECHO 01\_PARTE 02\_R0.DWG

PRANCHA:  
**29 / 30**  
ESCALA:  
**1/250**

198  
*[Handwritten Signature]*  
Rubrica

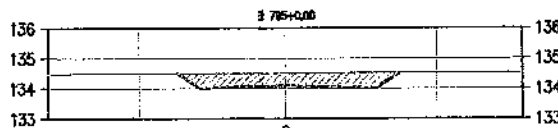


COTAS TN	128.52	128.35	128.26	128.35	128.44	128.62	129.40	129.79	130.58
COTAS PROJ.				128.35	128.43	128.34	129.01		
COTAS VERM.				-0.00	-0.01	-0.27	-0.00		

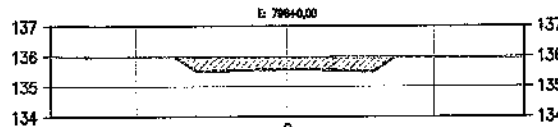


COTAS TN	129.86	129.69	129.80	129.85	128.53	128.94	129.47	129.75	130.46
COTAS PROJ.				129.56	128.65	128.56	129.20		
COTAS VERM.				-0.00	-0.36	0.13	-0.38	0.00	

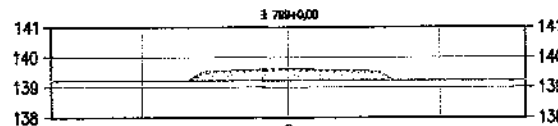
199  
 Rubrica



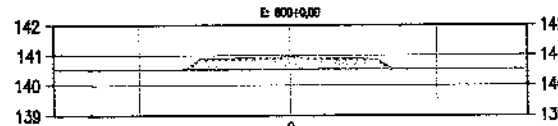
COTAS TN	134.49	134.48	134.48	134.50	134.50	134.51	134.51	134.52	134.52
COTAS PROJ.				134.48	134.10	134.01	134.51		
COTAS VERM.				-0.00	-0.49	-0.40	-0.50	-0.00	



COTAS TN	135.96	135.95	135.95	135.95	135.95	135.94	135.94	135.94	135.94
COTAS PROJ.				135.95	135.50	135.50	135.94		
COTAS VERM.				0.00	-0.45	-0.36	-0.44	0.00	



COTAS TN	139.22	139.22	139.22	139.22	139.22	139.22	139.22	139.22	139.22
COTAS PROJ.				139.22	139.59	139.59	139.22		
COTAS VERM.				0.28	0.37	0.28	0.00		

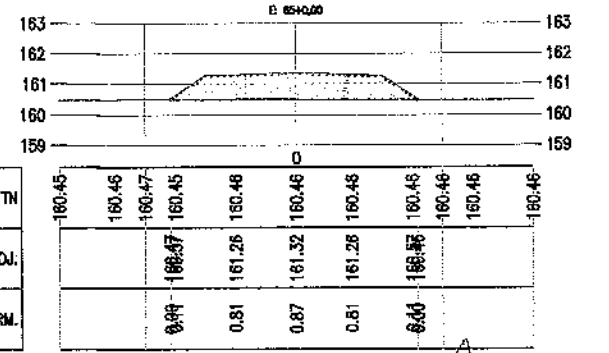
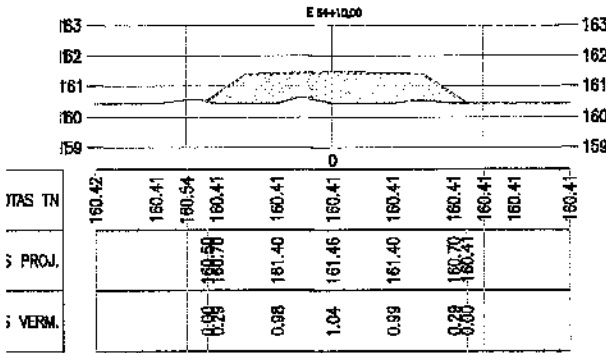
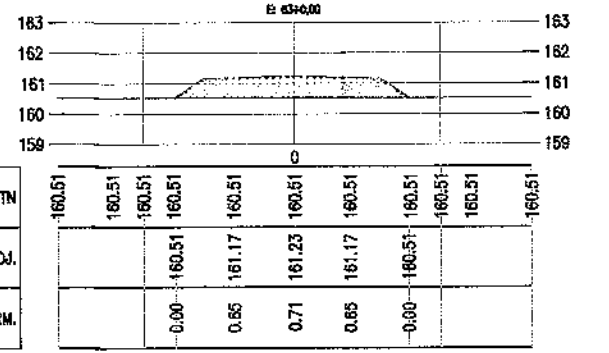
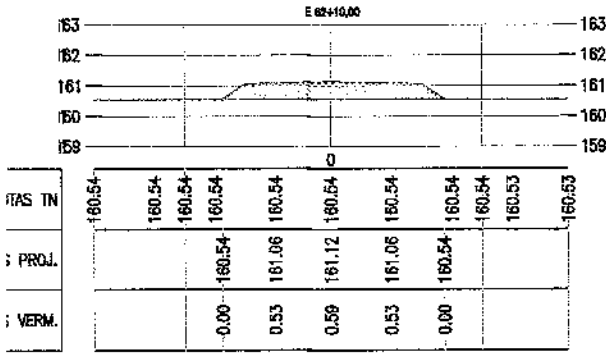
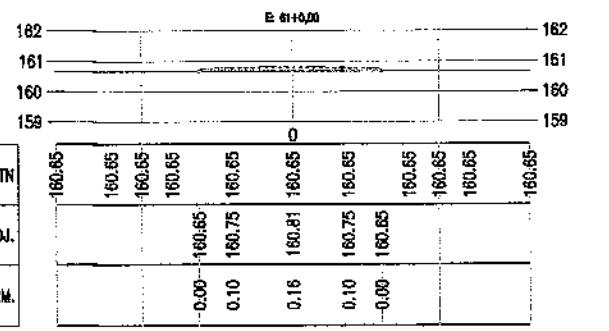
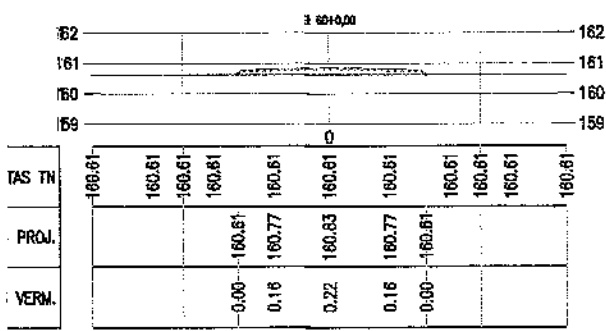
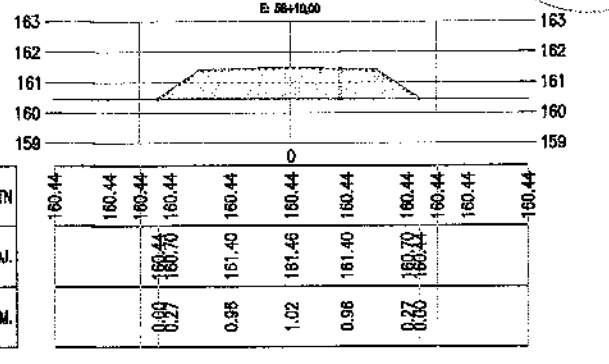
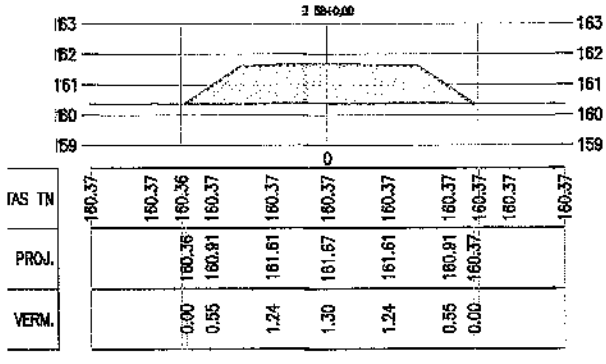
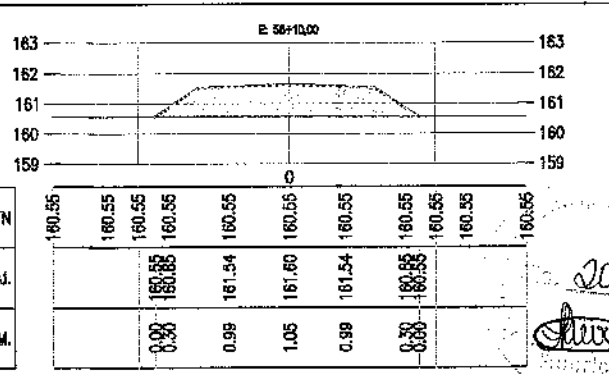
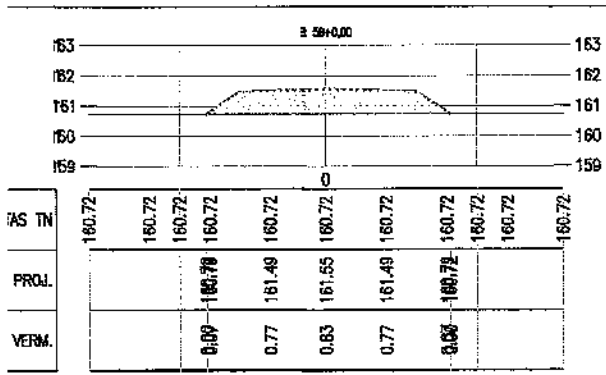


COTAS TN	140.52	140.52	140.52	140.52	140.52	140.53	140.53	140.53	140.53
COTAS PROJ.				140.52	140.92	140.92	140.53		
COTAS VERM.				0.00	0.40	0.31	0.00		



<b>PREFEITURA MUNICIPAL DE IRAUÇUBA / CE</b>		PRANCHA:
RECUPERAÇÃO E ADEQUAÇÃO DA ESTRADA QUE LIGA ACE 173 NO DISTRITO DE JIJÁ, IRAUÇUBA-CE A COMUNIDADE DE MARACANÁ, IRAUÇUBA-CE TRECHO 01: CE 173 A LOC. DE JUA.		<b>30 / 30</b>
<b>SEÇÕES TRANSVERSAIS</b>		ESCALA:
PROJETISTA:	CLAUDIO JOSÉ QUEIROZ BARROS - ENG. CIVIL - CREA 13.418/D/CE	<b>1/250</b>
ARQUIVO:	4 - PROJETO TERAPIANAGEM_TRECHO 01_PARTE 02_RO.DWG	

*[Handwritten signature]*

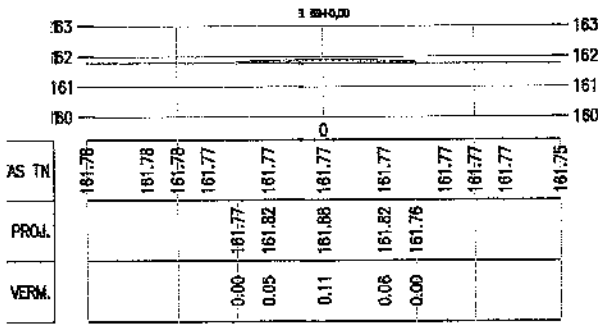


**PREFEITURA MUNICIPAL DE IRAUÇUBA / CE**  
**RECUPERAÇÃO E ADEQUAÇÃO DA ESTRADA QUE LIGA ACE 173 NO DISTRITO DE JUAÍRA, IRAUÇUBA - CE**  
**A COMUNIDADE DE ARACANÁ/IRAUÇUBA - CE**  
**TRECHO 02: COMUNIDADE DE MARACANÁ.**  
**SEÇÕES TRANSVERSAIS**

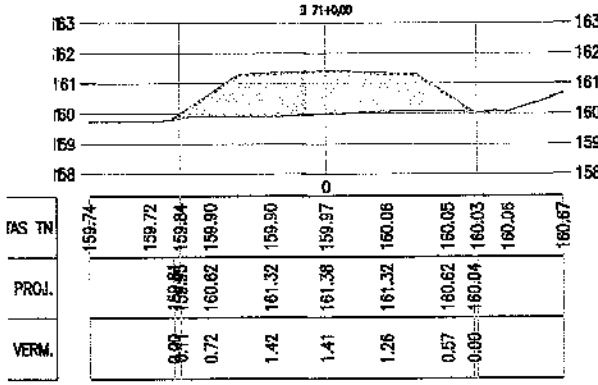
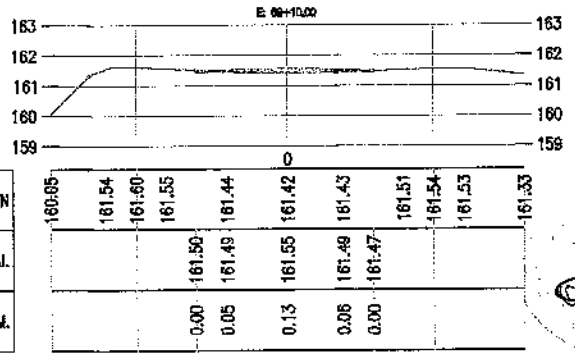
PROJETISTA: CLAUDIO JOSÉ QUEIROZ BARROS - ENG.º CIVIL - CREA 13.419D/CE.  
 ARQUIVO: 5 - PROJETO TERRAPLANAGEM\_TRECHO 02\_R2.DWG

PRANCHA:  
**1 / 07**  
 ESCALA:  
**1/250**

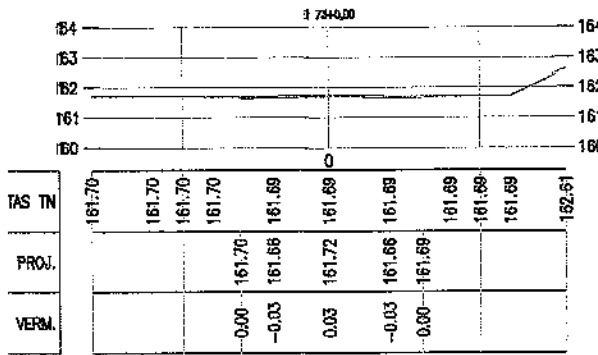
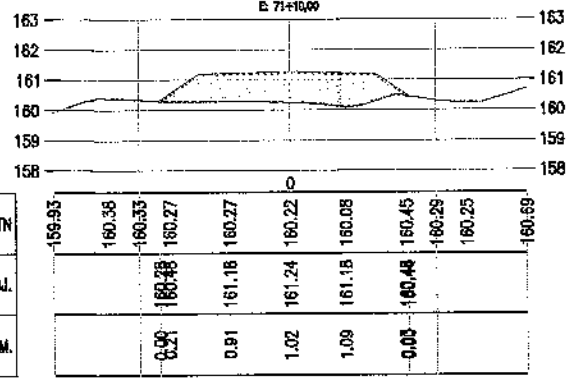
200  
*Cláudio*  
 Eng.º Civil



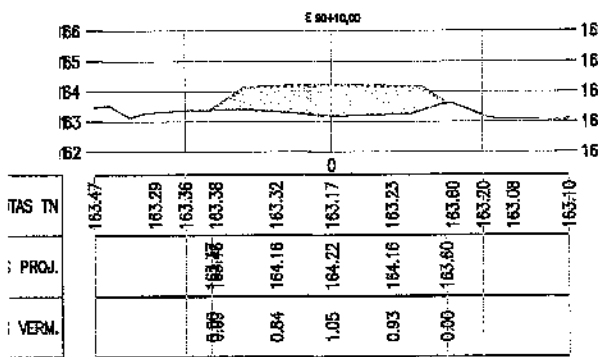
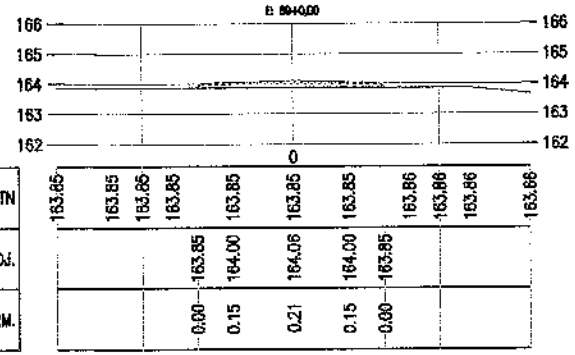
COTAS TN									
COTAS PROJ.									
COTAS VERM.				0.00	0.05	0.11	0.06	0.00	



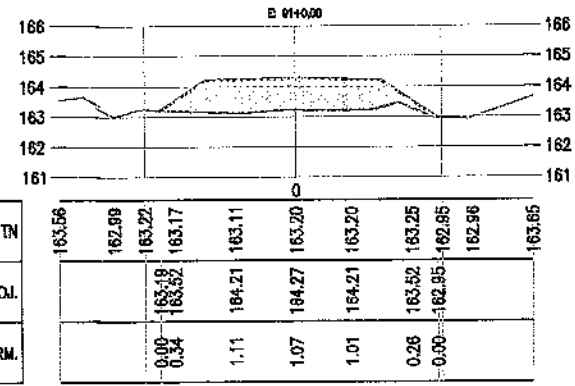
COTAS TN											
COTAS PROJ.											
COTAS VERM.		0.00	0.72	1.42	1.41	1.26	0.57	0.00			



COTAS TN											
COTAS PROJ.											
COTAS VERM.				-0.00	-0.03	0.03	-0.03	-0.00			



COTAS TN											
COTAS PROJ.											
COTAS VERM.		0.00	0.84	1.05	0.93	0.00					

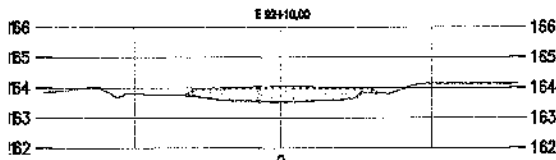


**PREFEITURA MUNICIPAL DE IRAUÇUBA / CE**  
**RECUPERAÇÃO E ADEQUAÇÃO DA ESTRADA QUE LIGA ACE 173 NO DISTRITO DE JUAÍRA, IRAUÇUBA-CE**  
**A COMUNIDADE DE ARACANÁ/IRAUÇUBA-CE**  
**TRECHO 02: COMUNIDADE DE MARACANÁ.**  
**SEÇÕES TRANSVERSAIS**

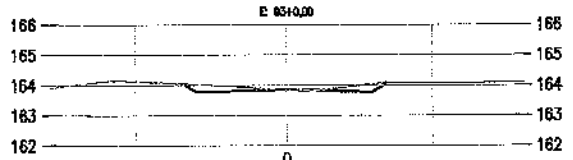
PROJETISTA: CLAUDIO JOSÉ GLEIROZ BARROS - ENG. CIVIL - CREA 13.419D/CE.  
 ARQUIVO: 5 - PROJETO TERRAPLANAGEM\_TRECHO 02\_R2.DWG

PRANCHA:  
**2 / 107**  
 ESCALA:  
**1/250**

*Handwritten signature and initials.*

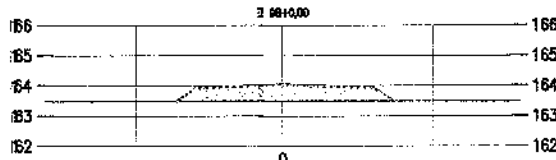


OTAS TN	163.83	163.91	163.77	163.75	163.57	163.51	163.58	163.92	164.11	164.11	164.12
PROJ.				163.73	163.95	164.01	163.95	163.90	164.11	164.11	164.12
VERM.				-0.00	0.38	0.50	0.37	-0.00			

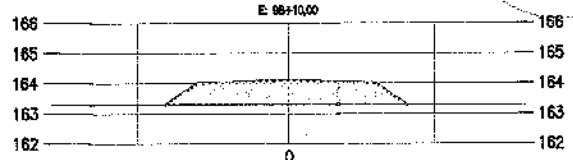


COTAS TN	163.91	164.12	164.11	164.06	163.96	163.95	163.92	164.06	164.06	164.06	164.07
COTAS PROJ.				164.03	163.79	163.85	163.79	163.92	164.06	164.06	164.07
COTAS VERM.				-0.00	-0.17	-0.01	-0.13	-0.00			

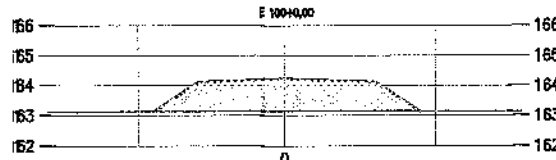
002  
*Barros*  
 Engenheiro  
 Federal



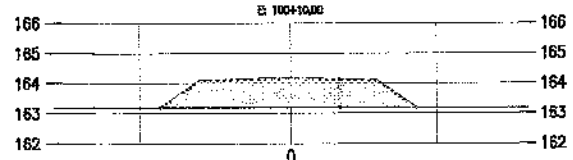
OTAS TN	163.49	163.49	163.49	163.49	163.49	163.49	163.49	163.49	163.49	163.49	163.49
PROJ.				163.49	163.96	164.02	163.96	163.49	163.49	163.49	163.49
VERM.				0.00	0.47	0.53	0.47	0.00			



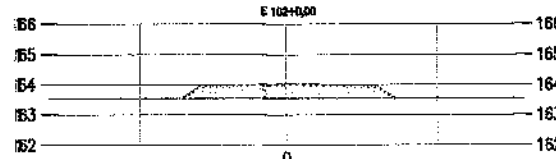
COTAS TN	163.28	163.28	163.28	163.28	163.28	163.28	163.28	163.28	163.28	163.28	163.28
COTAS PROJ.				163.38	164.03	164.08	164.03	163.28	163.28	163.28	163.28
COTAS VERM.				0.06	0.75	0.81	0.75	0.00			



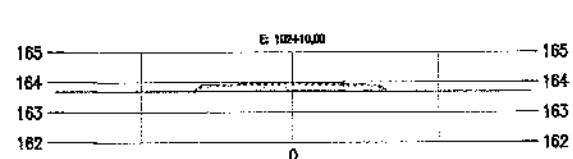
OTAS TN	163.13	163.13	163.13	163.13	163.13	163.13	163.13	163.13	163.14	163.13	163.13
PROJ.				163.13	164.15	164.21	164.15	163.13	163.14	163.13	163.13
VERM.				0.00	1.02	1.08	1.02	0.00	0.01		



COTAS TN	163.19	163.19	163.19	163.19	163.19	163.19	163.19	163.19	163.19	163.19	163.19
COTAS PROJ.				163.18	164.10	164.15	164.10	163.19	163.19	163.19	163.19
COTAS VERM.				-0.01	0.91	0.97	0.91	0.00			



OTAS TN	163.52	163.52	163.52	163.52	163.53	163.53	163.53	163.53	163.53	163.53	163.53
PROJ.				163.53	163.94	164.00	163.94	163.53	163.53	163.53	163.53
VERM.				-0.00	0.42	0.48	0.42	-0.00			



COTAS TN	163.68	163.68	163.68	163.68	163.68	163.68	163.68	163.68	163.68	163.68	163.68
COTAS PROJ.				163.68	163.89	163.95	163.89	163.68	163.68	163.68	163.68
COTAS VERM.				-0.00	0.21	0.27	0.21	0.00			



**PREFEITURA MUNICIPAL DE IRAUÇUBA / CE**

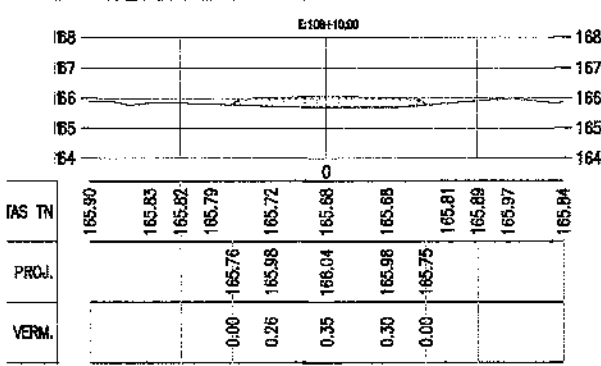
RECUPERAÇÃO E ADEQUAÇÃO DA ESTRADA QUE LIGA ACE 173 NO DISTRITO DE JIÁ/ IRAUÇUBA-CE  
 A COMUNIDADE DE ARACANÁ/IRAUÇUBACE  
 TRECHO 02: COMUNIDADE DE MARACANÁ.

**SEÇÕES TRANSVERSAIS**

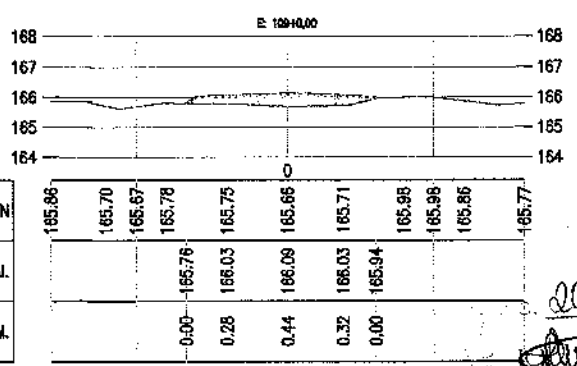
PROJETISTA: CLAUDIO JOSÉ QUEIROZ BARROS - ENG. CIVIL - CREA 13.419D/CE.  
 ARQUIVO: 5 - PROJETO TERAPIANAGEM\_TRECHO 02\_R2.DWG

PRANCHA:  
**3 / 07**  
 ESCALA:  
**1/250**

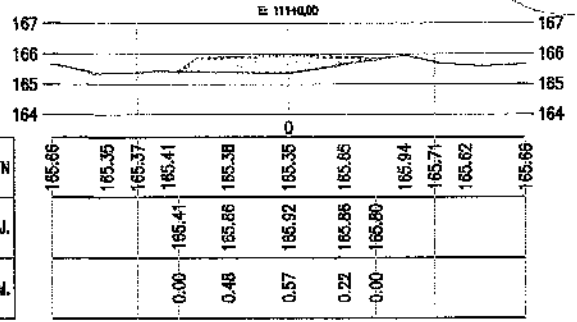
*Barros*



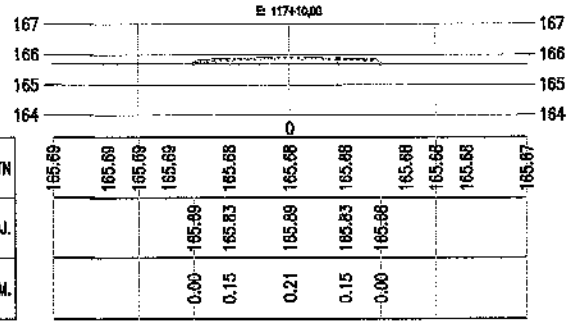
COTAS TN	165.86	165.70	165.67	165.78	165.75	165.65	165.71	165.95	165.98	165.85	165.77
COTAS PROJ.				-165.76	166.03	166.09	166.03	165.94	165.98	165.85	165.77
COTAS VERM.				0.00	0.28	0.44	0.32	0.00			



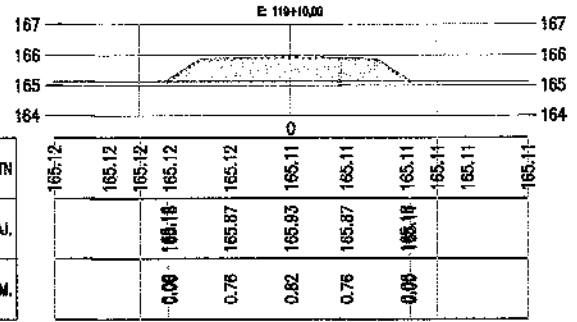
COTAS TN	165.66	165.35	165.37	165.41	165.38	165.35	165.65	165.94	165.71	165.62	165.69
COTAS PROJ.				-165.41	165.86	165.92	165.86	165.94	165.71	165.62	165.69
COTAS VERM.				0.00	0.45	0.57	0.22	0.00			



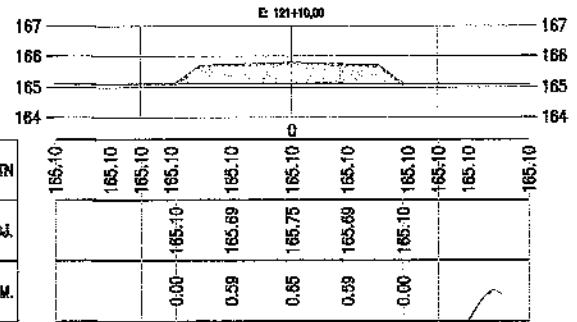
COTAS TN	165.69	165.69	165.69	165.69	165.69	165.69	165.69	165.69	165.69	165.69	165.69
COTAS PROJ.											
COTAS VERM.											



COTAS TN	165.12	165.12	165.12	165.12	165.12	165.11	165.11	165.11	165.11	165.11	165.11
COTAS PROJ.											
COTAS VERM.											



COTAS TN	165.10	165.10	165.10	165.10	165.10	165.10	165.10	165.10	165.10	165.10	165.10
COTAS PROJ.											
COTAS VERM.											



**PREFEITURA MUNICIPAL DE IRAUÇUBA / CE**

RECEPÇÃO E ADEQUAÇÃO DA ESTRADA QUE LIGA ACE 173 NO DISTRITO DE JUAÍRA, IRAUÇUBA-CE  
A COMUNIDADE DE ARACANÁ/IRAUÇUBACE  
TRECHO 02: COMUNIDADE DE MARACANÃ.

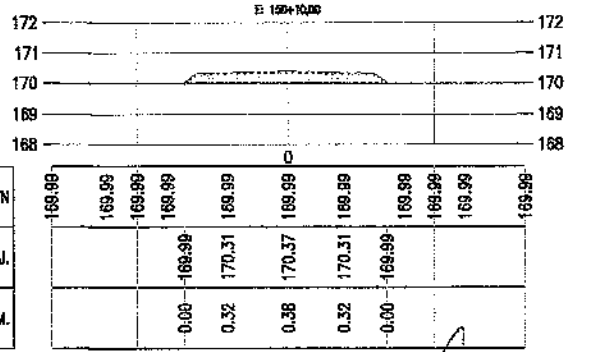
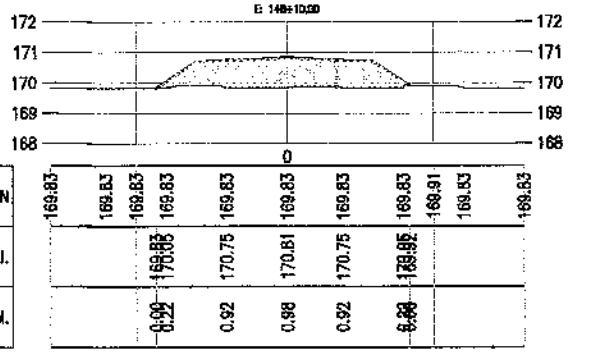
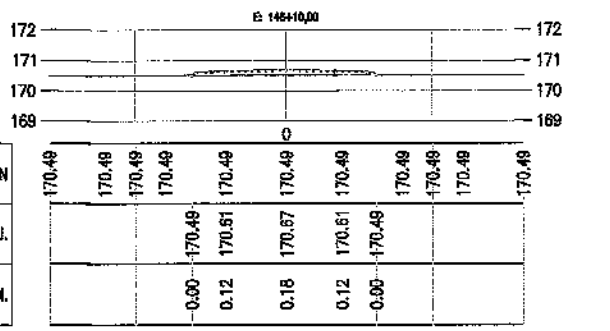
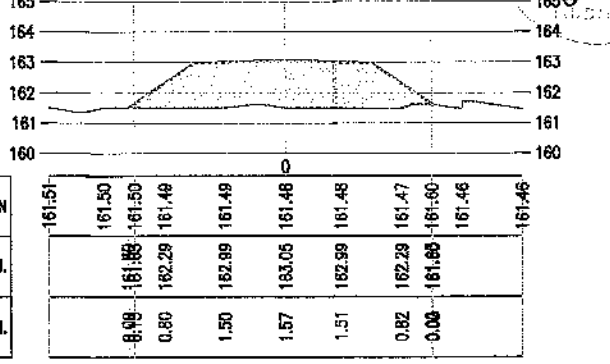
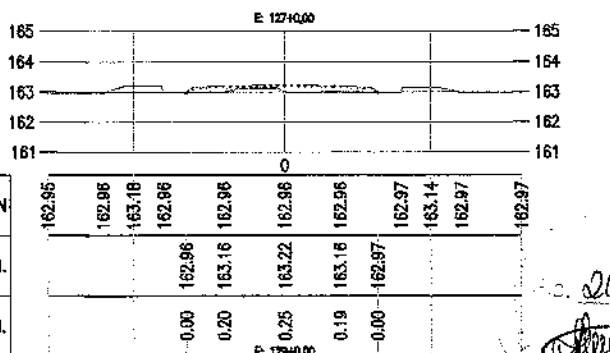
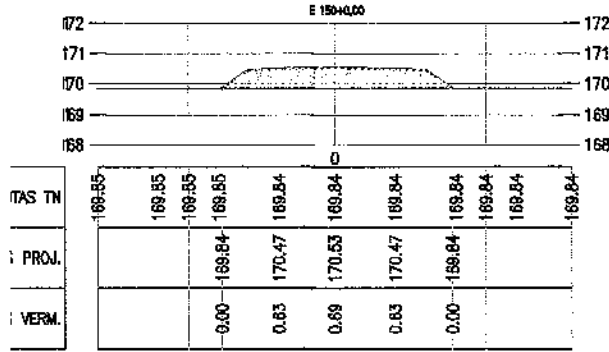
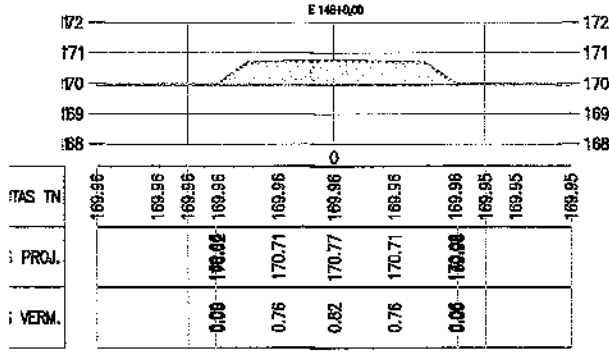
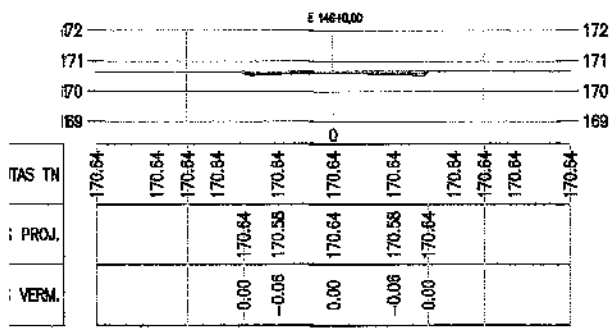
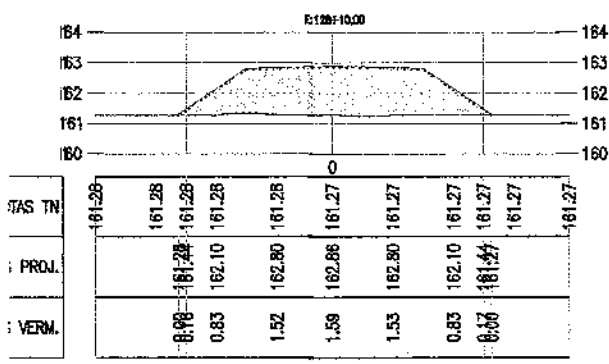
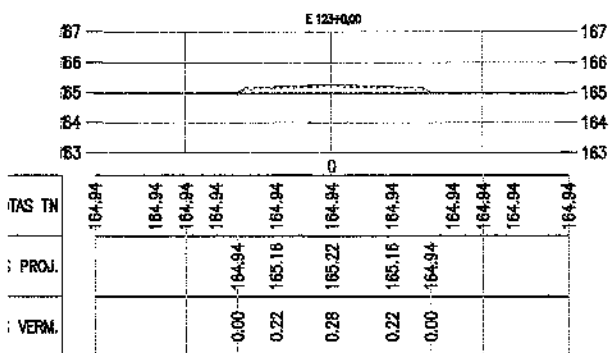
**SEÇÕES TRANSVERSAIS**

PROJETISTA:	CLAUDIO JOSÉ QUEIROZ BARROS - ENGº CIVIL - CREA 13.419D/CE
ARQUIVO:	5 - PROJETO TERRAPLANAGEM_TRECHO 02_R2.DWG

PRANCHA:  
**4 / 07**

ESCALA:  
**1/250**

203  
*[Signature]*  
Rubrica



**PREFEITURA MUNICIPAL DE IRAUÇUBA / CE**

**RECUPERAÇÃO E ADEQUAÇÃO DA ESTRADA QUE LIGA ACE 173 NO DISTRITO DE JIÁ/ IRAUÇUBA-CE**  
**A COMUNIDADE DE ARACANÁ/IRAUÇUBA-CE**  
**TRECHO 02: COMUNIDADE DE MARACANÁ.**

**SEÇÕES TRANSVERSAIS**

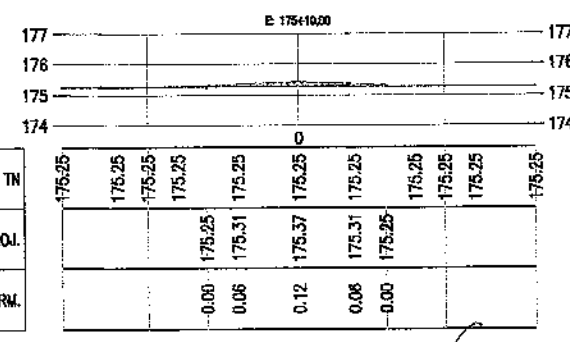
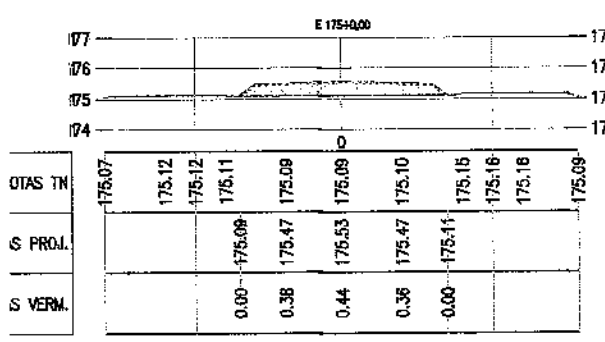
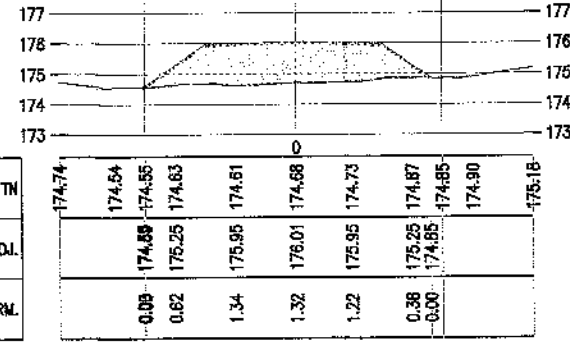
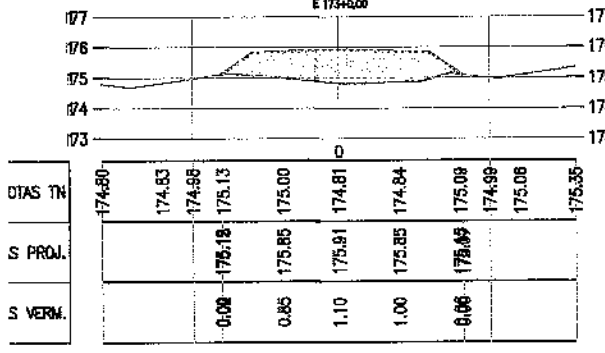
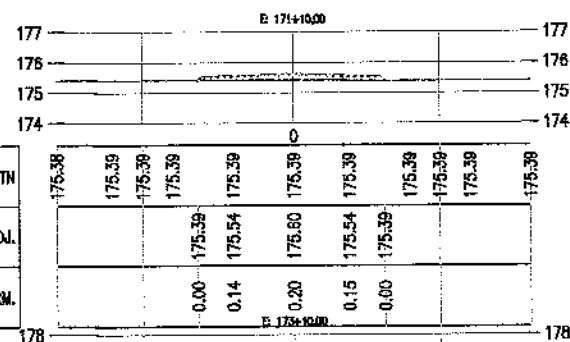
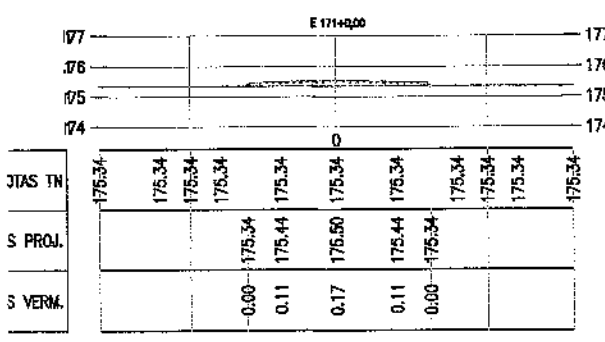
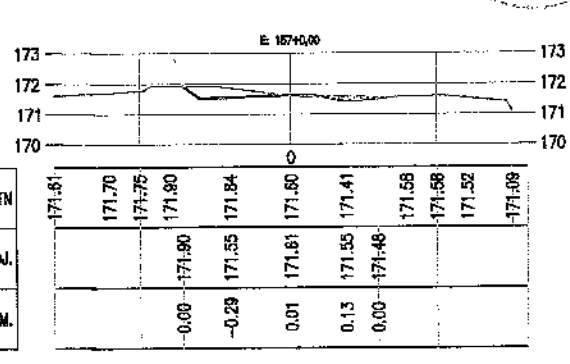
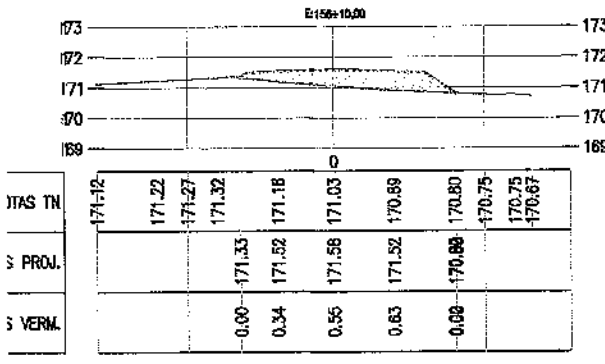
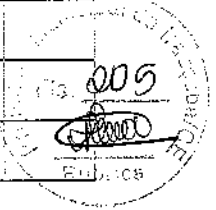
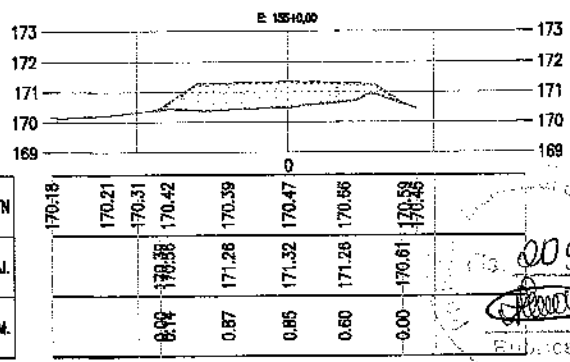
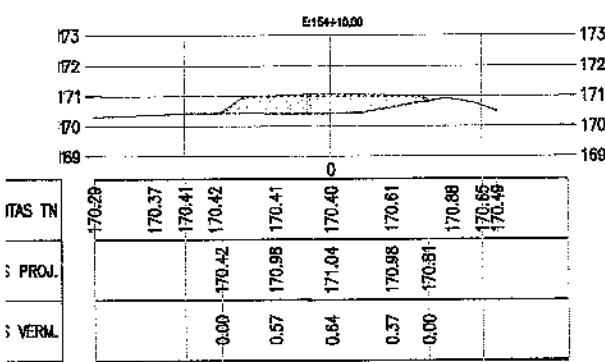
PROJETISTA: CLAUDIO JOSÉ QUEIROZ BARROS - ENGº CIVIL - CREA 13.419/D/CE.

ARQUIVO: 5 - PROJETO TERRAPLANAGEM\_TRECHO 02\_R2.DWG

PRANCHA:  
**5 / 07**

ESCALA:  
**1/250**

204  
*[Handwritten Signature]*

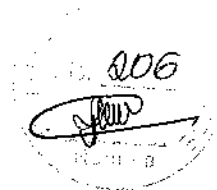


**PREFEITURA MUNICIPAL DE IRAUÇUBA / CE**  
**RECUPERAÇÃO E ADEQUAÇÃO DA ESTRADA QUE LIGA ACE 173 NO DISTRITO DE JIÁ / IRAUÇUBA-CE**  
**A COMUNIDADE DE ARACAN / IRAUÇUBA-CE**  
**TRECHO 02: COMUNIDADE DE MARACANÃ.**  
**SEÇÕES TRANSVERSAIS**

PROJETISTA: CLAUDIO JOSÉ QUEIROZ BARROS - ENG.º CIVIL - CREA 13.419D/CE.  
 ARQUIVO: 5 - PROJETO TERRAPLANAGEM\_TRECHO 02\_R2.DWG

PRANCHA:  
**6 / 107**  
 ESCALA:  
**1/250**





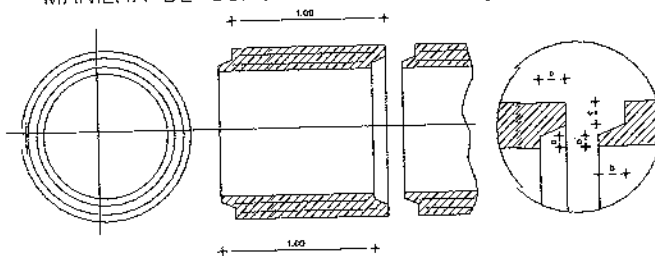
<b>PREFEITURA MUNICIPAL DE IRAUÇUBA / CE</b>		PRANCHA:
		<b>7 / 07</b>
RECUPERAÇÃO E ADEQUAÇÃO DA ESTRADA QUE LIGA ACE 173 NO DISTRITO DE JIÁ/ IRAUÇUBA-CE A COMUNIDADE DE ARACANÁ/IRAUÇUBA-CE <b>TRECHO 02: COMUNIDADE DE MARACANÁ.</b>		ESCALA:
<b>SEÇÕES TRANSVERSAIS</b>		<b>1/250</b>
PROJETISTA:	CLAUDIO JOSÉ QUEIROZ BARROS - ENGº CIVIL - CREA 13.419/D/CE.	
ARQUIVO:	5 - PROJETO TERRAPLANAGEM_ TRECHO 02_R2.DWG	

CONSO



DIÁM. INT.	DIÁM. EXT.	ESPASS.	ÁREA	PERÍM.
80	100	10	0.283	0.291
80	100	12	0.269	0.276
80	100	14	0.255	0.262
80	100	16	0.241	0.248
80	100	18	0.227	0.234
80	100	20	0.213	0.220
80	100	22	0.199	0.206
80	100	24	0.185	0.192
80	100	26	0.171	0.178
80	100	28	0.157	0.164
80	100	30	0.143	0.150
80	100	32	0.129	0.136
80	100	34	0.115	0.122
80	100	36	0.101	0.108
80	100	38	0.087	0.094
80	100	40	0.073	0.080

MANILHA DE CONCRETO COM ARMAÇÃO DUPLA



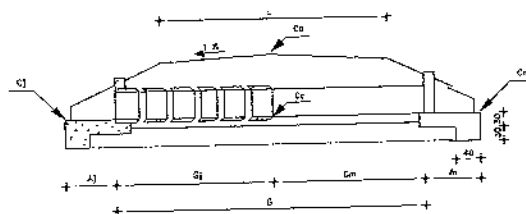
ESPECIFICAÇÕES POR MANILHA

DIÁM. INT. INTERIO (cm)	ESPASS. (cm)	ENCANHE (cm)				ARMAÇÃO	Nº DE ANEIS	DIÂMETRO DOS ANEIS (cm)		Nº DE BARRAS SE MONTAS	CONSUMO DE MATERIAIS			VOLUME DO TUBO m <sup>3</sup>	PESO DO TUBO Kg	COSTO DE VAZÃO m <sup>2</sup>	
		a	a'	b	c			EXT.	INT.		FERRO 1/4" Kg	FERRO 3/8" Kg	CIMENTO Kg SACOS				
80	8	3	2 1/2	4	3	191/4"-10	2x11-22	72	64	2x8-16	16 1/2	-	53	1.5	0.17	410	0.28
80	10	3 1/2	3	5	4	191/4"-8	2x13-26	96	84	2x12-24	25 1/2	-	105	2.0	0.28	570	0.50
100	12	4	3 1/2	6	5	191/4"-6	2x17-34	120	104	2x12-24	38	-	157	3.7	0.42	1000	0.78

NOTA:

- \* TRACO 350kg DE CIMENTO POR METRO CÚBICO (RESISTENCIA PROVA VC 250kg/cm<sup>2</sup>)
- \* MARCAR SEMPRE NAS MANILHAS A POSIÇÃO EM QUE DEVEM SER ASSENTADAS
- \* MONTAR A ARMAÇÃO COM SOLDA ELÉTRICA SEMPRE QUE FOR POSSÍVEL
- \* VIBRAR SEMPRE O CONCRETO
- \* PARA MELHORAR A VIBRAÇÃO DO CONCRETO MONTAR SEMPRE AS FOBIAS SOBRE ESTRADO DE MADEIRA

BUEIROS DE MANILHAS



DIÁM. INT.	DIÁM. EXT.	ESPASS.	ÁREA	PERÍM.
2.248	0.480	288		
2.249	0.480	293		
2.250	0.480	297		
2.251	0.480	302		
2.252	0.480	307		
2.253	0.480	312		
2.254	0.480	317		
2.255	0.480	322		
2.256	0.480	327		
2.257	0.480	332		
2.258	0.480	337		
2.259	0.480	342		
2.260	0.480	347		

ESCONSO



PREFEITURA MUNICIPAL DE IRAUÇUBA / CE

RECUPERAÇÃO E ADEQUAÇÃO DA ESTRADA QUE LIGA A CE 173 NO DISTRITO DE JUÁ/ IRAUÇUBA-CE A COMUNIDADE DE ARACANÃ/IRAUÇUBA-CE

PROJETO DE DRENAGEM - DETALHAMENTO DOS BUEIROS

PROJETISTA: CLÁUDIO JOSÉ QUEIROZ BARROS - ENG. CIVIL - CREA: 13.419 D / CE

ARQUIVO: 6 - DRENAGEM.DWG

PRANHA:

01/01

ESCALA:

SEM ESCALA

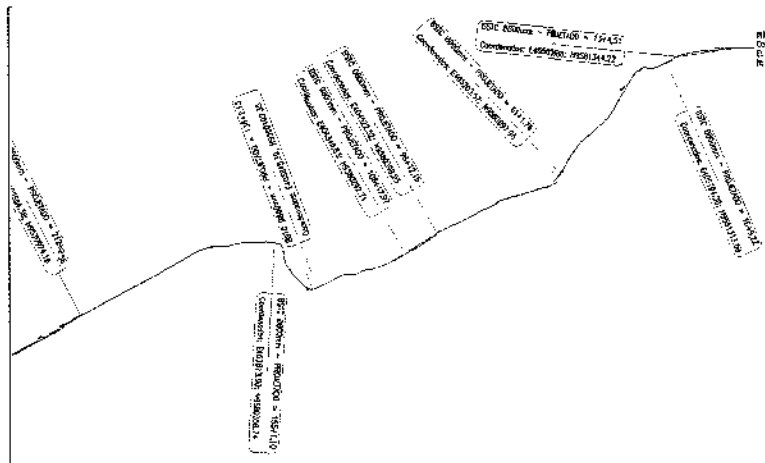
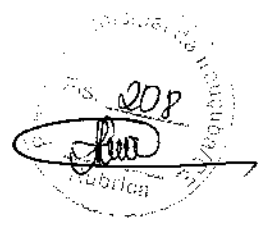




0 1000 2000

MEMO DO TERMO  
E. 41810/08  
N. 055130/08

LOC. DE CACIMBA SALGADA



LOC. DE JUA

FM CACIMBA  
CACIMBA  
E. 4586/04  
N. 02813/04

TRCDO 01 \_\_\_\_\_  
TRCDO 02 \_\_\_\_\_

*Handwritten signature*

<b>PREFEITURA MUNICIPAL DE IRAUCUBA / CE</b>		01 / C
RECUPERAÇÃO E ADEQUAÇÃO DA ESTRADA QUE LIGA A CE 173 NO DISTRITO DE JUA, IRAUCUBA, CE A COMUNIDADE DE MARACANÁ, IRAUCUBA, CE TRCDO 01 - CE 173 A LOC. DE JUA.		SICALA
<b>LOCALIZAÇÃO DOS BUEROS</b>		
PROJETISTA:	STANISLAU JOSE QUEIROZ BRITOS - ENGR. CIVIL - CREA 13.418/06	1/2000
ARQUIVO:	10 - LOCALIZAÇÃO DOS BUEROS, R.D.0290	



- E31+0.00  
E: 405544.08  
N: 9581182.36

INÍCIO DO TRECHO:  
Coordenadas  
E: 406110.866  
N: 9581385.370

da Xraia

JU 16,00KM

Serrote Retiro

Serrote da  
Aroeira

Serra de Mandacaru

Serra da Umbrana

RIACIO FUNDO

Campo de Pouso

Juá

Serra Bicudo



PREFEITURA MUNICIPAL DE IRAUÇUBA / CE

RECUPERAÇÃO E ADEQUAÇÃO DA ESTRADA QUE LIGA A CE 173 NO DISTRITO DE  
JUÁ IRAUÇUBA-CE A COMUNIDADE DE ARACANÃ/IRAUÇUBACE

PLANTA DE JAZIDAS

PROJETISTA: CLÁUDIO JOSÉ QUEIROZ BARROS - ENGº CIVL - CREA: 13.419 D / CE.

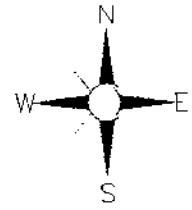
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PRANCHA:

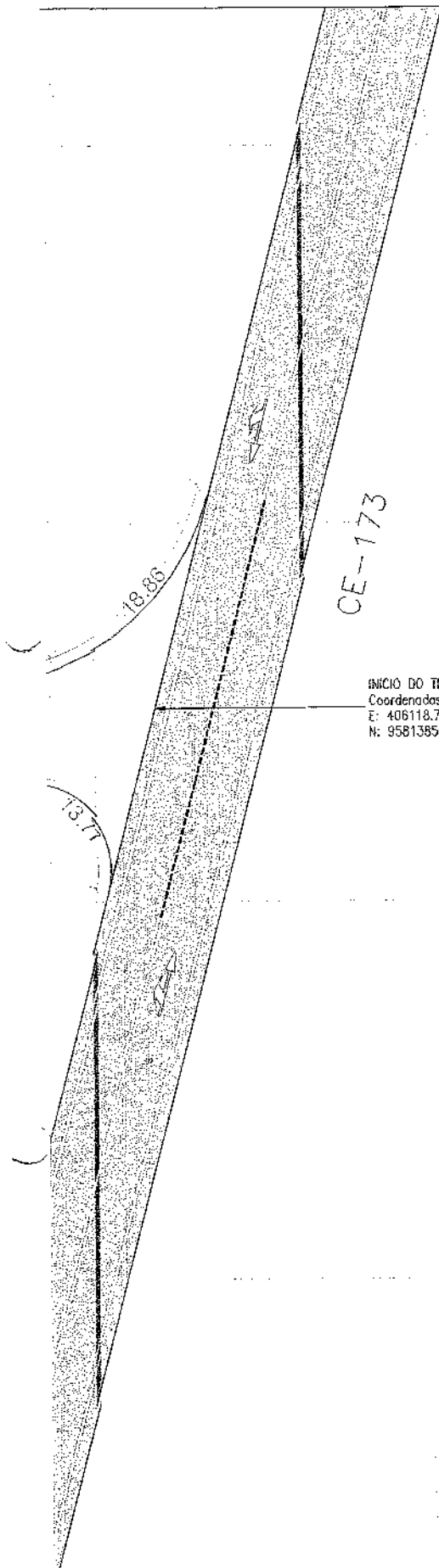
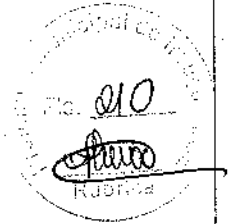
01 / 01

ESCALA:

SEM  
ESCALA



0 1000 2000



INICIO DO TRECHO:  
Coordenadas  
E: 406118.731  
N: 9581365.371



<b>PREFEITURA MUNICIPAL DE IRAUÇUBA / CE.</b>		PRANCHE
RECUPERAÇÃO E ADEQUAÇÃO DA ESTRADA QUE LIGA A CE 173 NO DISTRITO DE JUÁ/IRAUÇUBA-CE A COMUNIDADE DE MARACANÁ/IRAUÇUBA-CE		<b>1 / 01</b>
<b>PLANTA DE INTERSEÇÃO</b>		ESCALA:
PROJETISTA:	CLAUDIO JOSÉ QUEROZ BARROS - ENGº CIVIL - CREB 13.419/D/CE.	<b>1/500</b>
ARQUIVO:	8 - PROJETO ACESSO A CE_R0.DWG	