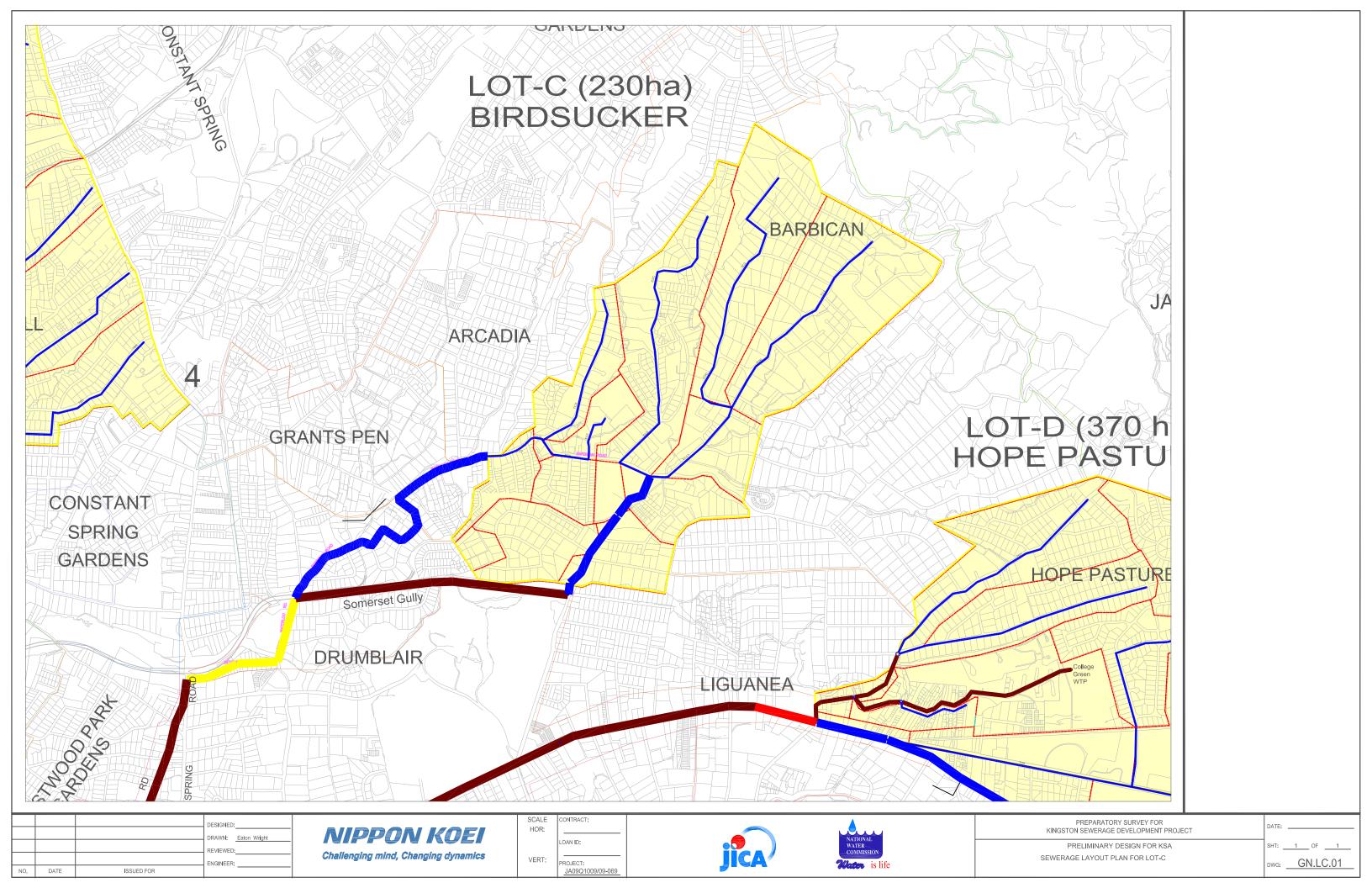
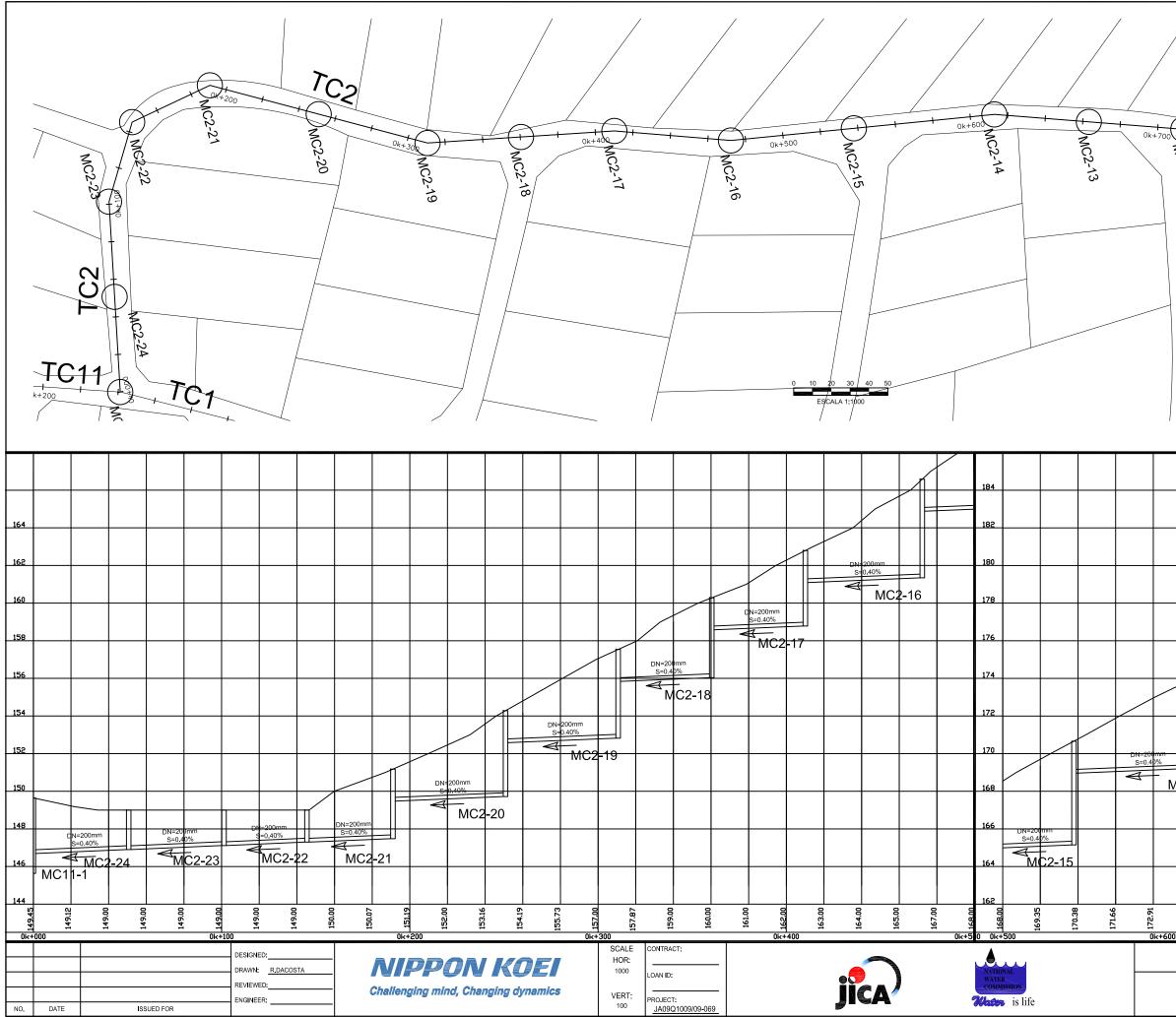
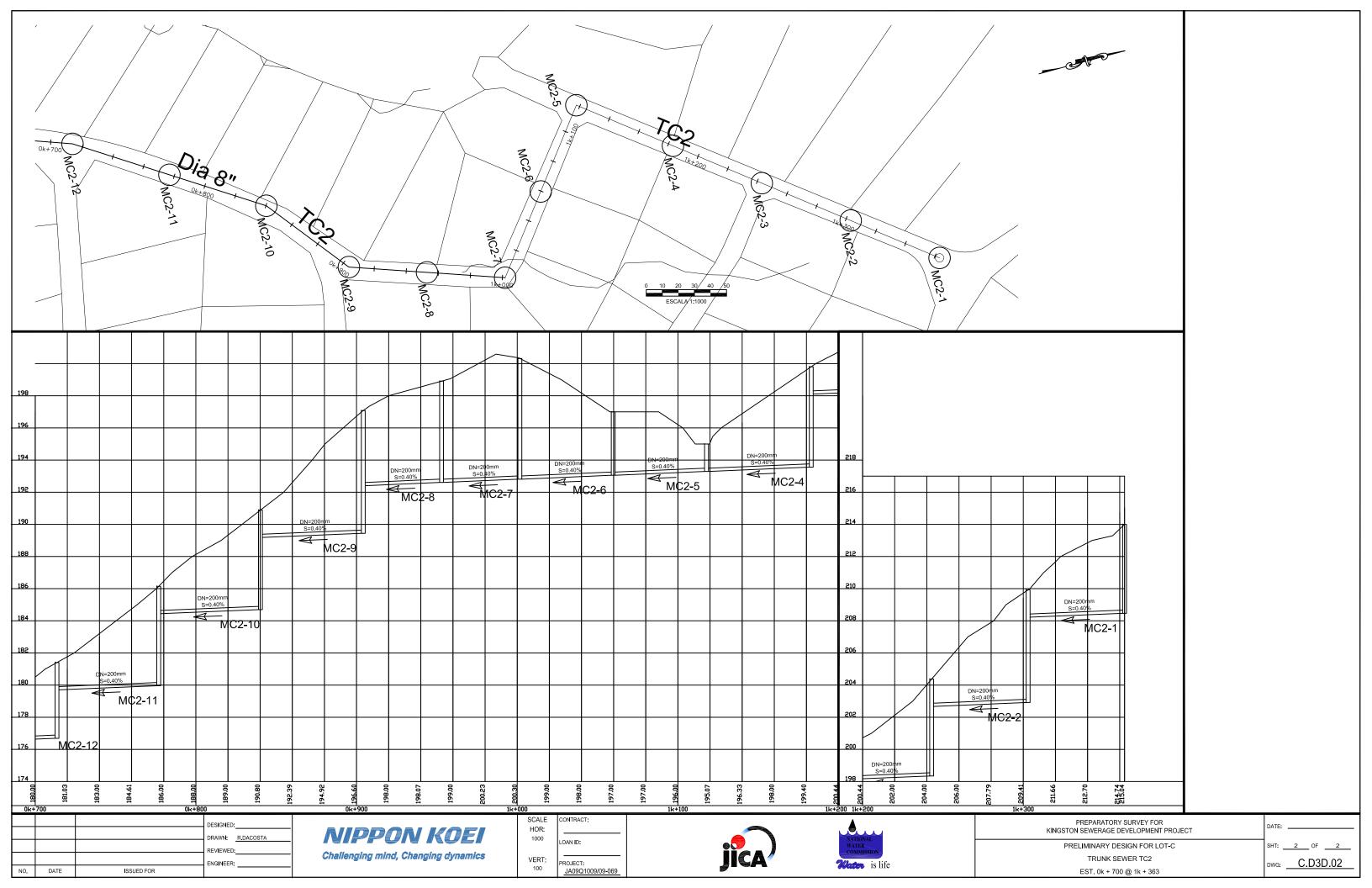
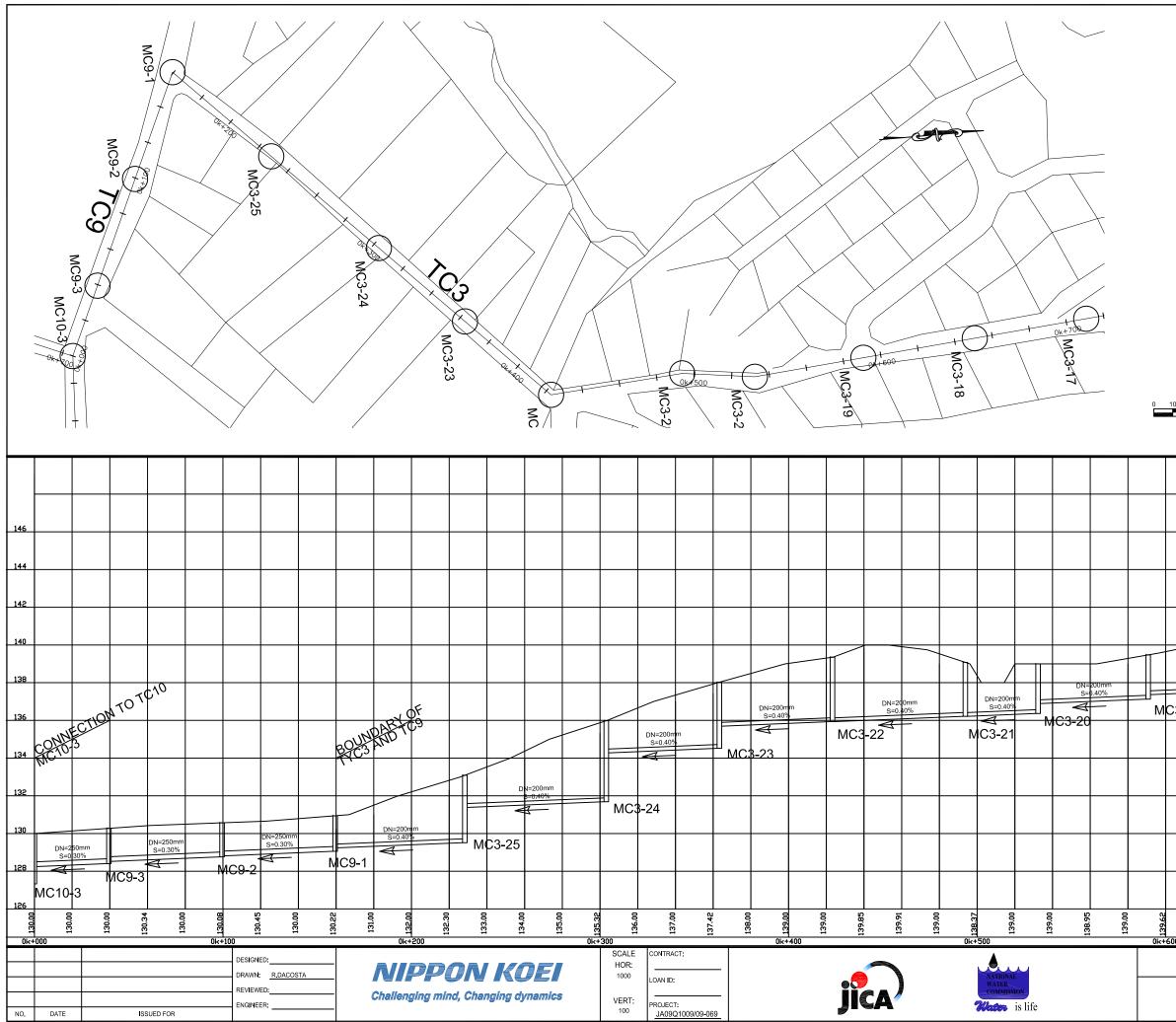
LOT – C (BIRDSUCKER)



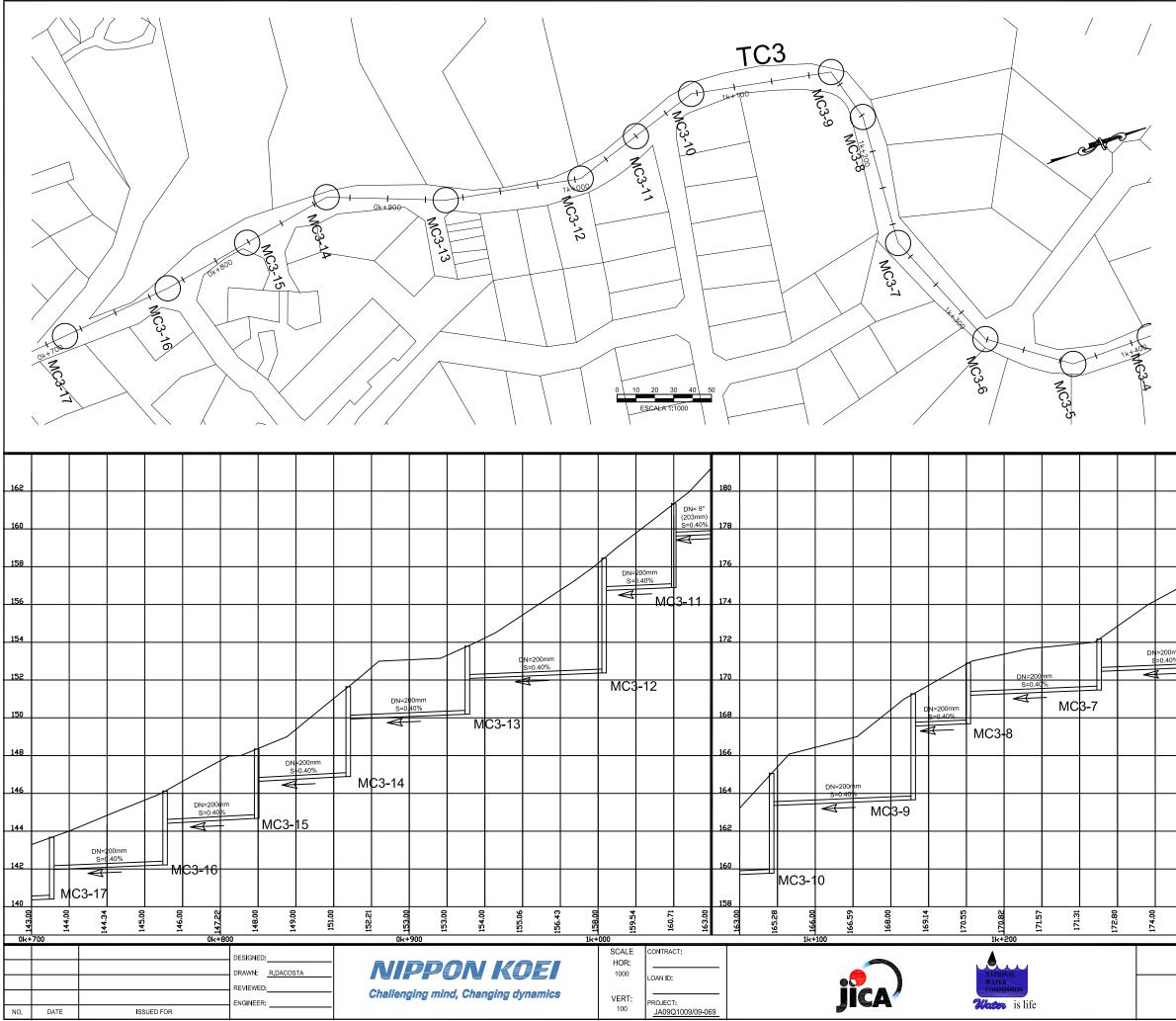


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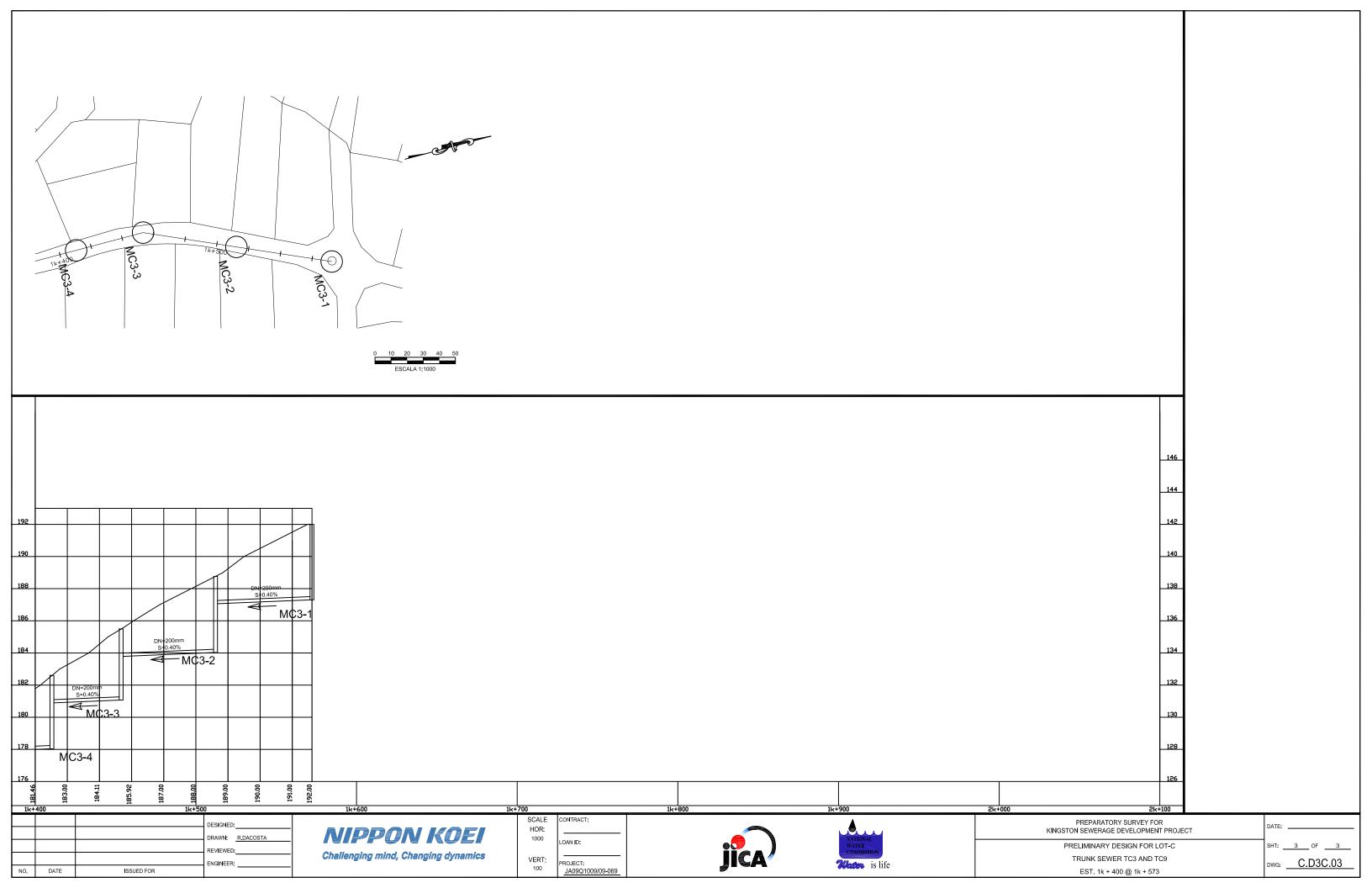


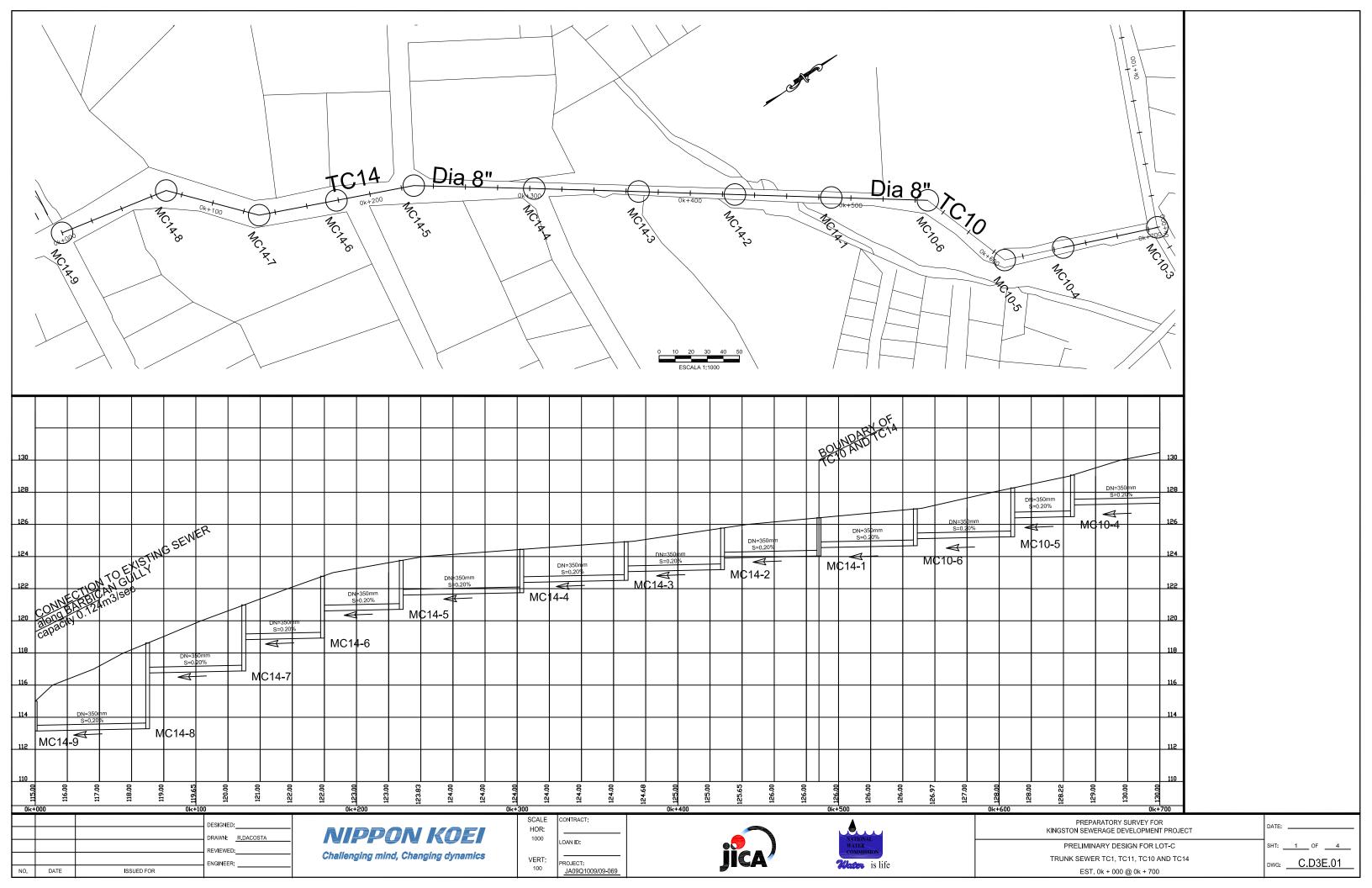


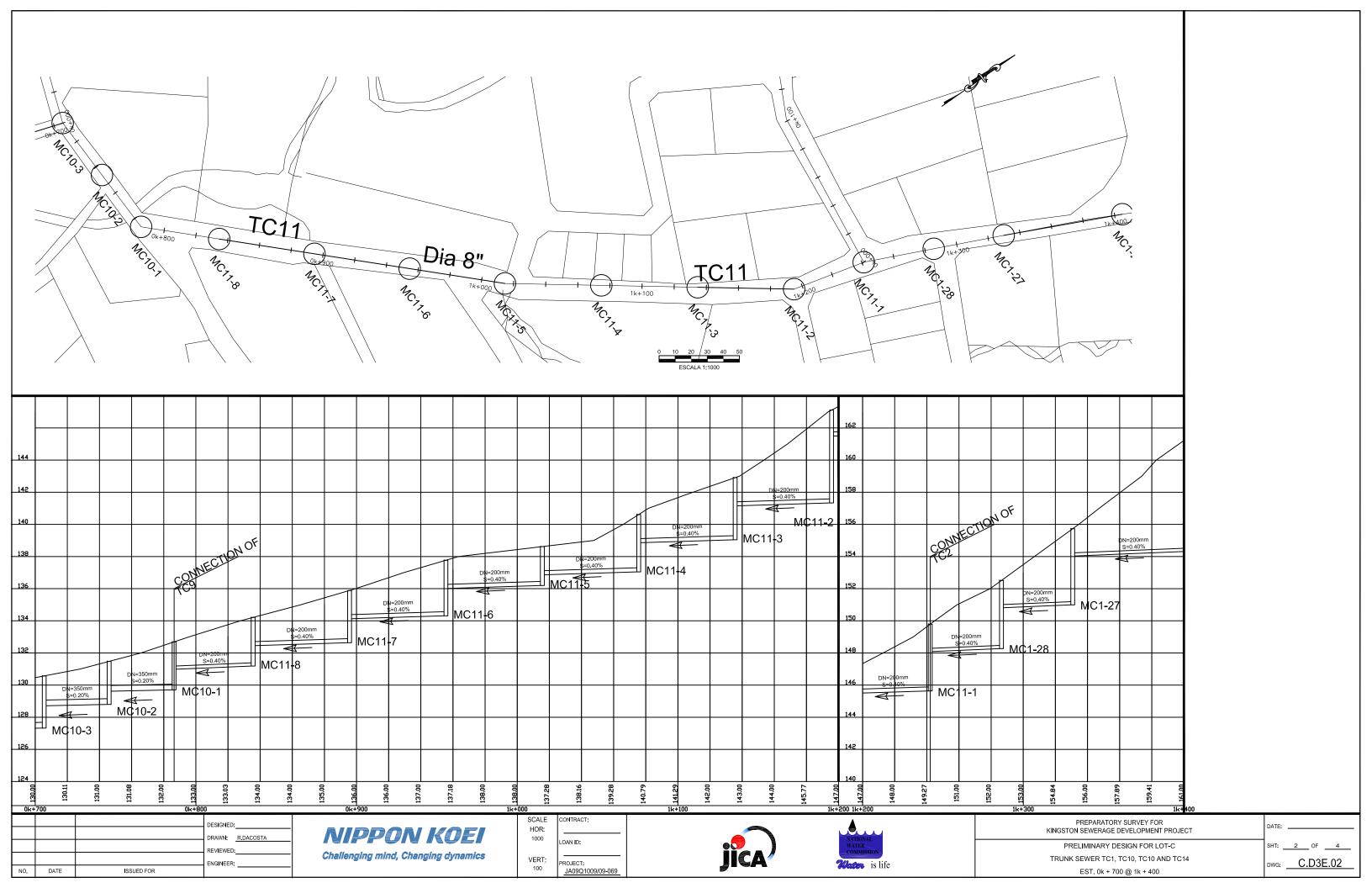
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TRUNK SEWER TC3 AND TC9 EST. 0k + 000 @ 0k + 700							DWG: <u>C.D3C.01</u>

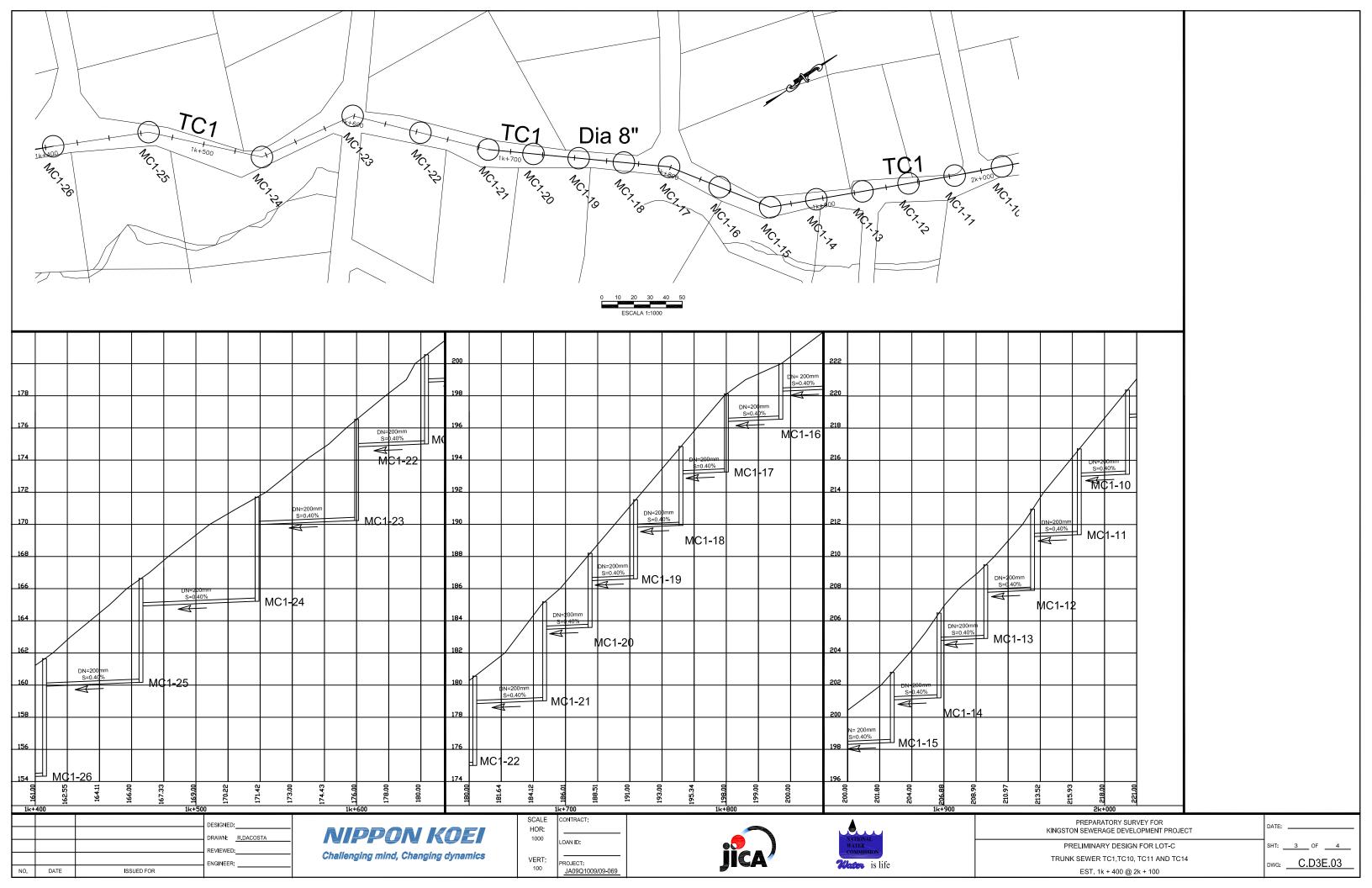


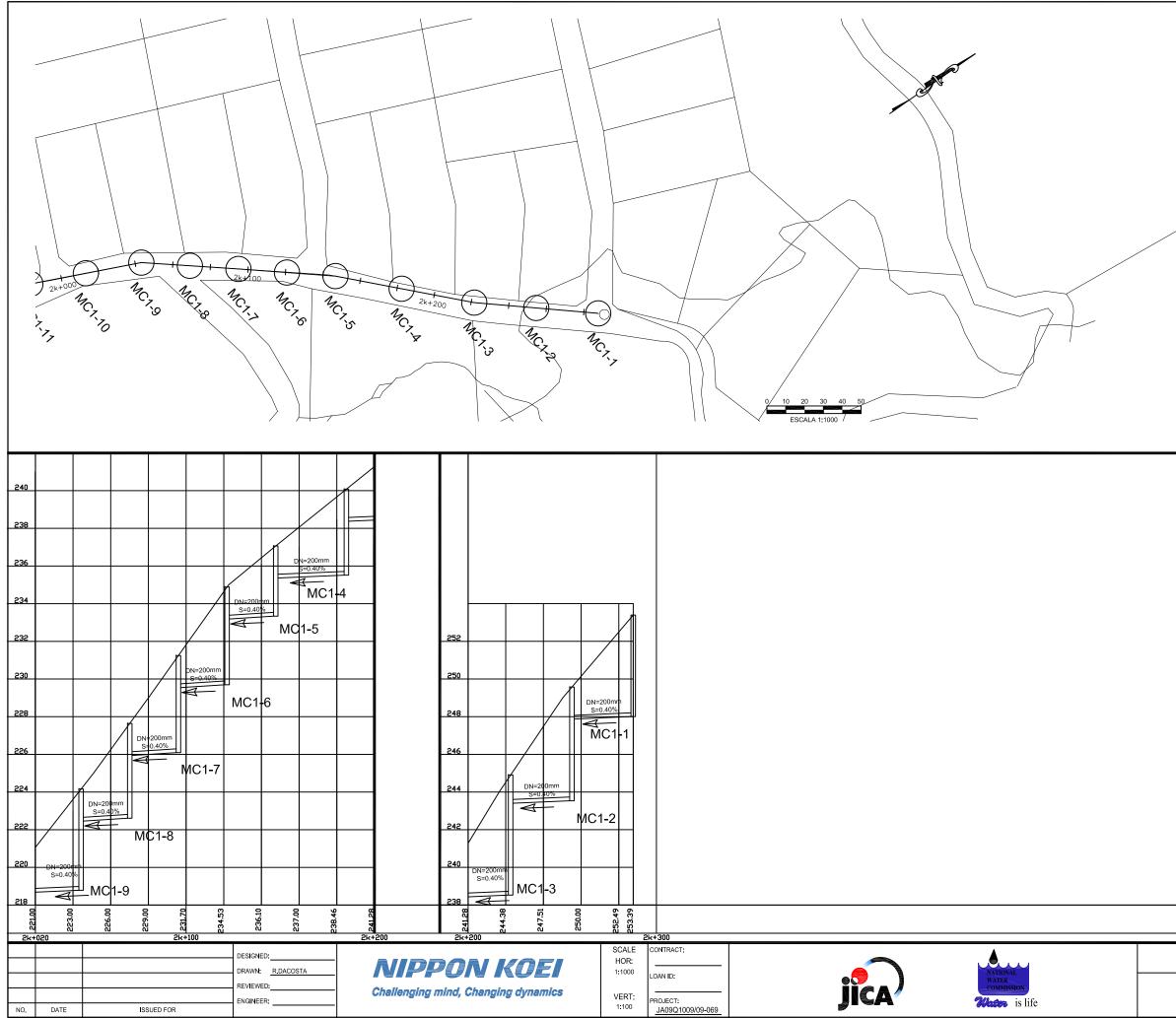
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								C.D3C	



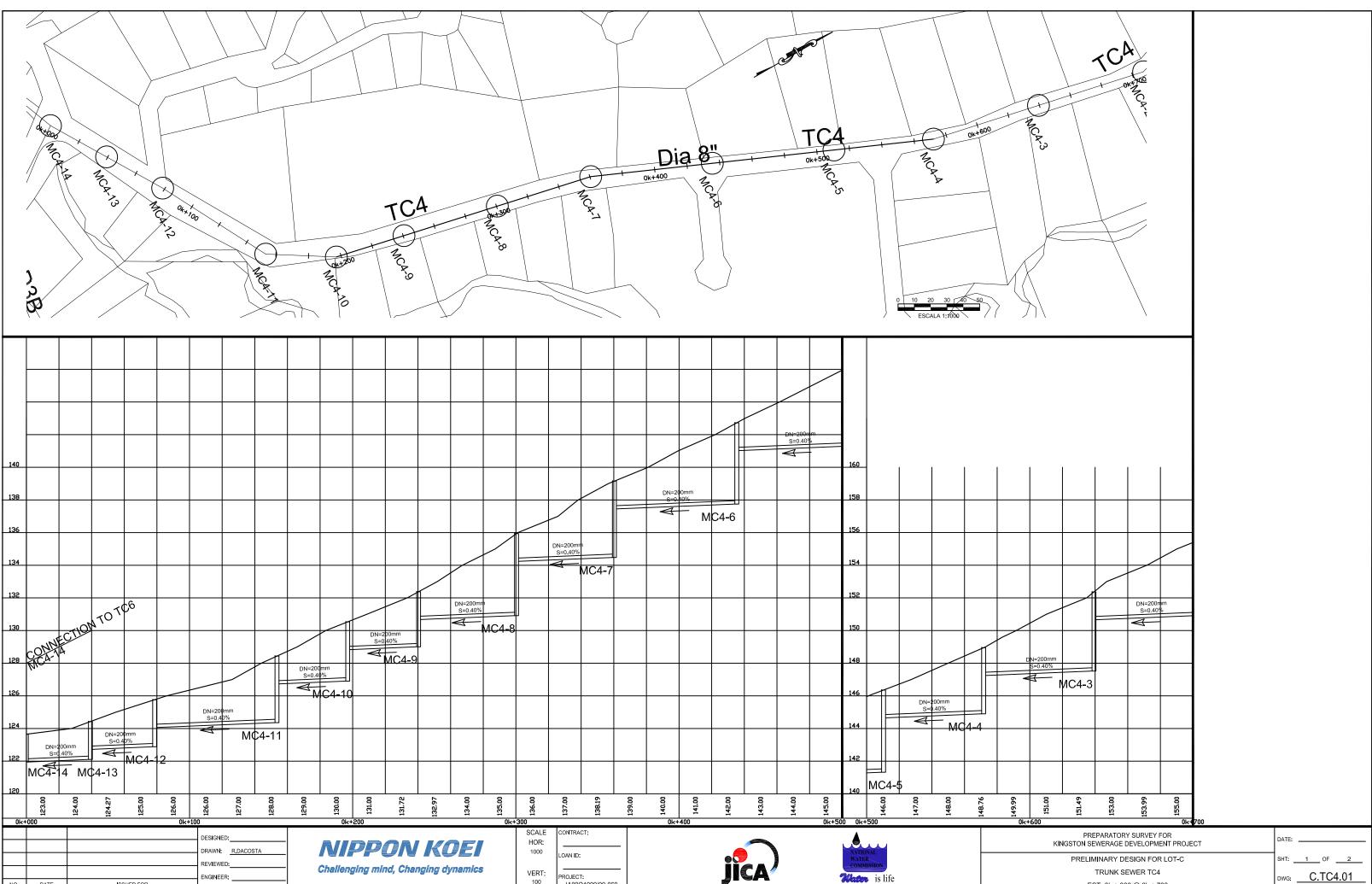


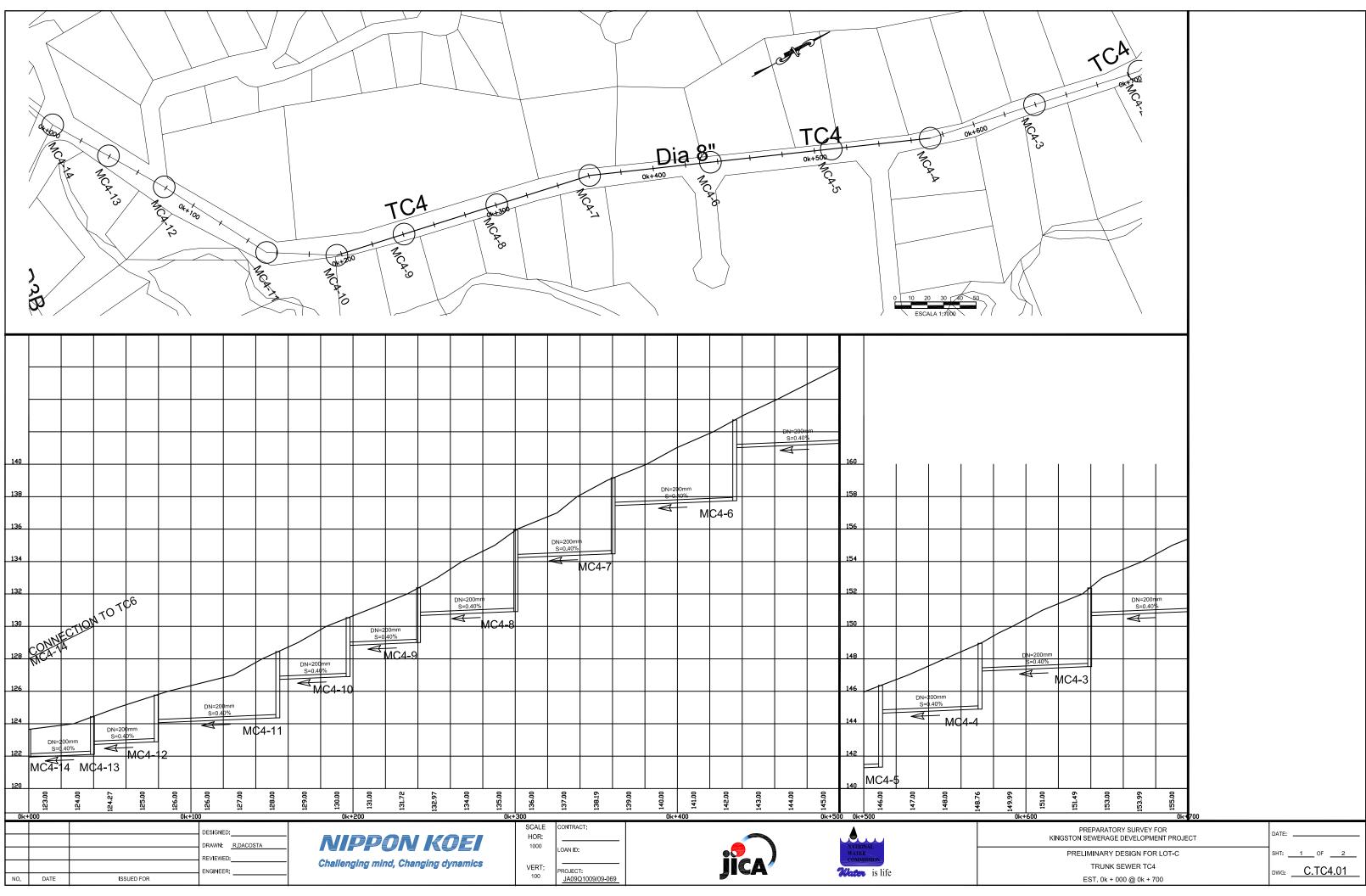


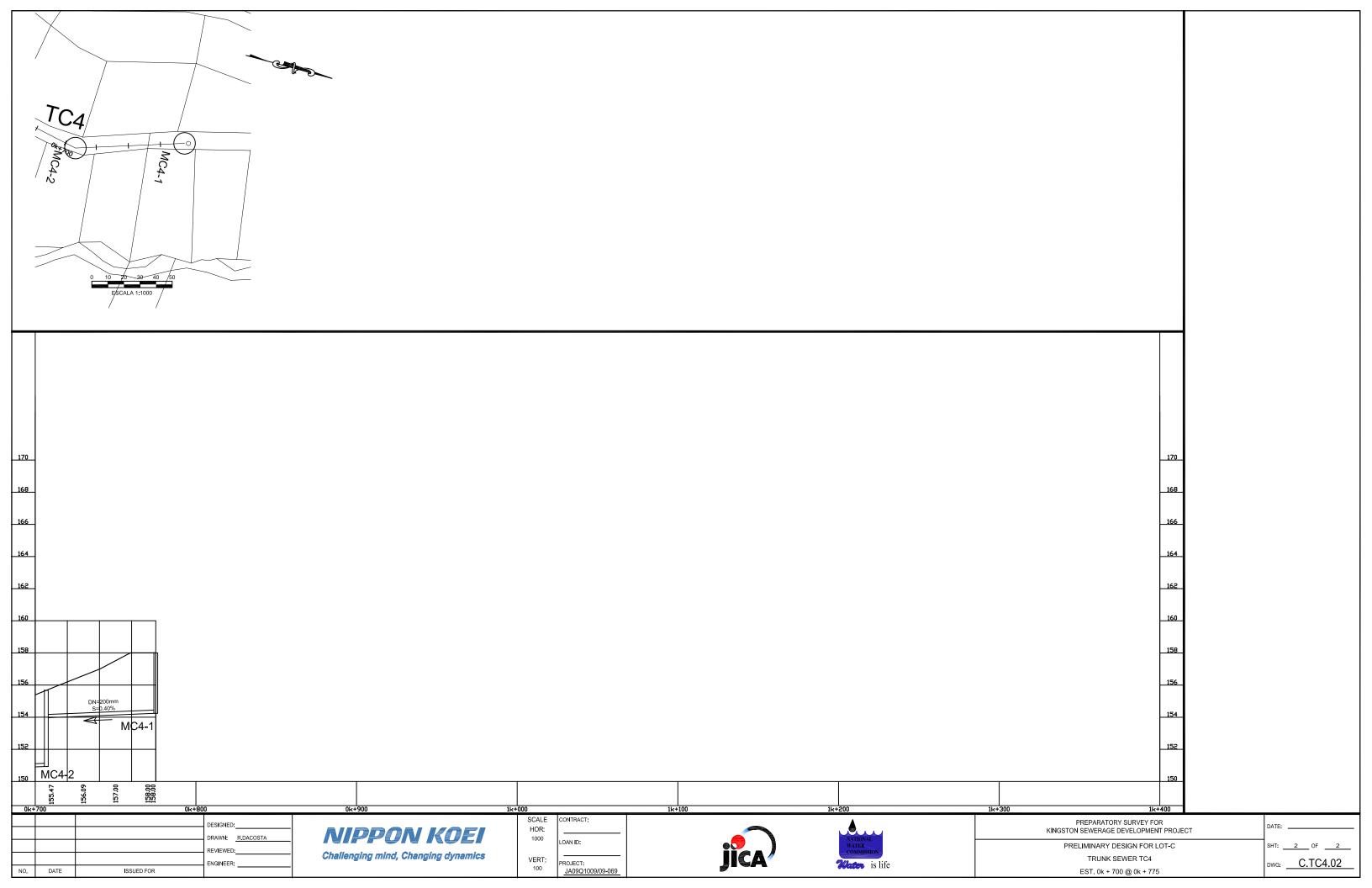


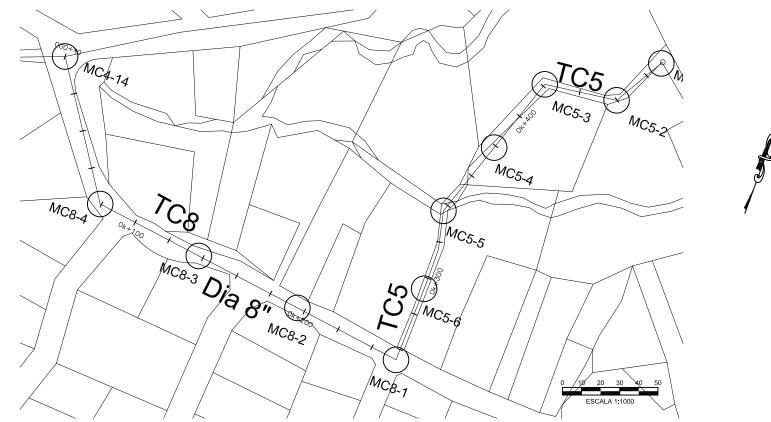


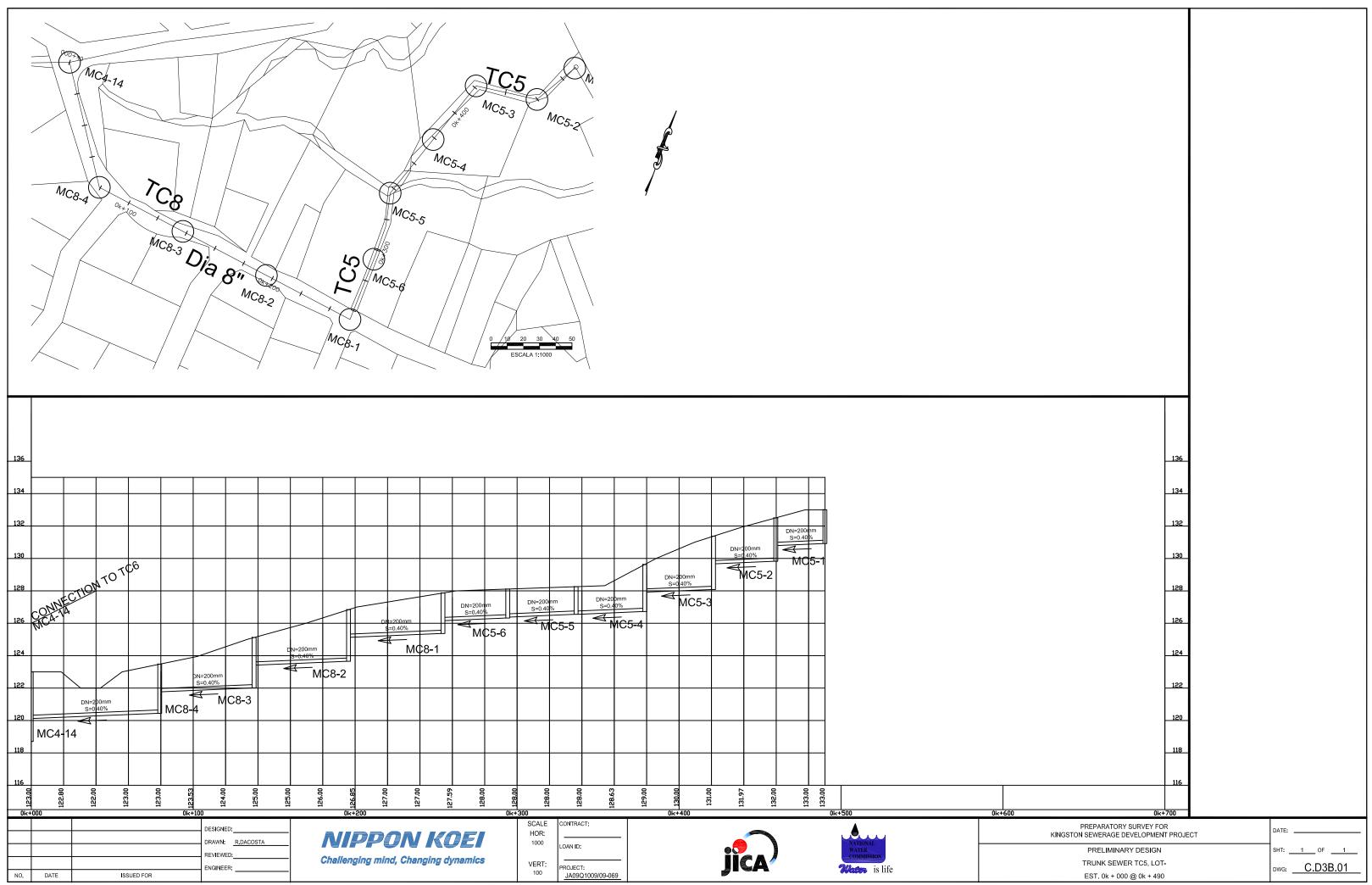
PREPARATORY SURVEY FOR KINGSTON SEWERAGE DEVELOPMENT PROJECT     DATE:       PRELIMINARY DESIGN FOR LOT-C     SHT:OF       TRUNK SEWER TC1, TC10, TC11 AND TC14     DWG:C.D3E.04       EST. 2k + 100 @ 2k + 288     DWG:C.D3E.04	

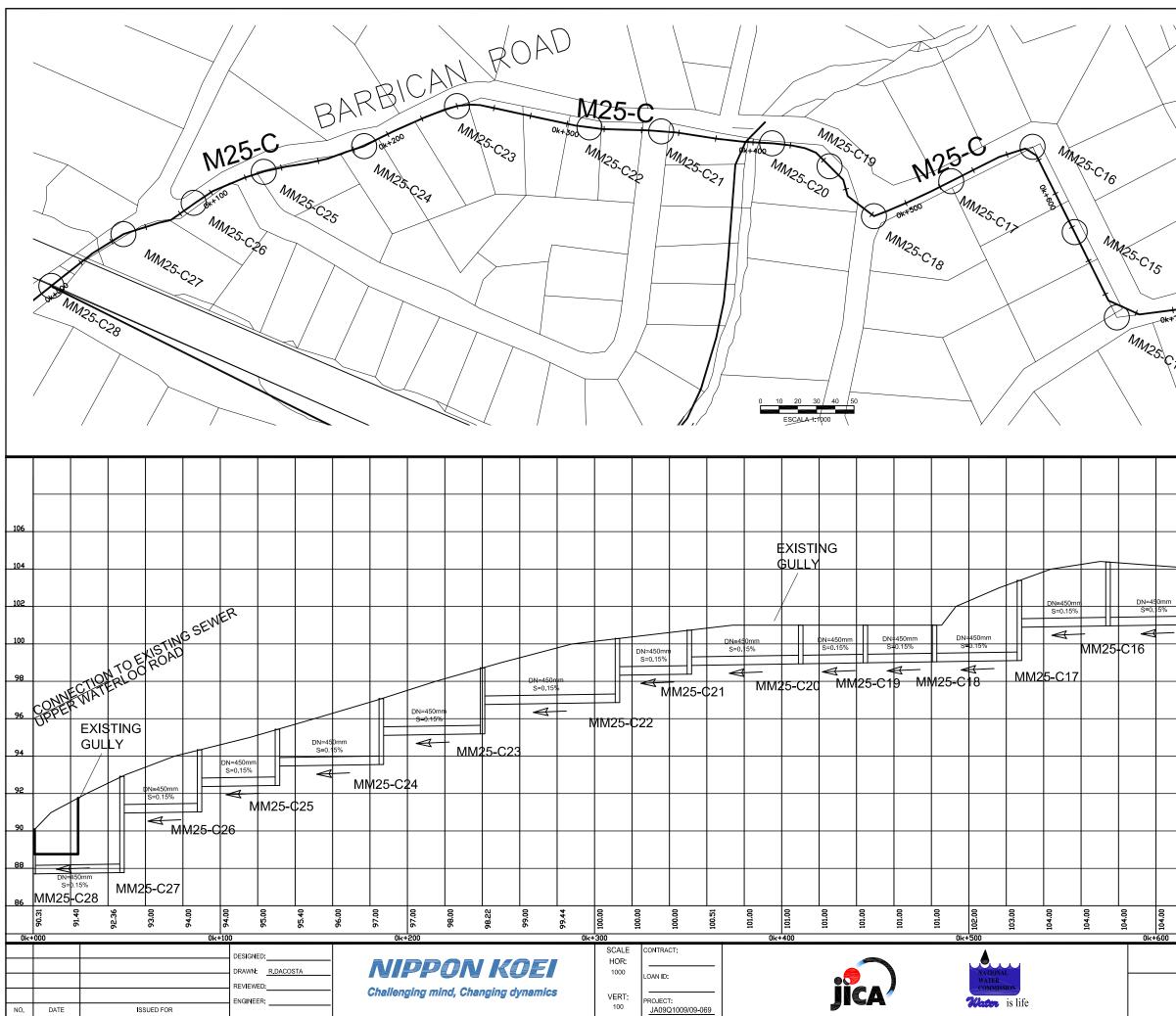




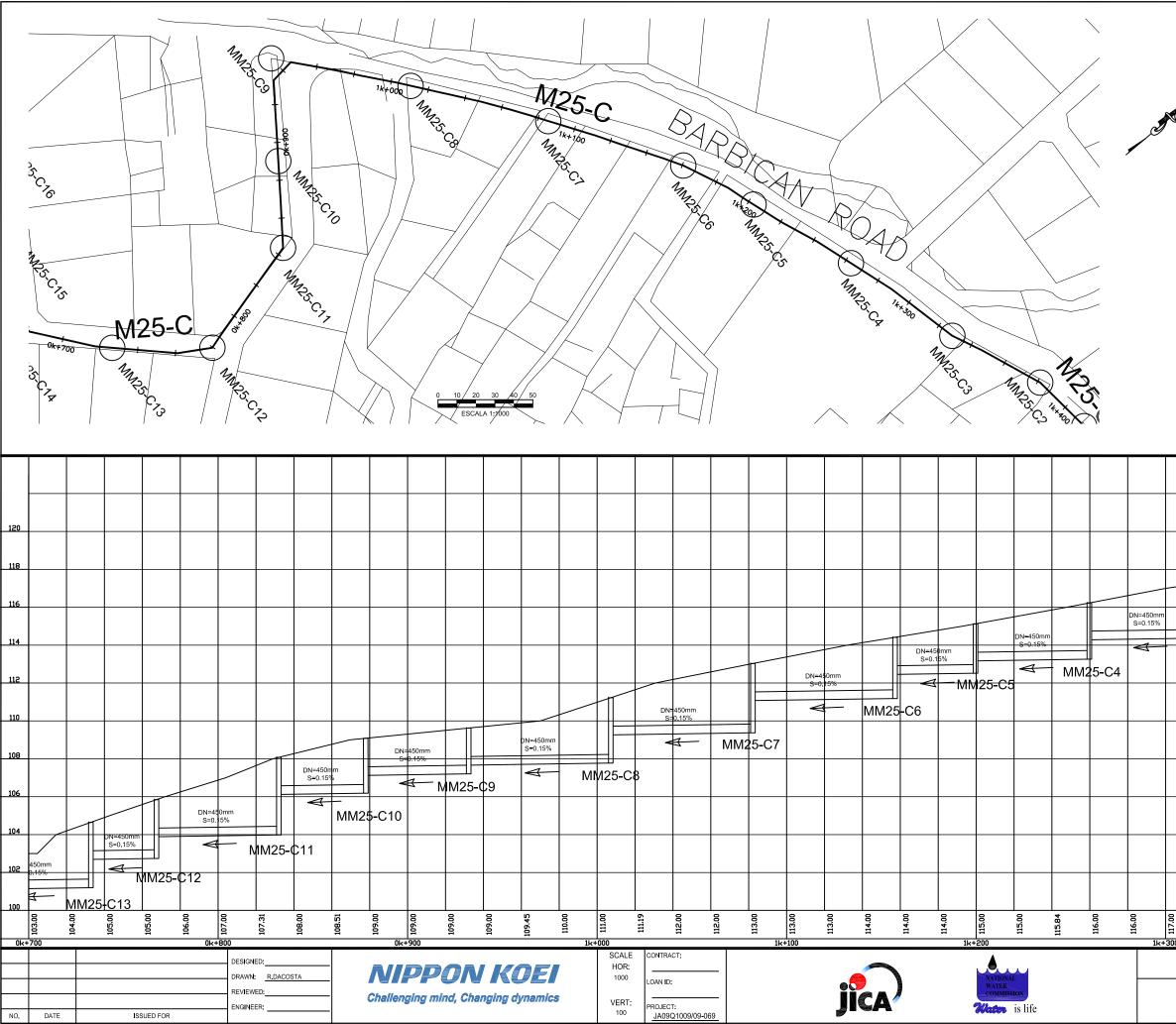




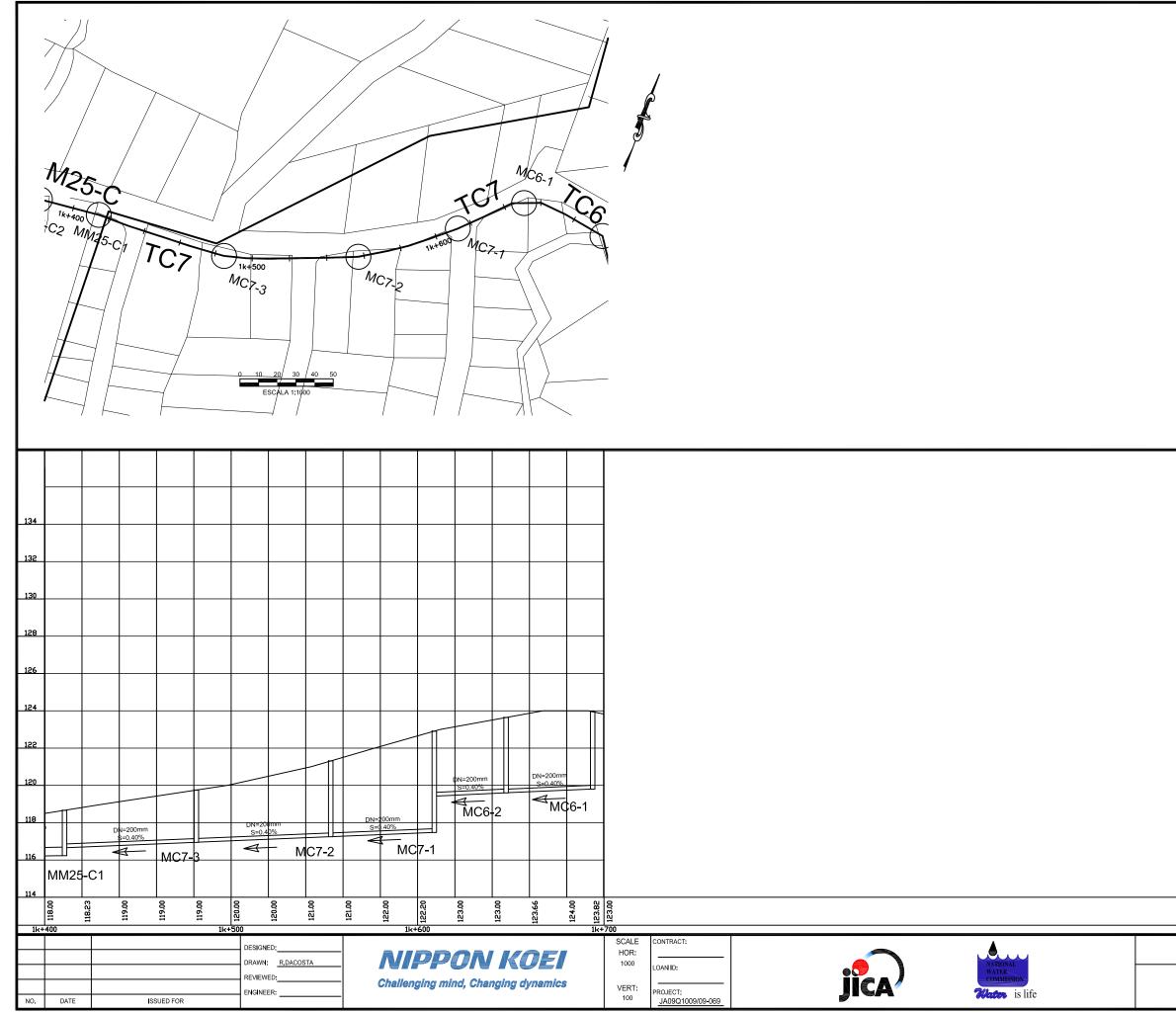




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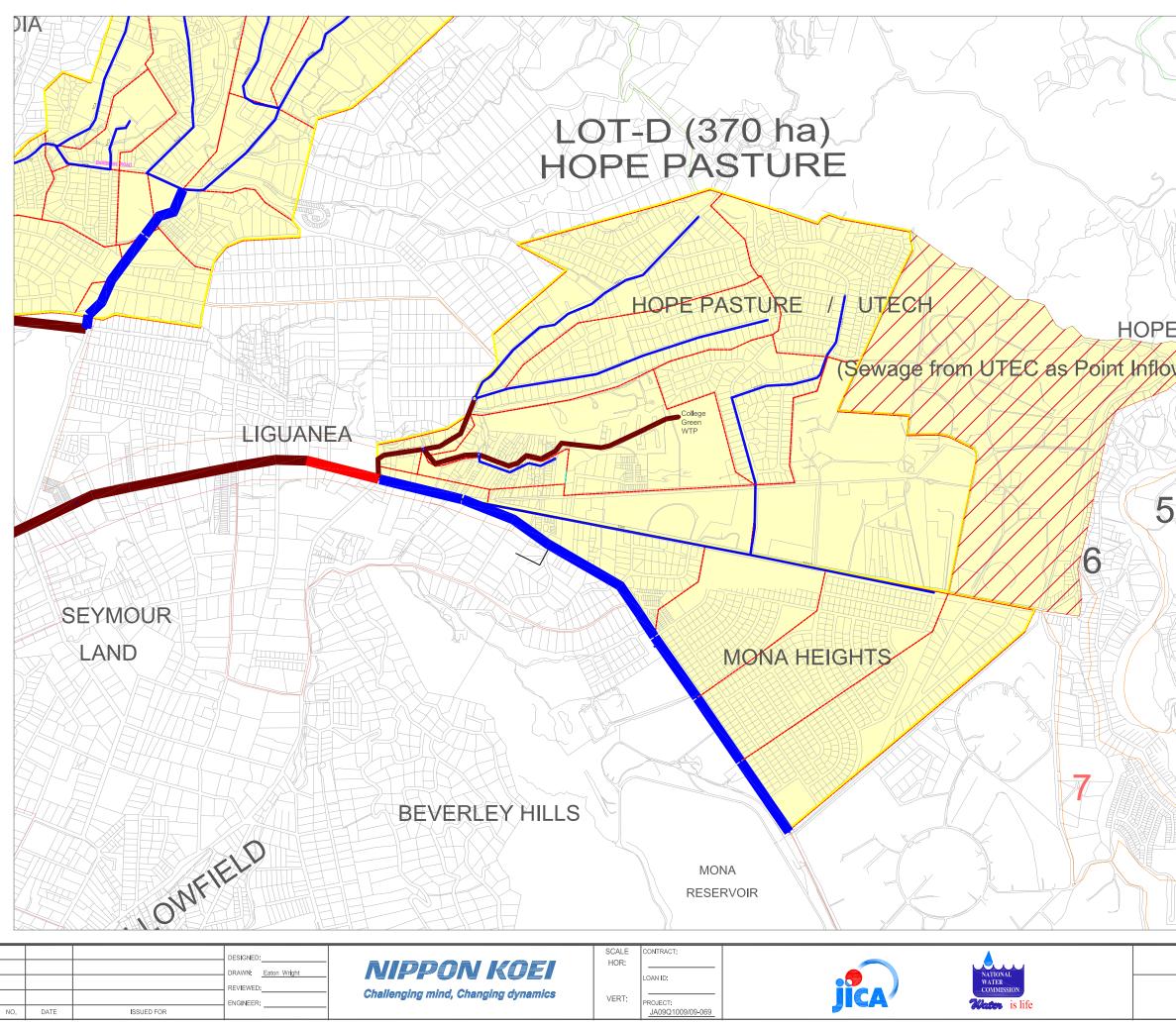


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				GN FOR L			SHT: OF
TRUNK SEWER TC6, TC7 AND M25-C EST. 0k + 700 @ 1k + 400							DWG: <u>C.M25-C.02</u>

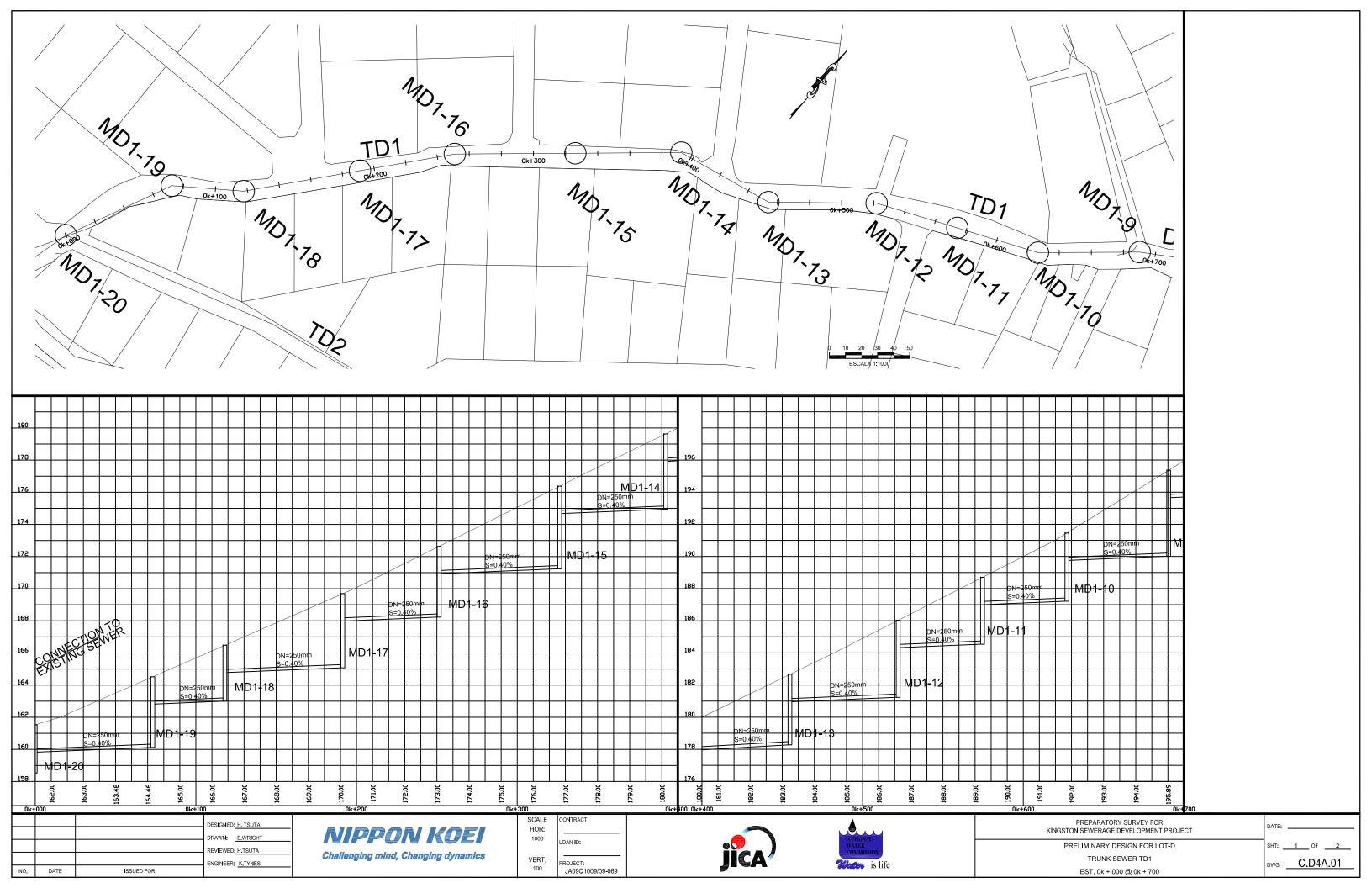


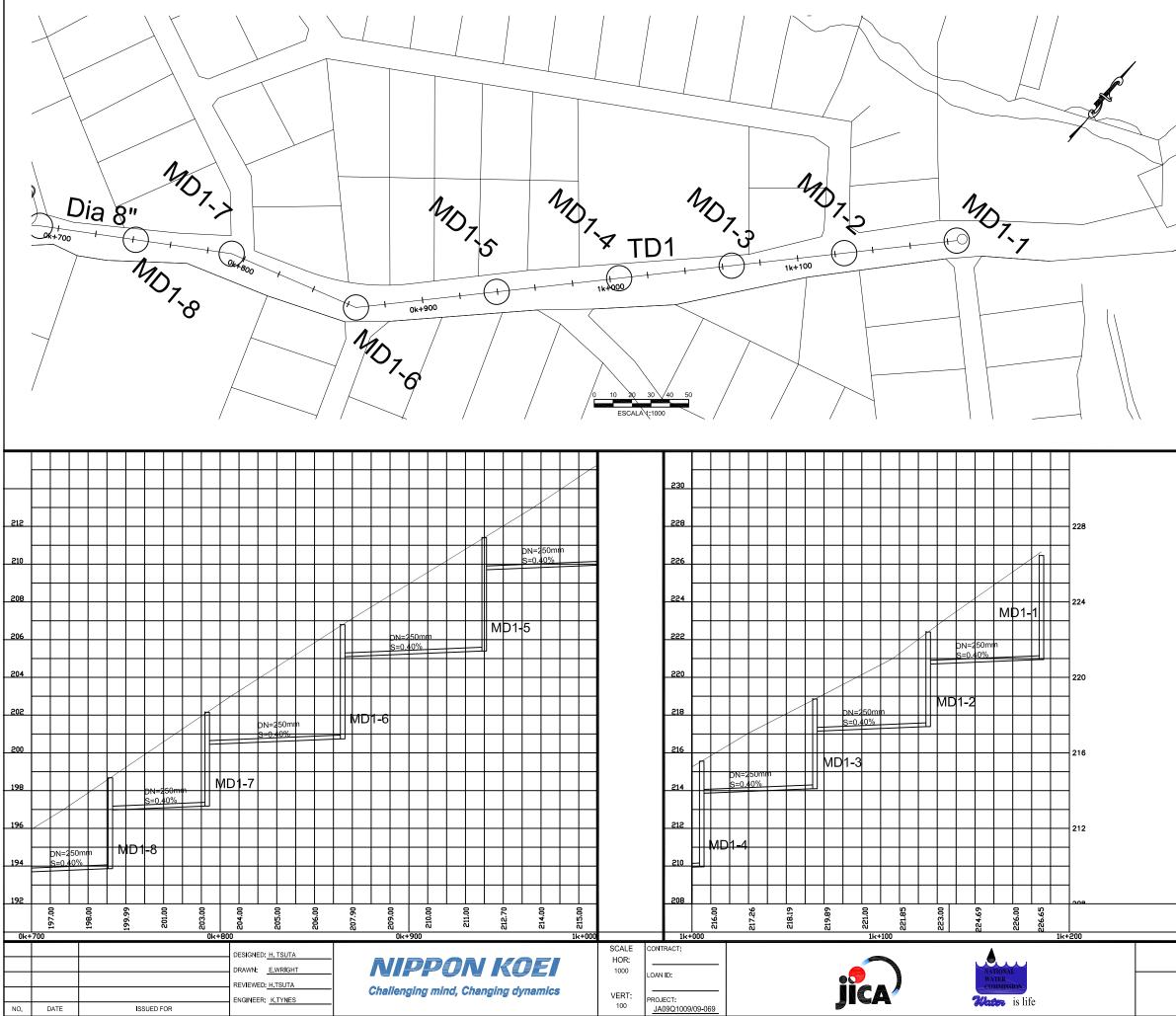
PREPARATORY SURVEY FOR		DATE
KINGSTON SEWERAGE DEVELOPMENT PROJE	СТ	DATE:
PRELIMINARY DESIGN FOR LOT-C		SHT: <u>3</u> OF <u>3</u>
TRUNK SEWER TC6, TC7 AND M25 EST. 1k + 400 @ 1k + 700		DWG: <u>C.M25-C.03</u>
EST. 1K + 400 @ 1K + 700		1

LOT – D (HOPE PASTUER)

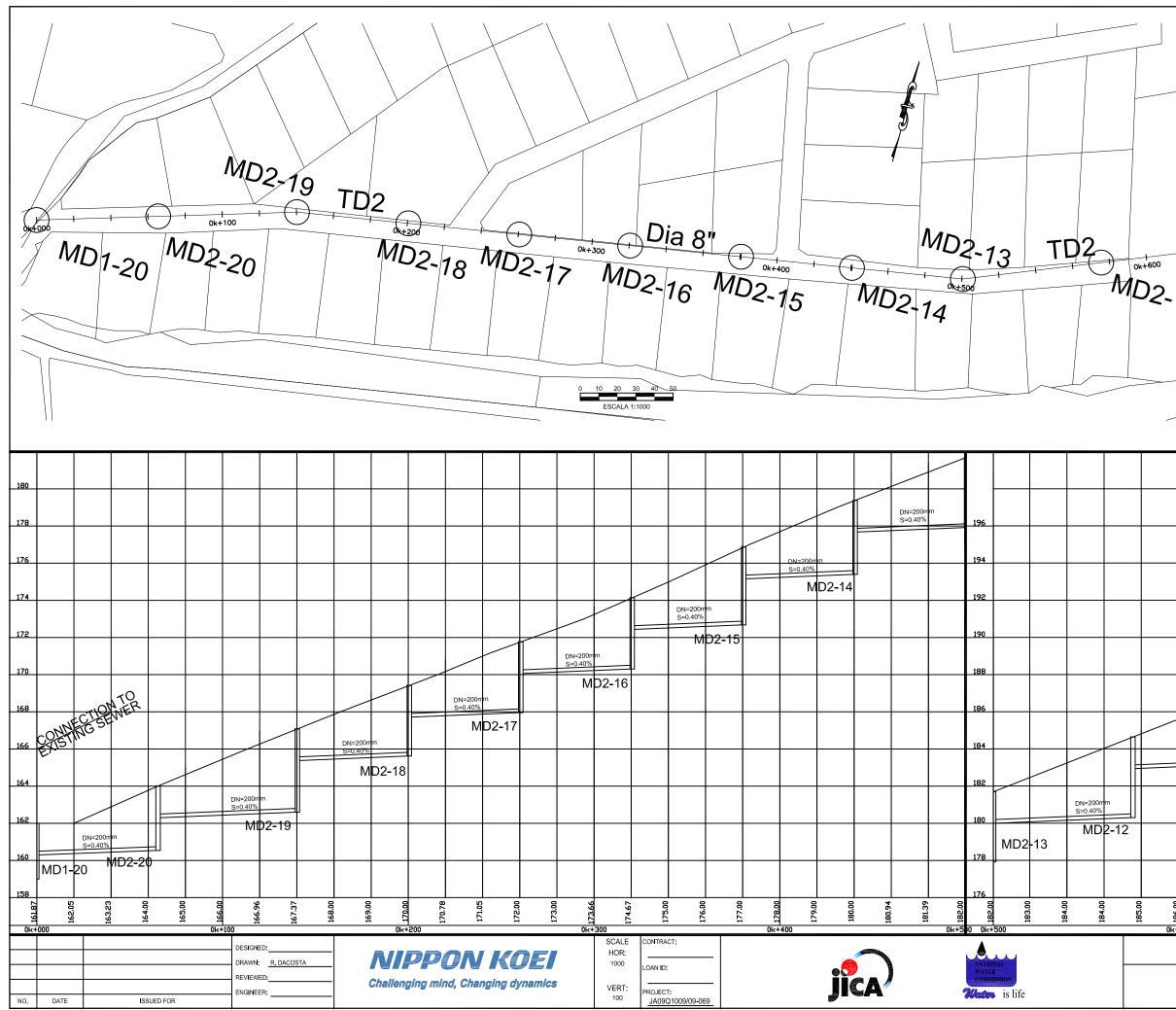


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- MC		
PAPINE		
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PRELIMINARY DESIGN FOR KSA		SHT: <u>1</u> OF <u>1</u>
SEWERAGE LAYPUT PLAN FOR LOT-D		DWG:GN.LD.01

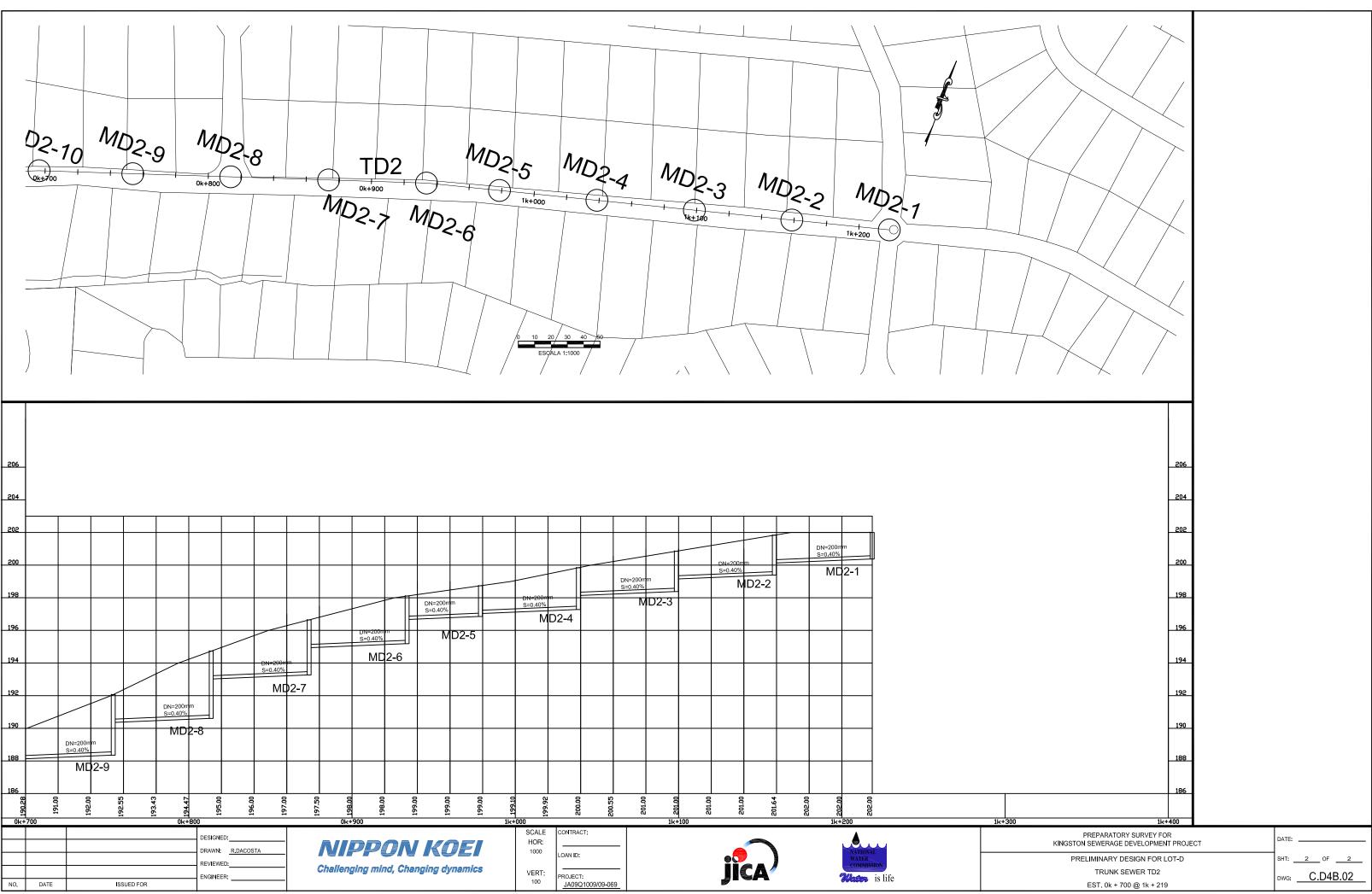




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1k+300 PREPARATORY SURVEY FOR KINGSTON SEWERAGE DEVELOPMENT PROJE	ст	DATE:
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PREPARATORY SURVEY FOR KINGSTON SEWERAGE DEVELOPMENT PROJE PRELIMINARY DESIGN FOR LOT-D	ст	SHT: OF
PREPARATORY SURVEY FOR KINGSTON SEWERAGE DEVELOPMENT PROJE	ст	

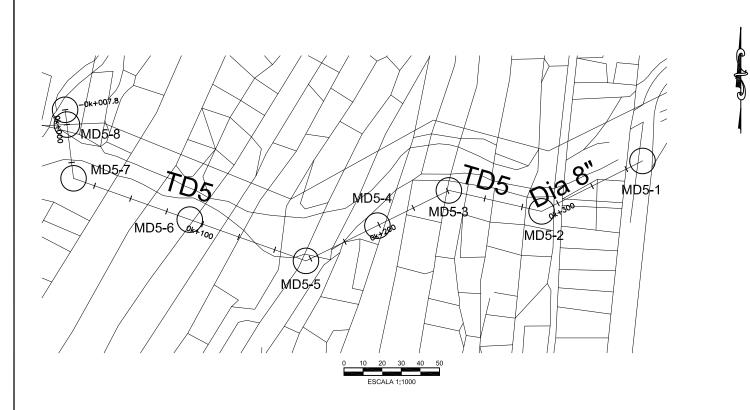


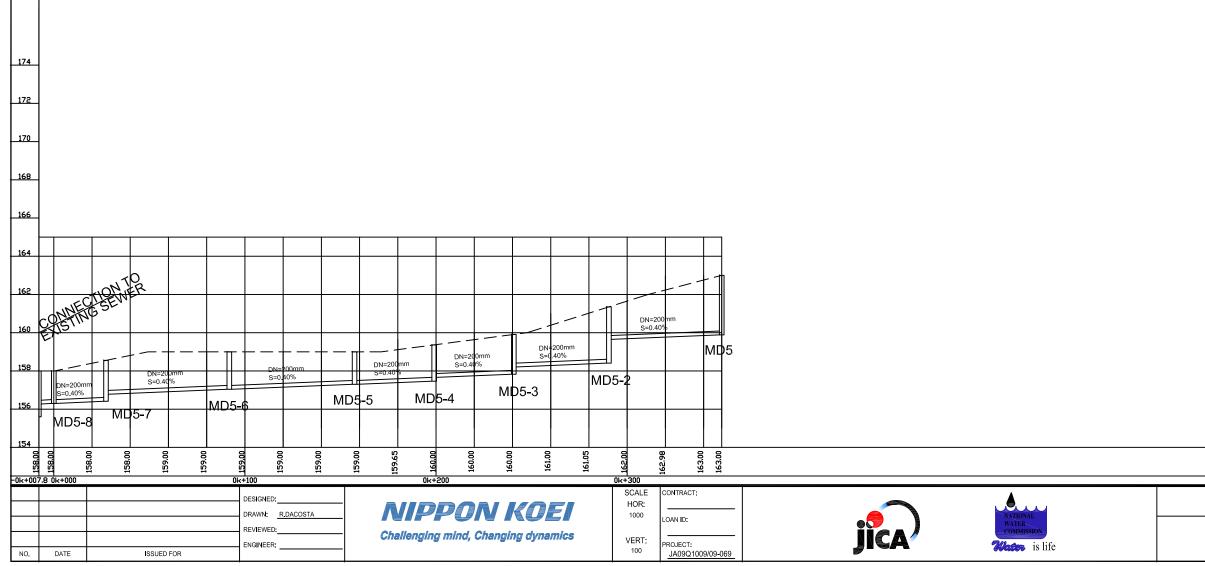
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~ 12		
	DN=200mm S=0.40% MD2-10	
MD2-11		
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	GE DEVELOPMENT PROJECT	DATE:
	Y DESIGN FOR LOT-D	SHT: <u>1</u> OF <u>2</u>
	K SEWER TD2 + 000 @ 0k + 700	DWG: <u>C.D4B.01</u>



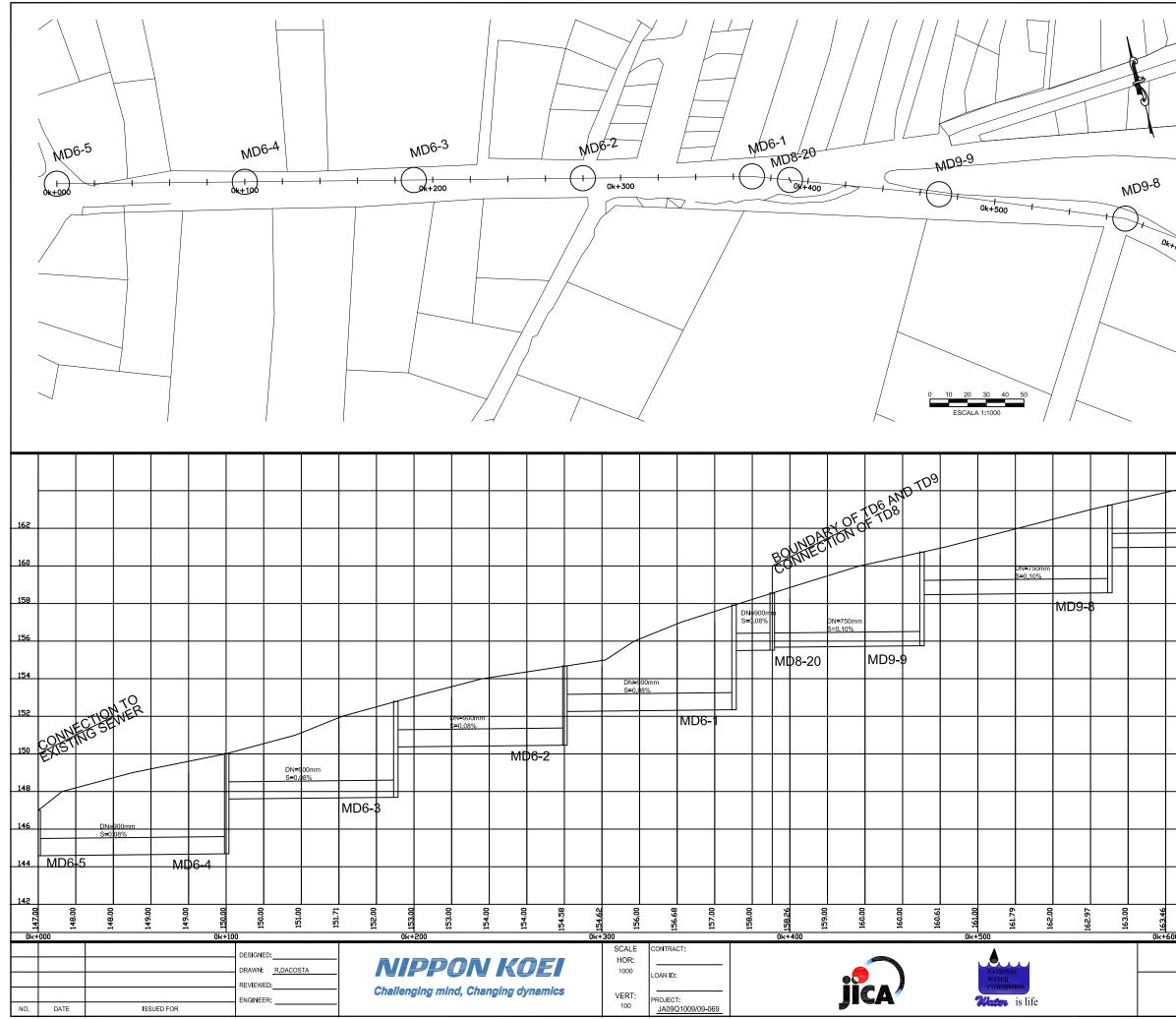
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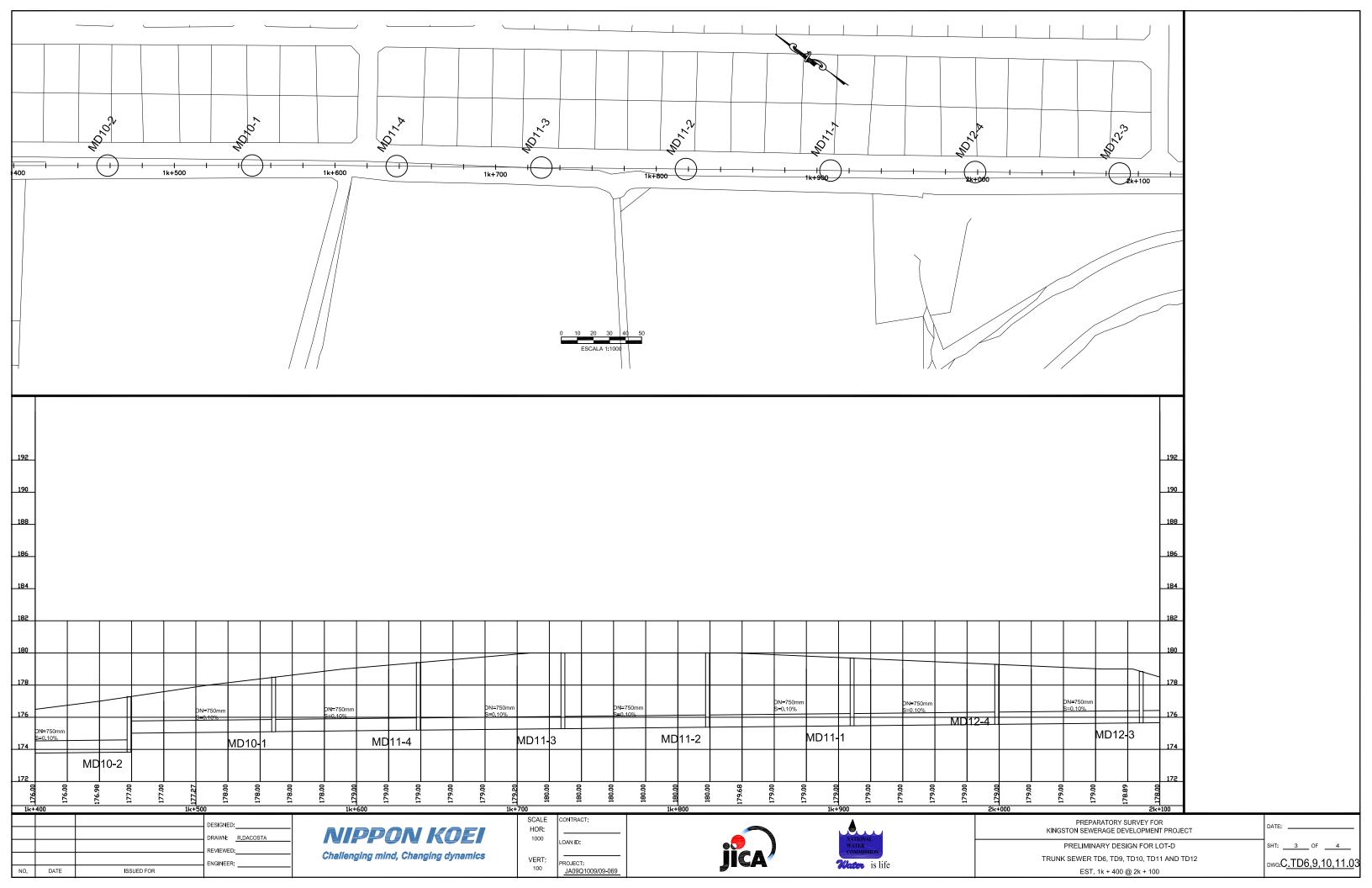


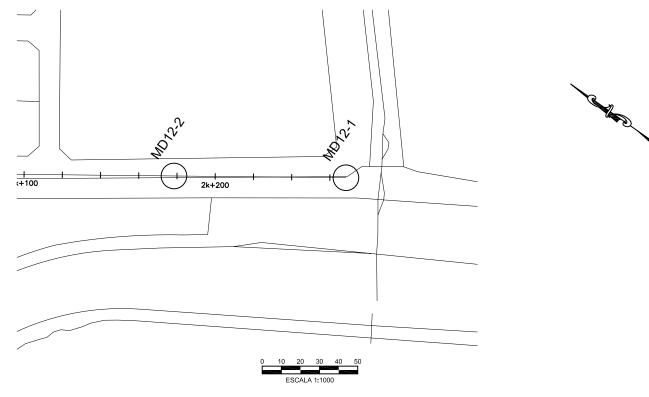
PREPARATORY SURVEY FOR KINGSTON SEWERAGE DEVELOPMENT PROJE	СТ	DATE:
PRELIMINARY DESIGN FOR LOT-D		SHT: <u>1</u> OF <u>1</u>
TRUNK SEWER TD5 EST. 0k + 000 @ 0k + 350		DWG: <u>C.TD5.01</u>

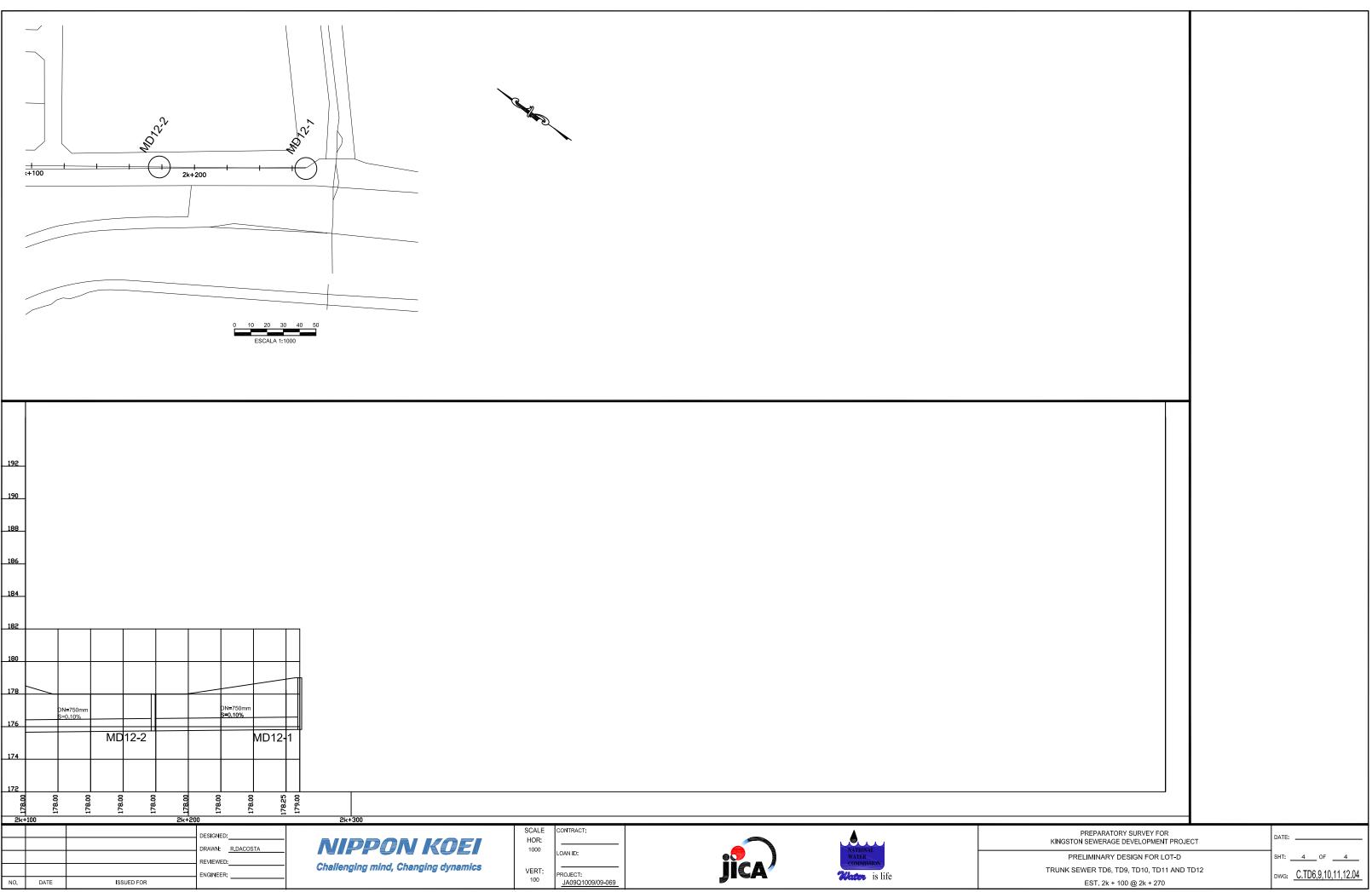


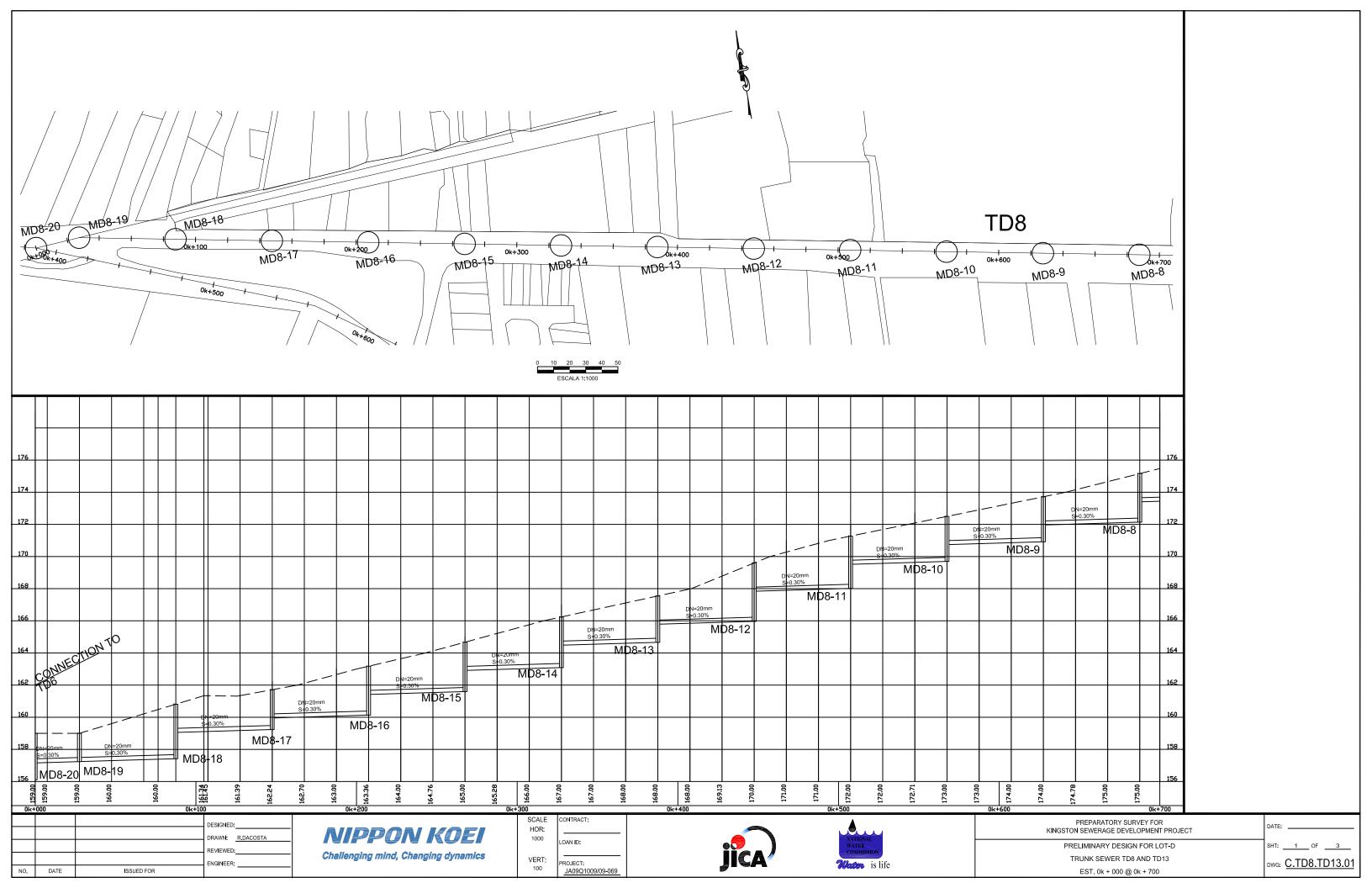
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		MD9-1	∐ 7		160		
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				IGN FOR L TD10, TD1		D12	SHT: <u>1</u> OF <u>4</u> DWG:C <u>.TD6,9,10,11.C</u>
		FST	0k + 000 (	@ 0k + 700		0.0.0.100,0,10,11.0	

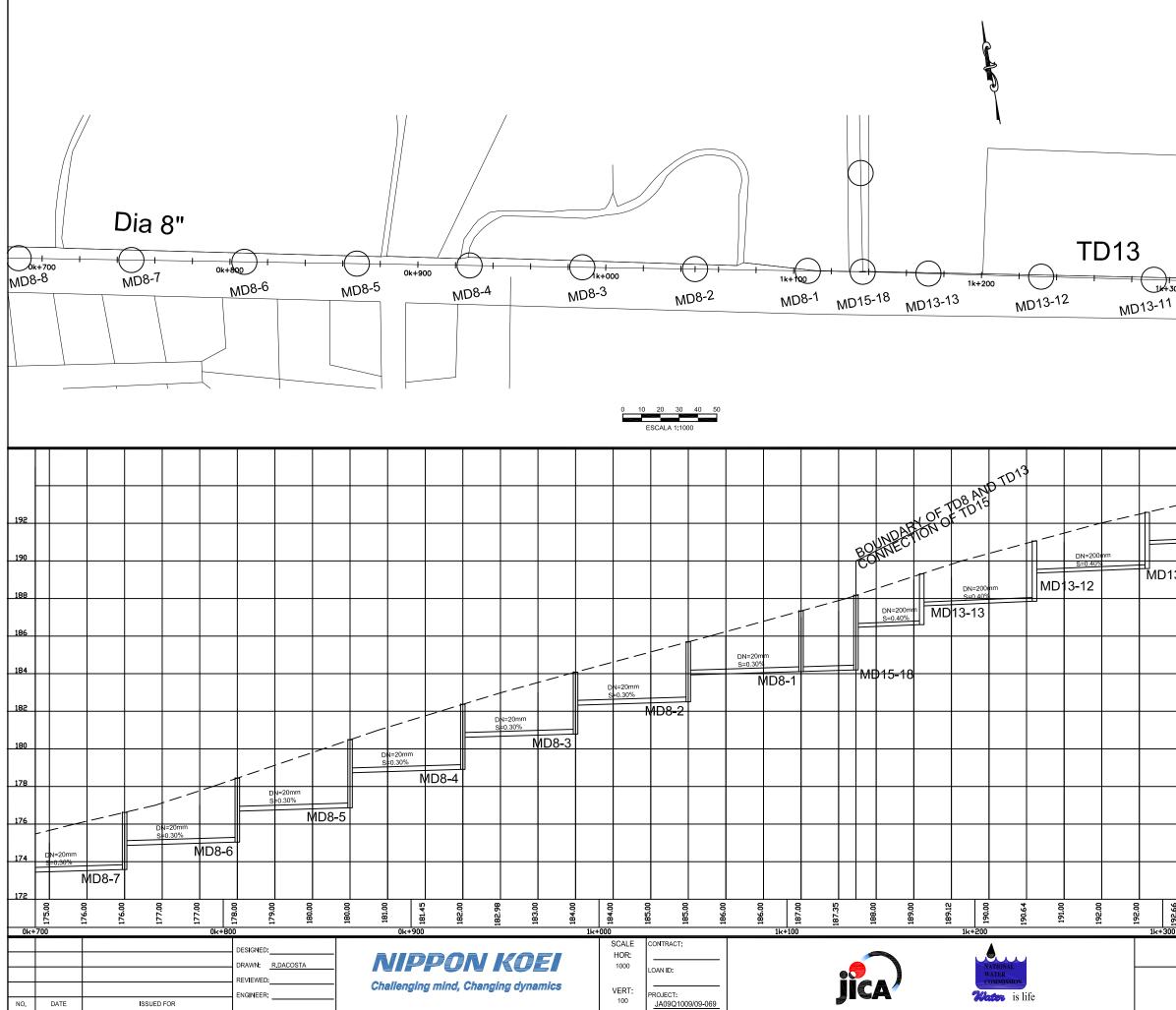
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			180	
			176	
		DN=750mm S=0.10%	DN-750mm 174	
		750mm	MD10-3 172	
170		MD9-2 MID9-1	170	
168         DN=750mm S=0.10%         DN=750mm S=0.10%           DN=750mm S=0.10%         MD9-4	DN=750mm S=0.10%		168	
166 MD9-4	MD9-3		166	
164 DN=750mm			164	
162 MD9-6				
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DESIGNED:DRAWN: R.DACOSTA	SCALE         CONTRACT:           HOR:	NATIONAL	PREPARATORY SURVEY FOR KINGSTON SEWERAGE DEVELOPMENT PROJECT	DATE:
NO.     DATE     ISSUED FOR	VERT: PROJECT: JA09Q1009/09-069	VATER COMMISSION Water is life	PRELIMINARY DESIGN FOR LOT-D TRUNK SEWER TD6, TD9, TD10, TD11 AND TD12 EST. 0k + 700 @ 1k + 400	SHT: <u>2</u> OF <u>4</u> DWG:C <u>.TD6,9,10,11.0</u> 2



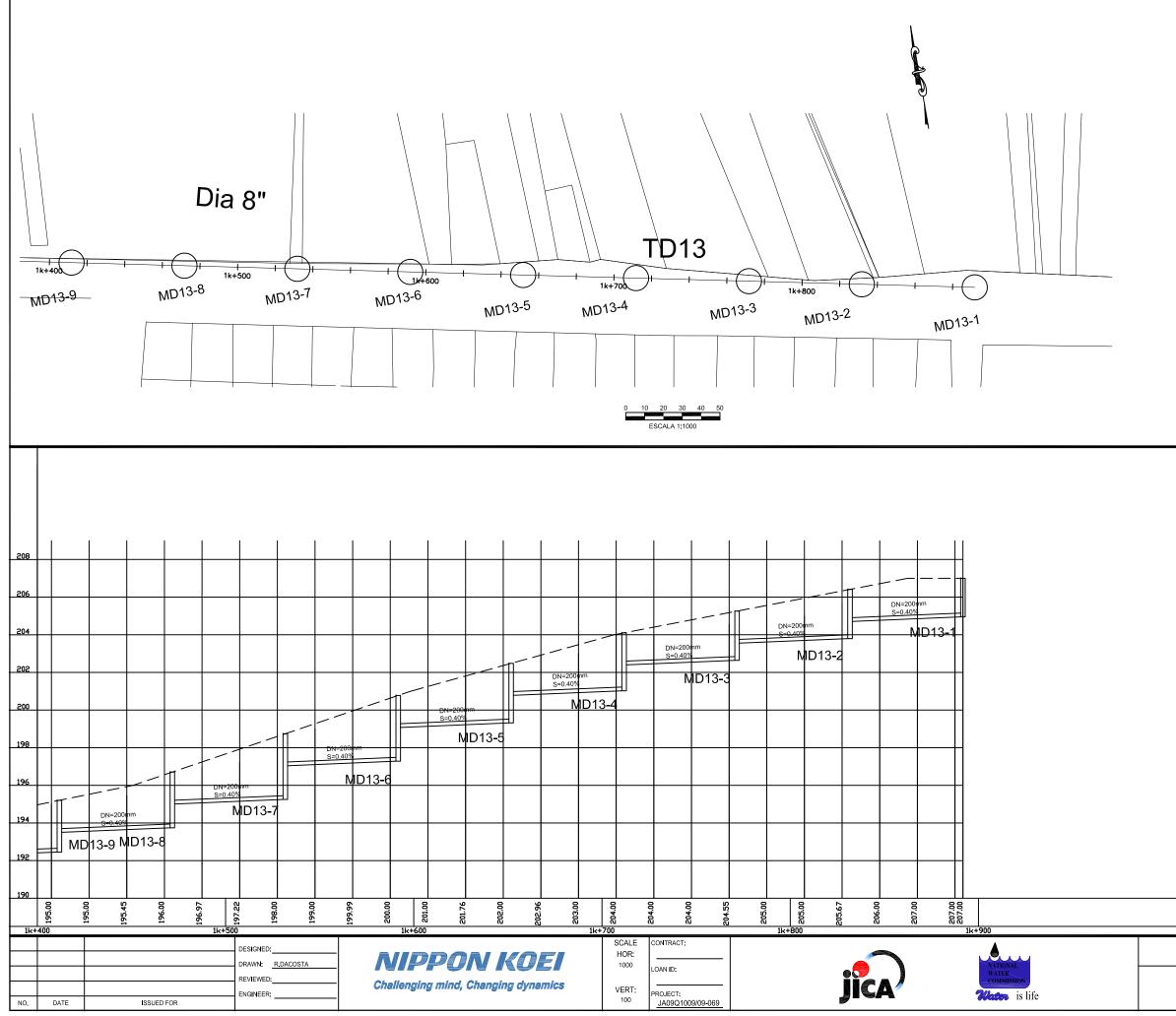




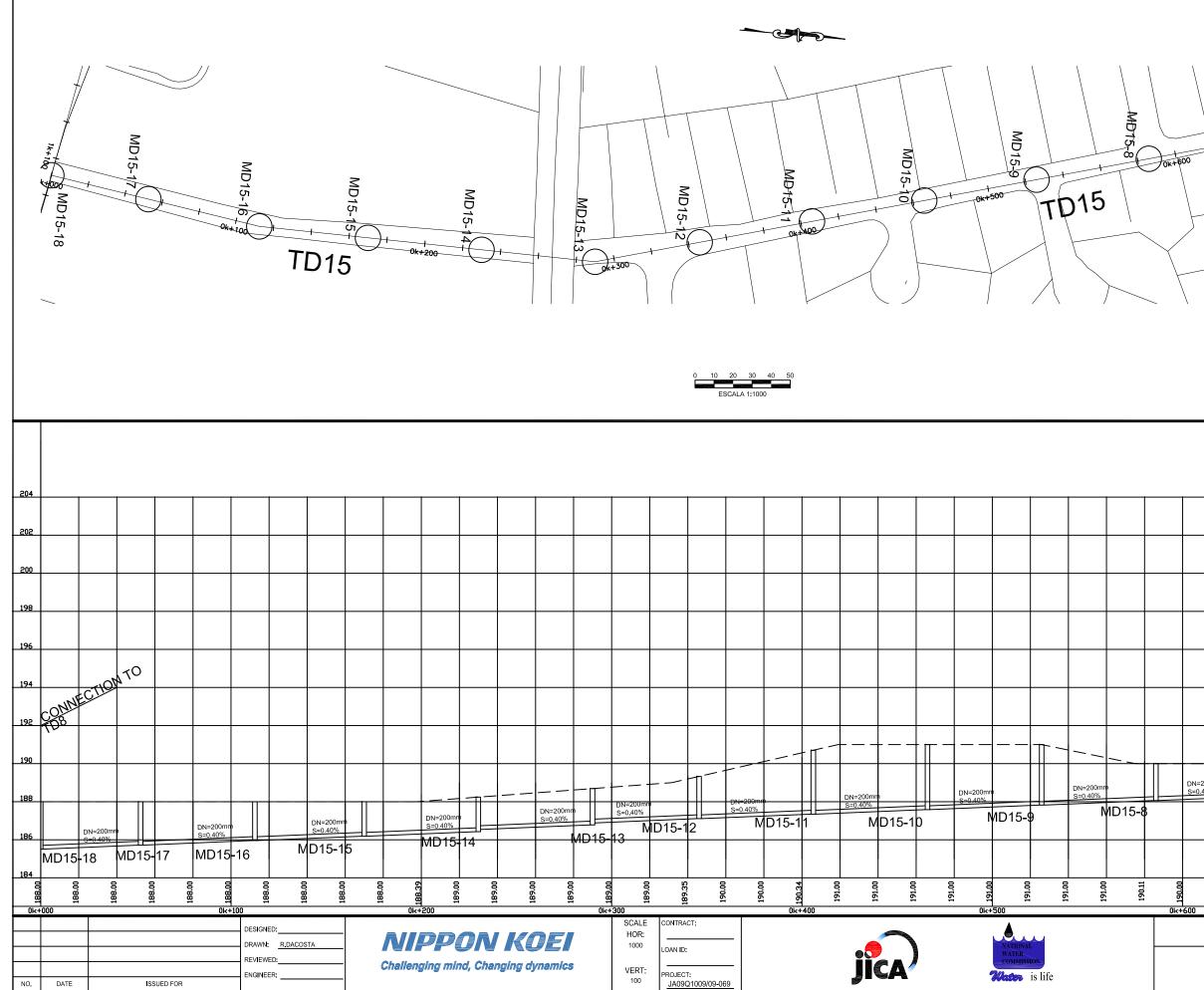




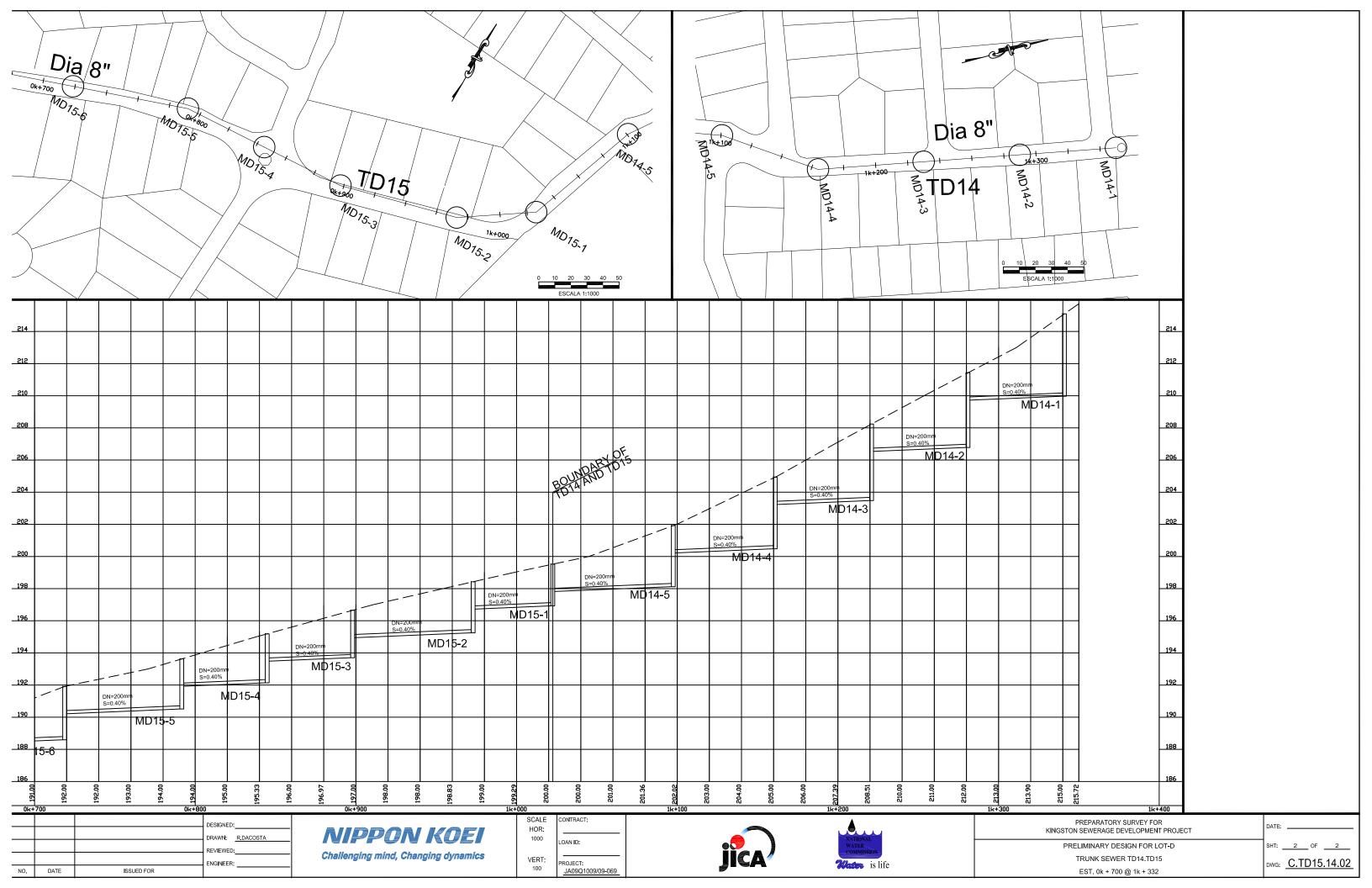
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o 192.66	193.00	KINGSTO	PREPARA N SEWERA ELIMINAR RUNK SE <sup>V</sup>	TORY SUF AGE DEVEI Y DESIGI	RVEY FO LOPMEN N FOR I 3 AND T	NT PROJE LOT-D D13



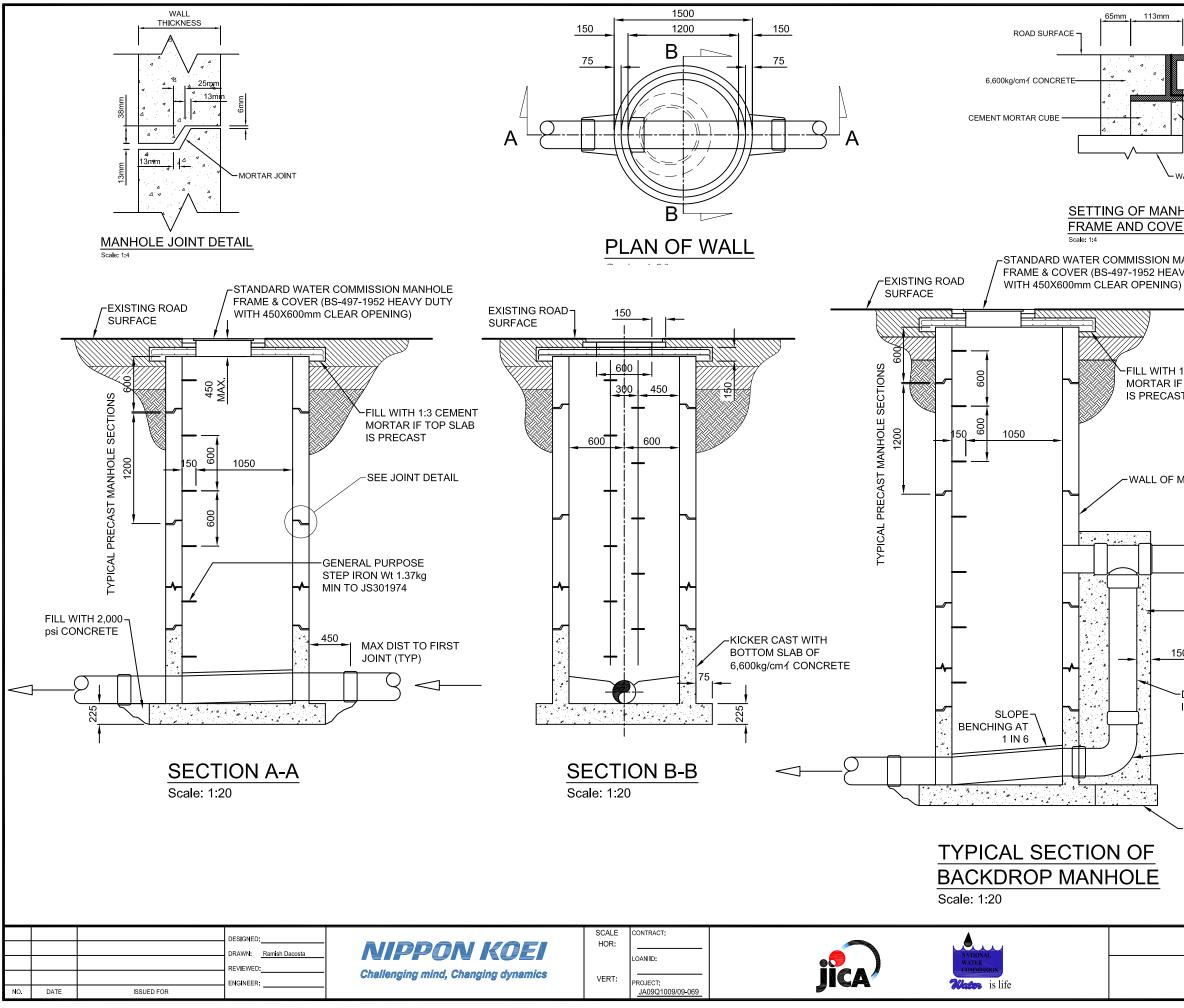
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	KINGSTON SEWERAGE DEVELOPMENT PROJE	ст	DATE:
	PRELIMINARY DESIGN FOR LOT-D		SHT: 3 OF 3
EST. 1k + 400 @ 1k + 892		DWG: <u>C.TD8.TD13.03</u>	



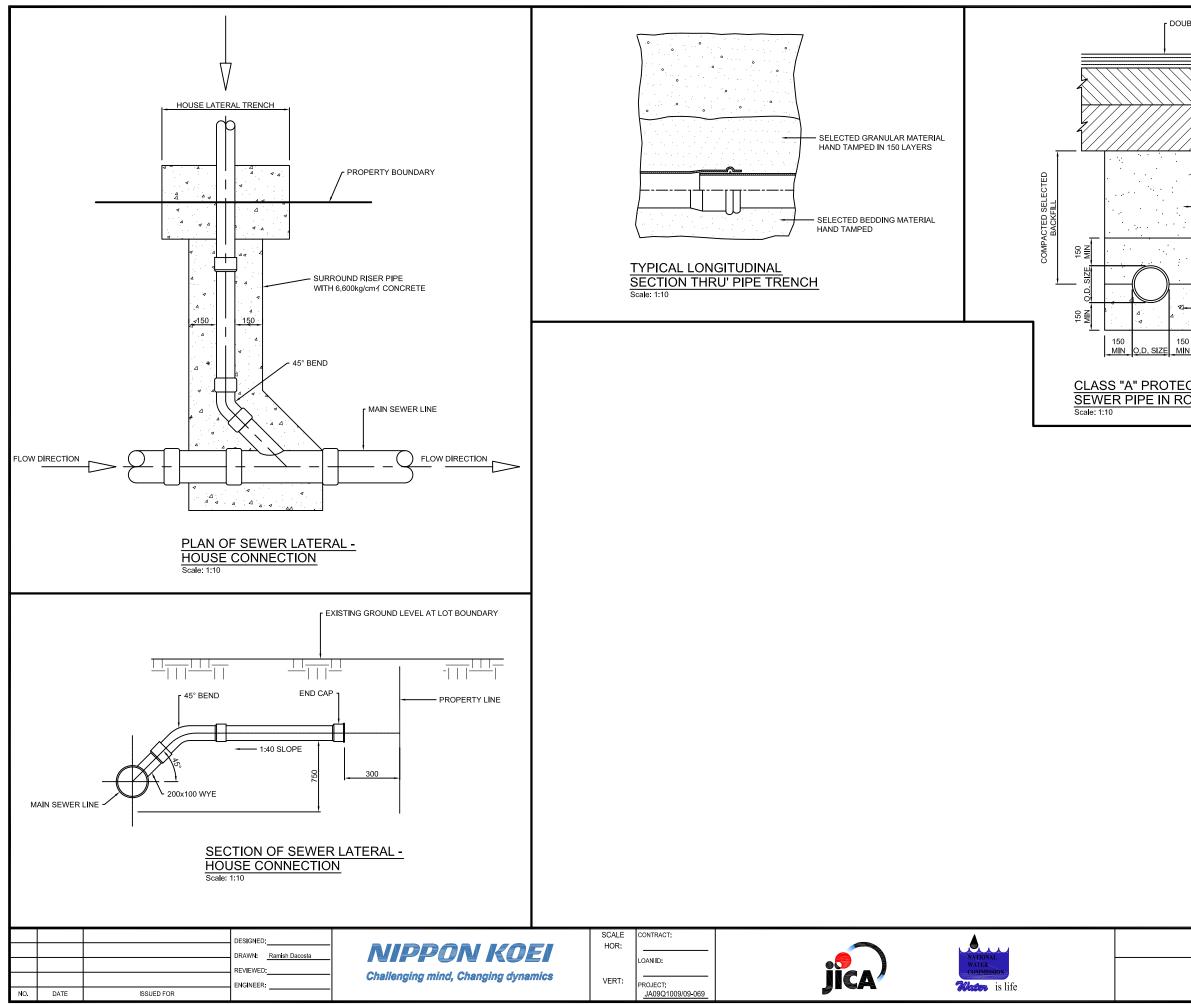
	MD15-7	0x+700 MD15-6	Dia 8"				
					204		
					202		
					200		
					198		
					196		
					194		
					192		
					190		
N=200mn 5=0.40%	1		DN=200mm S=0.40%				
	ИD15-	7		MD	188		
					186		
190.00	190.00	190.00	191.00	191.00	184		
о 190	190	190	191	440 191	700		1
	KING		RATORY SU			:CT	DATE:
			ARY DESI				SHT: <u>1</u> OF <u>2</u>
TRUNK SEWER TD14.TD15 EST. 0k + 000 @ 0k + 700							DWG: <u>C.TD15.14.01</u>



GENERAL STRUCTURES (TYPICAL DESIGN)



	r	
GREASE SEAL VALL OF MANHOLE		
ER IANHOLE VY DUTY )		
1:3 CEMENT F TOP SLAB BT		
MANHOLE		
—6,600kg/cm2 CONCRETE SURROUND 150mm MIN. 50_		
-DROP PIPE SAME SIZE AS INCOMING SEWER		
-FOR AC PIPE ONLY PAVE INVERT WITH GRANOLITIC RENDERING		
-BOTTOM SLAB OF MANHOLE		
PREPARATORY SURVEY FOR KINGSTON SEWERAGE DEVELOPMENT PROJE	ECT	DATE:
PRELIMINARY DESIGN TYPICAL SEWERAGE STRUCTURS MANHOLE, COVER AND BACKDROP		SHT: <u>1</u> OF <u>2</u> DWG: <u>TSD-GEN</u>



BLE SURFACE DRESSING		
200mm (MIN) CRUSHED		
LIMESTONE BASE CBR > 80%		
. 250mm LIMESTONE SUB-BASE . CBR > 30%		
· . • SELECTED EXCAVATED		
MATERIAL HAND TAMPERED		
<u>.</u>		
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CTION FOR DAD		
PREPARATORY SURVEY FOR KINGSTON SEWERAGE DEVELOPMENT PROJE	СТ	DATE:
PRELIMINARY DESIGN TYPICAL SEWERAGE STRUCTURES		SHT: <u>2</u> OF <u>2</u> DWG: <u>TSS-GEN</u>
LATERAL, TRENCH		

## PORTMORE SCHEME

	DWG. NO.	LIST OF DR/		DWG. NO.	TITLE
	G.A0.01	PORTMORE ALTERNATIVE A – PUMPED SOLUTION OVERALL SCHEME PLAN		C.A5.10	PORTMORE ALTERNATIVE A – PUMPED SOLUTION GE
- 1	G.A0.01		24	0.70.10	STATION 6k + 300 @ 6k + 600
2	C.A1.01	PORTMORE ALTERNATIVE A – PUMPED SOLUTION	25	C.A6.01	PORTMORE ALTERNATIVE A & B RIO COBRE CROSSI
2	0.7(1.01	INDEPENDENCE CITY PUMP STATION CIVIL SITE PLAN	20	0.710.01	PLAN AND ELEVATION
3	M.A1.01	PORTMORE ALTERNATIVE A – PUMPED SOLUTION	26	GB0.01	PORTMORE ALTERNATIVE B - GRAVITY SOLUTION O
Ū		INDEPENDENCE CITY PUMP STATION MECHANICAL PLANS		GD0.01	
4	M.A1.02	PORTMORE ALTERNATIVE A – PUMPED SOLUTION	27	C.B1.01	PORTMORE ALTERNATIVE B - GRAVITY SOLUTION
		INDEPENDENCE CITY PUMP STATION MECHANICAL SECTION			CAYMANAS GARDENS PUMP STATION CIVIL SITE PLA
5	A.A1.01	PORTMORE ALTERNATIVE A – PUMPED SOLUTION	28	M.B1.01	PORTMORE ALTERNATIVE B – GRAVITY SOLUTION
		INDEPENDENCE CITY PUMP STATION ARCHITECTURAL ELEVATIONS			CAYMANAS GARDENS PUMP STATION MECHANICAL F
6	C.A2.01	PORTMORE ALTERNATIVE A – PUMPED SOLUTION	29	M.B1.02	PORTMORE ALTERNATIVE B - GRAVITY SOLUTION
		BRIDGEPORT PUMP STATION CIVIL SITE PLAN			CAYMANAS GARDENS PUMP STATION TRANSVERSE
7	M.A2.01	PORTMORE ALTERNATIVE A – PUMPED SOLUTION	30	M.B1.03	PORTMORE ALTERNATIVE B - GRAVITY SOLUTION
		BRIDGEPORT PUMP STATION MECHANICAL PLANS			CAYMANAS GARDENS PUMP STATION LONGITUDINAL
8	M.A2.02	PORTMORE ALTERNATIVE A – PUMPED SOLUTION	31	A.B1.01	PORTMORE ALTERNATIVE B - GRAVITY SOLUTION
_		BRIDGEPORT PUMP STATION MECHANICAL SECTION			CAYMANAS GARDENS PUMP STATION ARCHITECTUR
9	A.A2.01	PORTMORE ALTERNATIVE A – PUMPED SOLUTION	32	C.B2.01	PORTMORE ALTERNATIVE B - GRAVITY SOLUTION G
		BRIDGEPORT PUMP STATION ARCHITECTURAL ELEVATION			STATION 0k + 000 @ 0k + 700
10	C.B1.01	PORTMORE ALTERNATIVE A – PUMPED SOLUTION	33	C.B2.02	PORTMORE ALTERNATIVE B - GRAVITY SOLUTION G
		CAYMANAS GARDENS PUMP STATION CIVIL SITE PLAN			STATION 0k + 700 @ 1k + 400
11	M.A2.02	ALTERNATIVE A RELOCATED BRIDGEPORT PUMP STATION PLAN	34	C.B2.03	PORTMORE ALTERNATIVE B - GRAVITY SOLUTION G
					STATION 1k + 400 @ 2k + 100
12	M.A2.03	ALTERNATIVE A RELOCATED BRIDGEPORT PUMP STATION PLAN	35	C.B2.04	PORTMORE ALTERNATIVE B - GRAVITY SOLUTION G
					STATION 2k + 100 @ 2k + 800
13	A.A3.01	PORTMORE ALTERNATIVE A – PUMPED SOLUTION	36	C.B2.05	PORTMORE ALTERNATIVE B - GRAVITY SOLUTION G
		CAYMANAS GARDENS PUMP STATION ARCHITECTURAL ELEVATIONS			STATION 2k + 800 @ 3k + 500
14	C.A4.01	PORTMORE ALTERNATIVE A – PUMPED SOLUTION	37	C.B2.06	PORTMORE ALTERNATIVE B - GRAVITY SOLUTION G
		HAMILTON GARDENS PUMP STATION AND FORCE MAIN CIVIL PLAN			STATION 3k + 500 @ 4k + 200
15	C.A5.01	PORTMORE ALTERNATIVE A - PUMPED SOLUTION GENERALIZED PLAN & PROFILE	38	C.B2.07	PORTMORE ALTERNATIVE B - GRAVITY SOLUTION G
		STATION 0k + 000 @ 0k + 700			STATION 4k + 200 @ 4k + 900
16	C.A5.02	PORTMORE ALTERNATIVE A - PUMPED SOLUTION GENERALIZED PLAN & PROFILE	39	C.B2.08	PORTMORE ALTERNATIVE B - GRAVITY SOLUTION G
		STATION 7k + 000 @ 1k + 400			STATION 4k + 900 @ 5k + 600
17	C.A5.03	PORTMORE ALTERNATIVE A - PUMPED SOLUTION GENERALIZED PLAN & PROFILE	40	C.B2.09	PORTMORE ALTERNATIVE B - GRAVITY SOLUTION G
		STATION 1k + 400 @ 2k + 100			STATION 5k + 600 @ 6k + 300
18	C.A5.04	PORTMORE ALTERNATIVE A - PUMPED SOLUTION GENERALIZED PLAN & PROFILE	41	C.B2.09	PORTMORE ALTERNATIVE B - GRAVITY SOLUTION G
		STATION 2k + 100 @ 2k + 800			STATION 6k + 300 @ 6k + 715
19	C.A5.05	PORTMORE ALTERNATIVE A - PUMPED SOLUTION GENERALIZED PLAN & PROFILE			
		STATION 2k + 800 @ 3k + 500			
20	C.A5.06	PORTMORE ALTERNATIVE A - PUMPED SOLUTION GENERALIZED PLAN & PROFILE			
		STATION 3k + 500 @ 4k + 200			
21	C.A5.07	PORTMORE ALTERNATIVE A - PUMPED SOLUTION GENERALIZED PLAN & PROFILE			
		STATION 4k + 200 @ 4k + 900			
22	C.A5.08	PORTMORE ALTERNATIVE A - PUMPED SOLUTION GENERALIZED PLAN & PROFILE			
		STATION 4k + 900 @ 5k + 600			
23	C.A5.09	PORTMORE ALTERNATIVE A - PUMPED SOLUTION GENERALIZED PLAN & PROFILE			
		STATION 5k + 600 @ 6k + 300			

GENERALIZED PLAN & PROFILE

Sing Pipe Bridge

OVERALL SCHEME PLAN

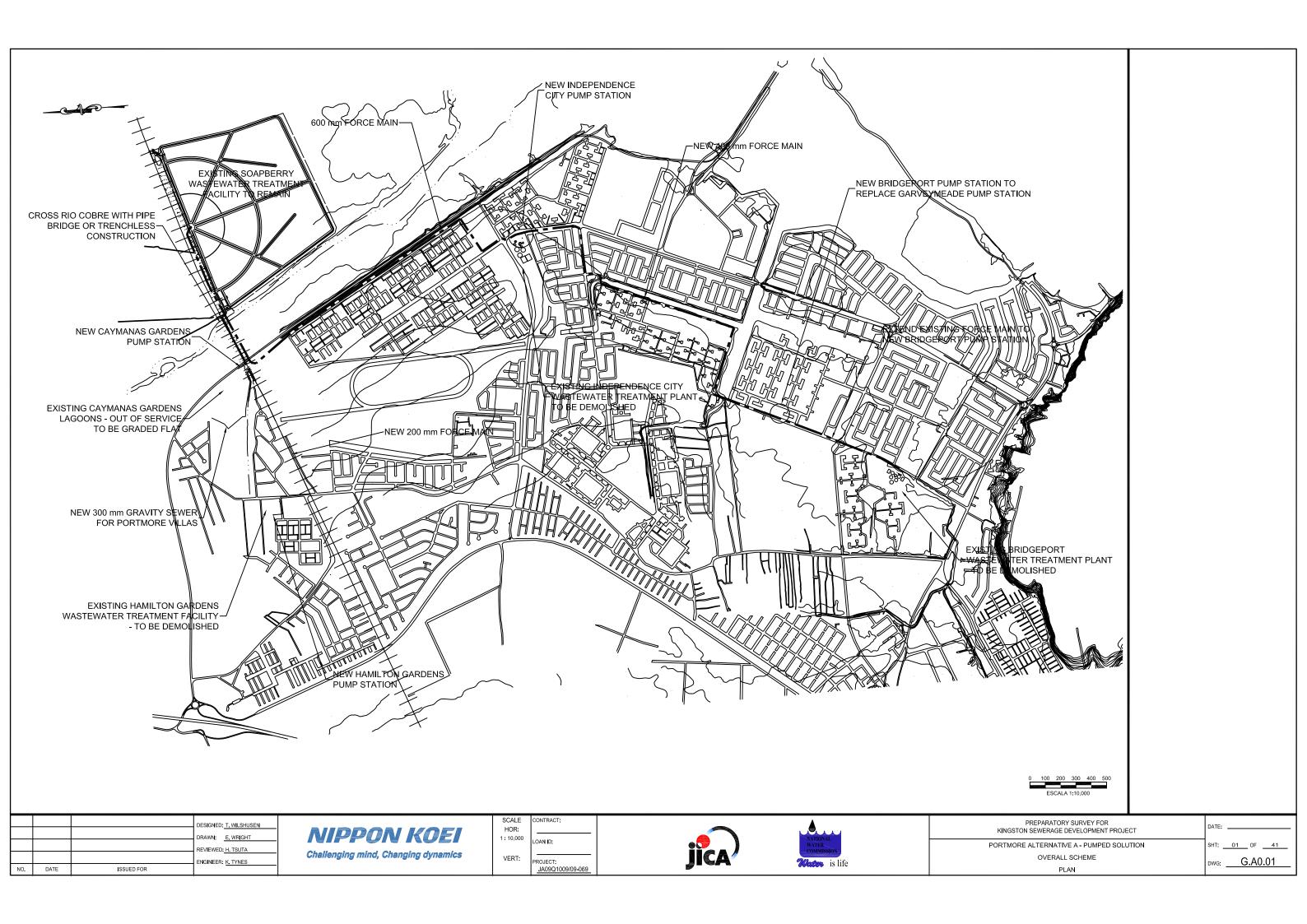
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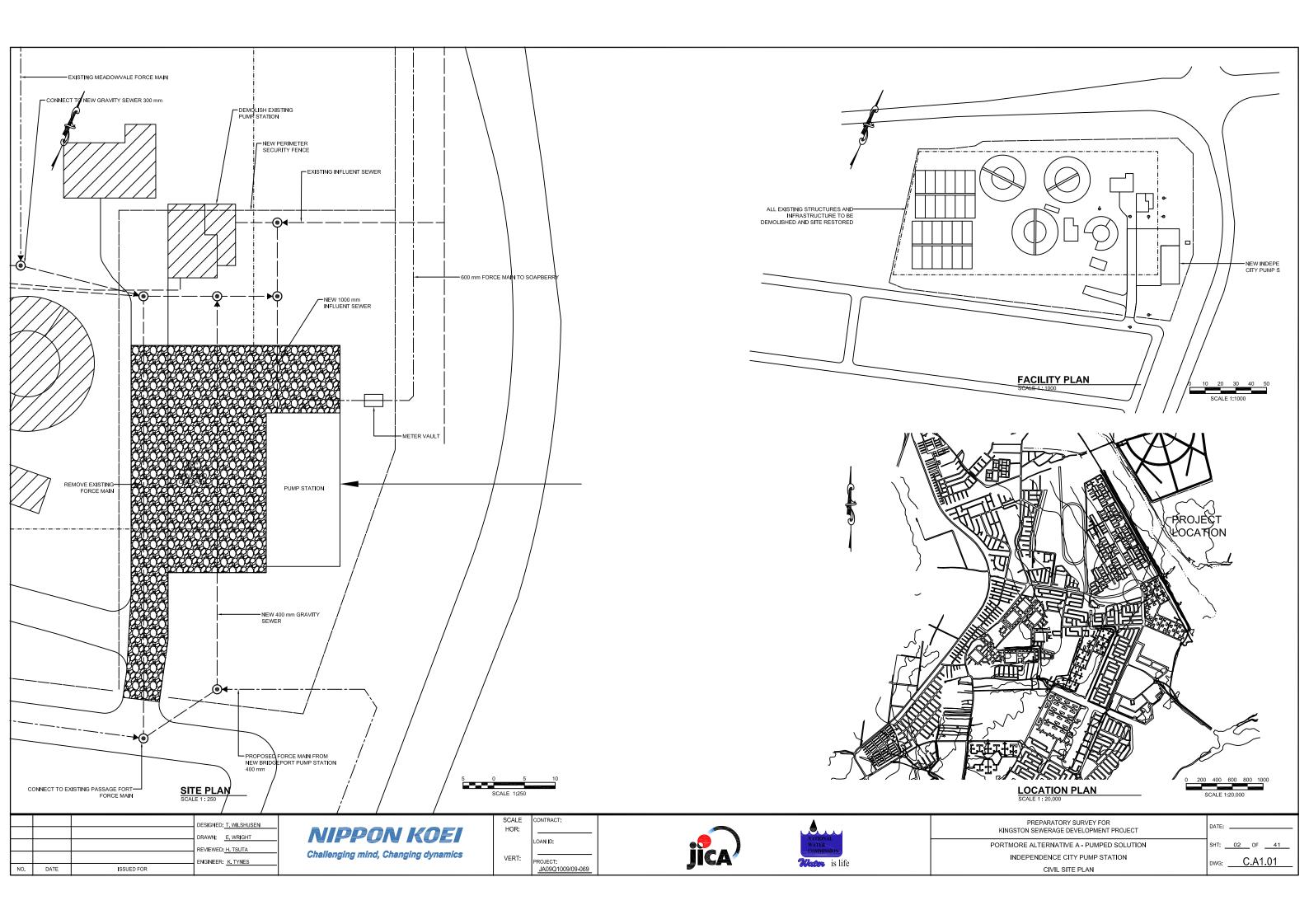
PLANS

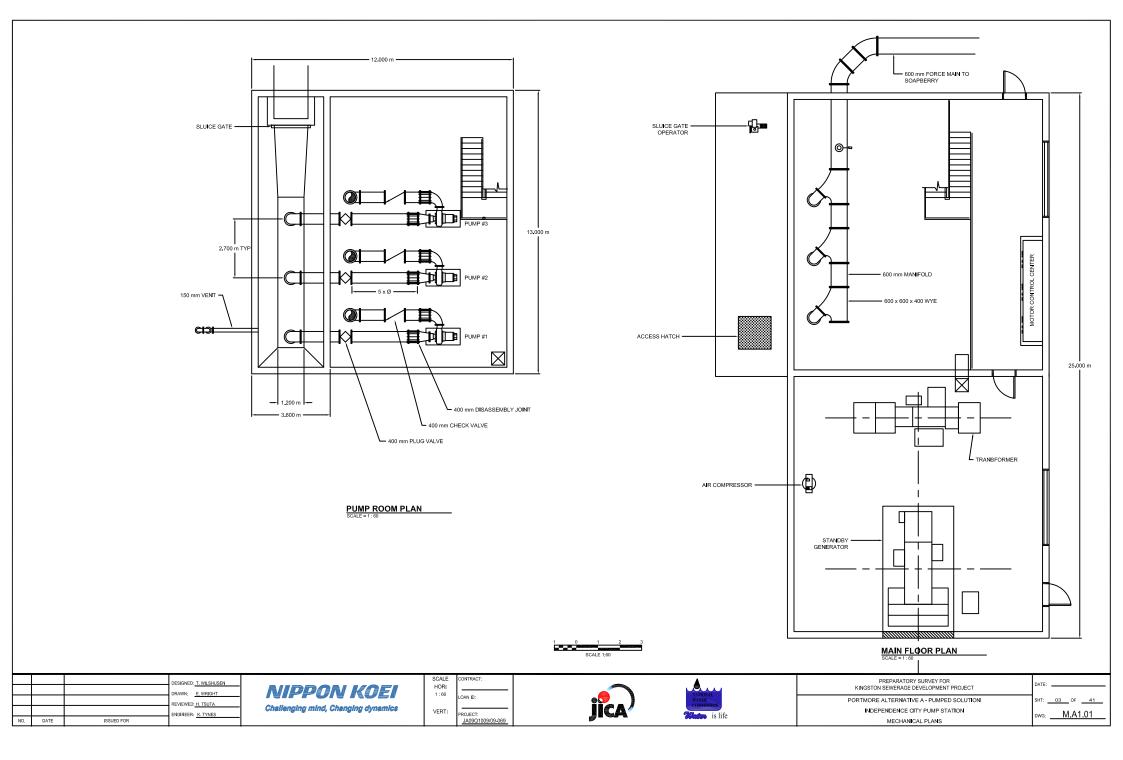
SECTIONS

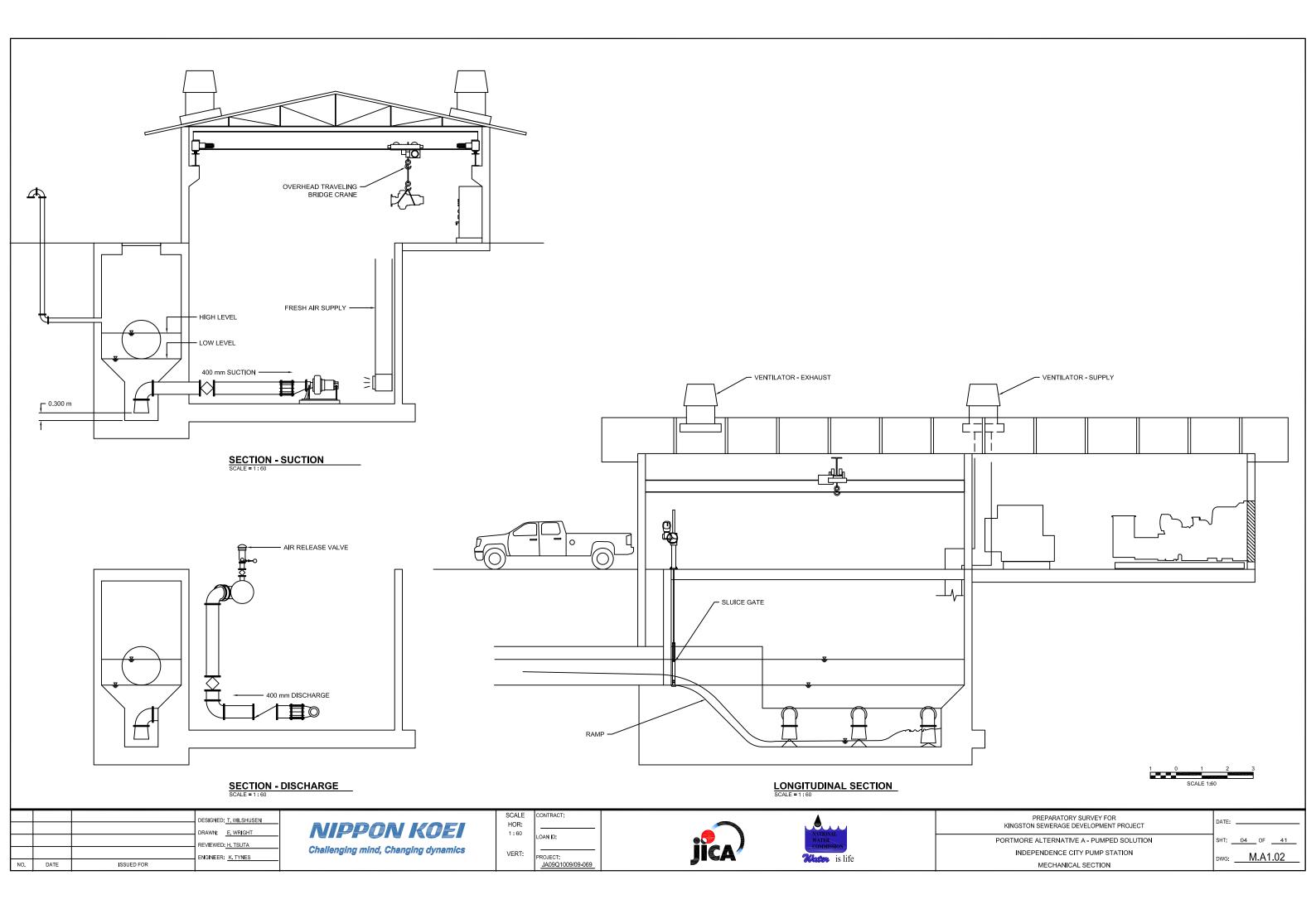
AL SECTION

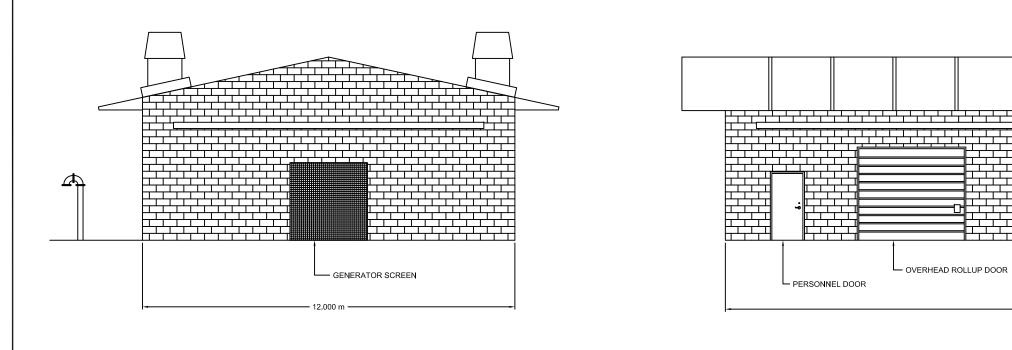
JRAL ELEVATIONS GENERALIZED PLAN & PROFILE



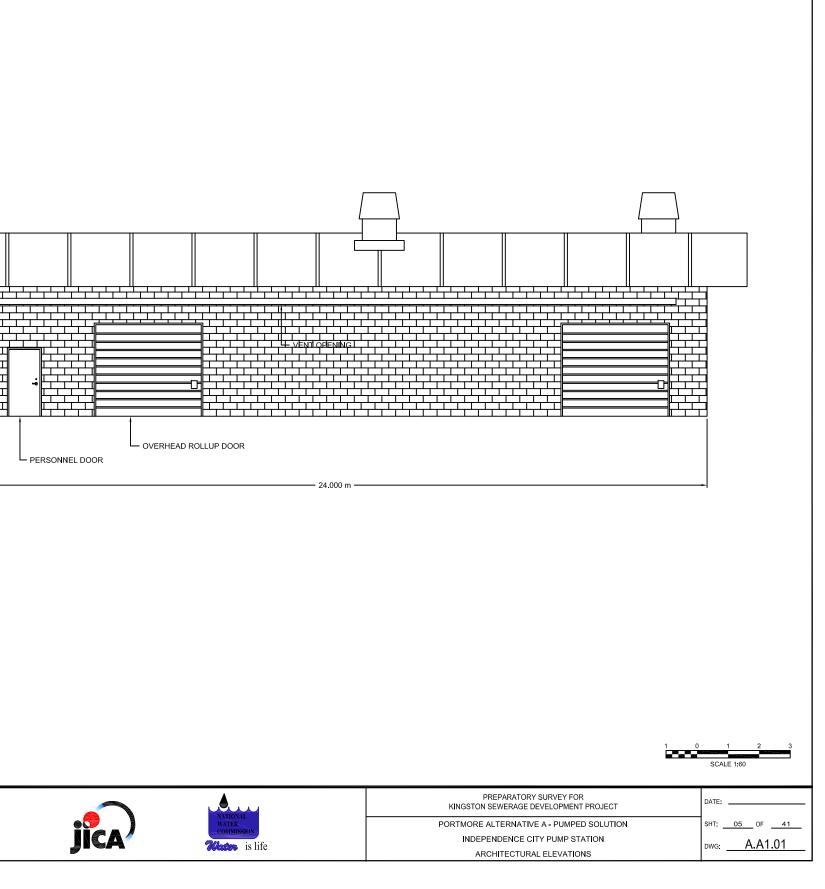




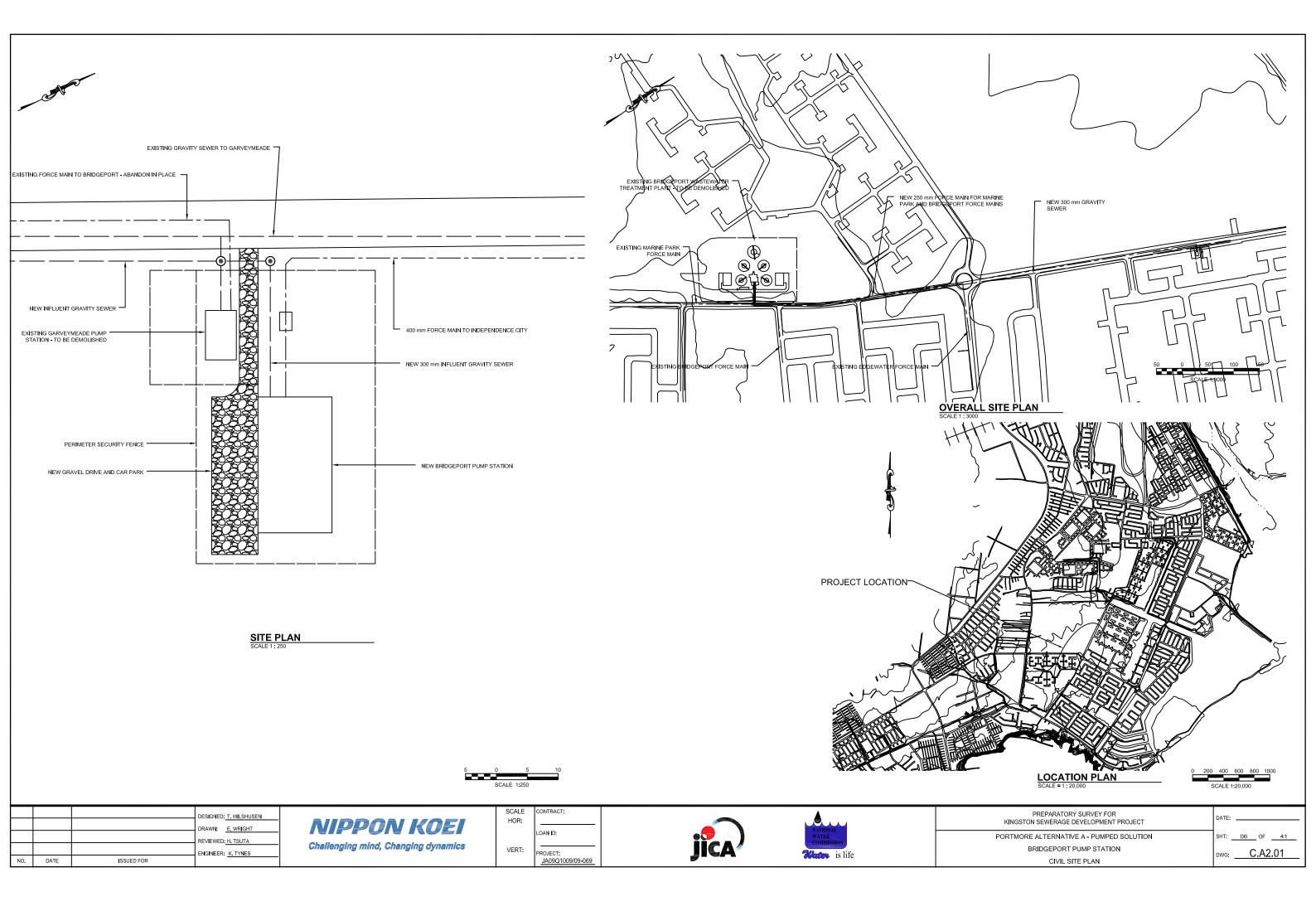


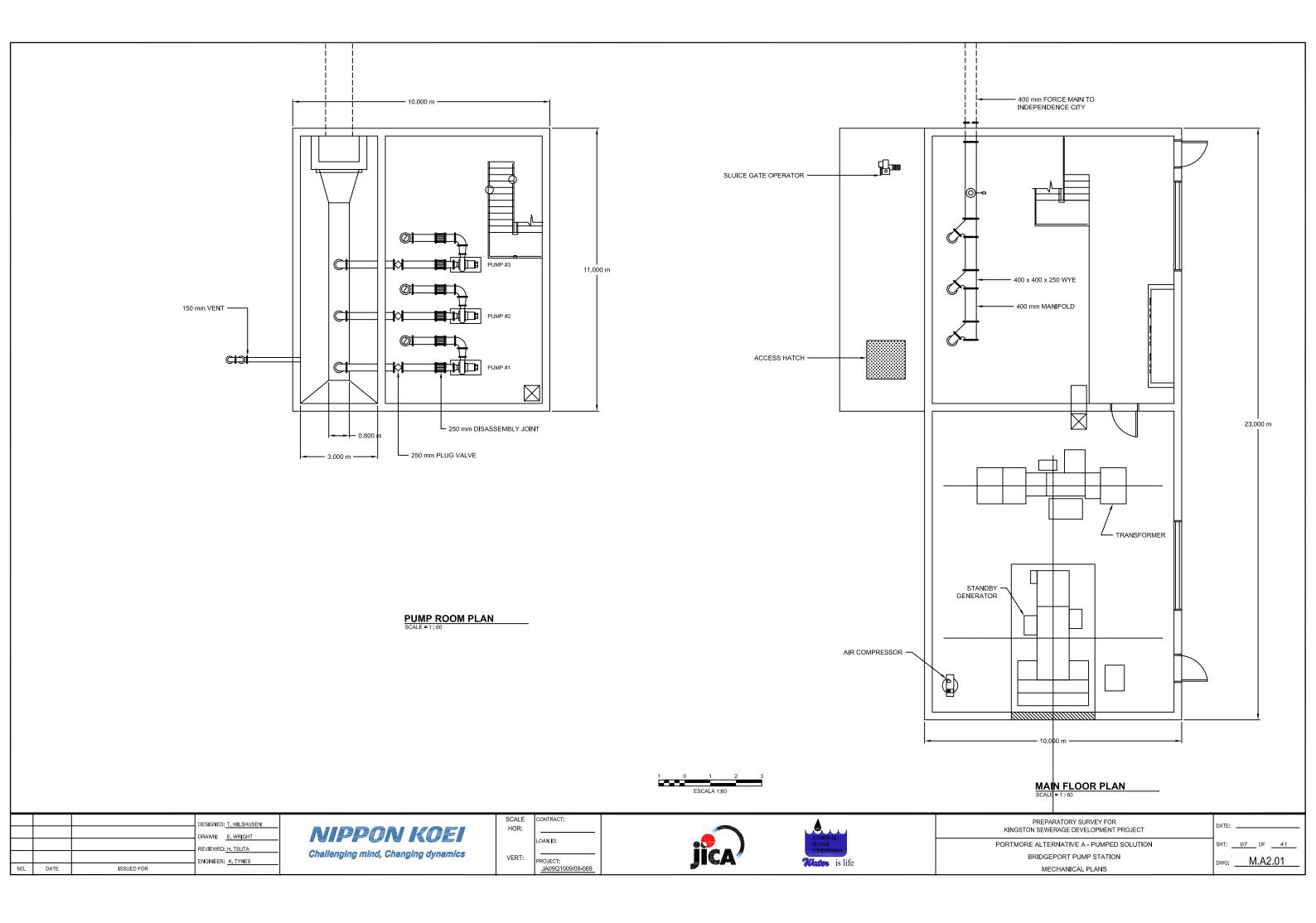


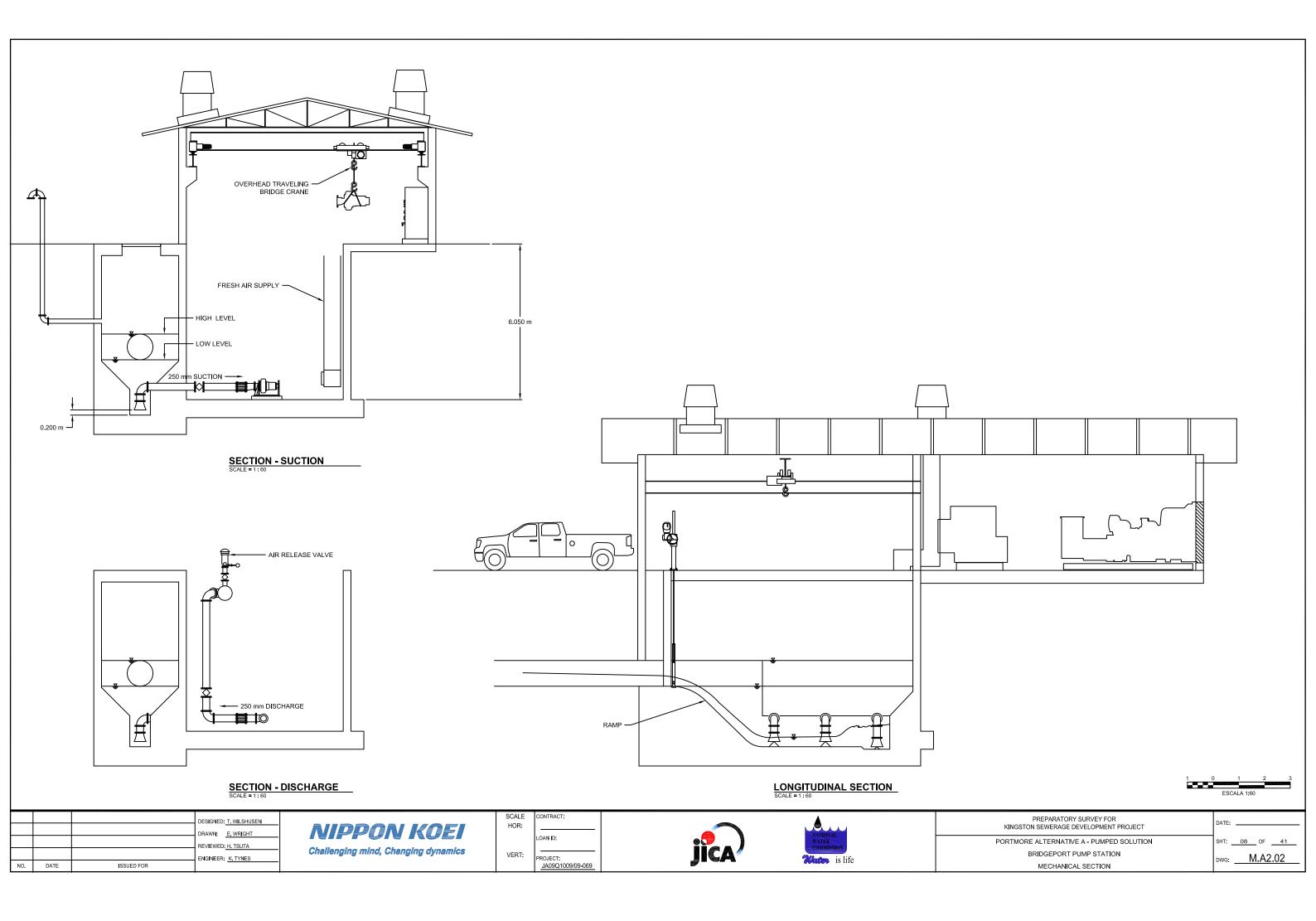
NO.	DATE	ISSUED FOR	DESIGNED: <u>T. WILSHUSEN</u> DRAWN: <u>E. WRIGHT</u> REVIEWED <u>: H. TSUTA</u> ENGINEER: <u>K. TYNES</u>	<b>NIPPON KOEI</b> Challenging mind, Changing dynamics	SCALE HOR: 1:60 VERT:	CONTRACT: LOAN ID: PROJECT: JA09Q1009/09-069	NATIONAL WATER COMMISSION Water is life	
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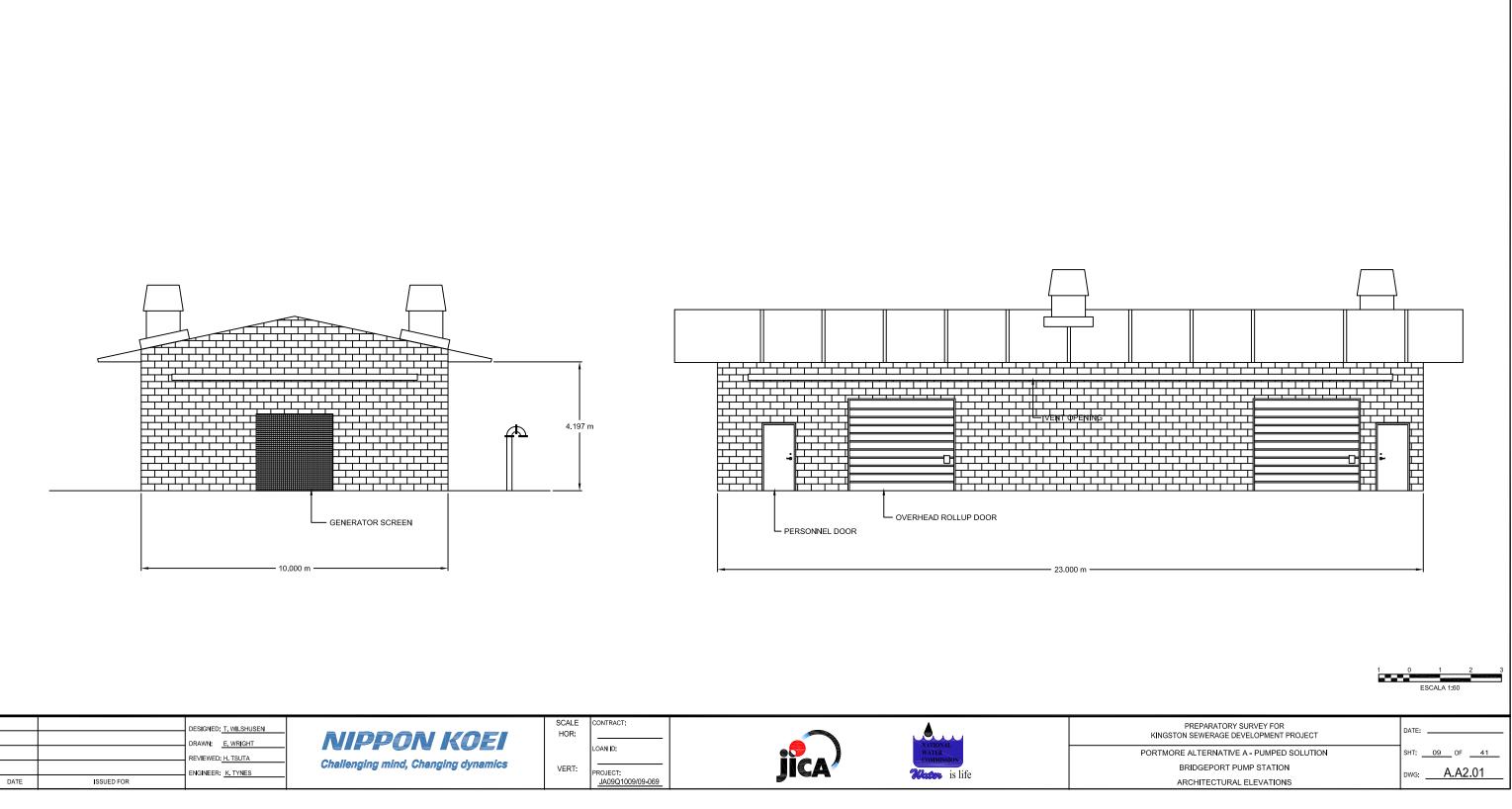


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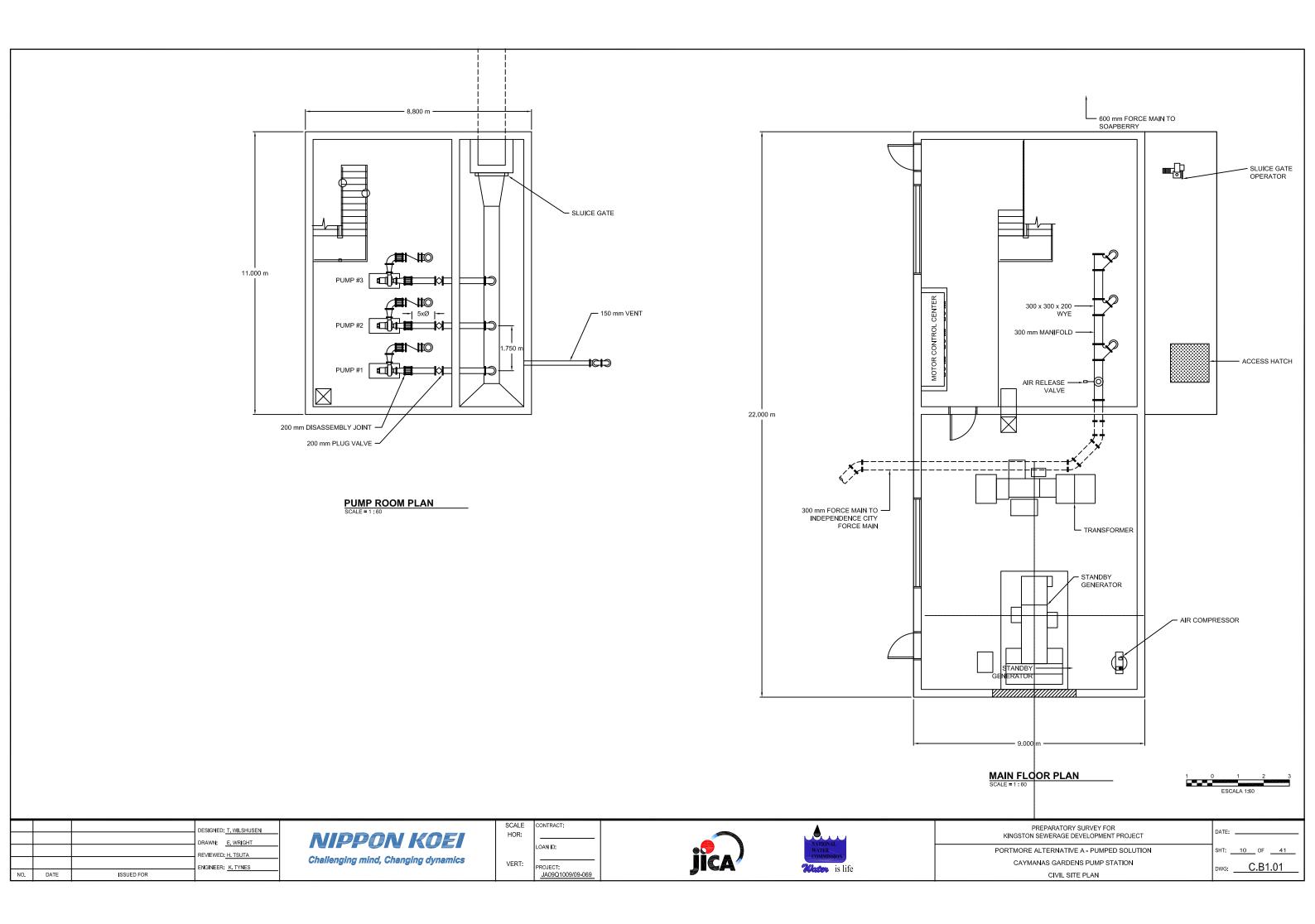


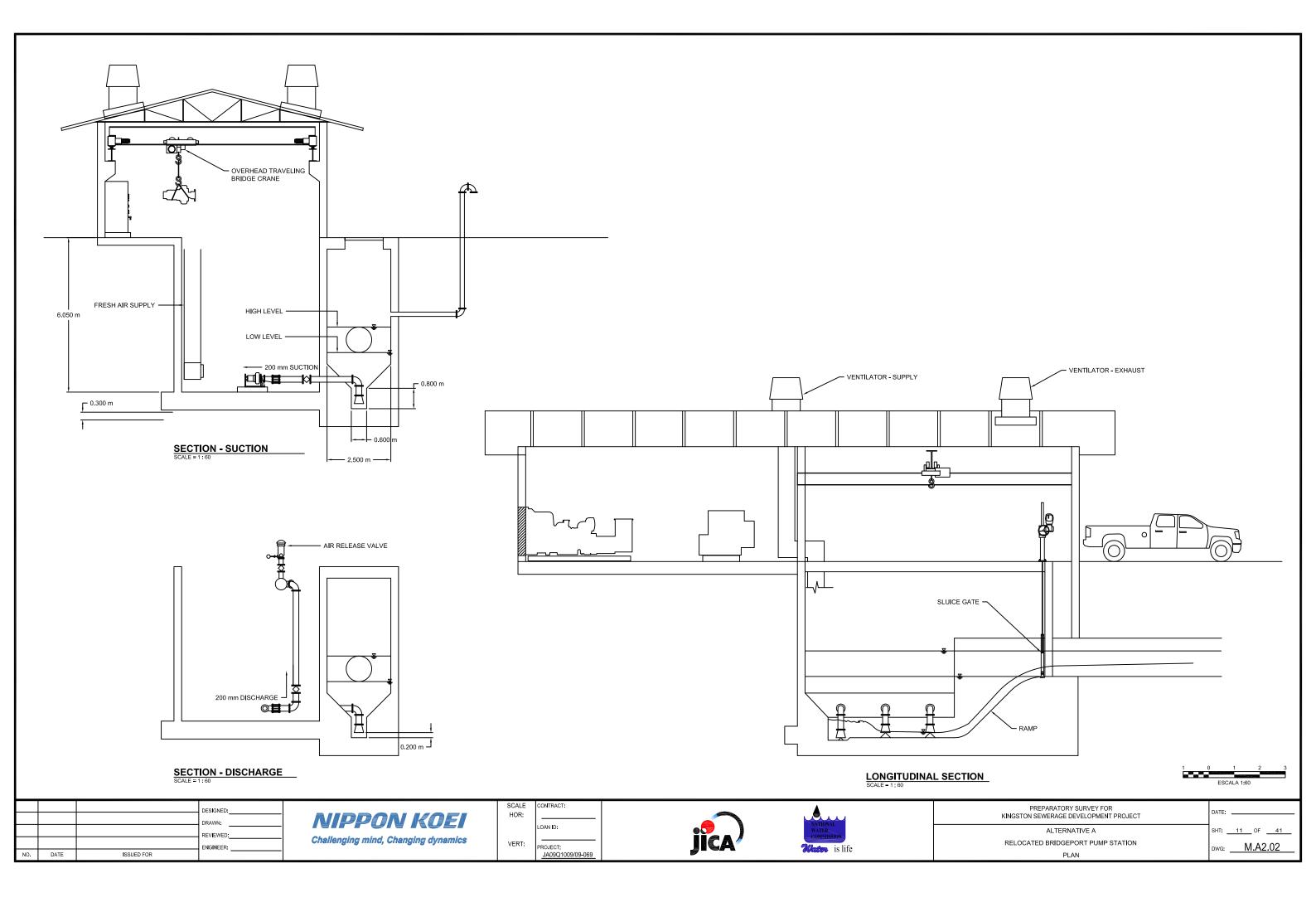
DESIGNED: T. WILSHUSEN	
DRAWN: E. WRIGHT	NIPPON K
REVIEWED: H. TSUTA	

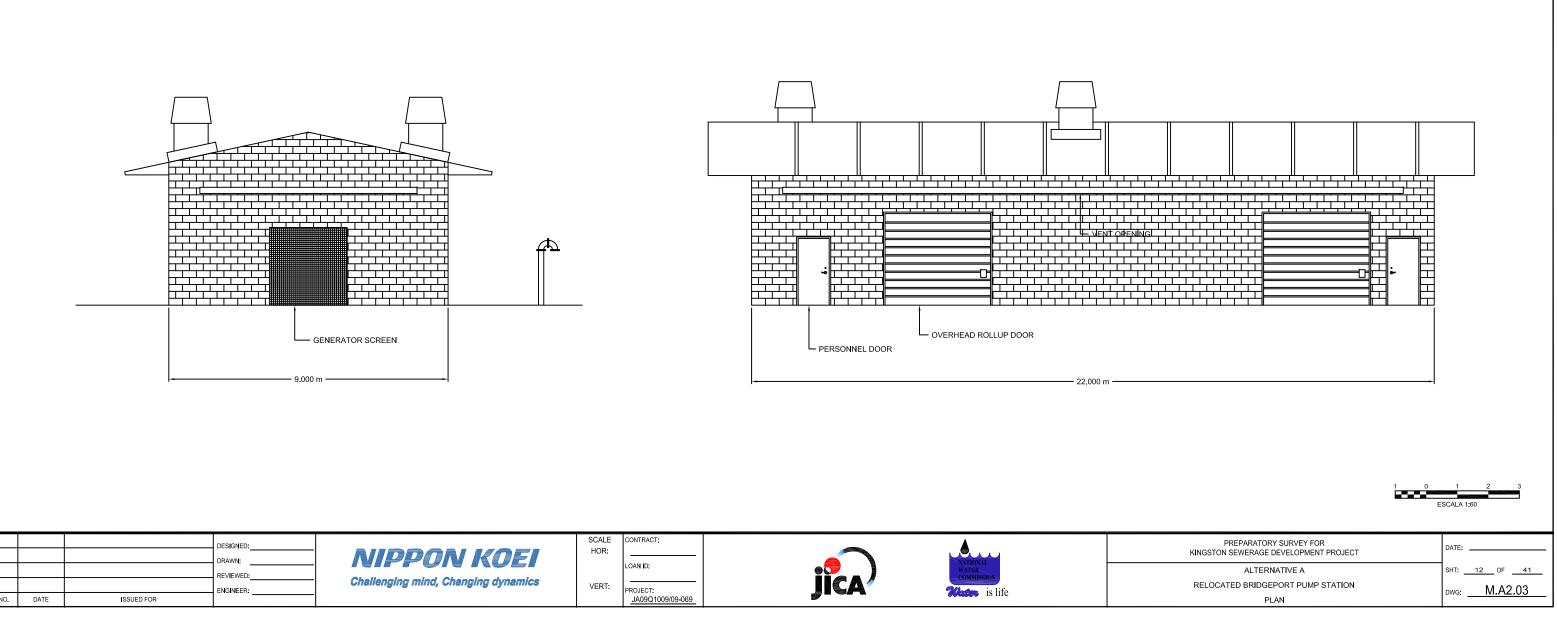
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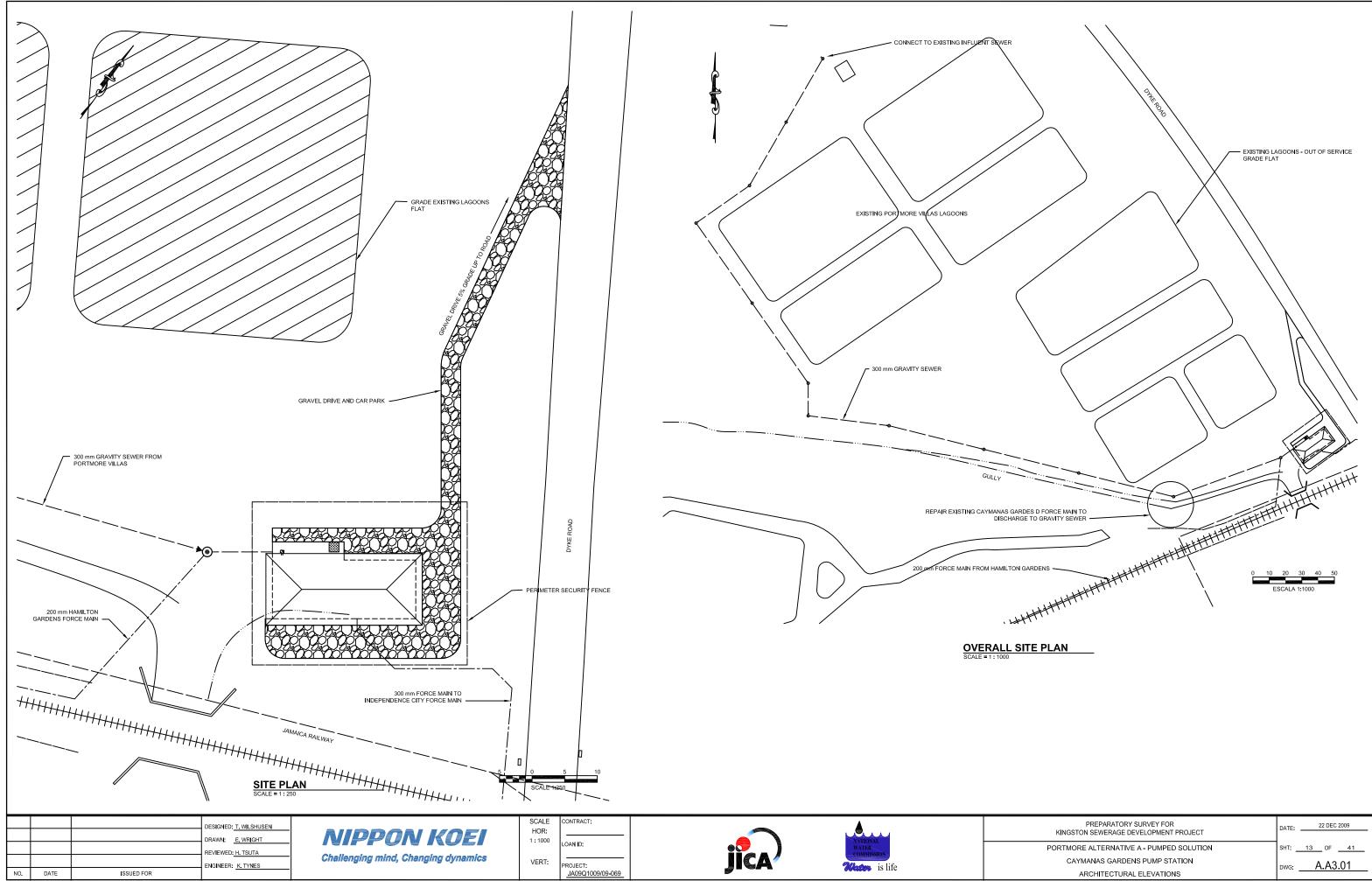




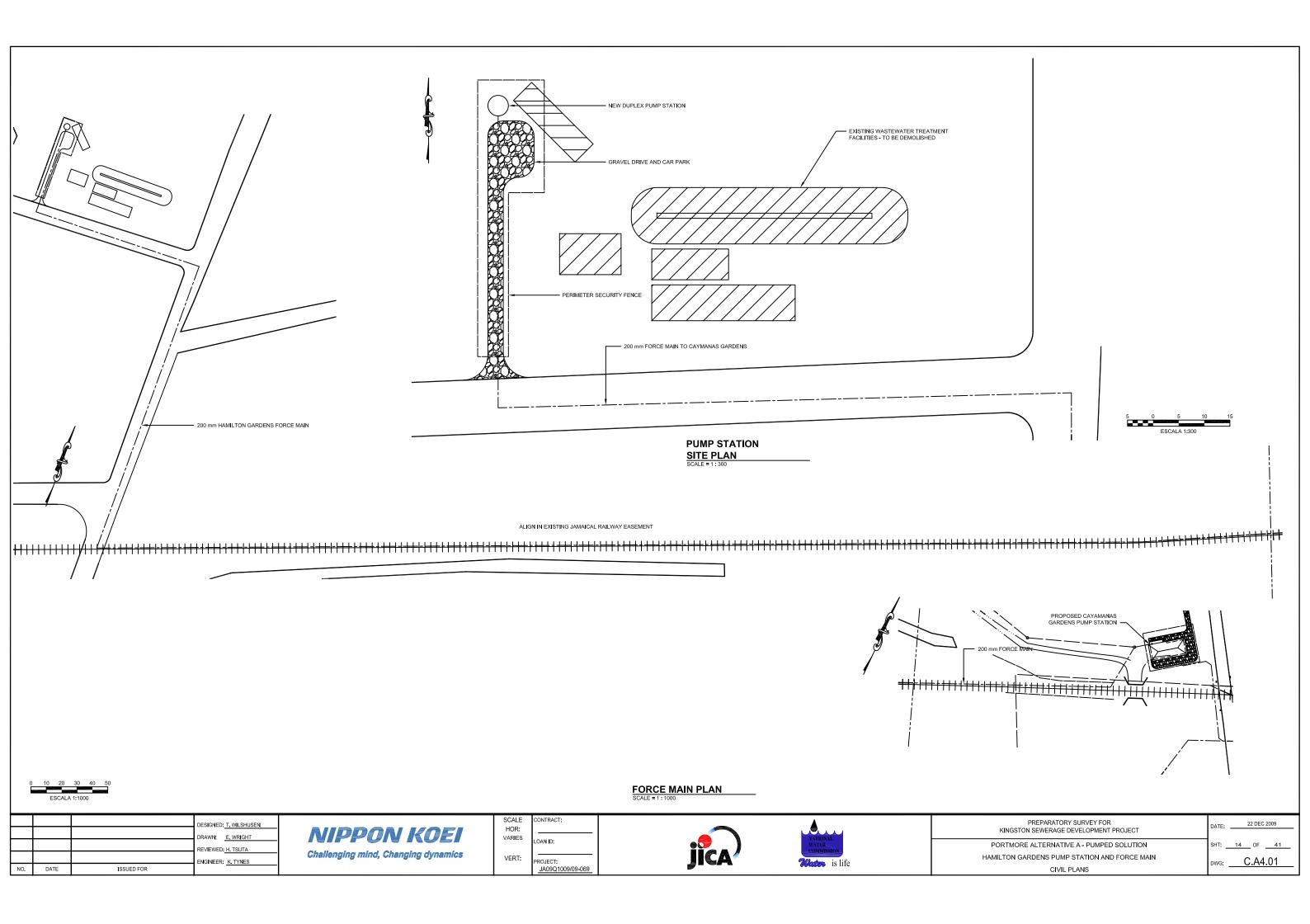




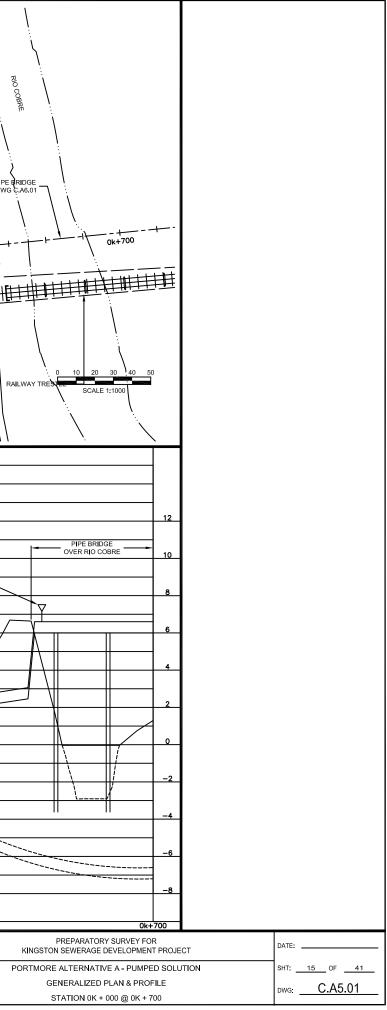
			DESIGNED:			CONTRACT:		
			DRAWN:	NIPPON KOEI	HOR:		NATIONAL	
			REVIEWED:		VERT	LOAN ID:	WATER-	
			ENGINEER:	Challenging mind, Changing dynamics		PROJECT:	ICA WATER COMMISSION 70000 is life	
NO.	DATE	ISSUED FOR				JA09Q1009/09-069		



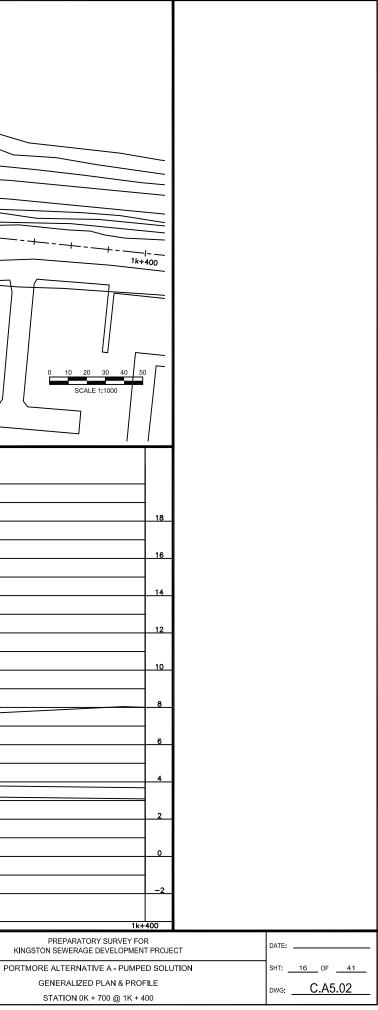
PREPARATORY SURVEY FOR KINGSTON SEWERAGE DEVELOPMENT PROJECT	DATE:22 DEC 2009
PORTMORE ALTERNATIVE A - PUMPED SOLUTION	SHT: <u>13</u> OF <u>41</u>
CAYMANAS GARDENS PUMP STATION	DWG: A.A3.01
ARCHITECTURAL ELEVATIONS	



	DISCHARGE AT DISTRIBU	JTION CHAMBER			ATER TREATMENT FACILITY				PIPE SEE DW
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-6									
Ť									
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Ok	0k+	+100		200 Ok+	300 SCALE CONTRACT:	0k+400		0k+500	0k+600
		DESIGNED: <u>T. WILSHUSEN</u> DRAWN: <u>E. WRIGHT</u>		PPON KOEI	HOR: 1000 LOAN ID:			NATIONAL WATER	
NO.	DATE ISSUED FOR	REVIEWED: <u>H. TSUTA</u>	Challeng	ing mind, Changing dynamics	VERT: 100 JA09Q1009/09-069		<b>jic</b> a)	WATER COMMISSION Water is life	



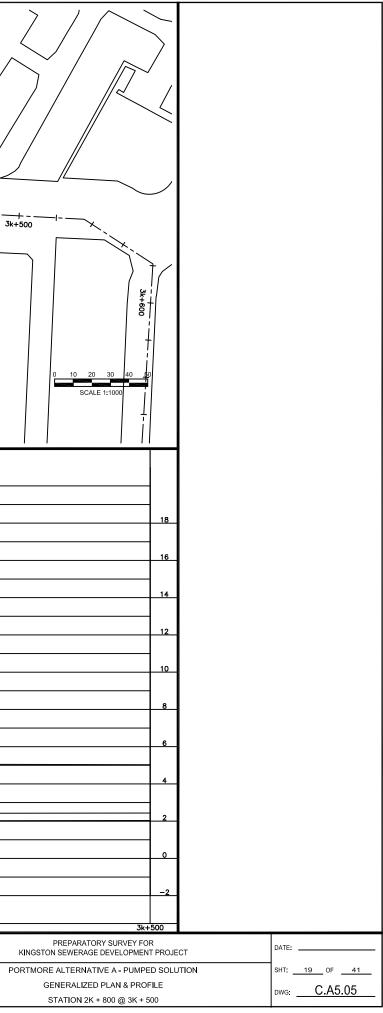
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Ok+	700 Ok+i	800	0k+		1k+000	1k+100	1k+200 1k+300	
	DATE ISSUED FOR	DESIGNED: <u>T. WILSHUSEN</u> DRAWN: <u>E. WRIGHT</u> REVIEWED: <u>H. TSUTA</u> ENGINEER: K. TYNES	NI	<b>PPON KOEI</b> ging mind, Changing dynamics	VERT: 100 1000 JAON ID: VERT: 100 JAON JO: JAON JO: JAON	jîca	NATIONAL WATER COMMISSION Is life	

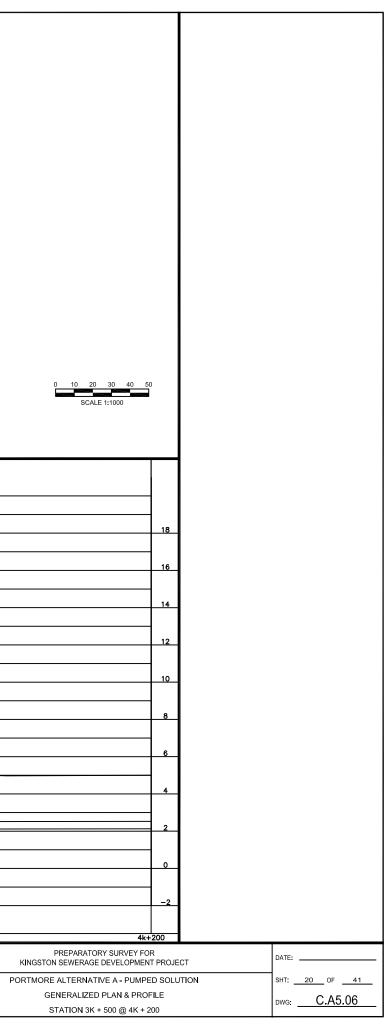


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DESIGNED: T. WILSHUSEN DRAWN: E. WRIGHT	SCALE       CONTRACT:         HOR:       1000         1000       LOAN ID:         VERT:       PROJECT:         100       JA09Q1009/09-069	PREPARATORY SURVEY FOR KINGSTON SEWERAGE DEVELOPMENT PROJECT           NATIONAL WATER         PORTMORE ALTERNATIVE A - PUMPED SOLUTION           COMMISSION         GENERALIZED PLAN & PROFILE           STATION 1K + 400 @ 2K + 100         STATION 1K + 400 @ 2K + 100	DATE:

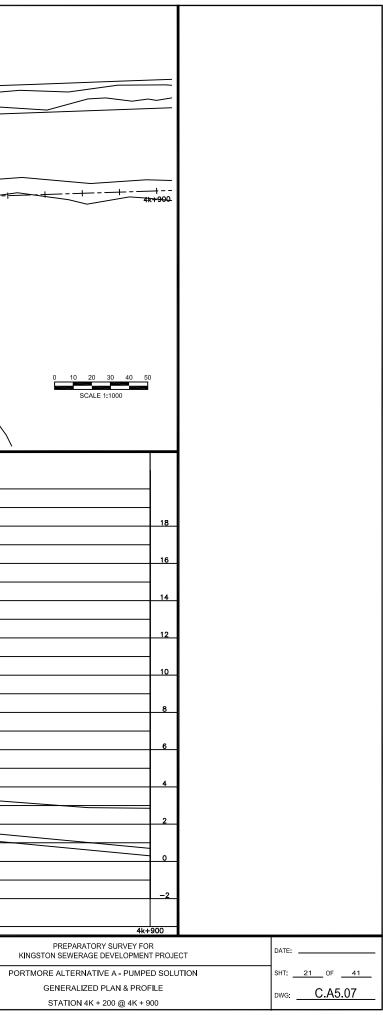
			DYKE ROAD				
+100	2k+200					k+700	
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14 12 10 8						14 12 12 10 8	
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2	DATE ISSUED FOR	DESIGNED: T. WILSHUSEN DRAWN: E. WRIGHT	600 mm FORCE MAIN 300 2k PPON KOEI ging mind, Changing dynamics	+400 2k SCALE CONTRACT: HOR: 1000 LOAN ID: VERT: 100 PROJECT: JA09211009/05-069	2k+600 XXTROAL WATER COMMISSION Water is life	2k+700 2k+800 PREPARATORY SURVEY FOR KINGSTON SEWERAGE DEVELOPMENT PROJECT PORTMORE ALTERNATIVE A - PUMPED SOLUTI GENERALIZED PLAN & PROFILE STATION 2K + 100 @ 2K + 800	

						EXISTING IND WASTEWATER TRE DEM	GRAVITY SEWER INFLUENT TO PUMP STATION	NEW DISCHA	00 hm FORCE MAIN FROM BRIDGEPORT		
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2k+	+800	2k-	+900	3k+00	00	31	+100	3k-	-200 3	k+300	3k+400
 	DATE	ISSUED FOR	DESIGNED: <u>T. WILSHUSEN</u> DRAWN: <u>E. WRIGHT</u> REVIEWED: H. TSUTA ENGINEER: K <u>. TYNES</u>			I KOEI anging dynamics	SCALE         CONTRACT:           HOR:	9/09-069	jica	NATIONAL WATER COMMISSION Water is life	

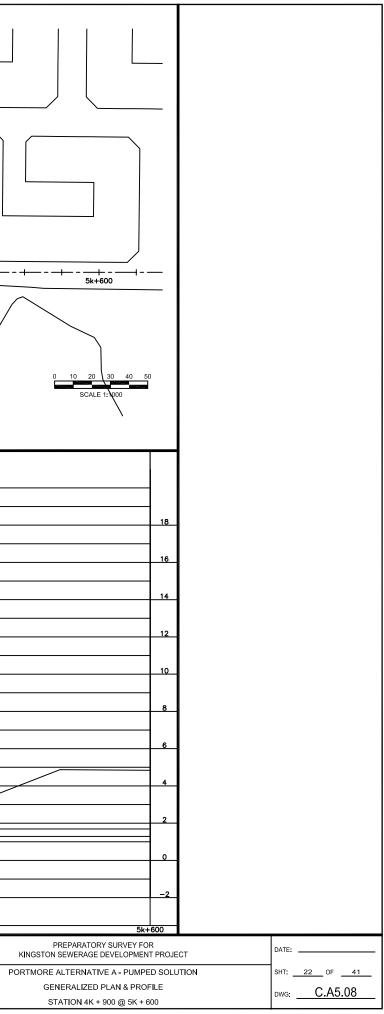




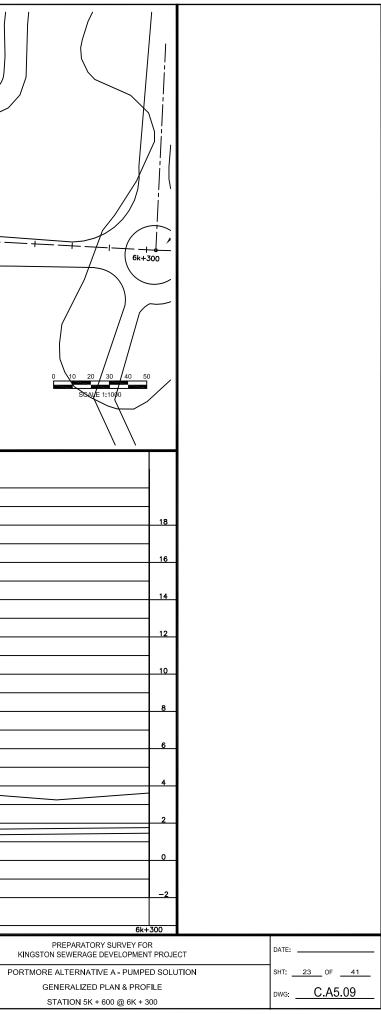
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		DESIGNED: T. WILSHUSEN			SCALE CONTRACT:			•	
		DRAWN: <u>E. WRIGHT</u>	NIDDA	IN KOEI	HOR:			NATIONAL	
					LOAN ID:		•57)	NATIONAL WATER COMMISSION	
		ENGINEER: K. TYNES	Challenging mind,	, Changing dynamics	VERT: 100 PROJECT: JA09Q1009/09-069		jica)	Water is life	
NO.	DATE ISSUED FOR				VERT: PROJECT: 100 JA09Q1009/09-069				



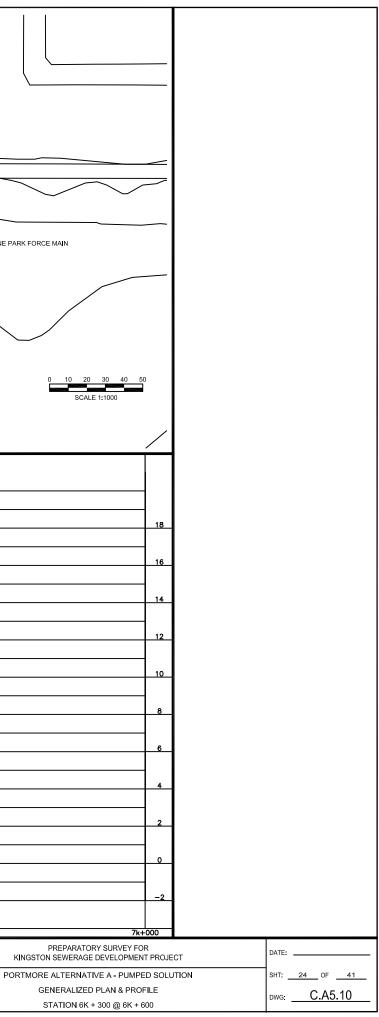
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NO.	DATE ISSUED FOR	DESIGNED: <u>T. WILSHUSEN</u> DRAWN: <u>E. WRIGHT</u> REVIEWED: <u>H. TSUTA</u> ENGINEER: K. TYNES	NI	PPON KOEI ing mind, Changing dynamics	SCALE         CONTRACT:           HOR:	jîca	NATIONAL WATER COMMISSION WILLOW is life

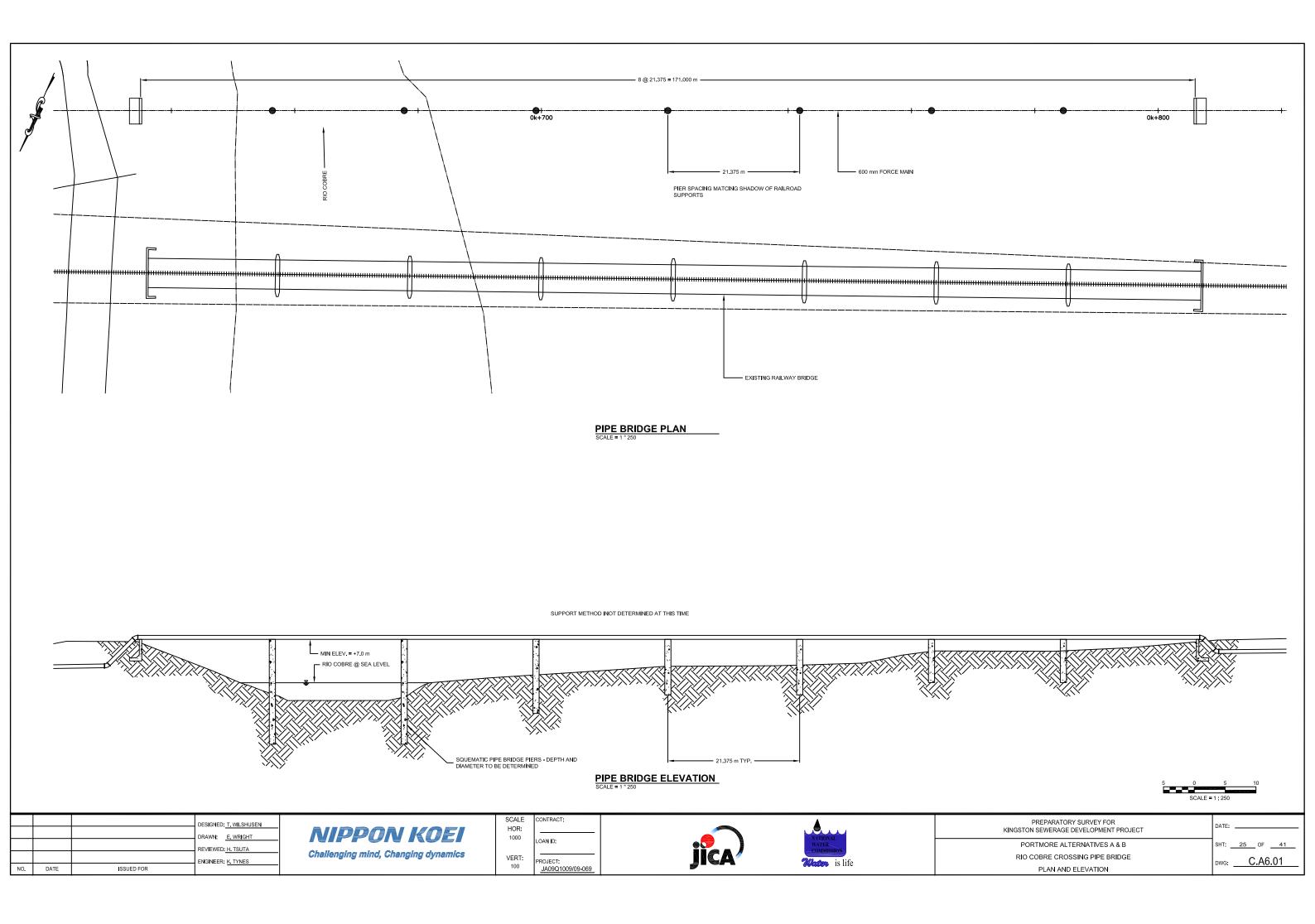


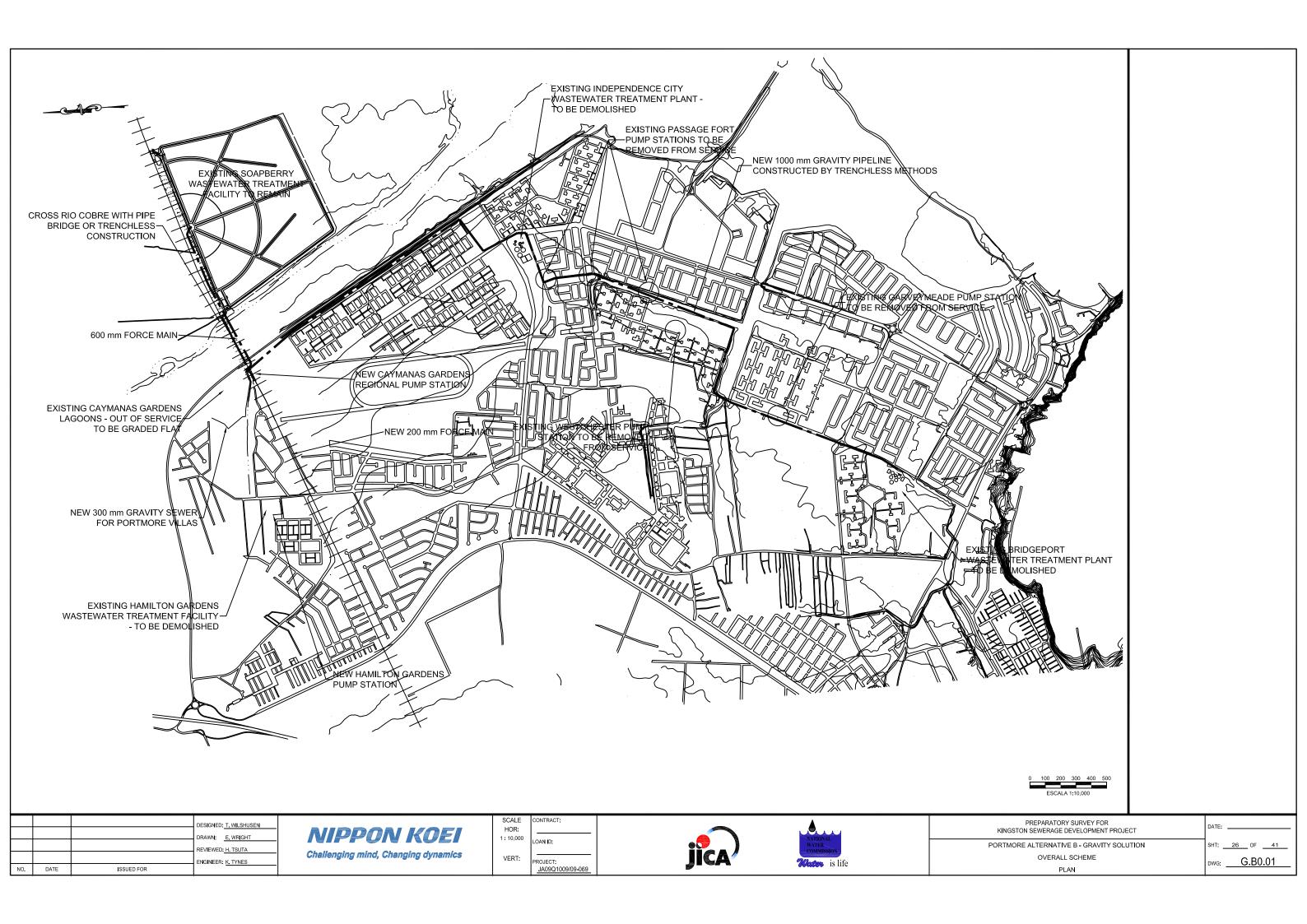
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		NEW BRID	GEPORT PUMP STATION						
					DEMOLISH EXISTING GARVEYMEADE PUMP STATION				
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		DESIGNED: T. WILSHUSEN DRAWN: E. WRIGHT DEVIEWED: H. TSUTA		ON KOEI	HOR: 1000 LOAN ID:			NATIONAL WATER COMMISSION	
NO.	DATE ISSUED FOR	REVIEWED: <u>H. TSUTA</u> ENGINEER: <u>K. TYNES</u>	Challenging m	ind, Changing dynamics	VERT: 100 JA09Q1009/09-069		jica)	<b>Water</b> is life	

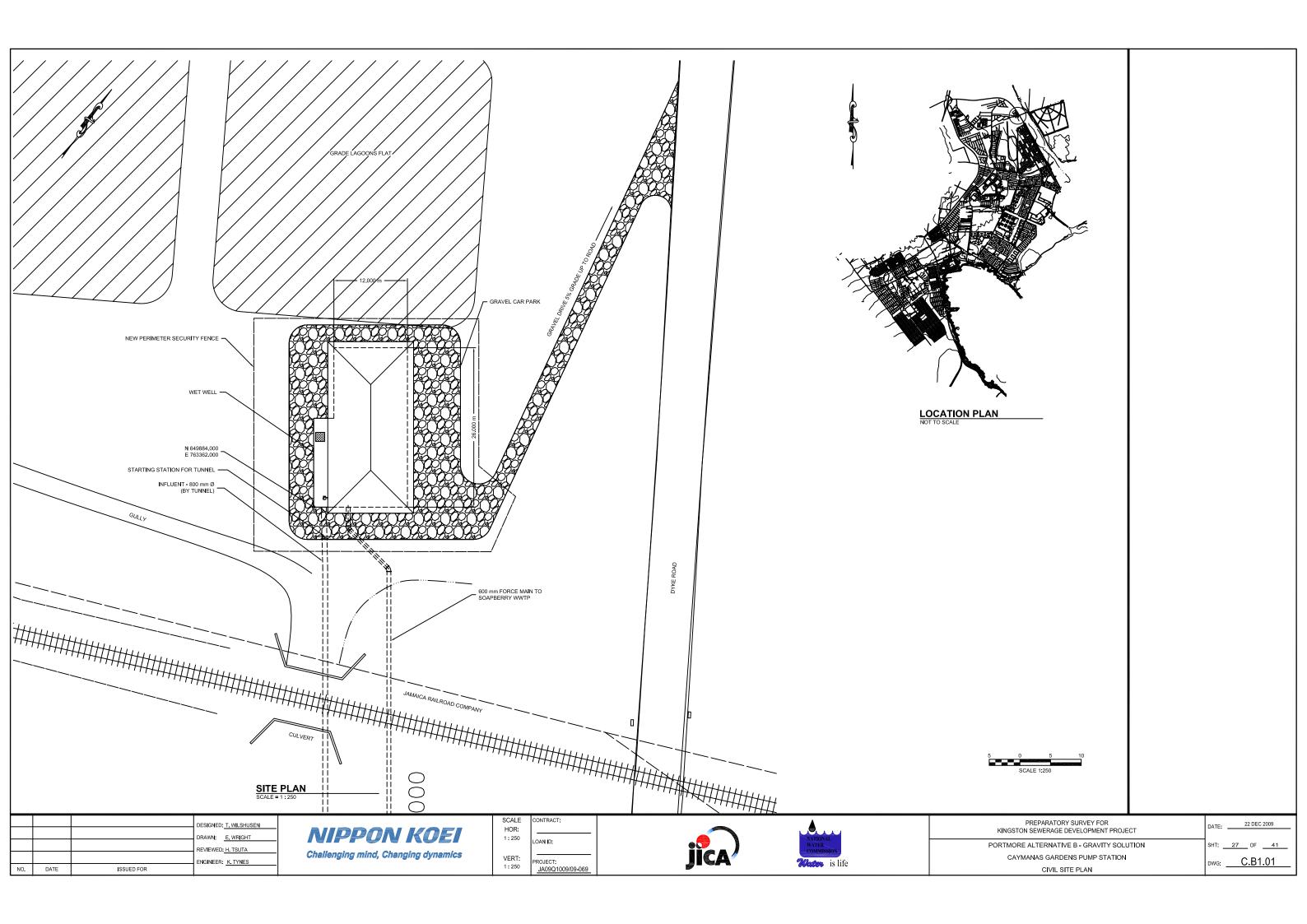


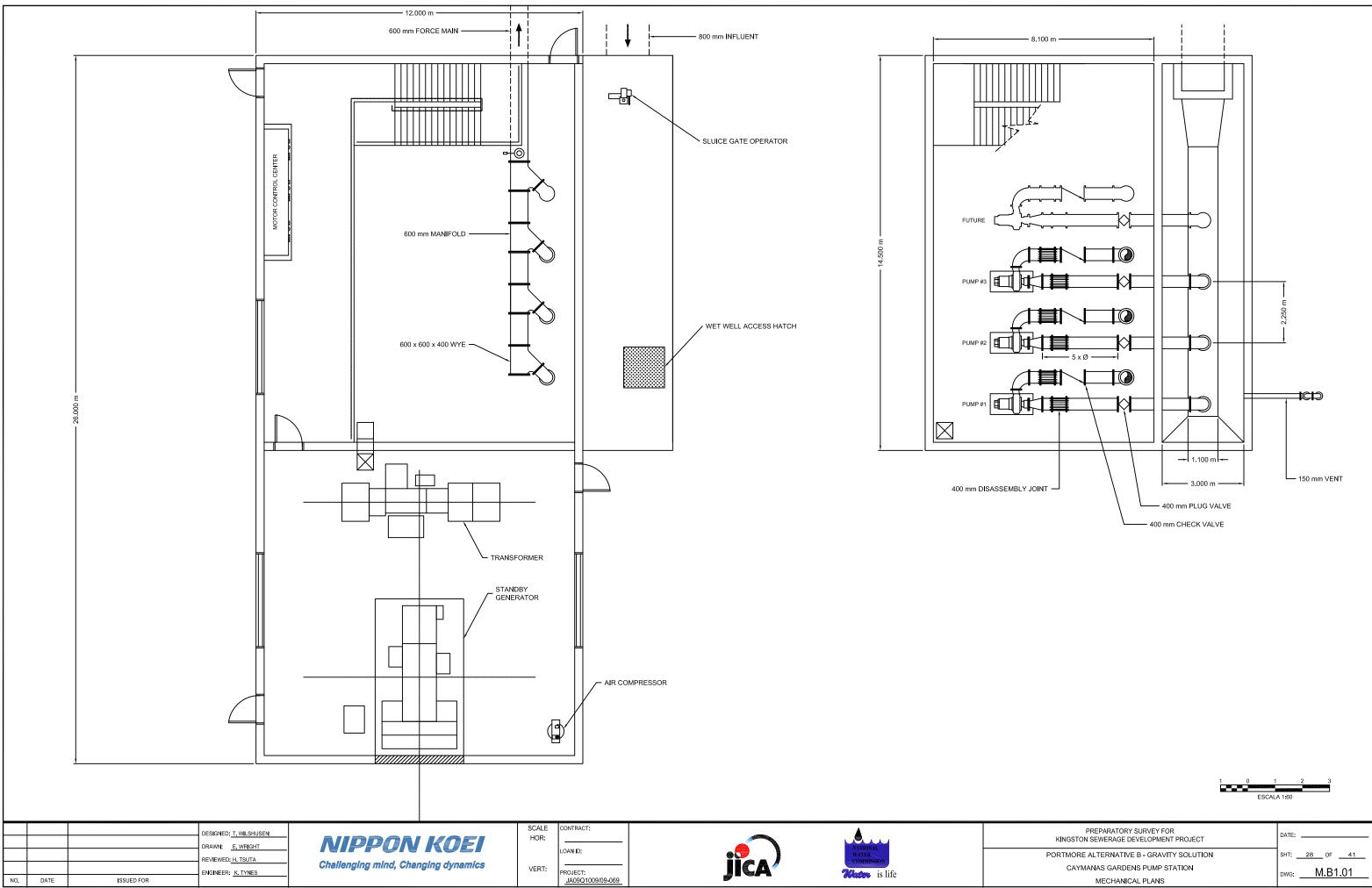
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6k+	300 6k+	DESIGNED: T. WILSHUSEN	6k+		SCALE CONTRACT:	6k+700	6k+800	6k+900
		DRAWN: <u>E. WRIGHT</u>		PPON KOEI	HOR:		XATIONAL	
		REVIEWED: H. TSUTA		ging mind, Changing dynamics		JĨCA	WATER-COMMISSION	
NO.	DATE ISSUED FOR	ENGINEER: K. TYNES			VERT: 100 PROJECT: JA09Q1009/09-069	JINA	Water is life	

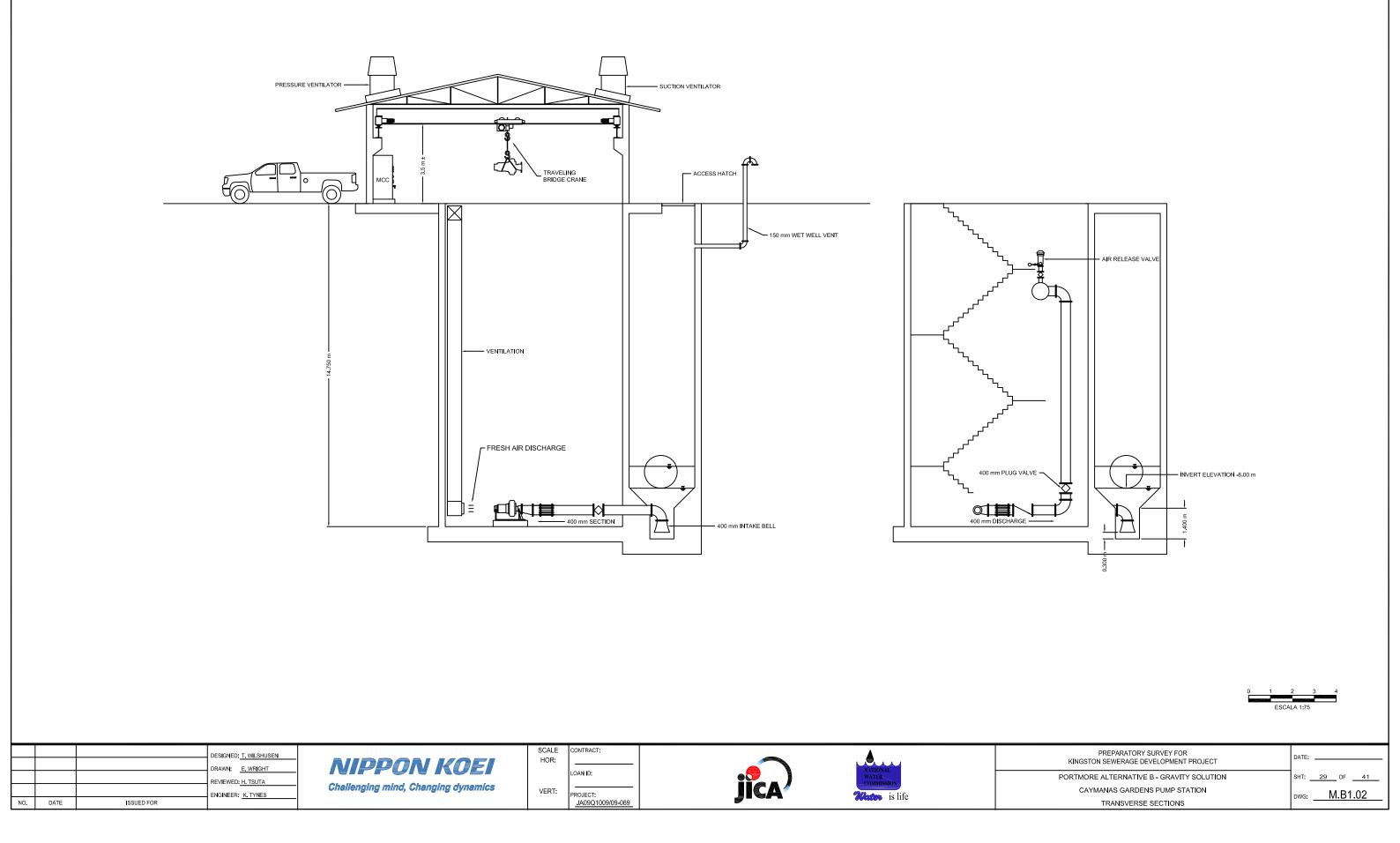


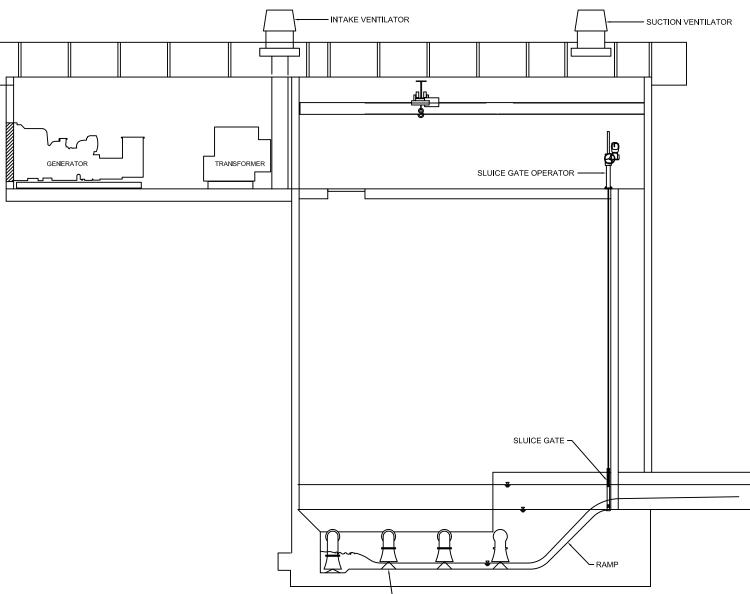










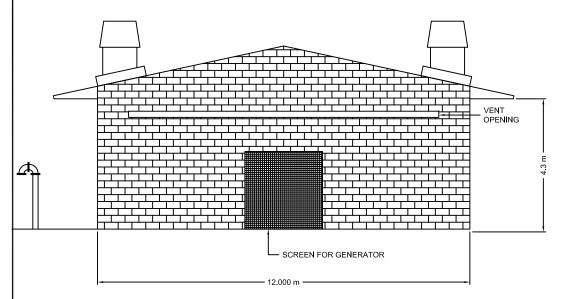


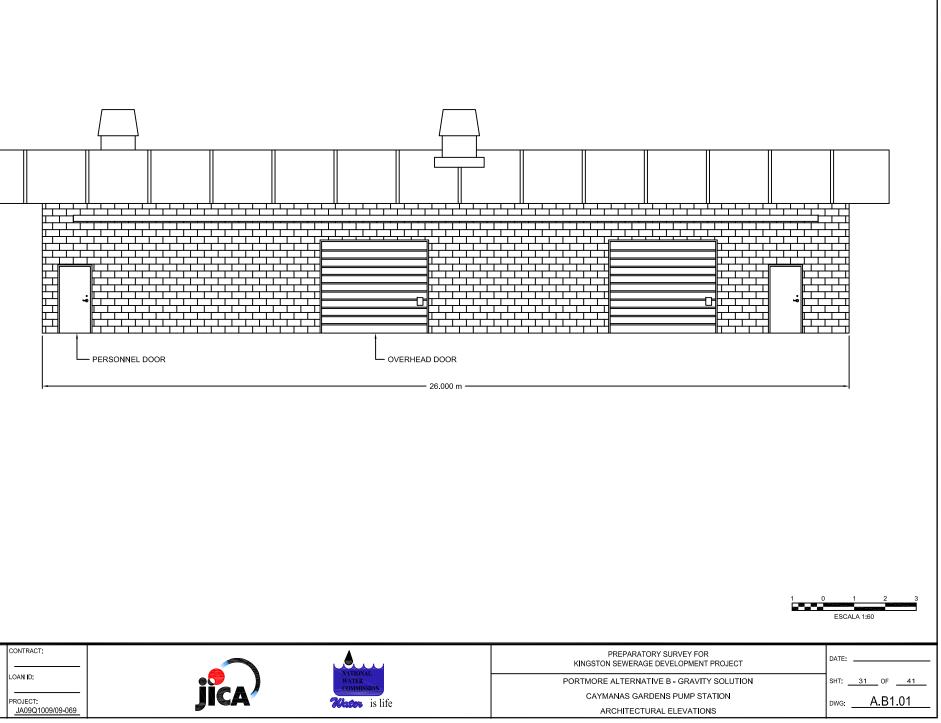
L ANTI-VORTEX VANE



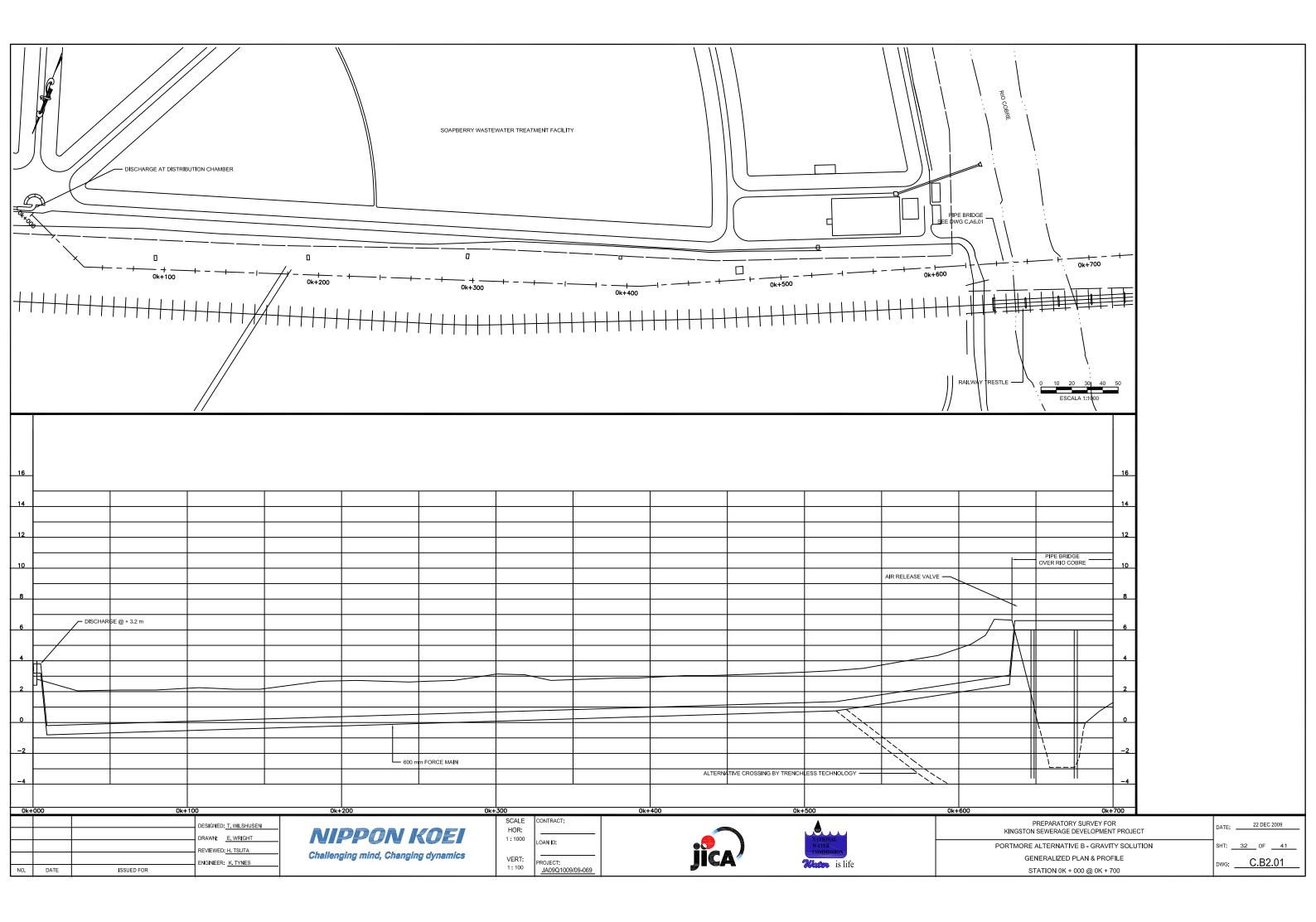
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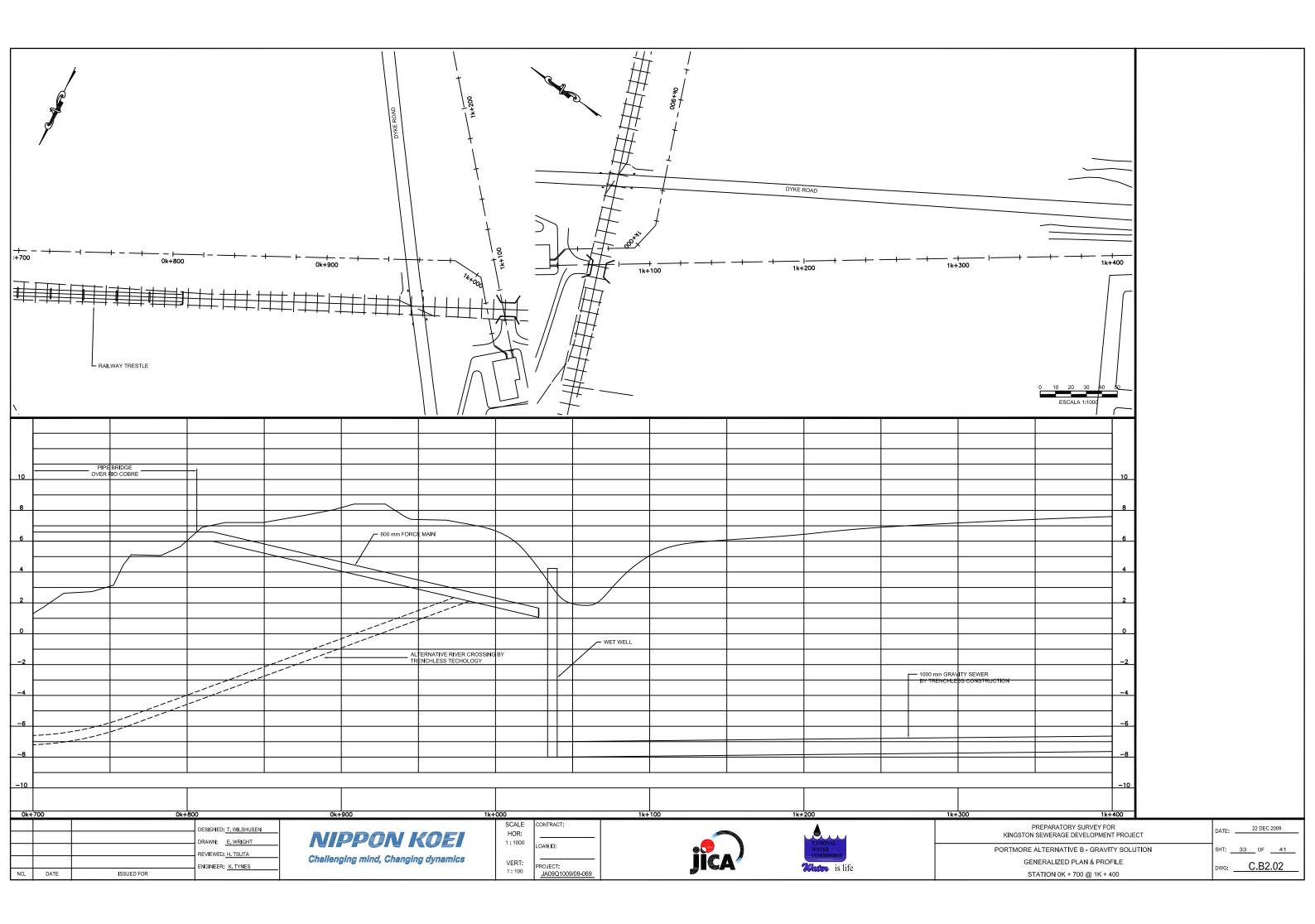
PREPARATORY SURVEY FOR KINGSTON SEWERAGE DEVELOPMENT PROJECT	DATE:
PORTMORE ALTERNATIVE B - GRAVITY SOLUTION	SHT: <u>30</u> OF <u>41</u>
CAYMANAS GARDENS PUMP STATION	DWG M.B1.03
LONGITUDINAL SECTION	DWG: <u>IVI.B I.U3</u>



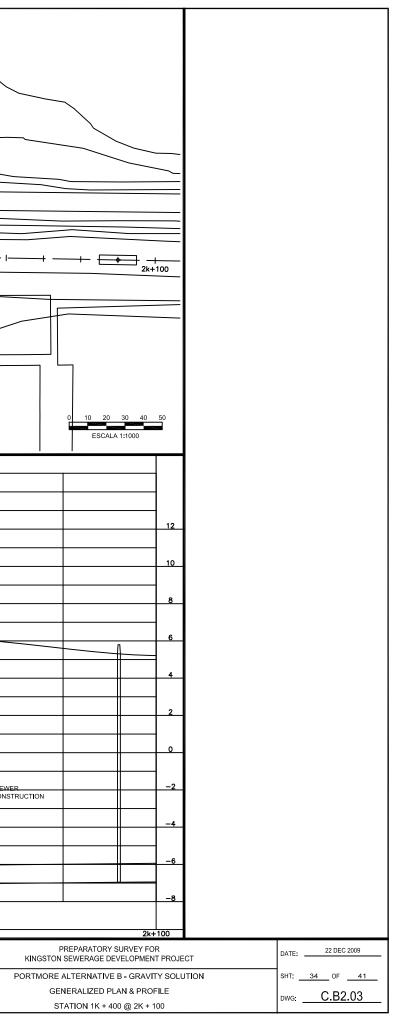


			DESIGNED: T. WILSHUSEN		SCALE	CONTRACT:		
				NIPPON KOEI	HOR:			
			DRAWN: <u>E. WRIGHT</u>	IAIPPUIA NULI		LOAN ID:	NATIONAL WATER	
			REVIEWED: H. TSUTA	Challenging mind, Changing dynamics	VEDT		JICA 2020 is life	
			ENGINEER: K. TYNES		VERT:	PROJECT:	<b>Nator</b> is life	
NO.	DATE	ISSUED FOR				JA09Q1009/09-069		

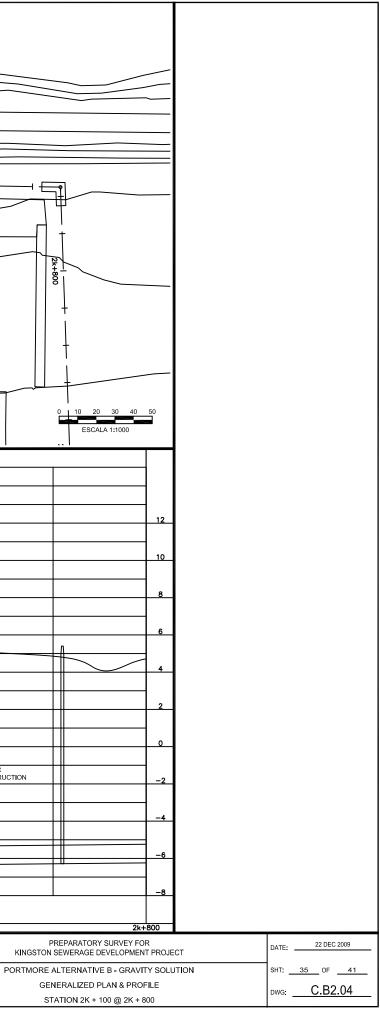




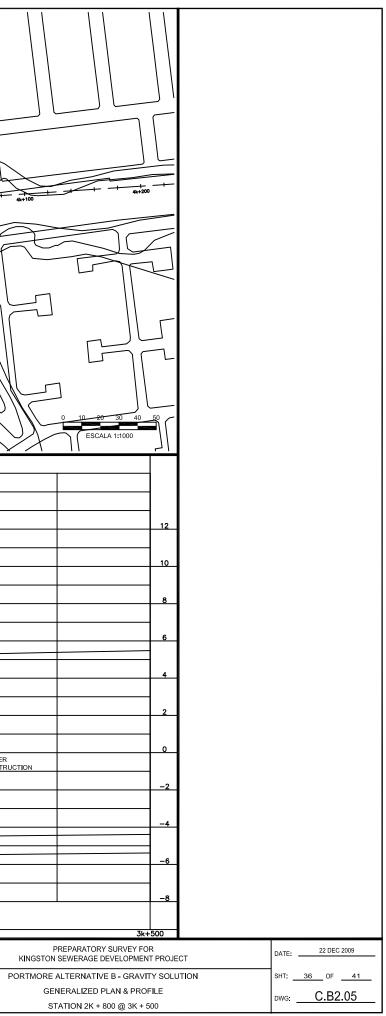
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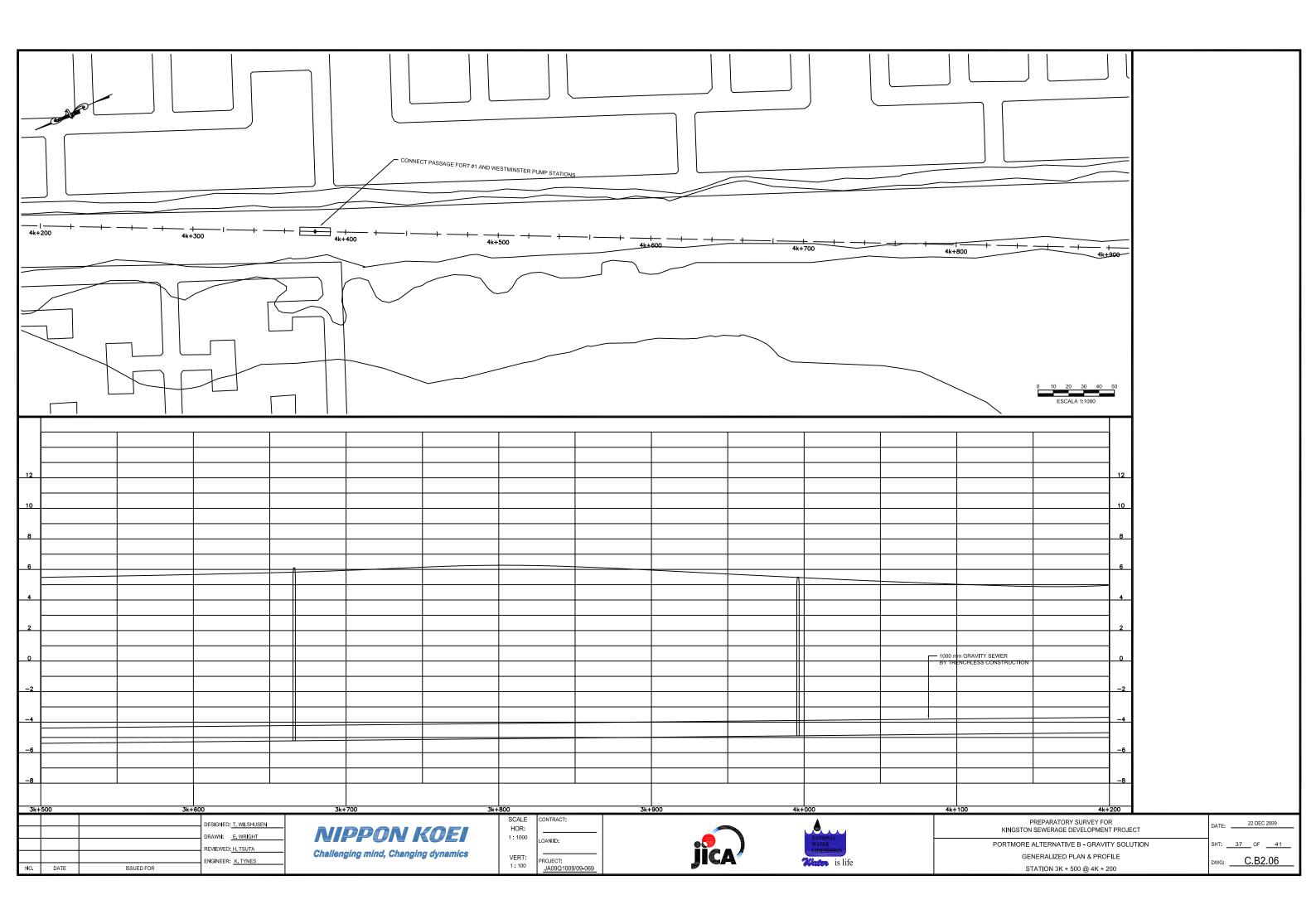


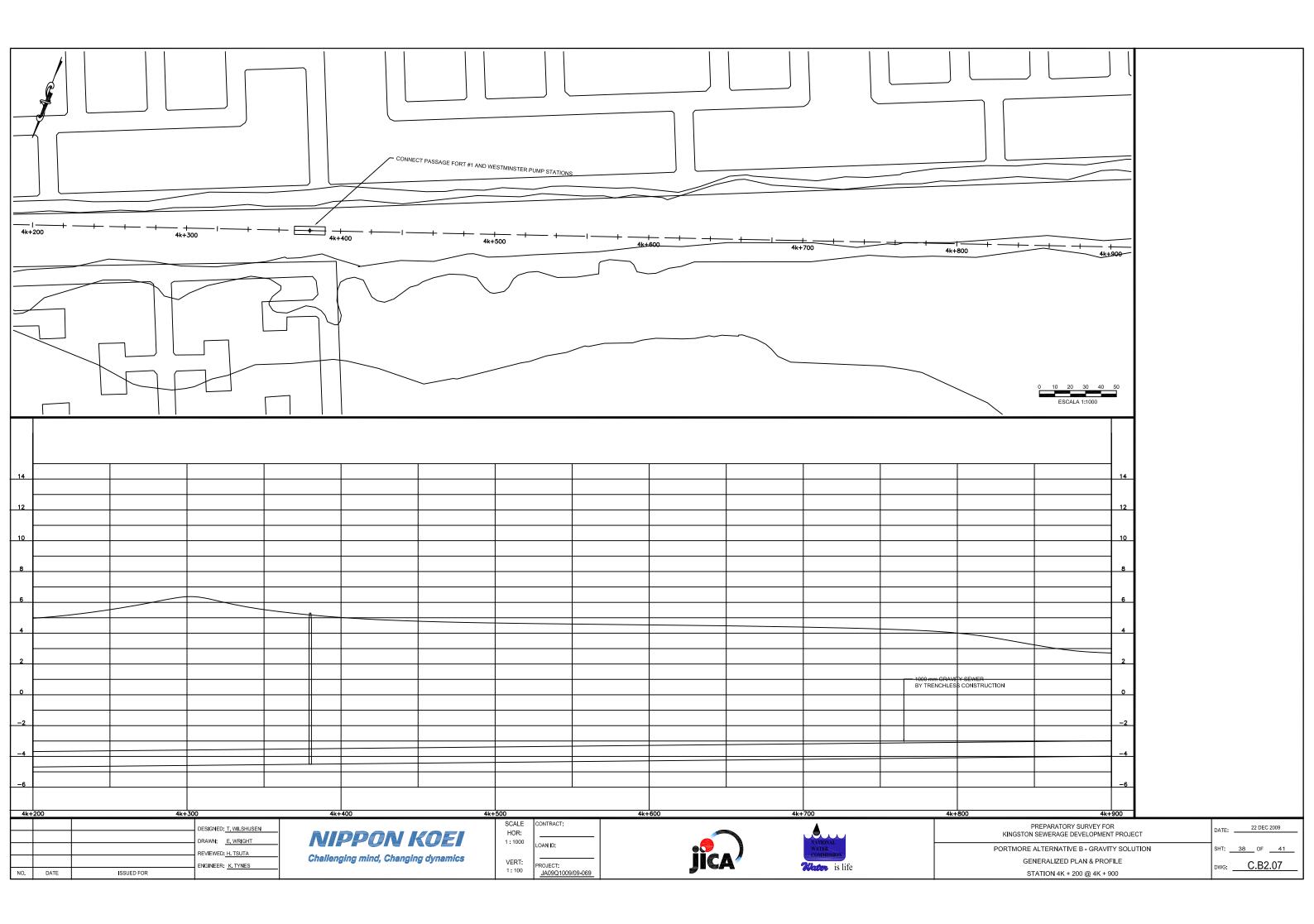
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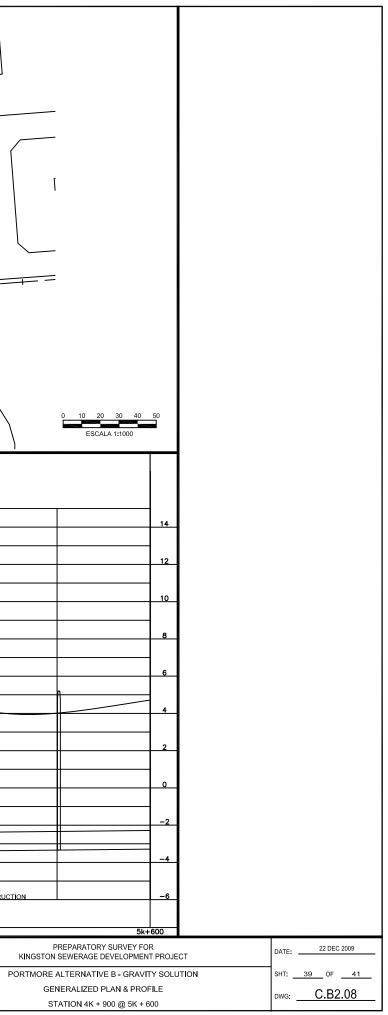
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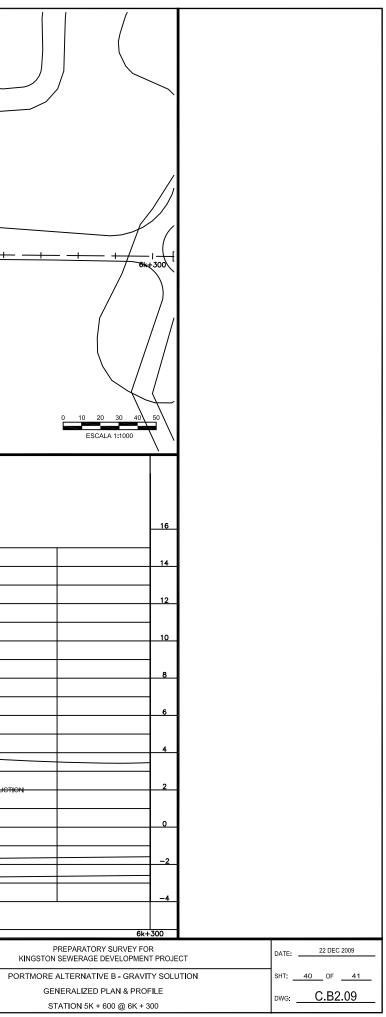




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