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2007 (19) 4

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1.	[]	
1-1	1
1-2	1
2		
2-1	4
2-2	5
2-3	5
2-4	[()].....	6
2-5	[()].....	6
2-6	8
3		
3-1	10
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3-3	[()].....	13
3-4	().....	16
4		
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7.	() [()]	
(1)	().....	30
(2)	().....	31
(3) CAD	().....	32
(4)	().....	35
(5)	().....	49
8	[()]	
8-1	53
(1)	53
(2)	53
(3)	54
1)	54
2)	55
3)	55
4)		
4-1	56
4-2	57
4-3	58
4-4	61
4-5	63
4-6	65
4-7	67
5)	68
(4)	69
9.	[()].....	70
10	[()].....	72

1. ()

1-1

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1.	(1)	(2)	(3)
2	()		
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	2006	(18) 1	1 1
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http://www.ktr.mlit.go.jp/kyoku/tech/cals/0511_tebiki/nouhin_tebiki_0511.html

2-4 [()]
2003 3 CALS/EC

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CALS EC

2-5 [()]

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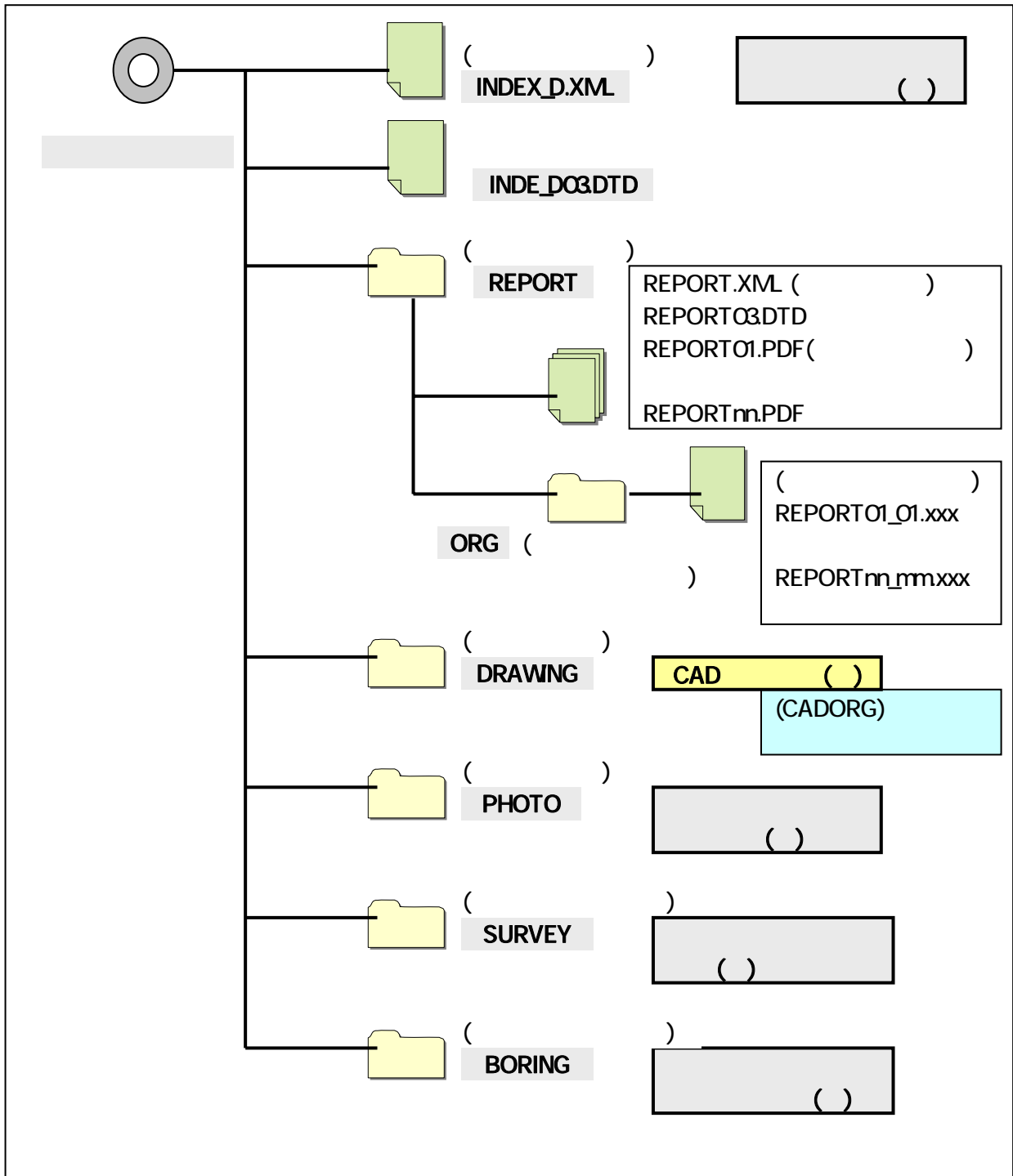
15 (2003) 3 CALS/EC CALS/EC

<http://cals.sct.or.jp/>

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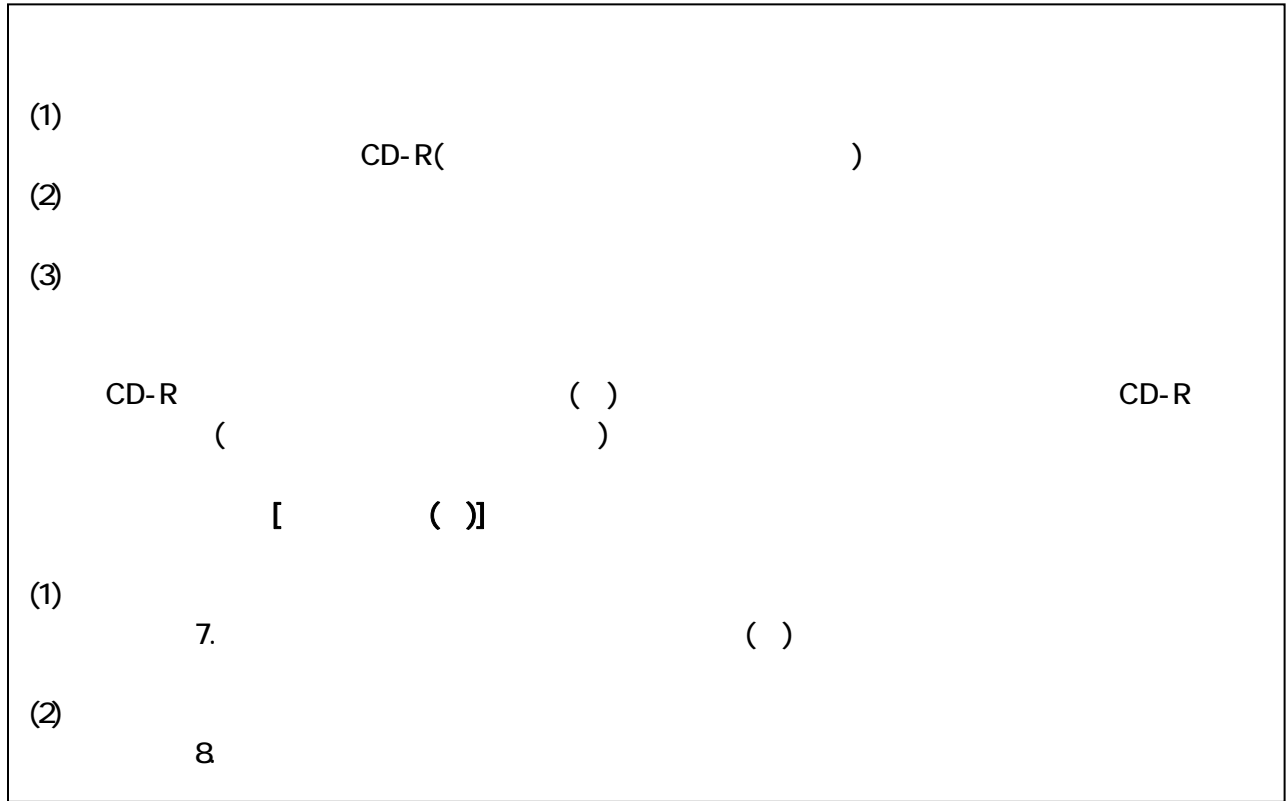
2-5

(-1-1)	21	(1)			REPORT
	22	(2)			
	42				
	38				
(-1-1)	21	(1)			REPORT
	22	(2)			

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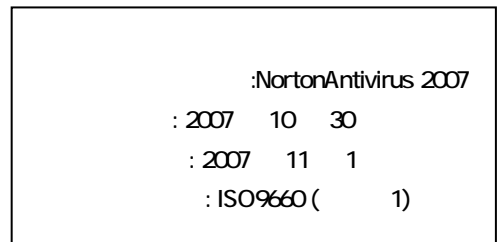
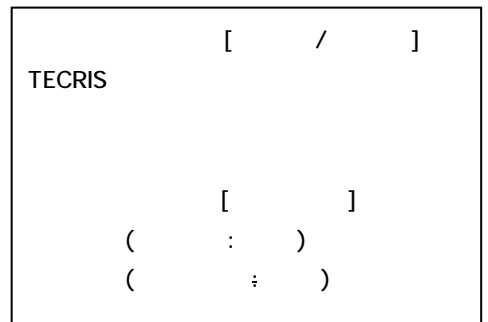
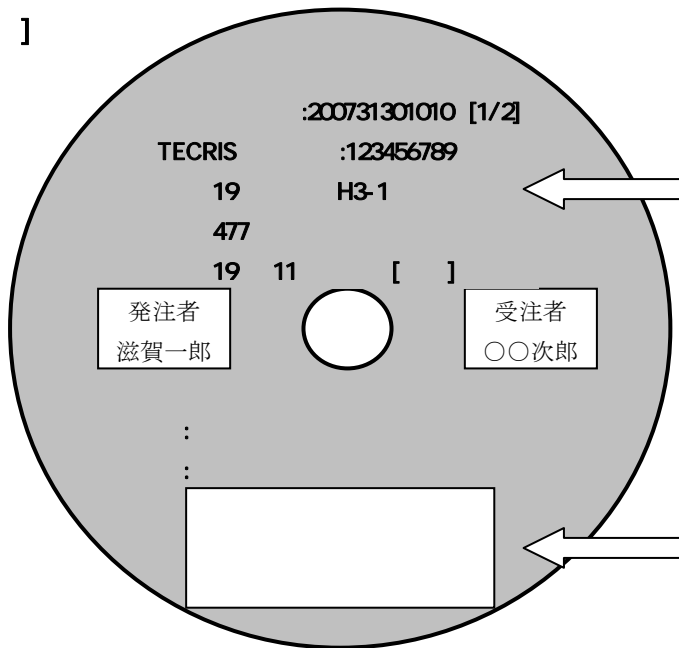
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3-2-1 [()]

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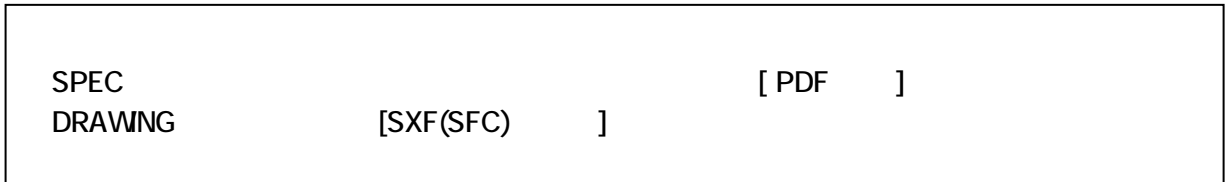
3-2-2 [()]

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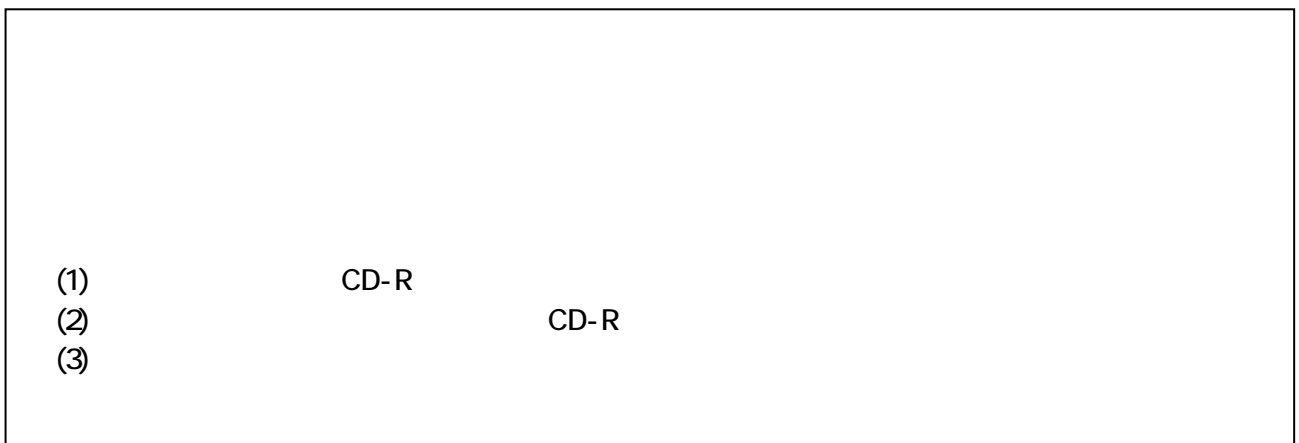
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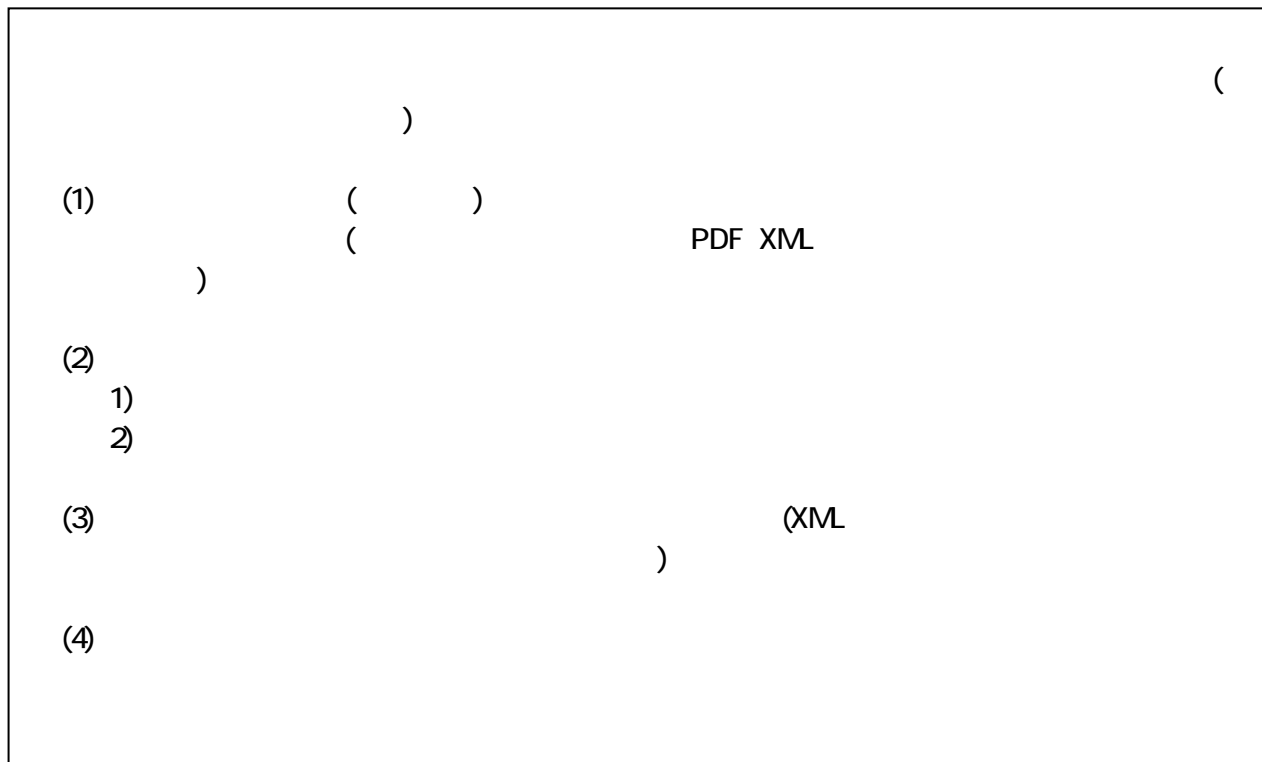
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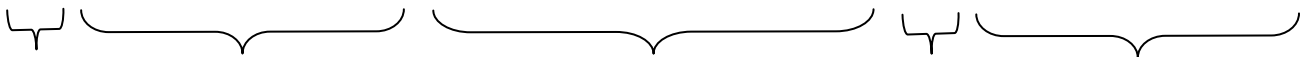
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	HA0002			
	HA0320		HA0305	
	HA0402			HA0406
	HA0502			HA0506
	HA0602		HA0605	
	HA0702			HA0706
	HA3020	HA3010	HA3030	HA3040
	HA3115	HA3110	HA3130	HA3140
	HA3215	HA3210	HA3230	HA3240
	HA3315	HA3310	HA3330	HA3340
	HA3415	HA3410	HA3430	HA3440
	HA3515	HA3510	HA3530	HA3540
	HA3615	HA3610	HA3630	HA3640
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3-4

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CALS/EC

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(SXF)

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4-1-1

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XML DTD

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			PDF *1	REPORT	()
				REPORT/ORG	
	34		SXF *2	DRAWING	CAD ()
			JPEG	PHOTO/PIC	()
	JPEG,TIFF(G4)	PHOTO/DRA			
			PDF *1	REPORT	()
				REPORT/ORG	
			XML *4	BORING/DATA	()
			PDF *1	BORING/LOG	
			SXF *2	BORING/DRA	
			SXF *2	DRAWING	()
			SXF *2	DRAWING	CAD ()
			PDF *1,JPEG	BORING/TEST	()
			JPEG	BORING/PIC	
			JPEG	PHOTO/PIC	()
		-	BORING/OTHERS	()	
			PDF,TXT *3	SURVEY/KITEN	()
			PDF,TXT *3	SURVEY/SUIJUN	
			DM PDF,TXT *3	SURVEY/CHIKAI	
			PDF,TXT *3	SURVEY/ROSEN	
			PDF,TXT *3	SURVEY/KASEN	
			PDF,TXT *3	SURVEY/YOUCHI	

*1 :

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SXF (SFC)

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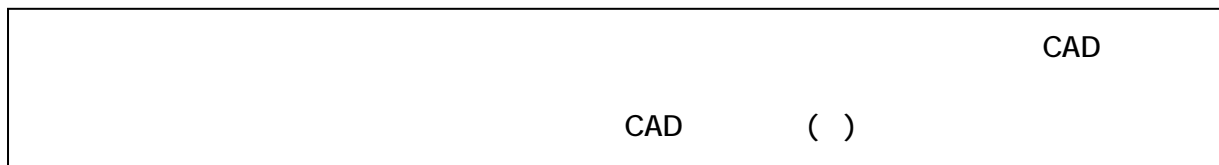
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4) REPORT_01.PDF REPORT_m.PDF

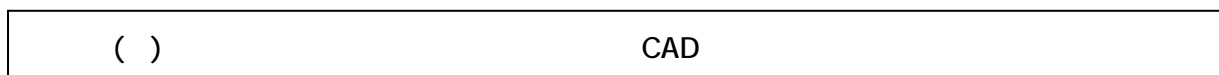
4-3

4-3-1

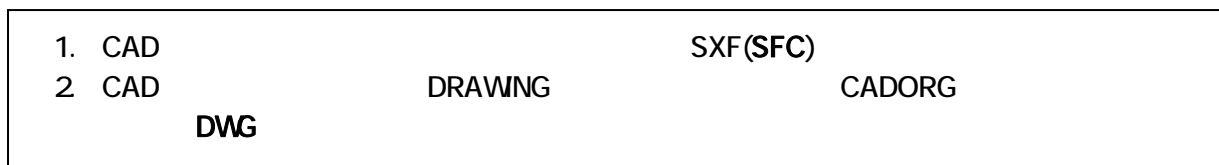


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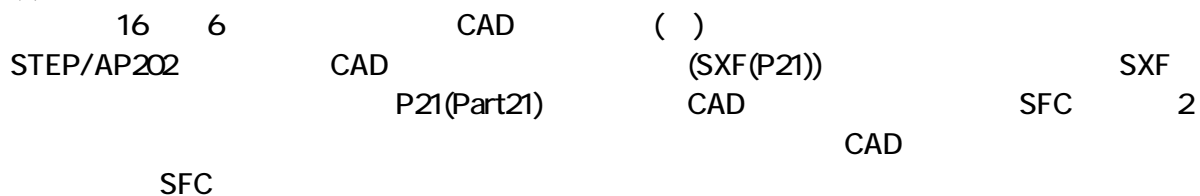
CAD () 16 6 (2 2-1)



4-3-2 CAD [()]



(1) CAD

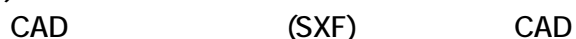


(2) CAD

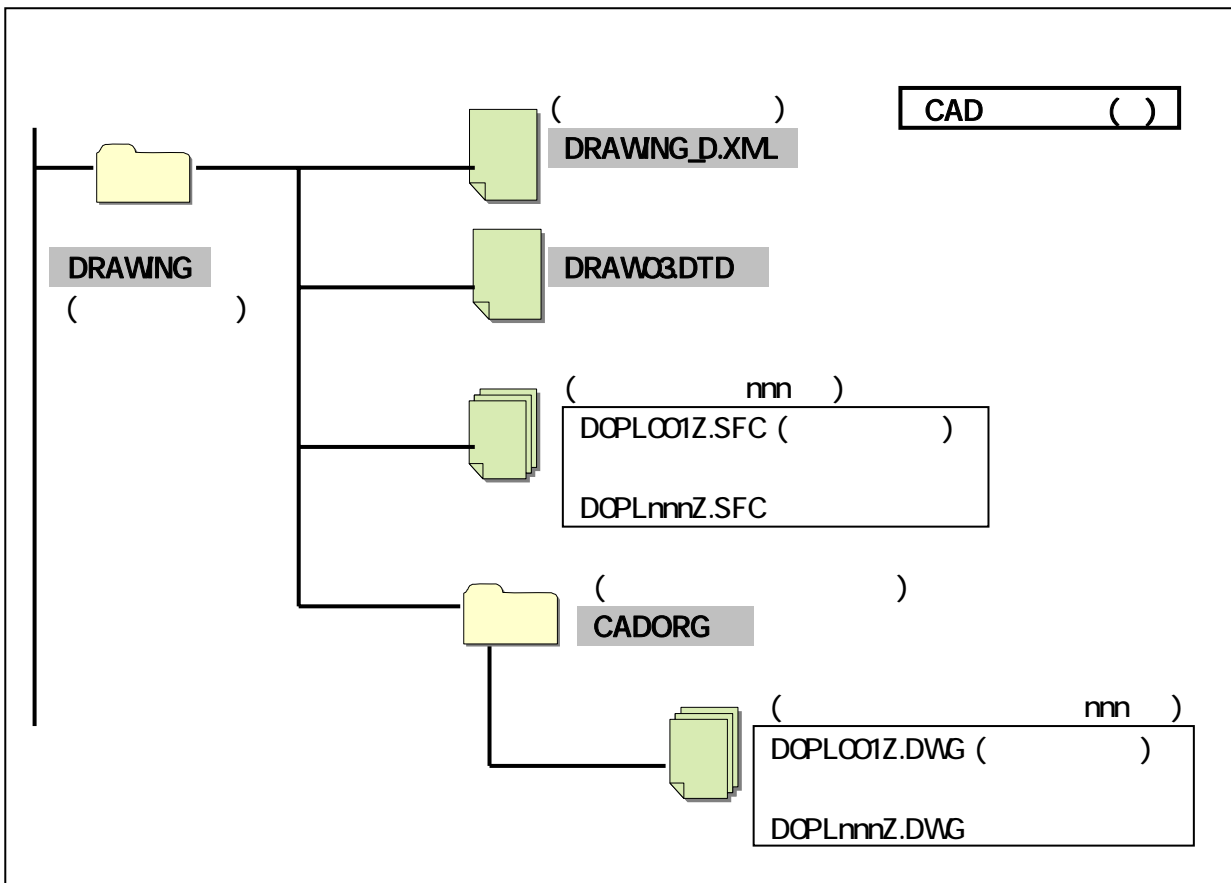


DXF
4-3

(3) SXF



<http://www.cals.jacic.or.jp/cad/>



4-1

4-3 (CAD () 16 6)

No						
1	*A)	2004 06-01	()		30	
2)*B)	035	()	34 001	3	
3			()	100 999	3	
4			() (3)		127	
5			(CADORG)		8	
6			(5) (CAD)		127	
16			(CADORG)		8	

4-3-3

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(1)

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A A1

1.4mm

(2) [20mm ()]

() () H134)

100			
30	70		
			a
			a
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			a
			a
			c
			a
			a
			a

a = 10
b = 15
c = 20

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100					
					d
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20	40	20	20		

d = 7

4-4

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() 1,280 x () 960

2)

JPEG

TIFF(G4)

JPEG

TIFF(G4)

TIFF(G4)

(200dpi)

JPEG

() 1,280 x () 960

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5-1

		SURVEY			KITEN	SUIJYUN	CHIKAI	ROSEN
KASEN	YOUCHI	DOC			KASEN	YOUCHI		
	KITEN	SUIJYUN	CHIKAI	ROSEN	WORK	DATA	OTHR	
	(() 2-2)			

(1)

KITEN
 SUIJYUN
 CHIKAI
 ROSEN
 KASEN
 YOUCHI
 DOC ()

DOC (KITEN SUIJYUN CHIKAI ROSEN KASEN YOUCHI)
 WORK DATA OTHR
 WORK
 DATA
 OTHR
 WORK DATA

(2)

- 1)
- 2)
- 3) XSL

5-2

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(1)

1 () (TIFF
 G4 stripped AO 400dpi) CAD
 : -BGD-RSTR
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 SXF OCF CAD OCF CAD

(2) 2

CAD ()
 DWG ()
 CAD ()
 DWG 1 SXF(SFC)

- BGD 3 Q15mm-----Q13mm
- BGD-HICN() 4 Q20mm-----Q18mm
- BGD-LWCN() 2 Q10mm-----Q13mm
- BGD-CRST() 3 Q15mm-----Q13mm
- BGD-EXST() 3 Q15mm-----Q13mm
- BGD-HTXT() 3 Q15mm-----Q13mm

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1 8 (Q10 Q15 Q20 Q30 Q40)

SXF 4-7

CAD () 1 2 4 3

4-6

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		CAD	
1	Q15 mm	Q13 mm	
2	Q10	Q13	
3	Q15	Q13	
4	Q20	Q18	
6	Q30	Q25	
8	Q40	Q35	

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SX FV20

H1331 Rev5.41

		(width)	()
Q13mm	1	Q13	
Q18mm	2	Q18	
Q25mm	3	Q25	
Q35mm	4	Q35	
Q5 mm	5	Q5	
Q7 mm	6	Q7	
1 mm	7	1	
1.4 mm	8	1.4	
2 mm	9	2	
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	15		
	16		
JIS B 3402:1999 (ISO 128-21) (2000.3)			

Q10 Q15 Q20 Q30 Q40

SXF

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7. () [()]

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(3) CAD	()	()	()

(1) () () [H1606]

1		10		(Microsoft Word2000 Excel2000 xxx.doc xxx.exl)
2	1	10	1	1 10Mbyte ()
3		11	4	(ZIP LZH LHA)
4		20	(CG) () A3 ()	(1) (2) CG (3) (): (4) A3 ()
5	PDF	Gui de P6	PDF	50

6		Guide P6			1 () 10Mbyte PDF (1 1) 10Mbyte 1 10Mbyte ()
7		Guide P6			()

(2) () () [H1804]

1		6	()		1/8 () 100 ()1,280 x ()960
2		6	JPEG (G4) JPEG ()		TIFF(G4) (200dpi) JPEG () ()1,280 x ()960
3		7			() PICORG

(3) CAD () () [H1804]

1	2 2-2 2-2-1	5	A1 2-1	()	A1 2-1 - - 1 1QVB
2	2-2-2	6	2-2 2-3		- -
3	2-2-4	8			5-7-2
4	2-3 CAD 2-3-1 CAD	8	SXF CAD SFC SXF(P21)	P21(Part21) 2	CAD CAD SXF(SFC) 5-5CAD
5	2-3-2	11			0 (0)
6	2-3-2	11		() ()	
7	2-3-3	12	OTRS WORK		

8	2-3-3	12 24			() () ()
9	2-3-5	15	(RGB 16)		() 5-6 ()
10	2-3-7	17	JIS		JIS () ()
11	2-4	21			(DRAWING) ())
12	2-5 (1) CAD	26			
13	2-5 (2)	26	CAD (1) (2) () (3) 50m ()		(1) 30 3 1/25,000 (2) (3) 29 30
14	3 3-2 3-2-1 (LC)	32			13

15	3-2-2 (PL) (IP)	33	20m 100m NO.20		200m ()
16	3-3 3-3-1 (PR)	44	() 3-2 ()		() 3-2
17	3-3-2 (PL)	47	()		()
18	3-3-7 (PS)	51			
19	4-3 4-3-3	74			
20	5-2 5-2-1 (LC)	83			13
21	6-2 () 6-2-1 (LC)	103			13
22	6-3 6-3-1 (LC) 6-3-2 (SL)	109			13

(4) () () [H1606]

1	2 2-1 (OTHS)	4 6	(OTHERS) ()		
2	2 2-2 2-4	22	2-4()		() ()
3	3 3-2	32	(7)		(64)
4	4 4-1 4-1	34	() DM CAD	PDF	DM CAD DWG PDF
5		34	() PDF TXT		PDF () TXT
6	4 4-1 4-1 ()	35	4-1		() PDF PDF KJAZ1mm.PDF

7	4-1 (2)	35	PDF CAD PDF	PDF (CAD CAD CAD PDF)	
8	(3)	35	PDF PDF	(1 10MB)	
9	(4)	36	PDF PDF	(1 10MB)	
10	(5)	36	PDF	1 10MB	
11	(6)	36	PDF PDF PDF 1 1	(1 10MB)	
12	(8)	36	PDF	1 10MB	
13	(9)	36	PDF	PDF	
14	4-1 (2)	36	PDF CAD PDF	DM DWG PDF (PDF)	

15	(3)	37	PDF PDF	(1 10MB)
16	(4)	37	PDF	1	10MB
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18	(7)	37	PDF	1	10MB
19		37	4-1	()
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21	4-2	42	(1)DM CAD (3)DM	DM DM	DM CAD DM (a) GIS : DM (b) : CAD SXF(SFC) (DWG)
22		42	(3)DM DM DM	DM DM	DM : DM : DM
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24	() (2)	42	200dpi		200dpi 10VB () 1
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26	() (2)	43	200dpi		200dpi 10VB () 1

27	(2)	43	PDF CAD PDF		CAD (DWG) (PDF 200dpi 1 10MB)
28	(3)	44	PDF 200dpi		200dpi 1 10MB ()
29	(1)	45	DM DM DM CAD		DM CAD DWG DM (11)
30	(3)	53	DM DM DM DM		DM : DM : DM
31	4 4-3 4-3 ()	48	4-3		
32	4-3 () (1)	48	DM DM CAD		CAD () RCAB1mm.SFC

33	() (2)	48	PDF		1 10MB
34	() (2)	48	PDF 1 100		1 10MB
35	() (3)	48	PDF		1 10MB
36	(IP) (1)	49	PDF		1 10MB
37	() (1)	49	DM DM CAD		CAD (RCAB2mm.SFC)
38	() (2)	49	PDF		1 10MB
39	() (3)	49	PDF PDF		1 10MB
40	(BM) (2)	49	PDF CAD PDF		DM DWG PDF (PDF)
41	(BM) (3)	49	PDF 1 100		1 10MB

42	() (2)	49	CAD		CAD (RZAB1mm.SFC)
43	() (3)	50	PDF 1 100		1 10MB
44	() (1)	50	CAD		CAD (RZAB2mm.SFC)
45	() (2)	50	PDF 1 100		1 10MB
46	() (2)	50	DM DM CAD		CAD (RSAB1mm.SFC)
47	() (3)	50	CAD		CAD (RSAB2mm.SFC)
48	() (4)	50	PDF 1 100		1 10MB

49	() (1)	50	DM DM CAD		CAD (Rhab1mm.SFC)
50	() (2)	50	PDF PDF	1	10MB
51	() (2)	51	PDF	1	10MB
52	4 4-3 4-4 ()	53	4-4		
53	4-3 () (2)	53	PDF PDF	(1 10MB)
54	() (3)	53	PDF PDF	(1 10MB)
55	() (4)	53	PDF PDF	(1 10MB TXT)
56	() (5)	53	PDF	1	10MB

57	((2))	53	PDF PDF		(1 10MB)
58	((3))	53	PDF PDF		(1 10MB TXT)
59	((4))	54	CAD		CAD (WZAB1mm.SFC)
60	((5))	54	PDF 1 100		1 10MB
61	((4))	54	CAD		CAD (WZAB2mm.SFC)
62	((5))	54	PDF 1 100		1 10MB
63	((7))	54	(A1 A2 A3)		WZKB1mm,WZKB2mm k
64	() (1)	54	CAD		CAD WSAB1mm.SFC ()

65	() (2)	55	DM DM CAD		CAD (RHAB1mm.SFC)
66	() (3)	55	PDF 1 100		(1 10MB)
67	() (1)	55	DM DM CAD		CAD (WHAB1mm.SFC)
68	() (2)	55	PDF 1 100		1 10MB
69	() (3)	55	PDF		1 10MB
70	() (1)	55	DM DM CAD		CAD (WTAB1mm.SFC)
71	() (2)	55	PDF PDF		(1 10MB)
72	() (3)	55	PDF		1 10MB

73	() (1)	55	CAD		CAD (WTAB2mm.SFC)
74	() (2)	55	PDF PDF		(1 10VB)
75	4 4-3 4-5 ()	58	4-5		
76	4-3 () (1)	58	DM DM CAD		CAD (YSAF1mm.SFC)
77	() (2)	58	PDF PDF		1 10VB
78	() (3)	58	PDF PDF		1 10VB
79	() (4)	58	PDF		1 10VB

80	() (5)	58	PDF PDF	1 ()	10VB
81	() (1)	58	DM DM CAD	CAD (YKAB1mm.SFC)	
82	() (2)	58	PDF 1 100	1	10VB
83	() (1)	58	PDF	1	10VB
84	() (2)	59	PDF PDF	(1 10VB)	
85	() (3)	59	PDF	1	10VB
86	() (2)	59	DM DM CAD	CAD YAF1mm.*** (CAD CAD PDF 1 10VB)	
87	() (3)	59	PDF PDF	(1 10VB)	

88	() (4)	59	PDF	1	10MB
89	() (1)	59	DM DM CAD	CAD (YYAB1mm.SFC)
90	() (3)	59	PDF	1	10MB
91	() (1)	59	DM DM CAD	CAD (YKAB2mm.SFC)
92	() (3)	60	PDF	1	10MB
93	() (2)	60	PDF CAD PDF	PDF (CAD CAD PDF 1	10MB)
94	() (1)	60	TXT DM DM CAD	CAD (YZAB1mm.SFC)

95	() (2)	60	TXT DM DM CAD		CAD (YZAB2mm.SFC)
96	6 6-1	73			()
97	6-1	73			()
98	6-2	74		6-1	() — 5
99	8 8-31	76	()		

(5) () () [H1606]

1	1 3 3-1	1-4	3-1 (8) OTHR (1) (7)	() ()
2	2 6 6-5	2-8	3	() ()
3	3 2-1	3-1	CAD AD () CAD (2-2)	() ()
4	2-1	3-1	200 400dpi	TIFF 10Mbyte (10Mbyte PC))
5	3-6 3-1	3-2 4)	())
6	3-1	3-2 4))

7		3-24	(x -WORK))
8		3-24	() ())
9	4 2-1	4-1	CAD AD () CAD	()
10	2-1	4-1	200 400dpi	TIFF (10Mbyte PC	10Mbyte)
11	3-8 3-2	4-34)	()
12	3-8 3-2	4-34))
13		4-34	(x -WORK))

14		4-34	() ())
15	5 2	5-1	7 OTHR	(OTHR)
16	6-3	5-9	2000 300	300 (300)
17	6 2 (1)	6-1	PDF	PDF TIFF
18	2 (3)	6-2	PDF PDF 4161: () 4162 ()	(XML) 4161: ()

19	5 5-5	6-15			
20	7 1	7-1	2 6		()

8 [()]

8-1

7. ()
CALC/EC Word

(1)

	19 (2007)			
	19 (2007)		19 (2007)	
	/			
	(TEL)			
	(e-mail)			
	(TEL)			
	(e-mail)			

(2)

(1)	<REPORT>		
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			(SFC & DWG)
(3)	<PHOTO>		
(4)	<SURVEY>		
(5)	<BORING>		

(3)

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	()	
		127
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	2007	11 25
	200731301125	
XML	<	>
	>200731301125</	
	A2007HA3130D1125	
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1)

		XML ()
		SXF (SFC)
		CAD , SXF
		Word() / ()
		Excel()
		Word() / ()
		Excel()
		.doc(Word) / .jtd() / .xls(Excel)

2)

			XML ()
			SXF (sfc)
			CAD , SXF
			(DWG)
			CAD
			DRAWING/CADORG ()

3)

			XML ()
			JPEG/(:)
			JPEG TIFF(G4)/ ()

4)
4)-1

		XML ()	
		JPEG/(:)	
1	2	/	
<WORK>			PDF
		()	()
			PDF
<DATA>			PDF
		()	TXT
		()	()
<OTHS>			PDF
		GPS	

4-2

<SUJYUN>			XML ()		
	1	2		/	
	<WORK>				PDF
				()	()
					PDF
	<OTHS>				PDF

4-3

		XML ()					
	1	2		/			
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		<SATU_*>			TXT	()	
					PDF		
							()
						PDF	(
						DM)
					()	PDF	
					()		
							(
)
						()	
		<KUSAN_*>			TXT	()	
					PDF		
					TXT		
<ZUKA_*>			PDF	TS			
				()			
				PDF	()		
					()		
					()		
					()		
				DM()			
				(*1)			

4-3

<CHKEI>	1	2	/		
	<WORK>	<ZUHEN_*>		PDF	
		<MPDG_*>		PDF	
		<OCHK_*>		PDF ()	
	<DATA>		DM	DM	TS DM()
			DM	DM	TS DM()
			DM	DM	TS DM()
<OTHS>			PDF	-	
			PDF	-	

1

(CH*)

(CZ*)

1	2		/	
		(2)		
		(2)		TS
				()
				()
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				()
		(2)		()
		(2)		
		(2)		DM ()

4)- 4

<ROSENI>			XML ()			
	1	2		/		
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						IP
				()	TXT	
				PDF		
		<RZYUO_*>			PDF	BM
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					PDF	IP
		<RZYUO_*>			PDF	BM
				()	TXT	
				PDF		
			()	TXT		
<KUSAN_*>			PDF			
		()	TXT			
<OTHR>			PDF			

		1	2		/	
ROSENI	DATA				()	
					()	
			RCYUSN_*		()	
					()	
			RZYUO_*		()	
					()	
			KUSAN_*		()	
				()		
			RHABA_*		()	

4-5

< KASENI >			XML ()			
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		<WZYUO_*>			PDF	
		<WSINS_*>			PDF	
		<WBOSE_*>			PDF	
	<WKAINA_*>	()	()	PDF		
				PDF		
		()	()	PDF		
	<DATA>	<WKYOR_*>	()		PDF	
				TXT		
				PDF		
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				TXT		
			PDF			

4)-5

< KASENI >	1	2		/	
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			()	TXT	
				PDF	
			()	TXT	
	<OTHR*_*>			PDF	

< KASENI >	1	2		/	
	<DATA>	<WZYUO_*>		()	
				()	
			<WSINS_*>	()	
			<WBOSE_*>	()	
			<WKAINA_*>	()	

	1	2		/	

4)-6

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		<YKYOK_*>		PDF		
		<YKYOS_*>	()	()	PDF	
			()	()	PDF	
	<YTENKN_*>			PDF		
	<DATA >	<YKYOS_*>	()	PDF		
				TXT		
				PDF		
			()	TXT		
		<YMENSK_*>		PDF		
				TXT		
()			PDF			
			TXT			

4)-6

	1	2	/	
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	<OTHR_*>		PDF	
		ファイル説明書 等		

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	1	2	/	

4-7

(DOC)

< DOCI >	1	2		/	
			(SPEC)	PDF	
			(MEET)		
			(SUNRP)	()	

5)

				/
	BORING			XML ()
		DATA		XML ()
		LOG		PDF
		DRA		SXF(SFC)
	BORING 2			SXF(SFC)
				SXF(SFC)
	BORING	PIC		XML ()
				JPEG
				XML
		TEST		XML
				PDF
			()	

1: (SURVEY)
2: DRAWING

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(4)

1)

	()	()	
	()	16 6	13 8
CAD	()	16 6	15 7
	()	18 1	16 6
[]	()	19 4	18 4

2)

		CD-R	1
			1
	()		()
	()		()

3)

()

		Norton Antivirus (ver.)	
		(ver.)	
		Virus Scan (ver.)	
		(ver.)	
		1	1

4)

9.

[()]

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(2)

()			

(3)

()		

(5)

(REPORT)		
(BORING)		
(SURVEY)		
(DRAWING)		
(PHOTO)		

(5)

(TEL e-mail)	

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(6)

1Q [()]

(1)

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(6)

CD-R	CD-R
(CD-R)	()

(7)
