F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	907	259
STA. 1200+00.00	TO STA. 1365+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* (1516.1, 1717 & 1818) R-9

62695

DRAINAGE STRUCTURE SCHEDULE

STRUCTURE NUMBER	STATION	OFFSET	STRUCTURE TYPE		DIA.	FRAME & LID	TOP OF FRAME	N INV.	E INV.	S INV.	W INV.
			MH	CB							
11	NOT USED	- -	-	-	-	-	-	-	-	-	-
12	7447+82.84	18.0 LT		A	4'	T20 F&G	14.12	8.77		8.77	
13	7447+82.84	4.0 RT		A	4'	T20 F&G	14.09			8.84	
21	99+19.26	51.5 LT	A		4'	T1F CL	5.62	0.04	-6.60		0.04
22	7447+21.19	4.0 RT		A	4'	T20 F&G	12.15			6.90	
23	7445+85.89	4.0 RT		A	4'	T20 F&G	7.89			2.64	
24	7445+84.33	18.0 LT		A	4'	T20 F&G	8.11	2.57		2.57	
25	100+66.07	51.5 LT	A		4'	T1F CL	4.62	-7.22	-7.72		-7.22
26	102+17.96	50.0 LT	A		4'	T1F CL	0.82	-8.30	-4.76		-8.30
27	7444+17.14	4.0 RT		A	4'	T20 F&G	2.66	-2.59			
28	7444+17.23	18.0 LT		A	4'	T20 F&G	3.02			-2.23	
29	7443+59.81	4.0 RT		A	4'	T20 F&G	1.33			-3.92	
210	7443+00.00	4.0 RT		A	4'	T20 F&G	0.39	-4.89			-4.89
211	7441+62.45	2.0 RT		A	4'	T20 F&G	-0.41		-5.60		
212	7442+39.86	3.7 RT		A	4'	T20 F&G	-0.06		-5.47		-5.47
213	103+21.14	42.4 LT		A	4'	T20 F&G	0.51		-4.74		-4.74
214	102+17.96	86.5 LT	A		5'	T1F CL	5.92	-2.66 (E)	-8.93	-8.43	-0.98
215	101+52.83	92.2 LT		A	4'	T1F CL	9.71		4.46		
216	103+52.07	74.8 LT	A		5'	T1F CL	4.97		-9.49	-4.92	-9.45
217	104+00.00	65.4 LT		C	2'	T1F OL	3.08		-1.77		
31	7440+23.43	1.0 LT		A	4'	T20 F&G	-0.81	-6.06			
32	106+26.20	49.6 LT	A		4'	T1F CL	1.77			-6.11	-8.62
33	7440+94.82	0.6 RT		A	4'	T20 F&G	-0.72	-6.01			
34	105+56.46	56.2 LT	A		4'	T1F CL	3.12		-8.88	-6.05	-8.89
51	7429+22.06	4.0 RT		A	4'	T20 F&G	13.33			8.08	
52	7429+22.06	18.0 LT		A	4'	T20 F&G	13.37		8.02		8.02
53	7428+06.29	4.0 RT		A	4'	T20 F&G	10.44		5.19		
54	7428+06.17	18.0 LT		A	4'	T20 F&G	11.19		5.13		5.13
55	137+83.90	53.4 LT	A		4'	T1F CL	2.69	-2.89	-9.67		-2.89
61	139+85.09	53.6 LT	A		5'	T1F CL	6.06	-12.76	-0.77(N)	-10.76	
62	141+58.15	52.1 LT	A		5'	T1F CL	3.30	-15.17		-13.17	-3.53
63	7425+91.41	4.0 RT		A	4'	T20 F&G	5.09			-0.16	
64	7425+91.58	18.0 LT		A	4'	T20 F&G	5.84	-0.22			-0.22
65	7424+05.82	4.0 RT		A	4'	T20 F&G	1.61	-3.64			
66	142+08.97	47.7 LT		A	4'	T20 F&G	2.57	-2.68		-2.68	
67	7424+68.20	18.0 LT		A	4'	T20 F&G	3.13		-2.12		
68	7423+61.17	4.0 RT		A	4'	T20 F&G	1.31	-3.94		-3.94	-3.94
69	7422+40.45	4.0 RT		A	4'	T20 F&G	0.94		-4.36	-4.36	
610	142+08.33	36.0 LT	PLUG						-3.09		
611	NOT USED	- -	-	-	-	-	-	-	-	-	-
612	143+81.30	40.7 LT	A		5'	T1F CL	1.88	-15.64		-15.64	-4.96
613	7422+92.25	4.0 RT		A	4'	T20 F&G	1.10	-4.15			-4.15
614	142+55.37	50.2 LT	A		5'	T1F CL	2.22	-15.39	-4.61	-15.37	-4.61
614						INVERT	FROM	PIPE 615		-4.61	
615	142+37.87	46.6 LT		A	4'	T20 F&G	2.42	-2.83			
616	142+64.23	45.8 LT		A	4'	T20 F&G	2.29				-2.96
71	145+00.02	62.2 LT		A	4'	T1F OL	1.35		-4.50		-4.50
72	NOT USED										
73	145+65.63	51.2 LT		A	4'	T20 F&G	0.64			-4.61	
74	147+26.47	40.2 LT		A	4'	T20 F&G	0.73		-4.52		-4.52
75	145+11.87	56.9 LT	A(2)		6'	T1F CL	1.11	-15.90		-15.90	-7.39
76	145+40.93	55.6 LT	A(2)		6'	T1F CL	1.18			-12.63	
77	144+62.45	57.6 LT		A	4'	T20 F&G	0.90	-4.35			
78	146+26.95	69.7 LT		C	2'	T1F OL	7.62		2.77		

STORM SEWER SCHEDULE

PIPE NUMBER	UPSTREAM STATION	DOWNSTREAM STATION	TYPE	DIA. (IN)	LENGTH (FT)	SLOPE (%)	T.B. (CU.YD)
11	NOT USED	-	-	-	-	-	-
12	7447+82.84	99+19.26	2	12	59.0	14.80	7.0
13	7447+82.84	7447+82.84	2	12	14.0	0.44	14.2
21	99+19.26	100+66.07	3	12	143.0	0.44	0.0
22	7447+21.19	99+19.26	2	12	47.0	14.60	21.2
23	7445+85.89	7445+84.33	2	12	15.0	0.44	15.3
24	7445+84.33	100+66.07	2	12	16.0	29.00	2.6
25	100+66.07	102+17.96	3	18	148.0	0.40	0.0
26	102+17.96	102+17.96	3	18	32.0	0.41	32.5
27	7444+17.14	102+17.96	2	12	16.0	0.44	16.3
28	7444+17.23	102+17.96	2	12	13.0	19.46	7.8
29	7443+59.81	103+21.14	2	12	38.0	2.16	38.6
210	7443+00.00	103+52.07	2	12	7.0	0.44	7.1
211	7441+62.45	7440+94.82	2	12	64.0	0.64	65.1
212	7442+39.86	104+20.69	2	12	18.0	0.44	12.6
213	103+21.14	7443+00.00	2	12	35.0	0.44	35.6
214	102+17.96	103+52.07	3	24	130.0	0.40	349.1
215	101+52.83	102+17.96	2	12	61.0	11.67	0.0
216	103+52.07	104+20.69	3	24	67.0	0.40	124.9
217	104+00.00	7442+39.86	2	12	11.0	33.00	11.2
31	7440+23.43	106+26.20	2	12	11.0	0.44	2.7
32	106+26.20	105+56.46	2	18	67.0	0.40	0.0
33	7440+94.82	105+56.46	2	12	10.0	0.44	2.6
34	105+56.46	104+20.69	2	18	114.0	0.40	0.0
51	7429+22.06	7429+22.06	2	12	14.0	0.44	14.2
52	7429+22.06	137+83.90	2	12	126.0	8.66	15.0
53	7428+06.29	7428+06.17	2	12	14.0	0.44	14.2
54	7428+06.17	137+83.90	2	12	39.0	20.56	2.6
55	137+83.90	139+85.09	4	15	191.0	0.57	0.0
61	139+85.09	141+58.15	4	24	164.0	0.25	144.0
62	141+58.15	142+55.37	4	30	90.0	0.22	262.0
63	7425+91.41	7425+91.58	2	12	14.0	0.44	14.2
64	7425+91.58	139+85.09	2	12	29.0	1.90	8.1
65	7424+05.82	7423+61.17	2	12	41.0	0.73	41.7
66	142+08.97	142+17.90	2	12	14.0	0.44(5)	14.2
67	7424+68.20	141+58.15	2	12	10.0	14.10	10.2
68	7423+61.17	142+55.37	2	12	15.0	4.47	15.3
69	7422+40.45	143+81.30	2	12	16.0	3.75	16.3
610	142+08.33	142+08.97	2	12	8.0	3.17	8.1
611	NOT USED	-	-	-	-	-	-
612	143+81.30	145+11.87	4	30	124.0	0.21	347.8
613	7422+92.25	7422+40.45	2	12	48.0	0.44	48.8
614	142+55.37	143+81.30	4	30	119.0	0.22	151.5
615	142+37.87	142+55.37	2	12	13.0	13.69	13.2
616	142+64.23	142+55.37	2	12	6.0	27.50	6.1
71	145+00.02	145+11.87	2	12	8.0	0.44	1.1
72	NOT USED	-	-	-	-	-	-
73	145+65.63	7420+69.46	2	12	19.0	14.88	19.3
74	147+26.47	147+33.46	2	12	7.0	0.44	7.1
75	145+11.87	145+26.66	4	30	9.0	0.22	30.7
76	145+40.93	145+26.66	3	36	8.0	0.20	22.5
77	144+62.45	145+00.02	2	12	34.0	0.44	17.1
78	146+26.95	147+26.47	2	12	100.0	7.29	17.7
91	NOT USED	-	-	-	-	-	-

NOTES:

(1) INDICATES CATCH BASIN WITH HALF TRAP, 4' DIAMETER, TYPE 1 FRAME & OPEN LID OR TYPE 20 FRAME & GRATE.

(2) INDICATES MANHOLE, TYPE A, 6' DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE.

(3) INDICATES SEWER LATERAL WITH 45° CONNECTION. SEE SHEET "DETAIL OF STORM SEWER CONNECTIONS TO SEWER."

(4) INDICATES SEWER LATERAL WITH 30° CONNECTION. SEE SHEET "DETAIL OF STORM SEWER CONNECTIONS TO SEWER."

(5) INDICATES SEWER LATERAL WITH 60° CONNECTION. SEE SHEET "DETAIL OF STORM SEWER CONNECTIONS TO SEWER."

(6) INDICATES MANHOLE TYPE A WITH FLAT SLAB TOP, IDOT STANDARD 602601.

CASING SIZES

PIPE SIZE	CASING SIZE (OD)*	CASING WALL THICKNESS
12"	30"	0.500"
24"	42"	0.625"
30"	48"	0.688"
36"	48"	0.688"

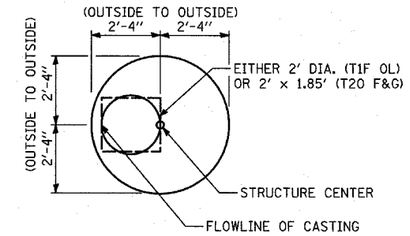
*ALL STEEL CASING SHALL MEET OR EXCEED ASTM A-139, GRADE B.

SEE THE DRAINAGE & UTILITY PLANS FOR LOCATION OF ALL STRUCTURES.

CATCH BASIN STATIONS ARE MEASURED TO CENTER OF STRUCTURE.

CATCH BASIN OFFSETS ARE MEASURED TO FLOWLINE OF CASTING. (SEE BELOW)

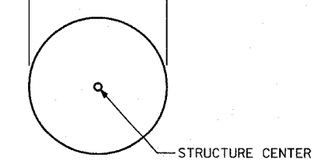
FLOWLINE OF CASTING IS LOCATED AT ℄ OF STRUCTURE FOR CATCH BASINS LOCATED IN SWALE AND GORE AREAS.



CATCH BASIN

(PRECAST REINFORCED CONCRETE SECTION)

MANHOLE STATIONS AND OFFSETS ARE MEASURED TO CENTER OF STRUCTURE. (SEE BELOW)



MANHOLE

SHEET 1 OF 10

REVISIONS	
NAME	DATE
REVISED	05/06/05
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

DRAINAGE SCHEDULE
PROPOSED STRUCTURES
PROPOSED STORM SEWERS

SCALE: NONE DRAWN BY: NB

DATE: MARCH 25, 2005 CHECKED BY: DA

TYLIN INTERNATIONAL

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