F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	907	261
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 (CONT.)

STRUCTURE NUMBER	STATION	OFFSET	STRUCTURE TYPE		DIA.	FRAME & LID	TOP OF FRAME	N INV.	E INV.	S INV.	W INV.
			MH	CB							
121	7401+86.99	4.0 RT		A	4'	T20 F&G	0.42		-5.58		
122	1225+71.76	84.1 LT	A		5'	T1F CL	0.03	-9.56	-6.80	-8.56	
123	1228+85.77	78.8 LT	A(6)		5'	T1F CL	-3.23	-11.49		-10.49	
124	7400+32.91	4.0 RT		A	4'	T20 F&G	-0.94				-6.29
125	NOT USED						-	-	-	-	-
126	1230+61.54	76.8 LT	A		5'	T1F CL	-4.75	-11.83	-11.83	-11.83	
131	NOT USED										
132	1231+28.39	79.4 LT		C	2'	T1F OL	-5.35	-10.20			
133	1233+71.37	76.7 LT	A		5'	T1F CL	-1.84	-15.20	-17.20		
134	1233+71.37	3.9 RT	A		7'	T1F CL	-7.00	-17.57		-17.57	-17.57
135	1233+81.87	76.7 LT	PLUG							-15.16	
141	7208+54.02	4.0 RT		A	4'	T20 F&G	0.71				-5.19
142	7209+52.39	4.0 RT		A	4'	T20 F&G	0.82		-4.44		-4.44
143	1245+77.37	91.9 LT	A		4'	T1F CL	1.52	-7.97	-4.17		
144	1245+69.98	72.1 LT	PLUG						-4.48		
145	NOT USED										
146	1245+65.89	55.0 LT		C	2'	T20 F&G	2.16		-2.69		
151	7207+34.39	4.0 RT		A	4'	T20 F&G	-1.14				-6.39
152	1249+00.26	105.1 LT	A		5'	T1F CL	-0.81	-11.18	-11.68	-9.88	-7.73(S)
153	7205+68.71	4.0 RT		A	4'	T20 F&G	-2.63			-7.88	
154	1249+02.97	73.5 LT	A		5'	T1F CL	-1.93	-13.61		-8.76	-11.81
155	7205+79.85	18.0 LT		A	4'	T20 F&G	-2.23				-7.48
156	7205+78.64	4.0 RT		A	4'	T20 F&G	-2.63	-7.91	-7.91	-7.91	-7.91
157	7205+88.58	4.0 RT		A	4'	T20 F&G	-2.62	-7.88			
158	7204+00.00	4.0 RT		A	4'	T20 F&G	-0.68	-5.93			-6.73
159	1252+41.48	77.1 LT	A		5'	T1F CL	-5.18	-16.46		-15.12	
1510	7203+86.05	9.8 RT	A		4'	T1F CL	1.13		-9.69	-9.69	-5.98(S)
1511	7203+84.94	8.2 LT	A		4'	T1F CL	-0.01	-7.61		-5.31	-9.61
1512	7202+89.27	4.0 RT		A	4'	T20 F&G	2.54		-2.72		
1513	7203+84.94	18.0 LT		A	4'	T20 F&G	0.06				-5.51
1514	1248+75.00	101.0 LT		C	2'	T1F OL	-2.76	-7.61			
1515	7206+31.92	4.0 RT		A	4'	T20 F&G	-2.44	-7.69		-7.69	
1516	NOT USED										
1517	1248+87.62	69.6 LT		A	4'	T20 F&G	-1.91	-7.16			
1518	7205+22.20	4.0 RT		A	4'	T20 F&G	-2.45				-7.70
1519	1247+22.75	65.3 LT	PLUG						-6.23		
1520	1247+21.06	55.0 LT		C	2'	T20 F&G	0.12		-5.13		
1521	1248+92.41	55.0 LT		C	2'	T20 F&G	-2.16		-7.41		
1522	NOT USED	- -	-	-	-	-	-	-	-	-	-
1523	1249+42.37	108.2 LT	A		4'	T1F CL	-1.08	-10.92	-7.93	-10.92	
1524	1247+22.76	97.9 LT	A		4'	T1F CL	0.08	-8.84	-6.37	-8.82	
161	7199+78.73	16.8 LT		A(1)	4'	T1F OL	5.75			0.50	
162	1253+42.40	134.4 LT		A(1)	4'	T1F OL	6.54	1.29			
163	7202+11.10	4.0 RT		A	4'	T20 F&G	5.04		-0.21		
164	7202+08.63	18.0 LT		A	4'	T20 F&G	5.15			-0.14	
165	7201+18.56	18.0 LT		A(1)	4'	T1F OL	5.31			0.06	
166	7200+77.00	18.0 LT		A(1)	4'	T1F OL	5.43			0.18	
167	7201+84.30	8.2 LT	A		4'	T1F CL	5.65	-4.67	.07(N)	-4.67	0.26
168	7198+42.84	0.8 RT	A		4'	T1F CL	6.83		1.24	-0.79	
169	1255+78.46	76.8 LT	A(6)		5'	T1F CL	-10.14	-18.30		-17.62	
1610	7200+30.94	18.0 LT		A(1)	4'	T1F OL	5.53			0.28	
1611	7199+33.61	14.2 LT		A(1)	4'	T1F OL	5.98				0.73
1612	7198+43.68	8.9 LT		A(1)	4'	T1F OL	6.61				1.36
1613	1257+42.19	76.2 LT	A		5'	T1F CL	-7.37	-18.62		-18.62	

STORM SEWER SCHEDULE (CONT.)

PIPE NUMBER	UPSTREAM STATION	DOWNSTREAM STATION	TYPE	DIA. (IN)	LENGTH (FT)	SLOPE (%)	T.B. (CU.YD)
121	7401+86.99	1225+71.76	2	12	7.0	17.43	2.6
122	1225+71.76	1228+85.77	2	30	310.0	0.30	0.0
123	1228+85.77	1230+61.54	2	36	171.0	0.20	228.2
124	7400+32.91	7400+22.27	2	12	16.0	0.44(4)	8.8
125	NOT USED	-	-	-	-	-	-
126	1230+61.54	1231+42.86	2	36	74.0	0.20	92.0
131	NOT USED	-	-	-	-	-	-
132	1231+28.39	1231+32.42	2	12	4.0	6.75	4.1
133	1233+71.37	1233+71.37	3	24	75.0	0.50	0.0
134	NOT USED	-	-	-	-	-	-
135	1233+81.87	1233+81.87	3	15	8.0	0.45	8.1
141	7208+54.02	7208+54.20	2	12	12.0	0.44(3)	2.6
142	7209+52.39	1245+77.37	2	12	9.0	0.44	3.9
143	1245+77.37	1247+22.76	2	18	142.0	0.60	0.0
144	1245+69.98	7209+52.39	2	12	8.0	0.44	8.1
145	NOT USED	-	-	-	-	-	-
151	7207+34.39	7207+33.57	2	12	12.0	0.44(4)	2.6
152	1249+00.26	1249+02.97	2	24	27.0	0.48	41.0
153	7205+68.71	7205+78.64	2	12	6.0	0.44	6.1
154	1249+02.97	1252+41.48	2	27	334.0	0.45	655.3
155	7205+79.85	7205+78.64	2	12	14.0	3.07	14.2
156	7205+78.64	1249+42.37	2	12	4.0	0.44	4.1
157	7205+88.58	7205+78.64	2	12	6.0	0.44	6.1
158	7204+00.00	7203+86.05	2	12	12.0	0.44	12.2
159	1252+41.48	1255+78.46	2	36	332.0	0.35	582.7
1510	7203+86.05	1249+42.37	2	18	189.0	0.65	320.3
1511	7203+84.94	7203+86.05	2	18	15.0	0.62	20.9
1512	7202+89.27	7202+89.42	2	12	11.0	0.44(3)	11.2
1513	7203+84.94	7203+84.94	2	12	4.0	2.00	4.1
1514	1248+75.00	7206+31.92	2	12	13.0	0.62	9.3
1515	7206+31.92	1249+00.26	2	12	10.0	0.44	5.6
1516	NOT USED	-	-	-	-	-	-
1517	1248+87.62	1249+02.97	2	12	12.0	13.33	12.2
1518	7205+22.20	7205+24.05	2	12	10.0	0.44(3)	10.2
1519	1247+22.75	1247+22.76	2	12	31.0	0.44	25.6
1520	NOT USED	-	-	-	-	-	-
1523	1249+42.37	1249+00.26	2	18	38.0	0.65	52.3
1524	1247+22.76	1249+00.26	2	18	173.0	0.60	0.0
161	7199+78.73	7199+87.51	2	12	8.0	1.76	8.1
162	1253+42.40	1253+57.39	2	12	11.0	0.45	11.2
163	7202+11.10	7202+15.88	2	12	8.0	3.00	8.1
164	7202+08.63	7202+15.88	2	12	7.0	4.43	7.1
165	7201+18.56	7201+25.27	2	12	12.0	0.44(3)	12.2
166	7200+77.00	7200+83.20	2	12	7.0	1.57	7.1
167	7201+84.30	7202+15.88	2	18	128.0	1.00	155.1
168	7198+42.84	7199+87.51	2	12	141.0	1.00	89.1
169	1255+78.46	1257+42.19	2	36	159.0	0.20	290.8
1610	7200+30.94	7200+39.06	2	12	11.0	0.44(3)	11.2
1611	7199+33.61	7199+37.54	2	12	7.0	31.43	7.1
1612	7198+43.68	7198+42.84	2	12	4.0	3.00	4.1
1613	1257+42.19	1257+97.56	2	36	50.0	0.20	84.5
1614	1253+57.39	7201+70.67	2	12	20.0	0.44(3)	20.3
1615	7199+87.51	7201+84.30	2	18	93.0	1.00	99.1
1616	7202+15.88	7203+84.94	2	18	166.0	1.00	160.4

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"

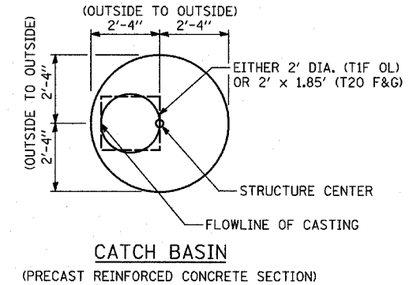
*ALL STEEL CASING SHALL MEET OR EXCEED ASTM A-139, GRADE B.

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)

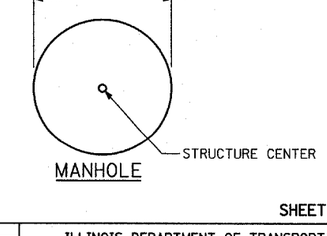
FLOWLINE OF CASTING IS LOCATED AT ℄ OF STRUCTURE FOR CATCH BASINS LOCATED IN SWALE AND GORE AREAS.



CATCH BASIN

(PRECAST REINFORCED CONCRETE SECTION)

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



MANHOLE

SHEET 3 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