F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	860	258
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* (1516.1, 1717 & 1818) R-8

62694

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							
2110	8801+19.47	6.6	LT		A(1)	4'	T1F OL	8.97	3.72			
2111	8801+56.14	11.5	LT		A(1)	4'	T1F OL	8.75	3.50		3.50	
2112	8802+43.26	18.5	LT		A(1)	4'	T1F OL	8.26	3.01		3.01	
2113	8802+93.67	18.7	LT		A(1)	4'	T1F OL	7.99		2.74	2.74	
2114	8801+63.76	2.1	LT	A		4'	T1F CL	8.94	-0.57		3.47	
2115	8801+92.81	15.2	LT		A(1)	4'	T1F OL	8.50	3.25			
2116	NOT USED	-	-	-	-	-	-	-	-	-	-	-
2117	2316+84.14	79.8	RT	A		5'	T1F CL	-3.70	-16.49		-16.49	-10.73
2118	8804+20.00	8.3	LT	A		4'	T1F CL	6.38	-4.79	0.79	-4.79	0.79
231	2318+40.88	87.4	RT		A	4'	T20 F&G	-3.06				-9.06
232	2318+41.04	75.0	RT	A		5'	T1F CL	-2.67	-15.93	-9.50	-15.93	
233	8805+70.06	4.0	RT		A	4'	T20 F&G	1.54				-3.71
234	8805+70.00	18.0	LT		A	4'	T20 F&G	1.94		-3.66		
235	8805+70.06	8.1	LT	A		4'	T1F CL	1.87	-7.08	-3.74	-6.98	-3.74
236	2318+92.00	63.0	RT		C	2'	T20 F&G	-2.17		-8.11		-8.11
237	2319+28.00	81.2	RT	A		5'	T1F CL	-1.62	-13.64	-8.45	-15.64	-8.45
238	2319+26.93	95.0	RT		A	4'	T20 F&G	-1.98				-7.23
239	8806+96.59	18.0	LT		A	4'	T20 F&G	-0.87	-6.12			
2310	8807+18.07	8.0	LT	A		5'	T1F CL	0.05	-6.78		-9.24	-11.24
2311	2320+18.83	75.8	RT	A		5'	T1F CL	-1.22	-11.84	-11.34	-13.34	
2312	8807+10.65	20.7	LT		A	4'	T20 F&G	-0.33	-6.17	-6.17		
2313	8807+40.15	41.1	LT		A	4'	T20 F&G	0.20			-5.05	
2314	8807+30.15	4.0	RT		A	4'	T20 F&G	-0.72	-5.97		-5.97	
2315	8807+50.15	4.0	RT		A	4'	T20 F&G	-0.50			-5.75	
2316	8807+40.15	4.0	RT		A	4'	T20 F&G	-0.60	-5.85		-5.85	
2317	NOT USED	-	-	-	-	-	-	-	-	-	-	-
2318	2320+88.40	63.0	RT		C	2'	T20 F&G	-0.81		-6.97		-6.97
2319	8808+74.59	4.0	RT		A	4'	T20 F&G	0.61				-4.64
2320	8808+74.59	33.7	LT		A	4'	T20 F&G	0.95		-4.77	-4.77	
2321	2321+74.24	81.8	RT	A		4'	T1F CL	-0.65	-10.24		-11.24	
2322	8810+33.38	4.0	RT		A	4'	T20 F&G	1.08				-4.17
2323	NOT USED	-	-	-	-	-	-	-	-	-	-	-
2324	8810+33.38	26.0	LT		A	4'	T20 F&G	1.60		-4.27		-4.27
2325	2323+33.42	85.3	RT	A		4'	T1F CL	0.14	-9.13	-5.82	-9.62	-5.82
2326	2319+29.69	63.0	RT		C	2'	T20 F&G	-1.77		-7.97		
2327	2319+64.67	63.0	RT		C	2'	T20 F&G	-1.57		-6.27		
2328	8806+55.11	4.0	RT		A	4'	T20 F&G	0.16				-5.09
2329	NOT USED	-	-	-	-	-	-	-	-	-	-	-
2330	8808+07.37	4.0	RT		A	4'	T20 F&G	-0.06				-5.31
2331	8809+53.99	4.0	RT		A	4'	T20 F&G	0.68				-4.57
251	2323+53.48	63.0	RT		A	4'	T20 F&G	-0.45		-5.70		
252	2324+51.61	90.0	RT	A		4'	T1F CL	0.32	-8.56	-5.27(N)	-8.56	-6.02
253	2324+51.80	63.0	RT		A	4'	T20 F&G	-0.76		-6.01		
254	2325+19.80	92.8	RT	A		4'	T1F CL	0.38		-5.20	-8.23	-6.51
255	8810+65.14	4.0	RT		A	4'	T20 F&G	1.75			-3.50	-3.50
256	8810+65.14	26.0	LT		A	4'	T20 F&G	2.27		-3.60		
257	2325+20.08	76.3	RT		C	2'	T1F OL	-2.00		-6.85		
258	8812+66.74	4.0	RT		A	4'	T20 F&G	2.27			-2.98	
259	2326+50.46	63.0	RT		A	4'	T20 F&G	-2.04		-7.29		
2510	2326+40.88	89.4	RT	A		4'	T1F CL	-0.16	-12.59	-10.84		-7.40
2511	8813+38.84	14.4	LT	A		4'	T1F CL	3.21	-8.45	-2.37(N)		-10.45
2512	8813+87.11	4.0	RT		A	4'	T20 F&G	3.12				-2.13
2513	9481+97.09	18.0	RT		A	4'	T20 F&G	3.33			-1.92	
2514	2327+35.82	63.0	RT		A	4'	T20 F&G	-2.91		-8.16		

STORM SEWER SCHEDULE

PIPE NUMBER	UPSTREAM STATION	DOWNSTREAM STATION	TYPE	DIA. (IN)	LENGTH (FT)	SLOPE %	T.B. (CU.YD)
2111	8801+56.14	8801+63.76	2	12	7	0.44	7.1
2112	8802+43.26	8802+93.67	2	12	47	0.57	47.8
2113	8802+93.67	8802+93.82	2	12	11	0.44(3)	11.2
2114	8801+63.76	8803+73.22	3	12	206	1.50	271.0
2115	8801+92.81	8802+43.26	2	12	46	0.52	46.8
2116	2316+84.17	2316+84.19	2	12	10	0.44	10.2
2117	2316+84.14	2316+16.41	3	24	63	0.35	0.0
2118	8804+20.00	8805+70.06	2	18	146	1.50	166.8
231	2318+40.88	9470+47.46	2	12	6	7.33	6.1
232	2318+41.04	2316+84.14	3	24	153	0.36	329.0
233	8805+70.06	8805+70.06	2	12	7	0.44	7.1
234	8805+70.00	8805+70.06	2	12	4	2.00	4.1
235	8805+70.06	8807+18.07	2	18	144	1.50	164.5
236	2318+92.00	2318+90.77	2	15	21	0.44(3)	16.3
237	2319+28.00	2318+41.04	3	24	83	0.35	182.8
238	2319+26.93	2319+28.00	2	12	8	0.44	8.1
239	8806+96.59	8807+10.65	2	12	12	0.44	12.2
2310	8807+18.07	2320+18.83	3	18	35	0.30	40.9
2311	2320+18.83	2319+28.00	3	24	87	0.35	131.0
2312	8807+10.65	9472+29.04	2	12	8	0.44(5)	8.1
2313	8807+40.15	2320+18.83	2	12	20	0.44	20.3
2314	8807+30.15	8807+18.07	2	12	12	6.75	12.2
2315	8807+50.15	8807+40.15	2	12	6	1.67	6.1
2316	8807+40.15	8807+30.15	2	12	6	3.67	6.1
2317	NOT USED	-	-	-	-	-	-
2318	2320+88.40	2320+87.99	2	12	18	0.44(3)	2.1
2319	8808+74.59	8808+74.59	2	12	30	0.44	30.5
2320	8808+74.59	2321+74.24	2	12	12	22.60	2.1
2321	2321+74.24	2320+18.83	2	18	151	0.40	19.0
2322	8810+33.38	8810+33.38	2	12	22	0.44	22.4
2323	2323+53.48	2323+33.42	2	12	28	0.44	3.1
2324	8810+33.38	2323+33.42	2	12	22	7.05	3.1
2325	2323+33.42	2321+74.24	2	18	155	0.40	0.0
2326	2319+29.69	2319+28.00	2	12	16	3.00	16.3
2327	2319+64.67	2319+64.71	2	12	19	0.44(3)	19.3
2328	8806+55.11	8806+55.11	2	12	9	0.44(3)	9.2
2329	NOT USED	-	-	-	-	-	-
2330	8808+07.37	2321+08.02	2	12	50	0.44(3)	40.2
2331	8809+53.99	2322+54.58	2	12	51	0.44(3)	31.9
251	NOT USED	-	-	-	-	-	-
252	2324+51.61	2323+33.42	2	12	115	0.50	0.0
253	2324+51.80	2324+51.61	2	12	28	0.44(4)	2.1
254	2325+19.80	2324+51.61	2	12	65	0.50	0.0
255	8810+65.14	8810+65.14	2	12	22	0.44	22.4
256	8810+65.14	2324+51.61	2	12	27	6.18	3.1
257	2325+20.08	2325+19.80	2	12	14	0.44	0.0
258	8812+66.74	2325+19.80	2	12	67	3.32	44.4
259	2326+50.46	2326+40.88	2	15	26	0.44	2.1
2510	2326+40.88	2328+41.42	3	18	195	0.35	0.0
2511	8813+38.84	2326+40.88	3	18	42	0.95	43.3
2512	8813+87.11	8813+87.20	2	12	16	0.44(3)	16.3
2513	9481+97.09	8813+38.84	2	12	46	0.98	46.8
2514	2327+35.82	2327+35.90	2	12	27	0.44(3)	2.1
2515	8815+11.00	8815+10.98	2	12	8	2.16	8.1

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"

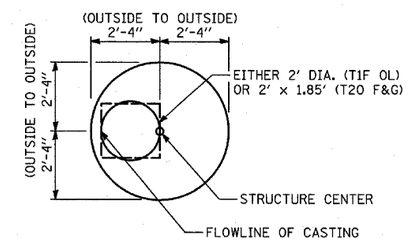
*ALL STEEL CASING SHALL MEET OR EXCEED ASTM A-139, GRADE B.

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)

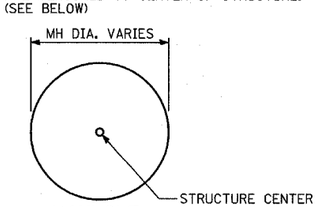
FLOWLINE OF CASTING IS LOCATED AT ℄ OF STRUCTURE FOR CATCH BASINS LOCATED IN SWALE AND GORE AREAS.



CATCH BASIN

(PRECAST REINFORCED CONCRETE SECTION)

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



MANHOLE

SHEET 5 OF 8

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

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

DRAINAGE STRUCTURE SCHEDULE

SCALE: NONE

DATE: MARCH 18, 2005

DRAWN BY: NSB

CHECKED BY: DA

TY·LIN INTERNATIONAL