F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	916	382
STA. 190+65 (NB I-57) 1990+48 (NB FORD) TO STA. 2316+00 (NB RYAN)				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* (1516.1, 1717, & 1818) R-4

62304

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							
2920	2287+66.15	72.0 RT		A	4′	T20 F&G	-11.52		-17.15		
2921	NOT USED	- -	-	-	-	-	-	-	-	-	-
2922	2288+99.27	10.0 LT		A(7)	4′	T20 F&G	-10.34		-16.66	-16.66	
2923	2288+96.63	72.0 RT		A	4′	T20 F&G	-10.73		-16.99		-16.99
2924	2288+05.72	78.9 RT		C	2′	T1F OL	-11.19				-14.69
2925	2285+15.41	69.7 RT		C	2′	T1F OL	-7.73	-12.53			
301	NOT USED	- -	-	-	-	-	-	-	-	-	-
302	2290+47.60	10.0 LT		A(7)	4′	T20 F&G	-9.28		-14.79		-14.79
303	NOT USED	- -	-	-	-	-	-	-	-	-	-
304	2291+97.95	10.0 LT		A(7)	4′	T20 F&G	-8.19		-13.83		-13.83
305	NOT USED	- -	-	-	-	-	-	-	-	-	-
306	2293+73.92	10.0 LT		A(7)	4′	T20 F&G	-6.93		-13.44	-13.44	
311	NOT USED	- -	-	-	-	-	-	-	-	-	-
312	2295+50.01	10.0 LT		A(7)	4′	T20 F&G	-5.80		-12.70		-12.70
313	NOT USED	- -	-	-	-	-	-	-	-	-	-
314	2297+18.99	10.0 LT		A(7)	4′	T20 F&G	-5.15		-11.74	-11.74	
315	2298+58.58	10.0 LT		A(7)	4′	T20 F&G	-4.94		-10.21		
316	NOT USED	- -	-	-	-	-	-	-	-	-	-
317	2300+42.99	10.0 LT		A(7)	4′	T20 F&G	-5.12	-10.56	-10.56		
321	NOT USED	- -	-	-	-	-	-	-	-	-	-
322	2301+97.93	10.0 LT		A(7)	4′	T20 F&G	-5.67		-11.87		-11.87
323	NOT USED	- -	-	-	-	-	-	-	-	-	-
324	2303+47.92	10.0 LT		A(7)	4′	T20 F&G	-6.42	-12.92	-12.92		
325	NOT USED	- -	-	-	-	-	-	-	-	-	-
326	2304+97.94	8.5 LT		A(7)	4′	T20 F&G	-7.11	-13.21	-13.21		
327	NOT USED	- -	-	-	-	-	-	-	-	-	-
328	2306+47.99	8.0 LT		A(7)	4′	T20 F&G	-7.84		-14.68		-14.68
331	2308+08.98	6.8 LT		A(7)	4′	T20 F&G	-8.60		-15.10		
332	2309+47.71	7.0 LT		A(7)	4′	T20 F&G	-9.30		-15.62		
333	2309+66.08	72.0 RT		A	4′	T20 F&G	-9.85		-15.95	-15.95	-15.95
334	NOT USED	- -	-	-	-	-	-	-	-	-	-
335	2310+53.75	7.1 LT		A(7)	4′	T20 F&G	-9.83		-15.68		
336	2310+44.79	70.2 RT		A	4′	T20 F&G	-10.16		-15.99		-15.99
337	NOT USED	- -	-	-	-	-	-	-	-	-	-
338	2311+13.33	7.2 LT		A(7)	4′	T20 F&G	-9.98	-17.05			
339	2311+33.33	7.2 LT		A(7)	4′	T20 F&G	-9.98			-17.05	
3310	2311+23.33	7.2 LT		A(7)	4′	T20 F&G	-9.98	-17.08	-17.08	-17.08	-17.08
3311	NOT USED	- -	-	-	-	-	-	-	-	-	-
3312	NOT USED	- -	-	-	-	-	-	-	-	-	-
3313	2311+13.41	67.5 RT		A	4′	T20 F&G	-10.26	-17.34			
3314	2311+33.42	66.8 RT		A	4′	T20 F&G	-10.23			-17.34	
3315	2311+23.36	67.2 RT		A	4′	T20 F&G	-10.25	-17.37	-17.37	-17.37	-17.37
3316	2311+24.72	75.5 RT	A		5′	T1F CL	-7.04	-17.39		-17.62	-17.40
3317	2312+18.24	7.4 LT		A(7)	4′	T20 F&G	-9.72		-16.82		
3318	2311+87.05	64.7 RT		A	4′	T20 F&G	-9.91			-17.13	-17.13
3319	NOT USED	- -	-	-	-	-	-	-	-	-	-
3320	2309+50.00	78.5 RT		C	2′	T1F OL	-9.90	-15.88			
341	2313+85.01	7.1 LT		A(7)	4′	T20 F&G	-7.98		-15.08		-15.08
342	2313+85.06	66.6 RT		A	4′	T20 F&G	-8.23	-15.37			-15.37
343	2314+24.24	83.9 RT		C	2′	T1F OL	-7.56				-12.19
344	2314+24.07	77.1 RT	A		4′	T1F CL	-6.71	-17.46	-12.21	-15.53	
345	2315+23.10	77.2 RT	A		4′	T1F CL	-5.98	-17.84		-17.84	-13.77
346	2315+15.14	7.9 LT		A(7)	4′	T20 F&G	-6.32		-13.42		
347	2315+17.14	72.0 RT		A	4′	T20 F&G	-6.77		-13.74		-13.74

STORM SEWER SCHEDULE

PIPE NUMBER	UPSTREAM STATION	DOWNSTREAM STATION	TYPE	DIA. (IN)	LENGTH (FT)	SLOPE %	T.B. (CU.YD)
2919	2287+46.09	2287+36.09	2	15	7	0.44	2.3
2920	2287+66.15	2287+66.20	2	12	4	0.44	1.2
2921	2288+90.25	2288+99.27	2	15	8	0.44	2.6
2922	2288+99.27	2288+96.63	2	15	75	0.44	24.7
2923	2288+96.63	2288+96.11	2	15	6	0.44	1.0
2924	2288+05.72	2287+99.05	2	12	4	0.44	0
2925	2285+15.41	2285+24.10	2	12	6	0.44	0
301	2290+38.03	2290+47.60	2	15	9	0.44	3.0
302	2290+47.60	2290+47.00	2	15	78	0.44	25.7
303	2291+97.03	2291+97.95	2	15	5	0.44	1.6
304	2291+97.95	2291+98.07	2	15	86	0.44	28.3
305	2293+62.67	2293+73.92	2	12	10	0.44	2.9
306	2293+73.92	2293+74.06	2	12	66	0.44	19.1
307	2290+47.00	2290+46.73	2	15	9	0.44	1.0
308	2291+98.07	2291+89.19	2	15	11	0.44	1.6
311	2295+48.54	2295+50.01	2	12	6	0.44	1.2
312	2295+50.01	2295+50.06	2	12	56	0.44	16.2
313	2297+12.39	2297+18.99	2	12	7	0.44	2.0
314	2297+18.99	2297+19.13	2	12	66	0.44	19.1
315	2298+58.58	2298+58.58	2	12	66	0.44	19.1
316	2300+58.82	2300+42.99	2	12	15	0.44	4.3
317	2300+42.99	2300+43.00	2	12	66	0.44	19.1
321	2301+98.85	2301+97.93	2	12	5	0.44	1.4
322	2301+97.93	2301+96.77	2	12	66	0.44	19.1
323	2302+58.13	2303+47.92	2	12	10	0.44	2.9
324	2303+47.92	2303+48.07	2	12	66	0.44	19.1
325	2305+07.48	2304+97.94	2	15	9	0.44	3.0
326	2304+97.94	2304+97.79	2	15	99	0.44	32.6
327	2306+45.99	2306+47.99	2	15	7	0.44	1.3
328	2306+47.99	2306+48.17	2	15	78	0.44	25.7
329	2306+48.17	2306+48.93	2	15	17	0.44	1.0
331	2308+08.98	2308+07.09	2	15	72	0.44	23.7
332	2309+47.71	2309+66.08	2	15	74	0.44	24.3
333	2309+66.08	2309+66.10	2	15	8	0.44	2.0
334	NOT USED	-	-	-	-	-	-
335	2310+53.75	2310+44.79	2	12	70	0.44	20.2
336	2310+44.79	2310+44.72	2	12	7	0.44	1.2
337	2311+25.18	2311+23.33	2	15	6	0.44	2.0
338	2311+13.33	2311+23.33	2	15	6	0.44	2.0
339	2311+33.33	2311+23.33	2	15	6	0.44	2.0
3310	2311+23.33	2311+23.36	2	15	67	0.44	22.0
3311	NOT USED	-	-	-	-	-	-
3312	NOT USED	-	-	-	-	-	-
3313	2311+13.41	2311+23.36	2	15	6	0.44	2.0
3314	2311+33.42	2311+23.36	2	15	7	0.44	2.3
3315	2311+23.36	2311+24.72	2	15	6	0.44	2.0
3316	2311+24.72	2310+89.65	2	24	30	0.30	0
3317	2312+18.24	2311+87.05	2	15	71	0.44	23.4
3318	2311+87.05	2311+24.72	2	15	60	0.44	14.5
3319	2308+07.09	2308+07.73	2	15	14	0.44	1.0
3320	2309+50.00	2309+66.08	2	12	15	0.44	4.3
341	2313+85.01	2313+85.06	2	15	66	0.44	21.7
342	2313+85.06	2314+24.07	2	15	37	0.44	12.2
343	2314+24.24	2314+24.07	2	12	4	0.44	0

NOTES:

(1) INDICATES INLET TYPE A, 2′ DIAMETER, 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.

(7) INDICATES CATCH BASIN REQUIRING TEMPORARY SOIL RETENTION SYSTEM WITH INSTALLATION.

(8) ALL STRUCTURE ELEVATIONS IN RESURFACED AREAS COME FROM AERIAL SURVEY AND SHOULD BE VERIFIED IN THE FIELD AND ADJUSTED TO MATCH EXISTING CONDITIONS.

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″

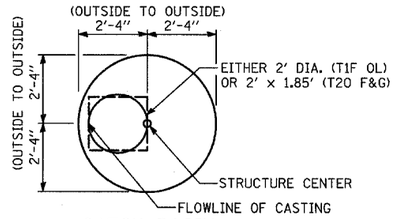
*ALL STEEL CASING SHALL MEET OR EXCEED ASTM A-139, GRADE B.

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)

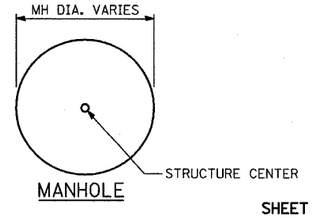
FLOWLINE OF CASTING IS LOCATED AT ℄ OF STRUCTURE FOR CATCH BASINS LOCATED IN SWALE AND GORE AREAS.



CATCH BASIN

(PRECAST REINFORCED CONCRETE SECTION)

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



MANHOLE

SHEET 7 OF 10

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

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

DRAINAGE STRUCTURE SCHEDULE

SCALE: NONE DRAWN BY: RD

DATE: MARCH 7, 2006 CHECKED BY: DA

TYLIN INTERNATIONAL

3:04:37 PM 3/8/2006