F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1818 R-3	COOK	265	125
STA. 2316+00		TO STA. 2367+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

60B17

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							
348	2316+74.13	8.1 LT		A(7)	4'	T20 F&G	-4.26		-10.38		
351	2318+92.03	10.0 LT		A(7)	4'	T20 F&G	-1.82		-7.83		-7.83
352	2320+90.04	8.6 LT		A(7)	4'	T20 F&G	-0.40		-6.69		
353	2320+88.19	72.0 RT		A	4'	T20 F&G	-0.85		-7.01		-7.01
354	2323+46.04	72.0 RT		A	4'	T20 F&G	-0.46		-5.75		
355	NOT USED	- -	-	-	-	-	-	-	-	-	-
356	2319+65.19	72.0 RT		A	4'	T20 F&G	-1.60		-6.31		
357	2319+28.93	72.8 RT		A	4'	T1F OL	-1.70		-8.27		
358	2318+91.48	70.5 RT		A	4'	T1F OL	-2.00		-8.15		-8.15
359	2321+67.13	85.7 RT		C	2'	T1F OL	-1.50	-8.00			
361	2324+41.86	10.0 LT		A(7)	4'	T20 F&G	-0.32		-5.72		
362	2324+51.80	72.0 RT		A	4'	T20 F&G	-0.90		-6.05		-6.05
363	2326+40.52	10.0 LT		A(7)	4'	T20 F&G	-1.52		-8.62		-8.62
364	2326+47.43	72.0 RT		A	4'	T20 F&G	-2.75		-8.95		-8.95
365	2328+30.82	10.0 LT		A(7)	4'	T20 F&G	-3.58		-10.65		
366	2328+39.78	72.0 RT		A	4'	T20 F&G	-4.83		-10.98		-10.98
367	2327+35.85	72.0 RT		A	4'	T20 F&G	-3.60		-9.43		
371	2330+24.52	10.0 LT		A(7)	4'	T20 F&G	-6.04		-13.14		
372	2330+16.39	72.0 RT		A	4'	T20 F&G	-7.11	-13.47			-13.47
373	2331+96.68	10.0 LT		A(7)	4'	T20 F&G	-8.26		-15.36		-15.36
374	2331+96.68	72.0 RT		A	4'	T20 F&G	-9.24			-15.69	-15.69
375	2333+70.69	10.0 LT		A(7)	4'	T20 F&G	-10.49		-16.73		
376	NOT USED	- -	-	-	-	-	-	-	-	-	-
381	2335+58.12	10.0 LT		A(7)	4'	T20 F&G	-11.60			-18.75	
382	2335+48.12	10.0 LT		A(7)	4'	T20 F&G	-11.60	-18.78		-18.78	
383	NOT USED	- -	-	-	-	-	-	-	-	-	-
384	2335+38.12	10.0 LT		A(7)	4'	T20 F&G	-11.60	-18.75		-18.75	
385	2335+13.08	10.0 LT		A(7)	4'	T20 F&G	-11.56	-18.66			-18.66
386	NOT USED	- -	-	-	-	-	-	-	-	-	-
387	NOT USED	- -	-	-	-	-	-	-	-	-	-
388		- -	-	-	-	-	-	-	-	-	-
389	2335+63.01	78.6 RT		A	4'	T20 F&G	-12.08		-17.69		
3810	2335+63.87	87.0 RT	A		6'	T1F CL	-10.34	-18.16		-18.16	-17.72
3811	2336+40.56	10.0 LT		A(7)	4'	T20 F&G	-11.30		-17.26		
3812	2336+24.45	76.5 RT		A	4'	T20 F&G	-11.82		-17.62		-17.62
3813	2336+24.64	84.4 RT	A		4'	T1F CL	-10.34	-17.93		-17.93	-17.12
3814	2336+99.48	74.0 RT		A	4'	T20 F&G	-11.19		-17.09		
3815	2337+87.27	10.0 LT		A(7)	4'	T20 F&G	-10.12		-16.65		
3816	2337+94.72	72.0 RT		A	4'	T20 F&G	-10.36		-16.98		-16.98
3817	2337+94.72	79.4 RT	A		4'	T1F CL	-7.66			-17.26	-17.01
391	2339+65.89	10.1 LT		A(7)	4'	T20 F&G	-8.65		-15.75		-15.75
392	2339+65.84	72.0 RT		A	4'	T20 F&G	-9.04	-16.08			-16.08
393	NOT USED	- -	-	-	-	-	-	-	-	-	-
394	2341+29.79	10.0 LT		A(7)	4'	T20 F&G	-7.30		-14.40		
395	2341+29.79	72.0 RT		A	4'	T20 F&G	-7.69		-14.73		-14.73
396	2343+67.99	10.0 LT		A(7)	4'	T20 F&G	-5.35		-10.97		-10.97
397	NOT USED	- -	-	-	-	-	-	-	-	-	-
398	2340+45.34	82.8 RT		C	2'	T1F OL	-8.80			-15.30	
401	2346+36.69	10.0 LT		A(7)	4'	T20 F&G	-3.14		-10.24	-10.24	
402	2345+99.94	10.0 LT		A(7)	4'	T20 F&G	-3.44	-10.09			
403	2347+97.69	10.0 LT		A(7)	4'	T20 F&G	-1.82		-7.68		-7.68
404	NOT USED	- -	-	-	-	-	-	-	-	-	-
411	2349+88.77	10.0 LT		A(7)	4'	T20 F&G	-0.25		-6.24		
412	2351+87.69	10.0 LT		A(7)	4'	T20 F&G	1.05		-5.29		

STORM SEWER SCHEDULE

PIPE NUMBER	UPSTREAM STATION	DOWNSTREAM STATION	TYPE	DIA. (IN)	LENGTH (FT)	SLOPE %	T.B. (CU.YD)
348	2316+74.13	2316+84.19	2	15	74	0.44	24.3
351	2318+92.03	2318+91.48	2	15	73	0.44	24.0
352	2320+90.04	2320+88.19	2	15	73	0.44	24.0
353	NOT USED	-	-	-	-	-	-
354	NOT USED	-	-	-	-	-	-
355	2318+99.15	2318+92.03	2	15	8	0.44	2.6
356	NOT USED	-	-	-	-	-	-
357	NOT USED	-	-	-	-	-	-
358	NOT USED	-	-	-	-	-	-
359	2321+67.13	2321+74.24	2	12	5	0.44	0
361	2324+41.86	2324+51.80	2	15	75	0.44	24.7
362	NOT USED	-	-	-	-	-	-
363	2326+40.52	2326+47.43	2	15	75	0.44	24.7
364	2326+47.43	2326+40.90	2	15	16	0.44	1.0
365	2328+30.82	2328+39.78	2	15	75	0.44	24.7
366	2328+39.78	2328+41.42	2	15	10	0.44	1.0
367	2327+35.85	2327+35.90	2	12	16	0.44	0.9
368	2326+40.33	2326+40.52	2	15	7	0.44	1.3
371	2330+24.52	2330+16.39	2	15	75	0.44	24.7
372	2330+16.39	2330+41.99	2	15	23	0.44	5.9
373	2331+96.68	2331+96.68	2	15	74	0.44	24.3
374	2331+96.68		2	15	6	0.44	2.0
375	2333+70.69	2333+66.04	2	15	68	0.44	22.4
376	2331+95.68	2331+96.68	2	15	6	0.44	1.3
381	2335+58.12	2335+48.12	2	15	6	0.44	2.0
382	2335+48.12	2335+14.24	2	15	89	0.44	29.3
383	NOT USED	-	-	-	-	-	-
384	2335+38.12	2335+48.12	2	15	6	0.44	2.0
385	2335+13.08	2335+38.12	2	15	21	0.44	6.9
386	2335+13.08	2335+13.08	2	15	6	0.44	1.3
387	NOT USED	-	-	-	-	-	-
388	NOT USED	-	-	-	-	-	-
389	2335+63.01	2335+63.87	2	15	6	0.44	2.0
3810	2335+63.87	2335+50.65	2	18	11	0.36	4.5
3811	2336+40.56	2336+24.45	2	15	81	0.44	26.6
3812	2336+24.45	2336+24.64	2	15	6	0.44	1.3
3813	2336+24.64	2335+63.87	2	18	56	0.40	0
3814	2336+99.48	2336+99.41	2	12	9	0.44	1.2
3815	2337+87.27	2337+94.72	2	15	75	0.44	24.7
3816	2337+94.72	2337+94.72	2	15	6	0.44	1.3
3817	2337+94.72	2336+24.64	2	18	167	0.40	0
391	2339+65.89	2339+65.84	2	15	74	0.44	24.7
392	2339+65.84	2340+22.48	2	15	53	0.44	13.5
393	2339+65.01	2339+65.89	2	15	7	0.44	1.3
394	2341+29.79	2341+29.79	2	15	74	0.44	24.3
395	2341+29.79	2341+32.31	2	15	5	0.44	1.3
396	2343+67.99	2343+67.99	2	15	77	0.44	25.3
397	2343+67.37	2343+67.99	2	15	7	0.44	1.3
398	2340+45.34	2340+22.48	2	12	20	0.44	0
401	2346+36.69	2346+37.26	2	15	69	0.44	22.7
402	2345+99.94	2346+36.69	2	15	33	0.44	10.9
403	2347+97.69	2347+99.43	2	15	75	0.44	24.7
404	2347+97.41	2347+97.69	2	15	6	0.44	1.3
411	2349+88.77	2349+88.80	2	15	74	0.44	24.3

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"

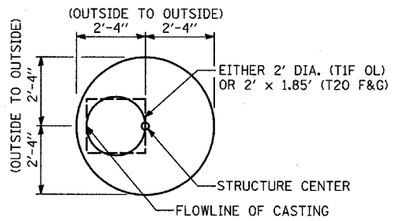
•ALL STEEL CASING SHALL MEET OR EXCEED ASTM A-139, GRADE B.

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)

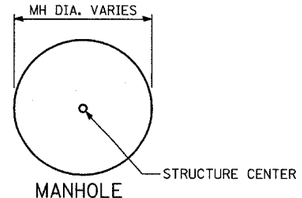
FLOWLINE OF CASTING IS LOCATED AT ℄ OF STRUCTURE FOR CATCH BASINS LOCATED IN SWALE AND GORE AREAS.



CATCH BASIN

(PRECAST REINFORCED CONCRETE SECTION)

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



MANHOLE

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

TY·LIN INTERNATIONAL