F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	916	381
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							
256	2161+58.86	72.0 RT		A	4'	T20 F&G	-7.52		-14.92		-14.92
257	2261+58.91	79.2 RT	A		5'	T1F CL	-7.83	-16.06	-13.33	-15.81	-14.94
258	2263+29.67	6.5 LT		A(7)	4'	T20 F&G	-4.31		-12.25		
259	2263+29.67	72.0 RT		A	4'	T20 F&G	-4.84		-12.56		-12.56
2510	2263+29.67	79.2 RT	A		5'	T1F CL	-4.77	-17.31		-16.81	-12.58
2511	2264+97.31	6.5 LT		A(7)	4'	T20 F&G	-2.34		-10.07		
2512	2264+97.31	72.0 RT		A	4'	T20 F&G	-2.34			-10.38	-10.38
2513	2261+50.00	82.2 RT		C	2'	T1F OL	-7.99	-13.30			
2514	2259+84.29	68.4 RT		C	2'	T1F OL	-7.50	-12.35			
261	NOT USED	- -	-	-	-	-	-	-	-	-	-
262	2266+67.96	6.7 LT		A(7)	4'	T20 F&G			-7.86		-7.86
263	2266+67.95	72.0 RT		A	4'	T20 F&G	-0.52		-8.17		-8.17
264	2268+58.97	10.0 LT		A(7)	4'	T20 F&G	1.72		-4.26		
265	2268+58.96	72.0 RT		A	4'	T20 F&G	1.33		-4.59		-4.59
266	2270+59.10	10.0 LT		A(7)	4'	T20 F&G	3.42		-2.54		
271	2273+68.05	84.2 RT		A	4'	T20 F&G	3.23	-2.61			
272	2274+57.97	10.0 LT		A(7)	4'	T20 F&G	3.50		-3.61		
273	2274+57.96	82.4 RT		A	4'	T20 F&G	2.89		-3.98		-3.98
274	2274+53.04	87.7 RT	A		4'	T1F CL	2.89	-15.80		-2.97	-4.00
275	2275+45.92	80.7 RT		A	4'	T20 F&G	2.34		-3.49		
276	2276+33.43	10.0 LT		A(7)	4'	T20 F&G	2.06		-5.04		
277	2276+33.42	78.9 RT		A	4'	T20 F&G	1.56		-5.40		-5.40
278	2276+40.09	84.3 RT	A		5'	T1F CL	1.35	-17.22		-16.72	-5.43
281	2277+20.92	77.2 RT		A	4'	T20 F&G	0.56		-5.27		
282	NOT USED	- -	-	-	-	-	-	-	-	-	-
283	2278+07.69	10.0 LT		A(7)	4'	T20 F&G	-0.14		-7.24		-7.24
284	2278+07.64	75.4 RT		A	4'	T20 F&G	-0.53		-7.58		-7.58
285	2278+15.80	81.4 RT	A		5'	T1F CL	-0.96	-17.82		-17.82	-7.61
286	2279+88.01	10.0 LT		A(7)	4'	T20 F&G	-2.51		-9.61		
287	2279+88.01	72.0 RT		A	4'	T20 F&G	-2.80		-9.94		-9.94
288	2279+95.31	78.5 RT	A		5'	T1F CL	-2.11	-18.43	-8.11	-18.43	-9.97
289	NOT USED	- -	-	-	-	-	-	-	-	-	-
2810	2281+68.01	10.0 LT		A(7)	4'	T20 F&G	-4.88		-11.98		-11.98
2811	2281+68.01	72.0 RT		A	4'	T20 F&G	-5.20		-12.31		-12.31
2812	2281+62.53	77.0 RT	A		5'	T1F CL	-2.82	-18.54		-18.54	-12.33
2813	2279+78.00	83.4 RT		C	2'	T1F OL	-2.92	-8.04			
291	2283+56.94	10.0 LT		A(7)	4'	T20 F&G	-7.36		-14.46		
292	2283+51.01	71.2 RT		A	4'	T20 F&G	-7.61		-14.79		-14.79
293	2283+44.62	77.0 RT	A		5'	T1F CL	-5.51	-17.51		-18.01	-14.82
294	2284+43.92	67.6 RT		A	4'	T20 F&G	-8.68		-14.51		
295	NOT USED	- -	-	-	-	-	-	-	-	-	-
296	2285+33.93	10.0 LT		A(7)	4'	T20 F&G	-9.69		-16.25		-16.25
297	2285+33.92	64.2 RT		A	4'	T20 F&G	-9.72		-16.54		-16.54
298	2285+24.10	73.4 RT	A		5'	T1F CL	-6.56	-16.59		-16.84	-12.56
299	NOT USED	- -	-	-	-	-	-	-	-	-	-
2910	2287+45.99	10.0 LT		A(7)	4'	T20 F&G	-11.16			-16.73	-16.73
2911	2287+25.99	10.0 LT		A(7)	4'	T20 F&G	-11.16	-16.73			
2912	2287+35.99	10.0 LT		A(7)	4'	T20 F&G	-11.16	-16.76	-16.76	-16.76	
2913	NOT USED	- -	-	-	-	-	-	-	-	-	-
2914	NOT USED	- -	-	-	-	-	-	-	-	-	-
2915	2286+73.16	65.0 RT		A	4'	T20 F&G	-11.09	-16.84			
2916	2287+26.09	70.3 RT		A	4'	T20 F&G	-11.44	-17.06			
2917	2287+35.60	76.9 RT	A		6'	T1F CL	-9.14	-17.10		-17.10	-17.10
2918	2287+36.09	71.3 RT		A	4'	T20 F&G	-11.48	-17.09	-17.09	-17.09	-17.09

STORM SEWER SCHEDULE

PIPE NUMBER	UPSTREAM STATION	DOWNSTREAM STATION	TYPE	DIA. (IN)	LENGTH (FT)	SLOPE %	T.B. (CU.YD)
255	2261+49.06	2161+58.86	2	15	72	0.44	23.7
256	2161+58.86	2261+58.91	2	15	5	0.44	0.9
257	2261+58.91	2263+29.67	3	18	166	0.45	0.0
258	2263+29.67	2263+29.67	2	15	71	0.44	26.6
259	2263+29.67	2263+29.67	2	15	5	0.44	1.1
2510	2263+29.67	2264+77.61	3	24	145	0.30	124.4
2511	2264+97.31	2264+97.31	2	15	71	0.44	26.6
1 2512	2264+97.31	2264+89.28	2	15	10	0.44(5)	6.2
2513	2261+50.00	2261+58.91	2	12	6	0.44	-
2514	2259+84.29	2260+09.82	2	12	25	0.44	0.2
261	2266+68.42	2266+67.96	2	15	8	0.44	1.1
262	2266+67.96	2266+67.95	2	15	71	0.44	25.8
1 263	2266+67.95	2266+67.95	2	15	10	0.44(5)	3.2
264	2268+58.97	2268+58.96	2	15	74	0.44	11.5
265	NOT USED	-	-	-	-	-	-
266	2270+59.10	2270+66.00	2	15	73	0.44	13.0
271	2273+68.05	2274+53.04	2	12	82	0.44	10.6
1 272	2274+57.97	2274+57.96	2	15	85	0.44	23.0
273	2274+57.96	2274+53.04	2	15	5	0.44	1.3
274	2274+53.04	2276+40.09	4	18	183	0.50	0.0
1 275	2275+45.92	2275+58.76	2	12	20	0.44(5)	1.2
276	2276+33.43	2276+33.42	2	15	81	0.44	22.8 1
277	2276+33.42	2276+40.09	2	15	6	0.44	1.6
278	2276+40.09	2278+15.80	4	24	171	0.35	0.0
1 281	2277+20.92	2277+34.61	2	12	21	0.44(5)	1.2
282	2278+07.73	2278+07.69	2	15	5	0.44	1.4
283	2278+07.69	2278+07.64	2	15	78	0.44	22.0
284	2278+07.64	2278+15.80	2	15	7	0.44	1.8
285	2278+15.80	2279+95.31	3	24	175	0.35	247.1
286	2279+88.01	2279+88.01	2	15	74	0.44	21.7
287	2279+88.01	2279+95.31	2	15	7	0.44	2.3
288	2279+95.31	2280+96.65	3	24	96	0.35	146.2
289	2281+67.26	2281+68.01	2	15	5	0.44	1.4
2810	2281+68.01	2281+68.01	2	15	74	0.44	20.9
2811	2281+68.01	2281+62.53	2	15	5	0.44	3.2
2812	2281+62.53	2280+96.65	3	24	61	0.30	123.7
2813	2279+78.00	2279+95.31	2	12	15	0.44	0.0
291	2283+56.94	2283+51.01	2	15	74	0.44	21.7
292	2283+51.01	2283+44.62	2	15	6	0.44	3.9
293	2283+44.62	2281+62.53	3	24	178	0.30	328.2
1 294	2284+43.92	2284+43.74	2	12	9	0.44(3)	0.6
295	2285+34.13	2285+33.93	2	15	5	0.44	1.1
296	2285+33.93	2285+33.92	2	15	67	0.44	15.8
297	2285+33.92	2285+24.10	2	15	11	0.44	5.4
298	2285+24.10	2283+44.62	3	18	175	0.38	3.5
299	2287+46.51	2287+45.99	2	15	5	0.44	0.5
2910	2287+45.99	2287+35.99	2	15	6	0.44	0.7
2911	2287+25.99	2287+35.99	2	15	6	0.44	0.7
2912	2287+35.99	2287+36.09	2	15	74	0.44	8.1
2913	NOT USED	-	-	-	-	-	-
2914	NOT USED	-	-	-	-	-	-
2915	2286+73.16	2287+35.60	2	12	59	0.44	15.2
2916	2287+26.09	2287+36.09	2	15	7	0.44	0.8
2917	2287+35.60	2287+99.05	2	36	58	0.22	9.6

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"

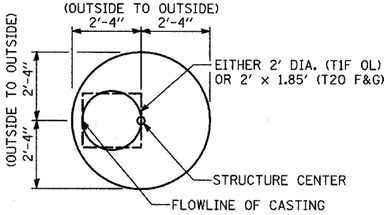
*ALL STEEL CASING SHALL MEET OR EXCEED ASTM A-139, GRADE B.

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)

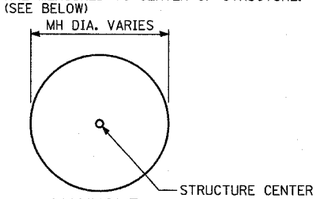
FLOWLINE OF CASTING IS LOCATED AT ℄ OF STRUCTURE FOR CATCH BASINS LOCATED IN SWALE AND GORE AREAS.



CATCH BASIN

(PRECAST REINFORCED CONCRETE SECTION)

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



MANHOLE

SHEET 6 OF 10

REVISIONS	
NAME	DATE
1 ADDENDUM 1	05/08/06

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