F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	916	377
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							
611	219+19.79	27.1 RT		C	2'	T1F OL	0.20		-3.91		
612	220+92.70	37.2 RT	A		5'	T1F CL	2.91	-7.11	-7.84		-7.84
71	NOT USED	- -	-	-	-	-	-	-	-	-	-
72	222+13.24	46.0 LT		A	4'	T20 F&G	-0.15	-5.75		-5.75	
73	222+13.24	29.1 RT		A	4'	T20 F&G	-0.22	-6.05		-6.05	
74	222+12.99	39.7 RT	A		5'	T1F CL	3.84	-6.09	-8.39		-8.14
75	223+87.44	46.0 LT		A	4'	T20 F&G	0.65			-5.18	
76	223+87.43	32.6 RT		A	4'	T20 F&G	2.35	-5.49		-5.49	
77	223+87.18	43.1 RT	A		5'	T1F CL	4.95	-5.53	-8.75	-2.43((W)	-8.75
78	225+30.57	46.0 LT		A	4'	T20 F&G	1.05			-4.78	
79	225+33.31	35.5 RT		A	4'	T20 F&G	4.34	-5.11		-5.11	
710	225+32.73	46.6 RT	A		5'	T1F CL	6.80	-5.15	-9.55		-9.05
711	222+26.80	52.1 LT		C	2'	T1F OL	-0.08				-5.69
712	223+80.10	36.9 RT		C	2'	T1F OL	2.45		-2.40		
81	226+60.23	46.0 LT		A	4'	T20 F&G	1.81			-4.02	
82	226+61.80	38.1 RT		A	4'	T20 F&G	5.73	-4.36		-4.36	
83	226+62.05	47.2 RT	A		5'	T1F CL	6.01	-4.39	-9.74		-9.74
84	227+98.09	46.0 LT		A	4'	T20 F&G	2.99			-2.84	
85	227+83.86	46.6 RT		C	2'	T1F OL	6.87		-3.13		
86	227+98.13	40.8 RT		A	4'	T20 F&G	7.05	-3.19	-3.19		-3.19
87	228+19.28	51.7 RT	A		5'	T1F CL	7.30	-3.28	-10.23		-9.98
88	230+76.68	51.7 RT		C	2'	T1F OL	6.65		0.74		
91	231+06.46	47.0 RT		A	4'	T20 F&G	6.97	-2.35			
92	231+06.84	46.0 LT		A	4'	T20 F&G	3.51	-3.22	-2.97	-2.72	
93	231+69.00	46.0 LT		A	4'	T20 F&G	3.32				-2.74
94	231+59.00	46.0 LT		A	4'	T20 F&G	3.31		-2.77		-2.77
95	231+49.00	46.0 LT		A	4'	T20 F&G	3.34		-2.80		-2.80
96	232+76.62	46.2 LT		A	4'	T20 F&G	3.59	-2.24			
97	408+37.32	10.0 LT		A	4'	T20 F&G	5.26			-1.03	-1.03
98	408+27.32	10.0 LT		A	4'	T20 F&G	5.26		-1.00		-1.00
99	408+17.32	10.0 LT		A	4'	T20 F&G	5.27		-0.97		
910	408+27.32	34.0 RT		A	4'	T20 F&G	5.00		-1.16		
911	408+37.32	34.0 RT		A	4'	T20 F&G	4.94	-1.19	-1.19		-1.19
912	408+47.32	34.0 RT		A	4'	T20 F&G	4.88			-1.22	-1.22
913	NOT USED	- -	-	-	-	-	-	-	-	-	-
914	NOT USED	- -	-	-	-	-	-	-	-	-	-
915	NOT USED	- -	-	-	-	-	-	-	-	-	-
916	234+00.00	28.6 RT		C	2'	T1F OL	4.50				-1.06
917	233+77.43	10.0 RT		A	4'	T20 F&G	6.81	-1.18	-1.18		
918	233+77.29	10.0 RT		A	4'	T20 F&G	4.44	-1.39		-1.39	
919	235+34.88	10.0 RT		A	4'	T20 F&G	9.35	1.33			
920	235+35.84	46.0 LT		A	4'	T20 F&G	6.94			1.11	1.11
921	235+07.03	53.7 LT	A		6'	T1F CL	6.07	-7.70	1.00		-7.70
922	233+41.77	62.0 LT	A(2)		6'	T1F CL	4.19		-8.18		-8.18
923	408+76.91	50.2 RT	A(2)		6'	T1F CL	4.96		-4.40		-4.40
924	236+50.00	46.0 LT		A	4'	T20 F&G	9.62				-0.14
101	410+50.27	10.0 LT		A	4'	T20 F&G	6.52			-0.30	
102	410+50.27	34.0 RT		A	4'	T20 F&G	5.37	-0.46		-0.46	
103	410+50.19	41.6 RT	A		4'	T1F CL	5.58	-0.49		-0.49	-3.58
104	414+56.03	34.0 RT		A	4'	T20 F&G	5.32	-0.51			
105	414+56.03	10.0 LT		A	4'	T20 F&G	6.48		-0.67	-0.67	
106	410+50.14	53.2 RT		C	2'	T1F OL	4.20	-0.45			
111	241+45.78	10.0 RT		A	4'	T20 F&G	25.27				17.13
112	241+47.03	46.0 LT		A	4'	T20 F&G	22.74		16.91		16.91

STORM SEWER SCHEDULE

PIPE NUMBER	UPSTREAM STATION	DOWNSTREAM STATION	TYPE	DIA. (IN)	LENGTH (FT)	SLOPE %	T.B. (CU.YD)
611	219+19.79	219+29.47	2	12	9	0.44	0.0
71	220+92.70	222+12.99	3	18	116	0.26	0.0
72	222+13.24	222+13.24	2	12	68	0.44	9.7
73	222+13.24	222+12.99	2	12	9	0.44	1.4
74	222+12.99	223+87.18	3	21	170	0.21	0.0
75	223+87.44	223+87.43	2	12	71	0.44	18.2
76	223+87.43	223+87.18	2	12	9	0.44	2.3
77	223+87.18	225+32.73	3	21	142	0.21	0.0
78	225+30.57	225+33.31	2	12	74	0.44	25.2
79	225+33.31	225+32.73	2	12	9	0.44	3.1
710	225+32.73	226+62.05	3	27	128	0.15	0.0
711	222+26.80	222+13.24	2	12	13	0.44	1.7
712	223+80.10	223+87.18	2	12	6	0.44	0.0
81	226+60.23	226+61.80	2	12	77	0.44	28.7
82	226+61.80	226+62.05	2	12	7	0.44	2.9
83	226+62.05	228+19.28	3	27	157	0.15	0.0
84	227+98.09	227+98.13	2	12	79	0.44	30.3
85	227+83.86	227+98.13	2	12	14	0.44	9.4
86	227+98.13	228+19.28	2	12	21	0.44	9.9
87	228+19.28	230+87.06	4	30	271	0.13	283.1
88	230+76.68	230+87.06	2	12	9	0.44	1.9
91	231+06.46	231+06.84	2	12	85	0.44	29.9
92	231+06.84	231+06.88	2	18	8	0.44	1.0
93	231+69.00	231+59.00	2	15	6	0.44	1.0
94	231+59.00	231+49.00	2	15	6	0.44	1.1
95	231+49.00	231+06.84	2	15	38	0.44	7.2
96	232+76.62	233+27.83	2	12	49	0.44	3.7
97	408+37.32	408+37.32	2	15	36	0.44	6.8
98	408+27.32	408+37.32	2	15	6	0.44	1.1
99	408+17.32	408+27.32	2	15	6	0.44	1.1
910	408+27.32	408+37.32	2	15	6	0.44	1.1
911	408+37.32	408+47.32	2	15	6	0.44	1.1
912	408+47.32	408+63.91	2	15	21	0.44	1.1
913	NOT USED	-	-	-	-	-	-
914	NOT USED	-	-	-	-	-	-
915	NOT USED	-	-	-	-	-	-
916	234+00.00	233+77.43	2	12	28	0.44	2.5
917	233+77.43	233+77.29	2	12	48	0.44	12.9
918	233+77.29	233+77.24	2	12	16	0.44	0.6
919	235+34.88	235+35.84	2	12	49	0.44	13.1
920	235+35.84	235+07.03	2	12	26	0.44	2.3
921	235+07.03	233+41.77	3	24	156	0.30	0.0
922	233+41.77	233+27.83	3	24	8	0.25	0.0
923	408+76.91	408+63.91	2	15	8	0.50	0.0
924	236+50.00	338+39.34	2	12	12	3.00	2.2
101	410+50.27	410+50.27	2	12	36	0.44	7.4
102	410+50.27	410+50.19	2	12	6	0.44	0.5
103	410+50.19	408+76.91	2	15	165	0.50	0.0
104	414+56.03	414+56.03	2	12	36	0.44	8.1
105	414+56.03	414+73.12	2	12	18	0.44	2.4
106	410+50.14	410+50.19	2	12	9	0.44	0.0
1 111	241+45.78	241+46.74	2	12	36	0.44	11.2
112	241+47.03	241+47.07	2	12	8	0.44	0.6
113	241+47.07	239+94.13	2	18	144	1.00	0.0

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"

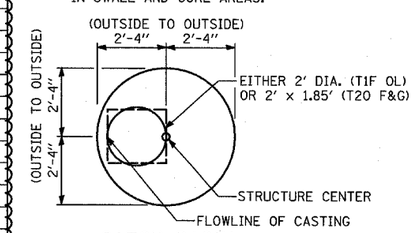
*ALL STEEL CASING SHALL MEET OR EXCEED ASTM A-139, GRADE B.

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)

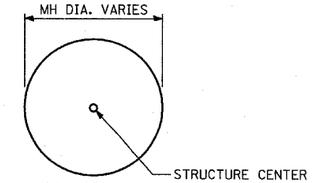
FLOWLINE OF CASTING IS LOCATED AT ℄ OF STRUCTURE FOR CATCH BASINS LOCATED IN SWALE AND GORE AREAS.



CATCH BASIN

(PRECAST REINFORCED CONCRETE SECTION)

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



MANHOLE

SHEET 2 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