F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	916	384
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							
4919	2016+29.03	34.2 RT		A	4'	T20 F&G	1.30	-4.91		-4.91	
4920	2016+00.38	46.1 RT		C	2'	T1F OL	-0.66				-4.16
4921	311+61.08	8.0 RT		A	4'	T20 F&G	2.90	-2.93			
4922	2014+55.91	8.2 LT		A	4'	T20 F&G	5.21	-3.06		-3.06	
4923	2014+57.45	34.2 RT		A	4'	T20 F&G	2.99	-3.21		-3.21	
4924	311+61.10	29.7 LT		A	4'	T20 F&G	3.75			-2.08	
501	2021+06.35	46.6 RT	A(2)		6'	T1F CL	-2.91		-18.54		-18.54
502	318+40.59	25.2 LT		A(7)	4'	T20 F&G	-1.15	-9.43			
503	318+43.80	8.0 RT		A	4'	T20 F&G	-2.61			-9.54	-9.54
504	2021+65.10	10.0 RT		A	4'	T20 F&G	-2.83	-9.76	-9.76		
505	2021+65.06	36.0 RT		A	4'	T20 F&G	-4.56	-9.93		-9.93	
5110	322+50.00	24.9 LT		A	4'	T20 F&G	-4.90		-12.79		
5111	322+50.00	8.0 RT		A	4'	T20 F&G	-5.38		-12.90	-12.90	
5112	2024+99.38	10.0 LT		A	4'	T20 F&G	-6.23	-12.98			-12.98
5113	2024+99.31	36.0 RT		A	4'	T20 F&G	-7.97	-13.15		-13.15	
5114	2025+04.31	46.8 RT		C	2'	T1F OL	-8.37				-13.19
5115	2026+39.06	10.0 LT		A	4'	T20 F&G	-7.67	-14.48			
5116	2026+41.23	36.0 RT		A	4'	T20 F&G	-9.42		-14.65	-14.65	
5117	2026+46.19	48.0 RT		C	2'	T1F OL	-9.03			-12.53	
5118	NOT USED	- -	-	-	-	-	-	-	-	-	-
5119	324+77.29	25.8 LT		A	4'	T20 F&G	-9.73	-15.56			
5120	324+77.24	14.1 RT		A	4'	T20 F&G	-8.13	-15.70		-15.70	
5121	2027+62.98	10.0 LT		A	4'	T20 F&G	-8.47				-15.59
5122	2027+72.94	10.0 LT		A	4'	T20 F&G	-8.48	-15.62	-15.62		-15.62
5123	2027+82.91	10.0 LT		A	4'	T20 F&G	-8.47		-15.59		
5124	2027+84.77	36.0 RT		A	4'	T20 F&G	-10.20		-15.76		-15.76
5125	2027+74.58	36.0 RT		A	4'	T20 F&G	-10.20		-15.79	-15.79	-15.79
5126	2027+64.39	36.0 RT		A	4'	T20 F&G	-10.20		-15.82		-15.82
5127	2027+35.89	47.1 RT		C	2'	T1F OL	-10.47				-14.47
5128	NOT USED	- -	-	-	-	-	-	-	-	-	-
5129	2026+28.70	41.9 RT	A(6)		5'	T1F CL	-9.51	-12.59	-17.30	-14.70	-17.27
5130	NOT USED	- -	-	-	-	-	-	-	-	-	-
5131	2023+46.25	44.2 RT	A(6)		5'	T1F CL	-6.73	-11.64	-17.96	-11.64	-17.96
5132	2023+46.52	51.8 RT		C	2'	T1F OL	-6.67			-11.62	
5133	320+78.68	25.0 LT		A(7)	4'	T20 F&G	-3.01		-11.28		
5134	320+78.70	7.9 RT		A	4'	T20 F&G	-4.23		-11.39		-11.39
5135	2023+51.03	10.0 LT		A	4'	T20 F&G	-4.72		-11.44		-11.44
5136	2023+46.00	36.0 RT		A	4'	T20 F&G	-6.41		-11.61		-11.61
521	2028+40.25	36.0 RT		A	4'	T20 F&G	-9.99			-15.54	
522	2030+40.48	10.0 LT		A	4'	T20 F&G	-5.12		-9.19		
523	2030+63.50	34.0 RT		A	4'	T20 F&G	-6.14	-9.38		-9.38	
524	2032+69.09	10.0 LT		A	4'	T20 F&G	1.15		-6.55		
525	2032+06.43	32.2 RT		A	4'	T20 F&G	-1.92		-6.20		
541	2036+34.69	81.3 LT	A		4'	T1F CL	2.01	-5.55		-6.49	-6.49
542	2036+24.12	91.4 LT	A(2)		6'	T1F CL	0.90		-6.53		-6.53
543	2036+56.35	101.6 LT		C	2'	T1F OL	0.07		-5.43		
544	2034+84.50	74.7 LT		C	2'	T1F OL	-2.00	-5.82			
545	2035+02.42	10.0 LT		A	4'	T20 F&G	7.57		-0.04		
546	2037+54.35	10.0 LT		A	4'	T20 F&G	13.81		4.94		
551	329+76.99	34.4 LT	A(2)		6'	T1F CL	-14.64		-26.43		-26.43
552	329+68.57	37.2 LT	A		5'	T1F CL	-15.30			-26.44	-26.44
553	329+00.00	18.0 RT		A(1)	2'	T20 F&G	-12.32			-20.48	
554	329+00.07	28.3 LT		A	4'	T20 F&G	-11.27	-20.66			-20.66
555	326+79.89	26.6 LT		A	4'	T20 F&G	-12.25	-16.38		-16.38	

STORM SEWER SCHEDULE

PIPE NUMBER	UPSTREAM STATION	DOWNSTREAM STATION	TYPE	DIA. (IN)	LENGTH (FT)	SLOPE %	T.B. (CU.YD)
4913	315+08.78	2017+93.26	2	12	34	0.44	5.8
4914	2017+93.26	2017+94.31	2	12	36	0.44	26.2
1 4915	2017+94.31	2017+94.13	2	12	8	0.44	5.4
4916	313+38.64	313+38.62	2	12	28	0.44	18.1
4917	313+38.62	2016+28.36	2	12	33	0.44	5.2
4918	2016+28.36	2016+29.03	2	12	36	0.44	27.9
4919	2016+29.03	2016+36.71	2	12	8	0.44	1.8
4920	2016+00.38	2016+36.71	2	12	33	0.44	0.0
4921	311+61.08	2014+55.91	2	12	30	0.44	5.2
4922	2014+55.91	2014+57.45	2	12	35	0.44	27.2
4923	2014+57.45	2014+63.78	2	12	7	0.44	1.8
4924	311+61.10	311+41.54	2	12	34	0.44	7.7
501	2021+06.35	2020+92.53	3	36	8	0.25	0.0
502	318+40.59	318+43.80	2	12	26	0.44	21.8
503	318+43.80	2021+65.10	2	12	50	0.44	6.7
504	2021+65.10	2021+65.06	2	12	38	0.44	7.0
1 505	2021+65.06	2021+65.01	2	12	17	0.44(3)	0.3
5110	322+50.00	322+50.00	2	12	25	0.44	21.4
5111	322+50.00	2024+99.38	2	12	18	0.44	5.3
5112	2024+99.38	2024+99.31	2	12	38	0.44	6.2
5113	2024+99.31	2025+11.85	2	12	10	0.44	0.0 1
5114	2025+04.31	2025+11.85	2	12	6	0.44	-
5115	2026+39.06	2026+41.23	2	12	39	0.44	6.7
5116	2026+41.23	2026+28.70	2	12	11	0.44	0.7
5117	2026+46.19	2026+28.70	2	12	15	0.44	0.0
5118	NOT USED	-	-	-	-	-	-
5119	324+77.29	324+77.24	2	12	32	0.44	22.3
5120	324+77.24	2027+46.97	2	12	68	0.44	14.8
5121	2027+62.98	2027+72.94	2	15	6	0.44	1.8
5122	2027+72.94	2027+74.58	2	15	39	0.44	7.9
5123	2027+82.91	2027+72.94	2	15	6	0.44	1.8
5124	2027+84.77	2027+74.58	2	15	6	0.44	0.7
5125	2027+74.58	2027+64.39	2	15	6	0.44	0.7
5126	2027+64.39	2027+59.87	2	15	4	0.44	0.6
1 5127	2027+35.89	2027+26.25	2	12	11	0.44(4)	0.0
5128	2027+59.87	2026+28.70	2	30	120	0.25	35.3
5129	2026+28.70	2025+11.85	2	30	110	0.25	0.0
5130	2025+11.85	2023+46.25	2	30	157	0.25	0.0
5131	2023+46.25	2021+06.35	3	36	230	0.25	0.0
5132	2023+46.52	2023+46.25	2	12	5	0.44	0.0
5133	320+78.68	320+78.70	2	12	25	0.44	21.4
5134	320+78.70	2023+51.03	2	12	11	0.44	2.4
5135	2023+51.03	2023+46.00	2	12	39	0.44	6.3
5136	2023+46.00	2023+46.25	2	12	6	0.44	0.2
521	2028+40.25	2027+84.77	2	12	51	0.44	6.7
522	2030+40.48	2030+63.50	2	12	43	0.44	0.0
523	2030+63.50	2030+74.53	2	12	14	0.44	0.0
524	2032+69.09	2032+69.79	2	12	35	0.44	10.1
541	2036+34.69	2036+24.12	2	18	10	0.44	0.0
542	2036+24.12	2036+13.82	2	18	10	0.44	0.0
543	2036+56.35	2036+34.69	2	12	27	0.44	0.0
544	2034+84.50	2036+34.69	2	12	153	0.44	0.0
545	2035+02.42	2035+02.80	2	12	43	0.44	11.1
546	2037+54.35	2037+55.00	2	12	38	0.44	24.0

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"

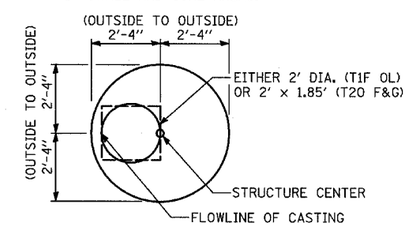
*ALL STEEL CASING SHALL MEET OR EXCEED ASTM A-139, GRADE B.

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)

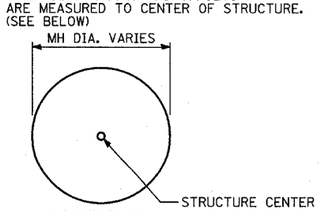
FLOWLINE OF CASTING IS LOCATED AT ℄ OF STRUCTURE FOR CATCH BASINS LOCATED IN SWALE AND GORE AREAS.



CATCH BASIN

(PRECAST REINFORCED CONCRETE SECTION)

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



MANHOLE

SHEET 9 OF 10

TY·LIN INTERNATIONAL

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