F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	119R-2	LAKE	439	152
STA. 432+83.12		TO STA. 470+56.84		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

60B01

DRAINAGE STRUCTURE SCHEDULE

STRUCTURE NUMBER	STATION	OFFSET	STRUCTURE TYPE		DIA. (FT)	FRAME & LID	TOP OF FRAME	N INV.	E INV.	S INV.	W INV.
			MH/FES/ SHW	CB							
11	438+73.60	70.6 LT	A		6	T1F CL	700.73	678.50	696.15		678.50
12	436+87.75	77.8 LT	A		6	T1F CL	694.60	685.43	678.37	686.72	678.37
13	435+11.14	71.0 LT	A		8	T1F CL	688.78	679.37	678.25	678.25	682.49
14	435+11.10	70.1 RT	A(1)		6	T1F CL	688.81	678.14		678.14	
15	439+48.00	61.4 LT		A	4	T20 F&G	702.30				696.86
16	437+88.00	66.6 LT		A	4	T20 F&G	697.71				690.65
17	436+95.00	65.8 LT		A	5	T20 F&G	694.57	686.83	689.76		686.83
18	436+28.00	64.4 LT		A(2)	4	T20 F&G	692.33		687.46		
19	435+05.00	96.4 LT		C	2	T1F OL	684.62		679.80		
110	434+93.00	61.4 LT		A	4	T20 F&G	687.90		682.65		
111	434+94.00	61.4 RT		A(2)	4	T20 F&G	687.93	683.91	683.91		
112	435+64.50	62.9 RT		A	4	T20 F&G	690.20	684.95		683.24	683.24
113	434+95.50	6.0 RT		C	2	T1F OL	689.11			684.42	
114	436+64.50	65.2 RT		A	4	T20 F&G	693.55			688.30	
115	438+64.50	0.5 RT		C	2	T1F OL	701.31			695.40	
116	438+64.50	69.6 RT		A	4	T20 F&G	699.98	694.73		694.73	
117	439+64.50	71.8 RT		A	4	T20 F&G	702.41			697.16	
118	441+28.00	63.5 LT		A	4	T20 F&G	706.05		700.80		
119	442+37.00	65.0 LT		A	4	T20 F&G	708.25				700.95
120	441+75.00	64.5 LT		A	4	T20 F&G	707.00	700.37	700.37		700.37
121	443+61.00	65.0 RT		A	4	T20 F&G	710.73		705.48	705.48	
122	442+37.00	65.0 RT		A	4	T20 F&G	708.25				702.33
123	441+75.00	64.5 RT		A	4	T20 F&G	707.00		701.75	700.15	700.15
124	441+16.00	63.2 RT		A	4	T20 F&G	705.80		700.70		
125	116+00.00	96.5 LT	SHW(10)		24(10)						684.39
126	443+61.00	65.0 LT		A	4	T20 F&G	710.73	705.48	705.48		
127	116+10.00	31.0 RT		G-2(16)	1-11(16)	TG-2 (16)	701.28				696.11
128	120+94.00	18.9 RT		G-2(16)	1-11(16)	TG-2 (16)	701.17				696.00
129	438+64.50	91.6 RT	ES(13)		12(5)			685.62			
130	439+56.49	95.2 RT	FES(5)		12(5)			686.53			
131	436+87.72	92.6 LT	A		4	T1F CL	691.36	685.53		685.53	
132	441+75.00	90.9 RT	FES(5)		12(5)			699.88			
133	443+61.00	138.5 RT	FES(5)		12(5)			688.10			
134	442+09.58	144.0 LT	FES(5)		12(5)					684.59	
135	443+61.00	158.7 LT	FES(5)		12(5)					684.16	
136	435+11.12	76.2 RT	ES(12)		48(5)			678.13			
137	435+64.50	85.0 RT	BC(17)		12(5)			680.87			
138	116+10.00	96.4 RT	SHW(10)		15(10)				682.46		
139	436+64.50	89.8 RT	BC(17)		12(5)			682.54			
140	435+11.14	94.5 LT	A(4)		4	T1F CL	685.50		679.55	679.55	679.76
141	443+97.00	65.0 LT		A	4	T20 F&G	711.29				705.80
142	443+97.00	65.0 RT		A	4	T20 F&G	711.29				705.80
143	435+58.11	84.7 RT	ES(13)		18(5)						680.76
144	438+25.13	95.9 RT	ES(13)		18(5)				685.22		
21	447+79.00	65.0 LT		A	4	T20 F&G	710.42	705.17			705.17
22	448+73.50	65.0 LT		A	4	T20 F&G	708.69		701.10		
23	450+00.00	65.0 LT		A	4	T20 F&G	706.36				701.11
24	449+36.50	65.0 LT		A	4	T20 F&G	707.53	700.51	700.51		700.51
25	447+87.00	65.0 RT		A	4	T20 F&G	710.28			705.03	705.03
26	448+96.50	65.0 RT		A	4	T20 F&G	708.26		701.00	701.00	
27	451+58.00	59.7 RT		A	4	T20 F&G	703.36	698.11			
28	451+52.00	77.1 LT		A	4	T20 F&G	703.17	697.92			
29	453+12.00	6.9 LT		C	2	T1F OL	700.27	694.29			
210	453+12.00	71.8 LT		A	4	T20 F&G	698.95	693.70		693.70	

STORM SEWER AND CULVERT SCHEDULE

PIPE NUMBER	UPSTREAM STATION	DOWNSTREAM STATION	TYPE	DIA. (IN)	LENGTH (FT)	SLOPE (%)	T.B. (CU.YD)
△ 11	438+73.60	436+87.75	4	48	180	0.07	0
△ 12	436+87.75	435+11.14	3	48	170	0.07	0
13	435+11.14	435+11.10	2	48	135	0.08	216.5
14	435+11.10	435+11.12	2	48	5	0.17	0
15	439+48.00	438+73.60	2	12	71	1.00	12.9
16	437+88.00	436+95.00	2	12	89	1.00	31.3
17	436+95.00	436+87.75	2	12	11	1.00	4.3
18	436+28.00	436+95.00	2	12	63	1.00	32.0
19	435+05.00	435+11.14	2	12	4	1.00	0
110	434+93.00	435+11.14	2	12	16	1.00	2.3
111	434+94.00	435+64.50	2	12	67	1.00	20.0
112	435+64.50	435+64.50	2	12	20	34.63(11)	4.3
113	434+95.50	434+94.00	2	12	51	1.00	9.4
114	436+64.50	436+64.50	2	12	23	35.45(11)	1.7
115	438+64.50	438+64.50	2	12	67	1.00	17.3
116	438+64.50	438+64.50	2	12	25	56.79(11)	1.7
117	439+64.50	439+56.49	2	12	28	57.24(11)	1.9
118	441+28.00	441+75.00	2	12	43	1.00	15.1
119	442+37.00	441+75.00	2	12	58	1.00	41.3
120	441+75.00	442+09.58	2	12	89	24.67(11)	2.7
121	443+61.00	443+61.00	2	12	77	34.28(11)	2.5
122	442+37.00	441+75.00	2	12	58	1.00	18.0
123	441+75.00	441+75.00	2	12	27	1.00	4.3
124	441+16.00	441+75.00	2	12	55	1.00	19.3
125	116+00.00	116+00.00	4	24	184	0.20	214.9
126	443+61.00	443+61.00	2	12	98	30.11(11)	0.8
* 127	116+10.00	116+10.00	2	15	69	31.93(11)	0.8
128	120+94.00	120+94.00	2	15	64	19.67(11)	0.8
129	NOT USED	-	-	-	-	-	-
130	NOT USED	-	-	-	-	-	-
* 131	436+87.72	436+87.75	2	12	10	1.00	0
132	NOT USED	-	-	-	-	-	-
133	NOT USED	-	-	-	-	-	-
134	NOT USED	-	-	-	-	-	-
135	NOT USED	-	-	-	-	-	-
136	NOT USED	-	-	-	-	-	-
137	NOT USED	-	-	-	-	-	-
138	NOT USED	-	-	-	-	-	-
139	NOT USED	-	-	-	-	-	-
* 140	435+11.14	435+11.14	2	12	18	1.00	0
141	443+97.00	443+61.00	2	12	32	1.00	9.2
142	443+97.00	443+61.00	2	12	32	1.00	9.2
143	NOT USED	-	-	-	-	-	-
144	438+25.13	435+58.11	2	18	268	1.67	-
21	447+79.00	447+79.00	2	12	86	30.20(11)	1.7
22	448+73.50	449+36.50	2	12	59	1.00	44.8
23	450+00.00	449+36.50	2	12	60	1.00	22.4
24	449+36.50	448+95.55	2	12	105	17.84(11)	5.8
25	447+87.00	447+87.00	2	12	80	34.54(11)	1.9
26	448+96.50	448+61.63	2	12	82	24.38(11)	4.6
27	451+58.00	451+34.50	2	12	53	1.00	15.6
* 28	451+52.00	451+69.41	2	12	76	29.57(11)	0.8
29	453+12.00	453+12.00	2	12	59	1.00	17.0
* 210	453+12.00	453+12.00	2	12	49	22.46(11)	0.8

NOTES:

(1) INDICATES MANHOLE, TYPE A, 6' DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE.

(2) INDICATES CATCH BASIN TYPE A WITH FLAT SLAB TOP.

(3) INDICATES SEWER LATERAL WITH 45° CONNECTION. SEE SHEET "DETAIL OF STORM SEWER CONNECTIONS TO SEWER."

(4) INDICATES MANHOLE TYPE A WITH FLAT SLAB TOP, IDOT STANDARD 602601.

(5) FES=FLARED END SECTION, ES=END SECTION. SIZE NOTED IN SCHEDULE IS GIVEN IN INCHES.

(6) SEE THE DRAINAGE & UTILITY PLANS FOR LOCATION OF ALL STRUCTURES.

(7) CATCH BASIN STATIONS ARE MEASURED TO CENTER OF STRUCTURE.

(8) CATCH BASIN OFFSETS ARE MEASURED TO FLOWLINE OF CASTING. (SEE BELOW)

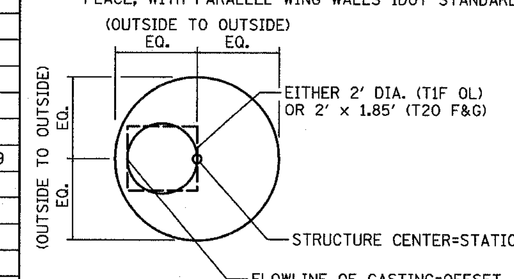
(9) FLOWLINE OF CASTING IS LOCATED AT ℄ OF STRUCTURE FOR CATCH BASINS LOCATED IN SWALE AND GORE AREAS.

(10) SLOPED HEAD WALLS TYPE III, ISTHA STANDARD B10-00. SIZE NOTED IN SCHEDULE IS GIVEN IN INCHES.

(11) PIPE SLOPES ARE BASED ON SLOPED PIPE DRAIN DESIGN. SEE SHEET "DRAINAGE DETALS-SHEET 4 OF 4."

(12) INDICATES REINFORCED CONCRETE END SECTION, CAST IN PLACE, IDOT STANDARD 542106-01.

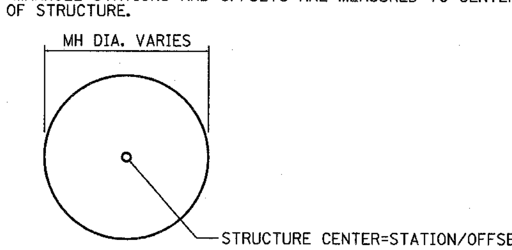
(13) INDICATES REINFORCED CONCRETE END SECTION, CAST IN PLACE, WITH PARALLEL WING WALLS IDOT STANDARD 542001.



CATCH BASIN

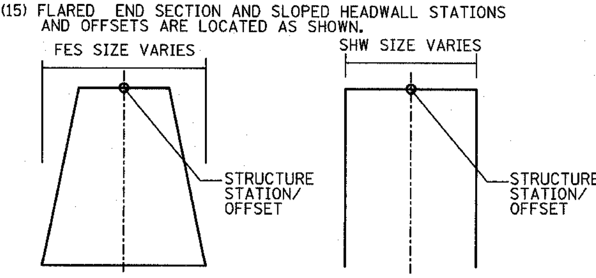
(PRECAST REINFORCED CONCRETE SECTION)

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



MANHOLE

(15) FLARED END SECTION AND SLOPED HEADWALL STATIONS AND OFFSETS ARE LOCATED AS SHOWN.



FES SHW

SHEET 1 OF 3

NOTES CONTINUED:

(16) CATCH BASIN, TYPE G-2, WITH A TYPE G-2 FRAME AND GRATE, ISTHA STANDARD B8-00. SIZE NOTED IN SCHEDULE IS GIVEN IN FEET-INCHES.

(17) PIPE TO PIPE CONNECTION.

* OR △ ALL OR A PORTION OF THIS SEWER SHALL BE OF WATER MAIN GRADE (△) OR RUBBER GASKET (*) PER STANDARD SPECIFICATION REQUIREMENTS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

ILLINOIS RTE 60 OVER I-94

DRAINAGE SCHEDULE

SCALE: NONE

DATE: MAY 8, 2007

DRAWN BY: NSB

CHECKED BY: DA

TYLIN INTERNATIONAL