

KREHA Storm Drain System Asset List

Ref	Designation	ROAD	Dwg #	Sht#	Feature	Lid	Drawing Designation/Description	Location	Dist Ft	El Chg Ft	Slope Deg	Slope %	Last Cleaned	Schedule Group	Note
1	50-CB1-G-13	50th St Ct NW	Stepan 7	4	Type 1 CB	grate	CB #13 grate=220.10 IE= 217.67(12" E)(thru curb)	street at end of cul de sac in front of lot 1					Jul-2010	B	
2	50-CB1-G-12		Stepan 7	4	Type 1 CB	grate	CB #12 grate=226.6 IE=216.72(12" E&W)	street in front of lot 31					Jul-2010	B	
3	51-CB-G-7	51st St NW	Stepan 7	2	Type 1 CB	grate	CB #7 grate=272.66 IE=270.33	street in front of lot 29					Jul-2010	D	
4	51-CB-G-8		Stepan 7	2	Type 1 CB	grate	CB #8 grate=286.66 IE=284.33	street in front of lot 7 near mail boxes					Jul-2010	D	
5	51-CB-G-9		Stepan 7	2	Type 1 CB	grate	CB #9 grate=309.39 IE=307.06	street in front of lot 26					Jul-2010	D	
6	51-CB-G-10		Stepan 7	2	Type 1 CB	grate	CB #10 grate=320.71 IE=318.38	street in front of lot 12					Jul-2010	D	
7	51-CB-G-11		Stepan 7	2	Type 1 CB	grate	CB #11 grate=325.33 IE=323.00	street in front of lot 24					Jul-2010	D	
8	51-CB-G-12		Stepan 7	2	Type 1 CB	grate	CB #12 grate=332.75 IE=328.90	street in front of lot 18					Jul-2010	D	
9	98-CB1-G-15	98th Ave Ct NW	Sprout 13	3	Type 1 CB	grate	CB #15	street in front of lot 11, flows to CB #2					Aug-2012	A	this CB used to flow out to a 90' perf PVC Infiltration Swale on lot 11. In 2004 it was abandoned and CB #15A was put in and connected to this CB.
10	98-CB1-G-15A				Type 1 CB	grate	not on drawing	street near the mail boxes					Jul-2010	A	Not on drawing
11	98-IS-N-1				Infiltration Swale	na	not on drawing	down the slope from CB #15A draining out to Ray Nash					Aug-2012	A	Not on drawing
12	99-CB1-G-8	99th Ave Ct NW	Sprout 13	2,5	Type 1 CB	grate	CB #8 grate=211.23 IE=208.23, IE W=208.03	street near intersection with Artondale					Jul-2010	A	
13	99-CB1-G-9		Sprout 13	2	Type 1 CB	grate	CB #9 grate=213.68 IE N=210.63, IE W=210.43	street up the road from CB #8 on the other side					Jul-2010	A	
14	99-CB1-G-7		Sprout 13	2	Type 1 CB	grate	CB #7 grate=228.41 IE E=225.41, IE S=225.21	street in front of lot 26					Jul-2010	A	
15	99-CB1-G-6		Sprout 13	2	Type 1 CB	grate	CB #6 grate=232.43 IE 229.43	street in front of lot 17					Jul-2010	A	
16	99-CVT-N-1		Sprout 13	2,3,5	Culvert	na	12" CMP pipe 93 feet long under road	under street from lot 23 to lot 18 which has a 10' drainage easement down to the ditch along Artondale						A	
17	99-CB1-G-12B		Sprout 13	2	Type 1 CB	grate	CB #12B grate=224.41 IE=221.4	street in front of lot 19					Jul-2010	A	
18	99-CB1-G-12A		Sprout 13	2	Type 1 CB	grate	CB #12A grate=219.74 IE W=216.7, IE E=215.6	street in front of lot 12A					Jul-2010	A	
19	99-CB1-G-12		Sprout 13	2	Type 1 CB	grate	CB #12 grate=212.33 IE S=208.35 IE W=208.13	street in front of lot 20					Jul-2010	A	
20	99-CB1-S-9A		Sprout 13	2,5	Type 1 CB	steel hatch	CB #9A Top=202.60 IE In=199.8	on lot 17 buried in lawn area - 237 feet from CB #8	237	8.43	2.0	3.6		E	Have not found this one
21	99-CB1-S-10		Sprout 13	2,5	Type 1 CB	steel hatch	CB #10 Top=192.7 IE IN=187.9, IE OUT=187.2	on lot 19 buried in wild area near border with lot 18 - 193 feet from CB #9A	193	11.9	3.5	6.2		E	Have not found this one
22	99-CB1-S-10A		Sprout 13	2,5	Type 1 CB	steel hatch	CB #10A Top=179.7 IE IN=176.9, IE OUT=176.7	on lot 19 lawn area - exposed hatch - 148 feet from CB #10	148	10.3	4.0	7.0	Aug-2011	E	1st time it was cleaned was in 2011 and it had about 8"
23	99-CB1-S-11		Sprout 13	2,5	Type 1 CB	steel hatch	CB #11 Top=176 IE E=171, IE NW=171.2, IE W=171.2	on lot 20 above ground concrete/steel lid in back yard - 105 feet from CB #10A	105	5.5	3.0	5.2	Aug-2011	E	1st time it was cleaned was in 2011 and it had about 8"
24	99-CB1-S-11A		Sprout 13	2,5	Type 1 CB	steel hatch	CB #11A Top=164.8 IE IN=162, IE OUT=161.8	buried in garden/lawn area on lot 20 - 106 feet from CB #11	106	9.2	5.0	8.7	Aug-2011	E	1st time it was cleaned was in 2011 and it had about 8"
25	99-FROP-M-1		Sprout 13	2,5	Type 2 CB/FROP	manhole cover	FROP-B, Top=138, O.F. EL=135, Top Orifice=134 - Size=4", Middle EL=133 Size=3 5/8", Bottom EL 129.4 Size=2 5/8", IE SW=131.5, IE NE=131.4, IE NW=131.4	next to retention pond - 205 feet from CB #11A - overflow flows into retention pond - higher level overflow will flow into ditch on Artondale	205	30.4	8.5	14.9	Aug-2011	A	
26	99-RP-N-1		Sprout 13	2,5,13	Retention Pond	na	Artondale Retention Pond - Lot 21	Off of Artondale Dr					Aug-2012	A	
27	100-CB1-G-1A	100th Ave Ct NW	Sprout 13	4	Type 1 CB	grate	CB #1A grate=220.57 IE=217.47	street in front of lot 16, flows to CB #1B					Jul-2010	B	
28	100-CB1-G-1B		Sprout 13	4	Type 1 CB	grate	CB #1B grate=ss0.57 IE= 217.27 IN IE=217.07 OUT	street in front of lot 3					Jul-2010	B	
29	100-CB1-G-2		Sprout 13	4	Type 1 CB	grate	CB #2 grate=215.86 IE= 212.96 IN N, IE=212.96 IN W, IE=218.76 OUT	street in front of lot 4 200' from CB #1A					Jul-2010	B	
30	100-CB1-G-1		Sprout 13	4	Type 1 CB	grate	CB #1 grate=215.86 IE=213.46	street in front of lot 15 connected, flows to CB #2					Jul-2010	B	
31	100-CB1-G-2A		Sprout 13	4	Type 1 CB	grate	CB #2A grate=195.37 IE=198.57 IN N, IE=192.57 IN W, IE=198.37 OUT	street in front of lot 5 179' from CB #2					Jul-2010	B	
32	100-CB1-G-2B		Sprout 13	4	Type 1 CB	grate	CB #2B grate=195.37 IE=193.07	street in front of lot 13 by mail boxes, flows to CB #2A					Jul-2010	B	
33	100-CB1-G-3		Sprout 13	4	Type 1 CB	grate	CB #3 grate=179.75 IE 175.25 IN, IE=175.05 Out	street at end of cul-de-sac 137' from CB #2A					Jul-2010	B	
34	100-CVT-N-1				Culvert	na	pipe from lot 13 to lot 7 - flows to a creek that flows down to Ray Nash	under common driveway off of cul-de-sac						B	
35	100-CB1-S-3A		Sprout 13	4	Type 1 CB	steel hatch	CB #3A Top=175.0 IE=169.5 IN, IE=169.30 OUT	on lot 7 in woods 57' from CB #3, flows to CB #4	57	5.5	5.5	9.7	Aug-2011	E	1st time it was cleaned was in 2011 and it had about 8"
36	100-CB1-S-4		Sprout 13	4	Type 1 CB	steel hatch	CB #4 Top 157.5 IE=153.7 IN, IE=151.72 OUT	on lot 7 in woods 179' from CB #3A	179	15.6	5.0	8.7	Aug-2011	E	1st time it was cleaned was in 2011 and it had about 8"
37	100-CB1-S-5A		Sprout 13	4	Type 1 CB	steel hatch	CB #5A Top 137.5 IE=131.8 IN, IE=131.5 OUT	on lot 7 at end of Retention Pond 173' from CB #4 - outlet goes into pond	173	19.92	6.6	11.6	Aug-2011	B	2nd time it was cleaned was in 2011 and it had about 8"
38	100-FROP-M-2		Sprout 13	4	Type 2 CB/FROP	manhole cover	FROP-A, Top=130.4 IE W=124.4, IE E=124.3, O.F. EL=127.8, Orifice Dia= 2 1/8"	on lot 7 next to retention pond - overflow from pond flows into this CB and output flows to ditch on Ray Nash					Aug-2011	B	
39	100-RP-N-2		Sprout 13	4,13	Retention Pond	na	Ray Nash Retention Pond - Lot 7	on lots 7 & 8 - Off of Ray Nash Dr					Aug-2012	B	
40	101-CB1-G-14	101st Ave Ct NW	Stepan 7	3	Type 1 CB	grate	CB #14 Top=314.41 IE=311.41	street end of cul-de-sac					Jul-2010	D	
41	101-CB1-S-15		Stepan 7	3	Type 1 CB	steel hatch	CB #15 Top=298.97 IE 295.47	82.2 feet from CB #14 in garden - buried about 1-2 feet down	82	15.94	11.1	19.7	Aug-2011	E	
42	101-CB2-M-15A		Stepan 7	3	Type 2 CB	manhole cover	CB #15-A Top=290.08 IE= 286.58-IN, IE=280.54-Out	82.15 feet from CB #15 in garden under japanese maple	82	8.89	6.2	10.9	Aug-2011	E	

43	101-CB1-S-16		Stepan 7	3	Type 1 CB	steel hatch	CB #16-A Top=241.23 IE=235.18	on lot 15 in the woods - 113 feet from CB #15-A	113	45.36	23.0	42.4	Sep-2012	C	The drawing elevation view has the CB 16 and 16-A reversed. This CB was previously buried and unknown until discovered by video camera Sep 2012. It was completely full. Area was regraded to expose the hatch at grade level.
44	101-CB2-M-16A		Stepan 7	3	Type 2 CB	manhole cover	CB #16 Top=238.68, IE= 235.18	on lot 15 - 10 feet from CB # 16A - oil/water separator - detailed on sheet 6	10	0			Sep-2012	C	CB #16 and CB #16-A are accessed from Artondale. Was cleaned in 2011 as well and then again when CB # 16A was cleaned
45	101-IT-N-1		Stepan 7	3	Infiltration Trench	na	50 LF 12" Perf CMP, 4' wide, 3.5' deep trench	on lot 15 - detail on sheet 6		0			Aug-2011	C	French Drain and Drywell #4 are accessed from Artondale
46	101-DW-C-4		Stepan 7	3	Drywell #4	6" concrete plug	48" x3.5' Top=238.68, IE = 235.18	on lot 15 in the woods - 50' from CB #16 - detail on sheet 6		0			Aug-2011	C	Drywell has a small 6" removable plug on lid in the center of a 4' wide concrete cover
47	103-CB1-G-28	103rd Ave Ct NW	Stepan 7	4	Type 1 CB	grate	CB #28 grate=222.93 IE=220.35 (thru curb grate)	street in front of lot 15					Jul-2010	B	
48	103-CB2-M-29		Stepan 7	4	Type 2 CB	manhole cover	CB #29 Top=219.60, IE= 216.52	on property line between lots 14 & 15 under fence with brick surround 80' from CB #28					Aug-2011	B	
49	103-IT-N-2		Stepan 7	4	Infiltration Trench	na	25 LF 12" Perf CMP, 3' wide, 3' deep trench (see sheet 7)	on lot 15 in garden and lawn between CB #29 & drywell #3					Aug-2011	E	detail on sheet 6
50	103-DW-C-3		Stepan 7	4	Drywell #3	solid concrete	48" x3 See detail on sheet 7	on lot 15 in lawn area 25' from CB #29					Aug-2011	E	
51	104-CB2-M-1A	104th Ave Ct NW	Stepan 7	2,6	Type 2 CB	manhole cover	CB #1A Top=212.1 IE=208.5 (15" E) IE=205.5 (15" S)	on lot 4 near Artondale across from 105th Ave					Jul-2010	D	detail on sheet 6
52	104-CB1-G-1		Stepan 7	2,6	Type 1 CB	grate	CB #1 grate=216.84 IE=213.64 (15" E&W)	street on west side near lot 4 and the intersection with Artondale.					Jul-2010	D	
53	104-CB1-G-2		Stepan 7	2	Type 1 CB	grate	CB #2 grate=216.84 IE=213.89 (15" E&W)	street on east side near lot 5 and the intersection with Artondale.					Jul-2010	D	
54	104-CB2-G-3		Stepan 7	2	Type 2 CB	grate	CB #3 grate=228.5 IE=225.36 (12" N&E) IE=215.91 (12" W) IE=215.58 (15" S)	street on west side near lot 4 and the intersection with 50th St Ct.					Jul-2010	D	
55	104-CB1-G-4		Stepan 7	2	Type 1 CB	grate	CB #4 grate=228.5 IE=225.86	street on east side near lot 6 and the intersection with 50th St Ct.					Jul-2010	D	
56	104-CB1-G-5		Stepan 7	2	Type 1 CB	grate	CB #5 grate=233.10 IE=230.10	street on west side near lot 31 and the intersection with 50th St Ct.					Jul-2010	D	
57	104-CB1-G-6		Stepan 7	2	Type 1 CB	grate	CB #6 grate=253.06 IE=250.73	street on east side near lot 7					Jul-2010	D	
58	105-CB1AV-G-17	105th Ave NW	Stepan 7	3,6	Type 1 CB	grate	CB #17 grate=203.52 IE=198.33 15" N&S	near Artondale on the west side					Jul-2010	C	
59	105-CB1-G-18		Stepan 7	3	Type 1 CB	grate	CB #18 grate=179.20 IE=173.18	up from cul-de-sac about 20 feet, 186' from CB #17					Jul-2010	C	
60	105-CB1-G-19		Stepan 7	3	Type 1 CB	grate	CB #19 grate=161.22 IE=157.36	at end of cul-de-sac, 100' from CB #18					Jul-2010	C	
61	105-CB1-S-20		Stepan 7	3,5A	Type 1A CB	steel hatch	CB #20 top=110.5 IE=107.00	on lot 7 in the woods - 181 feet from CB #19	182	50	15.8	28.3		E	
62	105-CB1-S-34		Stepan 7	5A	Type 1A CB	steel hatch	CB #34 top=97.38 IE=92.50	on lot 7 in the woods - 143 feet from CB #20	143	14.5	5.8	10.2		E	
63	105-CB1-S-33		Stepan 7	5A	Type 1A CB	steel hatch	CB #33 top=86.21 IE=82.50	on lot 6 in the woods - 92 feet from CB # 34	92	10	6.2	10.9		E	
64	105-CB2-M-32		Stepan 7	5A	Type 2 CB	manhole cover	CB #32 top=86.12 IE=78.70 (15" S) IE=73.03 (12" N) IE=72.78 (15" W)	on lot 6 in the woods - 38 feet from CB #33	38	9.7	14.6	26.1		E	
65	105-CB1-G-35		Stepan 7	5A	Type 1 CB	grate	CB #35 grate=48.42 IE=43.5	alongside road in drainage ditch 110 feet from CB #32 - not in KREHA	110	35.2	18.3	33.1		C	Need to decide if we are going to pay for this or not
66	105-CB2-M-36		Stepan 7	5A	Type 2 CB	manhole cover	CB #36 top=23.70 IE=18.43 (15" E) IE=19.18 (18" W)	135 feet from CB #35 - not in KREHA	135	25.07	10.6	18.8		C	Need to decide if we are going to pay for this or not
67	105CT-CB2-23	105th Ave Ct NW	Stepan 7	5	Type 2 CB	grate	CB #23 grate=260.1 IE=157.00	street upper road adjacent lot 2					Jul-2010	C	
68	105CT-CB1-23A		Stepan 7	5	Type 1 CB	steel hatch	CB #23A top=149.31 IE=146.86	in medium buried along side of lower road						E	
69	105CT-CB1-24		Stepan 7	5	Type 1 CB	grate	CB #24 grate=148.91 IE=146.58 (12" NE, SE & NW)	street lower road in front of lot 2					Jul-2010	C	
70	105CT-CB1-25		Stepan 7	5	Type 1 CB	grate	CB #25 grate=140.04 IE=137.71	street inside edge of turn around					Jul-2010	C	
71	105CT-CB2-26		Stepan 7	5,5A	Type 2 CB	grate	CB #26 grate=140.09 IE=136.52 (12" N & SE) IE=134.00 (12" SW)	street outside edge at corner of lot 1					Jul-2010	C	
72	105CT-CB2-27		Stepan 7	5A	Type 2 CB	manhole cover	CB #27 top=115.70 IE=113.00 (12" NE) IE=105.00 (12" S)	north edge of backyard 150' from CB #26	150	21	8.0	14.1	Jul-2010	C	
73	105CT-CB1-28		Stepan 7	5A	Type 1 CB	steel hatch	CB #28 top=102.90 IE=97.50	on lot 1 in the woods - 115.4 ft from CB #27	115	7.5	3.7	6.5		E	
74	105CT-CB1-29		Stepan 7	5A	Type 1 CB	steel hatch	CB #29 top=97.46 IE=94.50	on lot 2 in the woods - 106.2 ft from CB #28	106	3	1.6	2.8		E	
75	105CT-CB1-30		Stepan 7	5A	Type 1 CB	steel hatch	CB #30 top=84.75 IE=81.50	on lot 3 in the woods - 150.5 ft from CB #29	150	13	5.0	8.7		E	
76	105CT-CB1-31		Stepan 7	5A	Type 1 CB	steel hatch	CB #31 top=77.71 IE=75.25	on lot 3 in the woods - 84 ft from CB #30	84	6.25	4.3	7.5		E	

Breakdown of Lid Types

Lid Type	Quantity
Street Drains	40
Manholes	9
Steel Hatch	18
Concrete	2

Breakdown of Feature Types

Feature	Quantity
Type 1 CB	55
Type 2 CB	12
Pond	2
Swale	1
Trench	2
Culvert	2
Drywell	2
Total	76

Maintenance Groupings

Group	Features	Roads
A	13.00	98th, 99th street drains & retention pond
B	15.00	50th, 100th, 103rd street drains & retention pond
C	14.00	105thAvCt, 105thAv street drains & 101st drywell
D	14.00	51st, 104th, 101st
E	20.00	buried features 99th, 100th, 101st, 103rd, 105th, 105thAvCt
Total	76.00	