

CITY OF LOVELAND VERTICAL CONTROL NETWORK
NGS CONTROL BENCHMARKS - 1 of 12

Updated – August 6, 2020

BENCHMARK NUMBER	STREET LOCATION	DESCRIPTION	ELEVATION
G 409	3.3 miles N. of Hwy 34 & Hwy 287 Intersection South of West 64 th Street west side of Hwy 287 at Murphy Express Gas Station	Stainless steel rod encased in pipe with 5" logo cap, 3.3 miles Northerly along US Hwy 287 from its junction with US Hwy 34, 102.7' E. of SE corner of Brook residence, 47.6' S. of center of private drive, 40' W. of centerline of S. bound lanes and 3.6' N. of utility pole with two guy wires. <i>Note: Visual inspection on July 31, 2009 found BM may have been disturbed due to earthwork.</i>	NGVD 29 5078.113 NAVD 88 5080.96
H 409	50th Street & Hwy 287 Southwest Corner of Intersection	Stainless steel rod encased in pipe with 5" logo cap, 76.8' W. of centerline of S. bound lanes of Hwy 287, 50.9' NW of utility pole, 32.8' S. of the centerline of W. 50th St. and 3.9' W. of utility pole marked "B 354-9494".	NGVD 29 5055.692 NAVD 88 5058.54
F 409	45th Street & Hwy 287 Northwest Corner of Intersection	Stainless steel rod encased in pipe with 5" logo cap, 74.8' E. of center of private drive, 32.8' W. of centerline of S. bound lanes of Hwy 287, 29.9' N. of center of 45th St. and 2.6' W. of utility pole marked "B 354-9528".	NGVD 29 5039.055 NAVD 88 5041.91
K 105 RESET	29th Street & Garfield Ave Northwest Corner at ADA Ramp on 29 th Street	Disk set into the top of a concrete post flush with the ground, 39.4' W. of the centerline of Garfield Ave., 21.0' N. of the centerline of W. bound lanes of 29th St. and 1.0' N. of the S. edge of curb.	NGVD 29 5025.328 NAVD 88 5028.19
W 401	29th St & R.R. Tracks	Metal rod encased in pipe with 5" logo cap, 168' N. of centerline of W. bound lanes of 29th St., 36.7' E. of the near rail and 4.9' S. of utility pole.	NGVD 29 5020.344 NAVD 88 5023.21

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BENCHMARK NUMBER	STREET LOCATION	DESCRIPTION	ELEVATION
H 401	22nd Street & Taft Ave Northwest Corner at Pedestrian Signal Pole	Stainless steel rod encased in pipe with 5" logo cap, 37.1' N. of centerline of 22nd St., 25.6' W. of the center of S. bound lanes of Taft Ave and 7.5' W. of utility pole.	NGVD 29 5014.071 NAVD 88 5016.94
G 322 RESET 1994	Taft Ave & US Hwy 34 Northeast Corner of Intersection	Disk in 2x2.5' concrete sign block at the SE corner of gas station, 95.1' E. of N. bound centerline of Taft Ave., 55.8' N. of centerline of W. Eisenhower Blvd, 2.6' NW of fence corner, 7.5' N. of edge of curb and 23.6' S. of SW corner of building (1327 W. Eisenhower Blvd).	NGVD 29 5022.43 NAVD 88 5025.3
E 37 RESET	Inlet to Lake Loveland - Hwy 34	Disk set in E. end of S. headwall of Big Barnes Ditch inlet to Lake Loveland, 1.0 miles W. along Hwy 34 from its junction with Hwy 287, 25.3' S. of centerline of E. bound lanes of Hwy 34 and 21.3' N. of N. edge of sidewalk.	NGVD 29 5014.357 NAVD 88 5017.22
J 401	15th St - Jackson	Stainless steel rod encased in pipe with 5" pipe with logo cap, 98.1' NW of NW corner of Skate Castle Building, 43.6' W. of the center of the intersection and 3.6' SE of utility pole.	NGVD 29 5024.429 NAVD 88 5027.29
LOVELAND RESET	Cleveland - S. Entrance to Cemetery	Triangulation Station disk in concrete post in NE end of planter, 53.1' E of the center of the entrance to Lakeside Cemetery, 33.5' S. of the center of 17th St. and 23.3' NW of centerline of Cleveland Ave.	NGVD 29 5032.900 NAVD 88 5035.76
K 401	7th St - R.R. Tracks	Stainless steel rod encased in pipe with 5" logo cap, 106' N. of centerline of 7th St., 18.0' W. of near rail, 16.7' E. of the center of private driveway and 2.3' N. of utility pole. <i>Note: Visual inspection on July 31, 2009 found the dirt around this BM appears to have subsided and the monument box has shifted.</i>	NGVD 29 4987.388 NAVD 88 4990.26

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G 402	1st Street & Railroad Ave	Stainless steel rod encased in pipe with 5" logo cap, 66.3' N. of centerline of 1st St., 39.0' E. of the near rail of the Colorado and Southern Railroad, 37.1' W. of centerline of Railroad Ave and 3.6' S. of utility pole marked "33-25-45".	NGVD 29 4969.111 NAVD 88 4971.98
C 410	5th Street SE & S. End of Island at Split in Hwy 287	Stainless steel rod encased in pipe with 5" logo cap, 284.1' S. of centerline of 5th St. SE, 79.4' NE of centerline of S. bound lanes of Hwy 287, 71.9' W. of centerline of N. bound lanes of Hwy 287, 65.6' N. of center of paved road and 35.1' NW of center of 2x4' storm drain cover.	NGVD 29 4934.970 NAVD 88 4937.85
F 402	US Hwy 287 & State Hwy 402 Northeast Corner of Intersection	Stainless steel rod encased in pipe with 5" logo cap, 168' E. of centerline of N. bound lanes of Hwy 287, 115.8' W. of center of private drive, 50.2' N. of centerline of Hwy 402, and 7.9' W. of utility pole.	NGVD 29 4928.730 NAVD 88 4931.62
H 402	2.75 miles South of US Hwy 287 & US Hwy 34 Intersection	Stainless steel rod encased in pipe with 5" logo cap, 2.75 miles Southerly along Hwy 287 from its junction with Hwy 34, 52.8' E. of centerline of Hwy 287, 39.7' S. of center of private drive and 1' W. of fence.	NGVD 29 5038.884 NAVD 88 5041.76

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BM NUMBER	STREET LOCATION	DESCRIPTION	ELEVATION
95 01	West I-25 Frontage Road North of McWhinney Blvd	Alum. disk on S. end of W. headwall at canal on W. frontage road, 1200 N. of McWhinney Blvd Intersection.	NGVD 29 4957.02 NAVD 88 4959.883
95 02 RESET 1999	Rocky Mountain Ave and US Hwy 34	Alum. disk in concrete set 0.5' N. and 2.0' W. of the E end of the headwall of outlet structure for canal 240' N of Hwy 34 and 120' E of Rky. Mtn Ave. This disk was 3rd order leveled by The Sear-Brown Group on May 28, 1999 using a level loop from and back to BM 95 03.	NGVD 29 4936.52 NAVD 88 4939.390
95 03	Loveland RV Resort and US Hwy 34	Alum. disk on headwall at canal, N. side of Hwy 34, 2450' W. of Rocky Mountain Ave intersection.	NGVD 29 4935.98 NAVD 88 4938.850
95 04	Boyd Lake Ave aka County Road #9 and US Hwy 34	Rebar with alum. cap in valve box with lid marked "SURVEY", by NE guard pole at NE corner of intersection.	NGVD 29 4945.60 NAVD 88 4948.469
95 05	3000' W. of Co. Rd. #9 and US Hwy 34	Alum. disk on NE corner of median drain.	NGVD 29 4947.44 NAVD 88 4950.310
95 06	Denver Ave & US Hwy 34	Disk on S. end of E. headwall, at bridge on Denver Ave, 500' N. of Hwy 34 intersection.	NGVD 29 4967.15 NAVD 88 4970.021
95 07 (does not bear this number)	Boise Ave and US Hwy 34	Bolt on S. side of traffic control box, NW corner of intersection.	NGVD 29 4978.81 NAVD 88 4981.673
95 08	Redwood Ave & US Hwy 34	Rebar with alum. cap, W. of signal pole, NW corner of intersection	NGVD 29 4993.71 NAVD 88 4996.575

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BM NUMBER	STREET LOCATION	DESCRIPTION	ELEVATION
95 09	Van Buren Ave & US Hwy 34	Alum. disk on signal pole base, south side of NE signal pole.	NGVD 29 5041.56 NAVD 88 5044.420
95 10	Wilson Ave & US Hwy 34	Alum. disk in concrete base of signal pole, NE corner of intersection.	NGVD 29 5060.56 NAVD 88 5063.428
95 11	Kennedy Ave & US Hwy 34	Alum. disk in concrete wall at N. of dam, on E. side of Kennedy, 880' N. of Hwy 34 intersection.	NGVD 29 5064.50 NAVD 88 5067.365
95 12	2000' West of Kennedy Ave & US Hwy 34	Alum. disk on E. end of retaining wall, on N. side of Hwy. 34, 2000' W. of Kennedy intersection.	NGVD 29 5070.90 NAVD 88 5073.764
95 13	Morning Drive & US Hwy 34	Alum. disk on SW corner of sanitary sewer vault, NE corner of intersection.	NGVD 29 5058.66 NAVD 88 5061.520
95 14	Morning Drive And 1300' North of US Hwy 34.	Alum. disk on E. end of N. headwall where Morning Dr. crosses canal, 1300' N. of Hwy. 34 intersection.	NGVD 29 5100.76 NAVD 88 5103.623
95 14 1	Morning Drive & Juniper Lane	Rebar with alum. cap on E. side of Morning Dr., at edge of asphalt, 100' N. of Juniper intersection.	NGVD 29 5187.06 NAVD 88 5189.916
95 15	Boyd Lake Ave (Co. Rd. #9) & Frank Road	Rebar with alum. cap in a valve box with lid marked "SURVEY", along fence on W. side of Boyd Lake Dr., 50' N. of Frank Rd intersection.	NGVD 29 Information Being Updated

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BM NUMBER	STREET LOCATION	DESCRIPTION	ELEVATION
95 16	Boyd Lake Lift Station	Rebar with alum. cap, NE corner of lift station fence.	NGVD 29 4965.76 <i>NAVD 88 4968.621</i>
95 17	Boise Ave & Silver Leaf Drive	Rebar with alum. cap in valve box with lid marked "SURVEY", at NE corner of intersection.	NGVD 29 4970.06 <i>NAVD 88 4972.929</i>
95 19	Monroe Ave & 29 th Street	Alum. disk at N. side of traffic light base at SW corner of intersection.	NGVD 29 5000.88 <i>NAVD 88 5003.745</i>
95 20	Custer Ave & 29 th Street	Alum. disk at base of signal pole, SE corner of intersection.	NGVD 29 5028.33 <i>NAVD88 5031.193</i>
95 21	Taft Ave & 29 th Street	Alum. disk, on concrete base of signal pole at SW corner of intersection.	NGVD 29 5030.26 <i>NAVD 88 5033.120</i>
95 22	Loveland Municipal Golf & 29 th Street	Alum. disk on corner of fence post conc. base, 50' E. of golf course.	NGVD 29 5053.37 <i>NAVD 88 5056.230</i>
95 23	Greenland Drive & 29 th Street	Alum. disk on E. end of N. headwall of box culvert	NGVD 29 5091.35 <i>NAVD 88 5094.210</i>
95 23 1	Wilson Ave & 29 th Street	Alum. disk on NE corner of electric vault lid, NE corner of intersection.	NGVD 29 5119.11 <i>NAVD 88 5121.972</i>
95 24	Duffield Ave & Dry Creek Bridge	Alum. disk on N. end of W. headwall on N. Duffield Ave.	NGVD 29 5027.80 <i>NAVD 88 5030.658</i>

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BM NUMBER	STREET LOCATION	DESCRIPTION	ELEVATION
95 25	Taft Ave & 37 th Street	Alum. disk at base of signal pole, SW corner of intersection.	NGVD 29 5056.89 NAVD 88 5059.750
95 25 1	Taft Ave & 40 th Street	Alum. disk on SW corner of inlet at NW corner of intersection.	NGVD 29 5058.81 NAVD 88 5061.666
95 26	Glen Haven & 37 th Street	Alum. disk at NW corner of headwall on irrigation structure between cul-de-sac at Glen Haven and 37th St.	NGVD 29 5086.14 NAVD 88 5088.998
95 27 (does not bear this number) Revised 5/6/1997	N. Wilson @ Woodward facility	Found brass cap in valve box in median of Wilson Ave. at S. end of Woodward facility, marked "1/4 SECTION CORNER, 3 4, T5N, R69W".	NGVD 29 5122.22 NAVD 88 5125.082
95 29	Taft Ave & 43 rd Street	Alum. disk on SE corner of irrigation structure, on E. side of Taft Ave., 900' N. of 43rd intersection.	NGVD 29 5059.62 NAVD 88 5062.479
95 30	Madison Ave & Great Western Railway Track	Alum. disk at base of W. signal pole, at Great Western railroad tracks on N Madison.	NGVD 29 4970.44 NAVD 88 4973.306
95 31	Greeley Canal & 4 th Street	Alum. disk at N. end of W. wing wall.	NGVD 29 4969.23 NAVD 88 4972.105
95 32	Civic Center & 1 st Street Parking Lot	Rebar with alum. cap, Civic Center S. parking lot, SE parking island, SE corner.	NGVD 29 4971.40 NAVD 88 4974.276
95 33	G.L. Canal Franklin - 1st	Alum. disk on W. wingwall on N side of bridge crossing Greeley - Loveland Canal.	NGVD 29 4973.31 NAVD 88 4976.182

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BM NUMBER	STREET LOCATION	DESCRIPTION	ELEVATION
95 35	Glenda Drive & 1 st Street	Alum. disk on headwall of outlet structure of detention pond at SW corner of intersection.	NGVD 29 4992.19 NAVD 88 4995.063
95 36	Wilson Ave & Service Center Entrance	Alum. disk on NE corner of electric vault on W. side of road, across from City of Loveland Service Center entrance.	NGVD 29 4992.40 NAVD 88 4995.270
95 38	Wilson Ave & Big Barnes Ditch	Alum. disk on N. end of wing wall, W. side of Wilson.	NGVD 29 5019.91 NAVD 88 5022.775
95 39	Madison Ave & SE 4 th Street	Alum. disk on irrigation structure at NE corner of intersection.	NGVD 29 4955.23 NAVD 88 4958.108
95 40	S. Boise Ave & Treatment Plant	Alum disk on concrete headwall at canal crossing, 200' N. of City of Loveland treatment plant intersection.	NGVD 29 4940.79 NAVD 88 4943.665
95 41	S. Boise Ave & Southside Lift Station	Rebar with alum. cap, outside fence, 5' N. of Gate.	NGVD 29 4907.65 NAVD 88 4910.534
95 42	Co. Rd. #13C (St. Louis) & Hwy 402	Alum. disk on conc. rail, S. end of W. rail.	NGVD 29 4931.17 NAVD 88 4934.049
95 43	S. Roosevelt Ave & 14 th Street S.W.	Alum. disk on SE corner of inlet structure at NW corner of intersection.	NGVD 29 4967.43 NAVD 88 4970.311

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BM NUMBER	STREET LOCATION	DESCRIPTION	ELEVATION
95 45 (does not bear this number)	Roosevelt Ave Bridge	Brass cap (painted over) 30' S. of N. end of W. wall.	NGVD 29 4950.76 <i>NAVD 88 4953.641</i>
95 46	Trigon Statue in Median on 14th SW	Rebar with alum. cap, in brick-work E. of Trigon statue in median.	NGVD 29 5044.52 <i>NAVD 88 5047.393</i>
95 47	Taft Ave & 14th Street SW	NE bolt at base of NW signal pole.	NGVD 29 5037.73 <i>NAVD 88 5040.608</i>
95 48 RESET	Tyler Ave & 14th Street SW	Alum. disk in concrete at back of walk at NE corner of Tyler and 14th SW. Point set and leveled by The Sear- Brown Group on Dec. 16, 1999	NGVD 29 5021.28 <i>NAVD 88 5024.147</i>
95 49	South Dotsero Ave & 14 th Street SW	Alum. disk on traffic control box pad on S. side of SW 14th St.	NGVD 29 5029.01 <i>NAVD 88 5031.879</i>
95 50	South Wilson Ave & 14 th Street SW	Rebar with alum. cap in valve box with lid marked "SURVEY" at E. end of electric vault at NE corner of intersection.	NGVD 29 5048.54 <i>NAVD 88 5051.413</i>
95 52	14th Street SW & Angora Drive	Rebar with alum. cap, 2700' W. of Wilson, S. side of 14th SW, 1' N. of power pole numbered "08".	NGVD 29 5057.69 <i>NAVD 88 5060.559</i>
95 53	County Rd 21 & 14th Street SW	Alum. disk on N. end of E. wingwall where 14th SW crosses canal.	NGVD 29 5077.57 <i>NAVD 88 5080.436</i>

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95 54	Nadine Ct. & 14th Street SW	Rebar with alum. cap, E. of power pole on S. side of 14th SW.	NGVD 29 5099.58 NAVD 88 5102.445
95 55	North End Nadine Ct.	Rebar with alum. cap, SE corner of Boedecker Lift Station	NGVD 29 5066.59 NAVD 88 5069.462
95 56	S. Taft Ave & 23rd Street SW	Rebar with alum. cap, NE corner of intersection near power pole.	NGVD 29 5062.03 NAVD 88 5064.908
95 57 Reset October 13, 2016	Monroe Ave & 33 rd Street	Alum. disk on SW corner of irrigation structure on E. side of Monroe, 500' N of 33rd intersection.	NGVD 29 5007.18 NAVD 88 5010.027
95 58 Reset October 13, 2016	Monroe Ave & 41 st Street	Alum. disk on Northwest corner of the South Concrete pad at South Horseshoe Lift Station.	NGVD 29 4980.750 NAVD 88 4983.597
95 59	Monroe Ave & 50 th Street	Alum. disk on headwall of culvert at NW corner of intersection.	NGVD 29 4983.62 NAVD 88 4986.467
95 60	Monroe Ave & Ptarmigan Circle	Alum. disk at S. end of concrete pad at North Horseshoe Lift Station.	NGVD 29 4982.84 NAVD 88 4985.691
95 61	Madison Ave & E 37 th Street aka County Rd. 24 E	Alum. disk on concrete irrigation structure, NE corner of intersection.	NGVD 29 4999.62 NAVD 88 5002.495

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95 62	1st Street & Namaqua Rd.	Alum. disk on concrete irrigation headwall, SW corner of intersection.	NGVD 29 5033.40 NAVD 88 5036.274
95 63	23rd Street SW & Frances Drive	Alum. disk on headwall at W. end of cul-de-sac on 23rd St. SW, 300 W. of Frances Drive intersection.	NGVD 29 5016.79 NAVD 88 5019.666
95 64	19th Street SW & South Colorado	SE bolt on fire hydrant at SW corner of intersection.	NGVD 29 5005.29 NAVD 88 5008.173
99 01	Wilson Ave & Big Thompson River	Alum. disk on top of parapet wall at SE Corner of bridge.	NGVD 29 5003.47 NAVD 88 None
05 01	Wilson Ave & Carlisle Drive	Alum. disk at N. end of W. headwall at culvert crossing, 50' N. of Carlisle intersection, bearing the following inscription: 05 01 5034.23 2005	NGVD 29 5034.23 NAVD 88 None
05-02	Walmart Distribution Center	Alum. disk at SE corner of concrete slab, 8' NE of chain link fence corner, 38' W of access road to Walmart Distribution Center, 55' S of centerline of Crossroads Blvd (LCR 26). Bears the following inscription: "BM 05-2 KSI"	NGVD 29 5050.34 NAVD 88 None

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05-03	Arena Circle & Fairgrounds Ave	Alum. disk on SE corner of concrete electric vault lid, NW corner of intersection, 13' N. of N. curb of Arena Circle and 75' W of centerline of Fairgrounds Parkway. Bears the following inscriptions: "COL 05-03" and also "BM 05-1 KSI"	NGVD 29 5034.90 <i>NAVD 88 None</i>
26-7	Rocky Mountain Ave & Crossroads Boulevard	Alum. disk at NE corner of concrete slab, 6' NE of S. electric box, 65' west of chain link fence, 170' N of edge of asphalt on Crossroads Blvd at intersection with Rocky Mountain Ave. Bears the following inscription: "BM 26-7 KSI"	NGVD 29 5015.56 <i>NAVD 88 None</i>
06-01	Centerra Parkway & Kendall Parkway	Alum. disk in center of inlet box on NW side of Centerra Pkwy, 90' SW of W. corner at intersection of Centerra Pkwy and Kendall Pkwy. Bears the following inscription: "BM 06-01 KSI"	NGVD 29 4954.12 <i>NAVD 88 None</i>
06-02	Centerra Parkway & Sky Pond Drive	Alum. disk in island, 1.5' N of traffic mast, at NW corner of intersection of Centerra Pkwy and Sky Pond Dr. Bears the following inscription: "BM 06-02 KSI"	NGVD 29 4957.96 <i>NAVD 88 None</i>
19-01	Roosevelt Ave & Big Thompson River Bridge, built 2018	Disk on northwest corner of bridge sidewalk, bridge was built in 2018. Northing = 1,384,045.26 Easting = 3,711'238.52 Horizontal Control NAD83	NGVD 29 None <i>NAVD 88 4950.27</i>