



# RLS PROFESSIONAL SERVICES, P.A.

Ringel Land Survey

**LAND SURVEYING: DEVELOPMENT – CONSTRUCTION**

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June 6, 2019  
LT19011

Ron Brown, President  
Leisure Time Park Owners Association  
513 Sawyer, F-33  
Cascade, Idaho 83611

Dear Ron,

The Base Flood Elevation (BFE) as shown on the FEMA FIRMette map for City of Cascade 160161, cross section AD, Zone AE, panel number 16085C1593C effective 2/1/2019 is 4740.9 feet.

At your request, we measured and shot elevations on the westerly rims of 6 manholes inside the Leisure Time RV Park boundary as shown on enclosed Google map.

The elevations are based upon NAVD88 Ortho Height as shown on the NGS data sheet for the brass cap monument P139, the elevation of which is 4769.04 feet. We also found NGS brass cap monument A136, the NAVD88 Ortho Height as shown on the NGS data sheet is 4764.74 feet. We measured it at 4764.53 feet.

The elevations shot on the 6 manholes (MH) are as follows:

|                |              |    |                    |
|----------------|--------------|----|--------------------|
| MH1 - 4740.146 | BFE = 4740.9 | or | 0.7 feet below BFE |
| MH2 - 4739.189 |              |    | 1.7 feet below BFE |
| MH3 - 4737.684 |              |    | 3.2 feet below BFE |
| MH4 - 4738.094 |              |    | 2.8 feet below BFE |
| MH5 - 4738.053 |              |    | 2.8 feet below BFE |
| MH6 - 4739.459 |              |    | 1.1 feet below BFE |

Enclosed are copies of the NGS data sheets, a portion of the FEMA FIRMette and the Google topo showing the locations of the manholes for your information.

Sincerely,

  
Dave Ringel

# The NGS Data Sheet

See file [dsdata.pdf](#) for more information about the datasheet.

PROGRAM = datasheet95, VERSION = 8.12.5.3

1 National Geodetic Survey, Retrieval Date = MAY 30, 2019

QB0084 \*\*\*\*\*

QB0084 DESIGNATION - P 139

QB0084 PID - QB0084

QB0084 STATE/COUNTY- ID/VALLEY

QB0084 COUNTRY - US

QB0084 USGS QUAD - CASCADE (1985)

QB0084

QB0084 \*CURRENT SURVEY CONTROL

QB0084

QB0084\* NAD 83(1986) POSITION- 44 31 26. (N) 116 02 30. (W) SCALED

QB0084\* NAVD 88 ORTHO HEIGHT - 1453.605 (meters) 4769.04 (feet) ADJUSTED

QB0084

QB0084 GEOID HEIGHT - -15.136 (meters) GEOID12B

QB0084 DYNAMIC HEIGHT - 1452.948 (meters) 4766.88 (feet) COMP

QB0084 MODELED GRAVITY - 980,115.1 (mgal) NAVD 88

QB0084

QB0084 VERT ORDER - SECOND CLASS 0

QB0084

QB0084.The horizontal coordinates were scaled from a topographic map and have

QB0084.an estimated accuracy of +/- 6 seconds.

QB0084.

QB0084.The orthometric height was determined by differential leveling and

QB0084.adjusted by the NATIONAL GEODETIC SURVEY

QB0084.in June 1991.

QB0084

QB0084.Significant digits in the geoid height do not necessarily reflect accuracy.

QB0084.GEOID12B height accuracy estimate available [here](#).

QB0084

QB0084.The dynamic height is computed by dividing the NAVD 88

QB0084.geopotential number by the normal gravity value computed on the

QB0084.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

QB0084.degrees latitude (g = 980.6199 gals.).

QB0084

QB0084.The modeled gravity was interpolated from observed gravity values.

QB0084

QB0084; North East Units Estimated Accuracy

QB0084;SPC ID W - 317,440. 776,820. MT (+/- 180 meters Scaled)

QB0084

QB0084\_U.S. NATIONAL GRID SPATIAL ADDRESS: 11TNK761305(NAD 83)

QB0084

QB0084 SUPERSEDED SURVEY CONTROL

QB0084

QB0084 NGVD 29 (??/??/92) 1452.54 (m) 4765.5 (f) COMPUTED 2 0

QB0084

QB0084.Superseded values are not recommended for survey control.

QB0084

QB0084.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

QB0084. See file dsdata.pdf to determine how the superseded data were derived.

QB0084

QB0084\_MARKER: DB = BENCH MARK DISK

QB0084\_SETTING: 36 = SET IN A MASSIVE STRUCTURE

QB0084\_SP\_SET: BRIDGE

QB0084\_STAMPING: P 139 1935

QB0084\_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

QB0084

| QB0084 | HISTORY | - Date | Condition  | Report By |
|--------|---------|--------|------------|-----------|
| QB0084 | HISTORY | - 1935 | MONUMENTED | CGS       |
| QB0084 | HISTORY | - 1953 | GOOD       | USGS      |

QB0084

QB0084 STATION DESCRIPTION

QB0084

QB0084'DESCRIBED BY US GEOLOGICAL SURVEY 1953

QB0084'0.8 MI N FROM CASCADE.

QB0084'0.8 MILES NORTH ALONG THE OREGON SHORT LINE RAILROAD FROM THE SCHOOL

QB0084'AT CASCADE AT BRIDGE IN ABANDONED SECTION OF RAILROAD (NOW CAR BRIDGE)

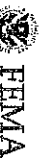
QB0084'OVER THE NORTH FORK PAYETTE RIVER. IN TOP OF THE SOUTH END OF THE

QB0084'EAST WING WALL AND 9.5 FEET SOUTH EAST OF THE CENTERLINE OF THE ROAD.

\*\*\* retrieval complete.

Elapsed Time = 00:00:04

# National Flood Hazard Layer FIRMette



## Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

### SPECIAL FLOOD HAZARD AREAS

Without Base Flood Elevation (BFE)  
Zone A, V, AE9  
With BFE or Depth Zone AE, AO, AH, VE, AR  
Regulatory Floodway

0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X  
Future Conditions 1% Annual  
Chance Flood Hazard Zone X  
Area with Reduced Flood Risk due to Levees. See Notes, Zone X  
Area with Flood Risk due to Levee Zone D

### OTHER AREAS OF FLOOD HAZARD

NO SCREEN  
Area of Minimal Flood Hazard Zone X  
Effective LOMRs

### OTHER AREAS

GENERAL  
STRUCTURES  
Channel, Culvert, or Storm Sewer  
Levee, Dike, or Floodwall

20.2  
Water Surface Elevation  
17.5  
Base Flood Elevation Line (BFE)  
50  
Limit of Study  
Jurisdiction Boundary  
Coastal Transect Baseline  
Profile Baseline  
Hydrographic Feature

### MAP PANELS

Digital Data Available  
No Digital Data Available  
Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 6/5/2013 at 11:41:24 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



