DESCRIPTION OF DATA CONTAINED ON STANDARD GIS DATA PACKAGE
Updated: April 27, 2022

CAUTION REGARDING MAP ACCURACY

Ideally, all parcel data is within a known distance of true location just as if everything were tied by survey to primary monuments. However, in most cases monumentation is not so well known. New subdivisions are being entered directly from the recorded plats using tie points and basis of bearing as noted on the plats. Such newer data can generally be assumed to be within twenty feet of true location. Digitized data from printed maps such as the U.S.G.S. 15-minutes and 7½ minute quad sheets will have an inherent accuracy commensurate inversely with the source scale. The old hand-drawn Borough base maps were precise enough for sparse land development and have that level of accuracy. Parcel data from these sources will be far less precise.

MAP PROJECTION

All feature classes, shapefiles, dwg drawings, and images are in State Plane Coordinates, Alaska Zone 3, US Survey Feet, using NAD 83 datum.

THE DIRECTORY STRUCTURE

The Base Map and GIS Data is organized by the following directories:

\CAD_Drawings – Individual AutoCAD dwg files of the following layers: parcels, labels, Road Frontage, Water Frontage, Meridian and Baseline, Sections, Townships, and a dwg file that contains all of the layers.

\Corps_2010_LiDARDEM_Hillshade_Contours – Digital Elevation Model (DEM), Hillshade of the DEM, and 2 foot contours developed from LiDAR acquired for the US Army Corps of Engineers in May, 2010 as part of the Flood Inundation Study of the Moose Creek Dam and Levee System.

\Geodatabase – The Esri formatted file geodatabase of the FNSB GIS vector layers. Additionally, the Esri formatted layer files that contain symbology and filter settings for the FNSB GIS vector layers.

\Metadata – Metadata prepared by the FNSB and other agencies that applies to data within this package.

\Platting – Recorded plat lists of the Fairbanks North Star Borough.

\SDMI_2010_IFSAR_25FT_Contours_generalized_2ft – Contours created from the SDMI (Statewide Digital Mapping Initiative) 2010 IFSAR (Interferometric Synthetic Aperture Radar) that have been generalized to 25 ft elevation increments.

\Shapefiles – Esri formatted shapefiles of the FNSB GIS vector layers.

\TananaRiverSalchaFloodStudy_2016_DEM – A digital elevation model (DEM) created for the Tanana River / Salcha Flood Study. This DEM provides
Description of Data on the Standard GIS Data Package

Updated: 4/27/22

elevation data for the Tanana River area just south of North Pole and west of Eielson Air Force Base.
\Text\ – Downloads from the Fairbanks North Star Borough taxroll, including parcel and value information, street addresses, and the Parent-child relation table to link together the records by Property Account Number (PAN).
\USGS 3DEP 2017 LiDAR DEM Hillshade Contours – Digital Elevation Models (DEMs), Hillshades of the DEMs, 1.0 foot contours for the populated center of the Fairbanks North Star Borough, 2.0 foot contours of the outer, populated corridors of the Fairbanks North Star Borough. The DEMs and contours were delivered from the 2017 USGS 3DEP LiDAR collection that USGS contracted Quantum Spatial to collect. The Hillshades were generated from the DEMs delivered for this collection.

Root Directory
Metadata.doc and Metadata.txt - detailed explanation of the data contained on the Standard GIS Data Package.
Readme.doc and Readme.txt – basic explanation of the Fairbanks North Star Borough’s GIS system

\CAD_Drawings
AutoCAD_Basemap_Features_Combined_201xxxxx.dwg – An export to dwg format of parcels, labels, Access Easements, Road Frontage, Water Frontage, Meridian and Baseline, Sections, Townships
AutoCAD_Parcels_201xxxxx.dwg - An export to dwg format of the geodatabase feature class, Parcel_Lot_Polygons,” which consists of a seamless drawing of all parcels in the Fairbanks North Star Borough
AutoCAD_Parcels_201xxxxx_Labels.dwg – An export to dwg format of the geodatabase feature class, “Labels,” the small labels, which contains labels for all small-scale labels in the Fairbanks North Star Borough.
AutoCAD_Access_Easments_201xxxxx.dwg - An export to dwg format of the geodatabase feature class, Easements_Access_Incomplete,” which consists of Access Easements that have been that have been mapped to date. This layer does not include any utility easements. Easement types mapped include Airstrip, Driveway, Roadway, Section Line, Trail, Pipeline, and Other. This layer will almost certainly always be incomplete, as mapping of Easements did not begin until 2010, and limited staff resources inhibit the ability to research older easements.
AutoCAD_Parcels_201xxxxx_Road_Frontage.dwg –
AutoCAD_Parcels_201xxxxx_Water_Frontage.dwg –
AutoCAD_Reference_Meridian_Baseline.dwg
AutoCAD_Reference_Sections.dwg
AutoCAD_Reference_Townships.dwg

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Corps_2010_LiDARDEM_Hillshade_Contours
DOE_COE_2010.img - Digital Elevation Model (DEM) developed from LiDAR acquired for the US Army Corps of Engineers in May 2010 as part of the Flood Inundation Study of the Moose Creek Dam and Levee System.

Hillshade_2010_LiDARDEM.img - Hillshade processed by the FNSB GIS Division from the DEM developed from LiDAR acquired for the US Army Corps of Engineers in May 2010 as part of the Flood Inundation Study of the Moose Creek Dam and Levee System.

Fairbanks_Contours_Mosaic.gdb – 2-foot contours processed by a contractor from the Digital Elevation Model (DEM) developed from LiDAR acquired for the US Army Corps of Engineers in May 2010 as part of the Flood Inundation Study of the Moose Creek Dam and Levee System.

SDMI_2010_IFSAR_25ft_Contours_generalized_2ft
SDMI_2010_IFSAR_25ft_Contours_generalized_2ft.gdb – File geodatabase of 25 foot contours derived from the 2010 SDMI IFSAR elevation data collection. Contours generated using ArcGIS Spatial Analyst tools, then ran through the generalize tool with no more than 2-foot horizontal offset, to reduce the number of vertices and file size to one-ninth the original size. Processed by Fairbanks North Star Borough GIS Division.

Geodatabase and Shapefiles
Geodatabase - FNSBGIS.gdb, an export of Esri ArcSDE GIS layers to an Esri ArcGIS compressed file geodatabase.

Shapefiles – an export of ArcSDE GIS layers to Esri Shapefile format.

Address_Valid_Points – Valid Street Address Points for the Fairbanks North Star Borough. Created and maintained by the FNSB Emergency Operations Department.

Aerial_Images_Coverage – Polygon layer of footprints of aerial photo coverage within the Fairbanks North Star Borough (NOTE: currently out of date). Created and maintained by the FNSB GIS Division.

Airquality_Co_RegArea – Regulatory area for Carbon Monoxide within the Fairbanks North Star Borough. Maintained by the FNSB Air Quality Division.

Airquality_PM25_RegArea – Non-attainment Regulatory area for PM 2.5 particulates within the Fairbanks North Star Borough, as adopted by the State of Alaska and U.S. Environmental Protection Agency. Source: FNSB Air Quality Division.

Airquality_PM25_CtrlZone – Regulatory area for PM 2.5 particulates within the Fairbanks North Star Borough, as regulated by the Fairbanks North Star Borough. Source: FNSB Air Quality Division.
Boundary_Borough_FNSB- Fairbanks North Star Borough boundary.  
*Maintained by the FNSB GIS Division based on documents from the State of Alaska Boundary Commission.*

Boundary_Cities_FNSB – City of Fairbanks and City of North Pole municipal boundaries.  *Source: Cities of Fairbanks and North Pole, maintained by FNSB GIS Division.*

Boundary_DOT_FIA – Fairbanks International Airport boundary.  
*Created and maintained by Alaska Department of Transportation and Public Facilities.*

Boundary_Military_FNSB  
- Boundary_Mil_Eielson – Cantonment (base) boundaries for Eielson Air Force Base, Alaska.  
  *Source: Eielson Geobase staff.*  
- Boundary_Mil_Wainwright - Cantonment (base) boundaries for Ft. Wainwright, Alaska.  
  *Source: Ft. Wainwright GIS staff.*

Boundary_Plan_Districts - Planning District boundaries.  *Created and maintained by Fairbanks North Star Borough Department of Community Planning.*

Boundary_PLSS_FNSB - All township, range, and sections within the FNSB.  
*Source: Alaska Department of Natural Resources, some attributes added by FNSB GIS Division.*

Boundary_State_Alaska – an outline of the State of Alaska.  *Source: ESRI Maps and Data bundled with ArcGIS*  

Boundary_UAF_Campus – Boundary of University of Alaska Fairbanks main campus.  
*Source: University of Alaska Fairbanks.*

Building_Coverage_2Pict12 – The extent of 2012 Pictometry Aerial Photography coverage that was examined for building outlines.  *Source: Fairbanks North Star Borough GIS Division.*

Building_Coverage_2Pict17 – The extent of 2017 Pictometry Aerial Photography that was examined for building outlines.  *Source: Fairbanks North Star Borough GIS Division.*

Building_Coverage_2Pict20 – The extent of 2020 Pictometry Aerial Photography that was examined for building outlines.  *Source: Fairbanks North Star Borough GIS Division.*


Building_Deckpnt_2Pict17 – Deck locations identified from 2017 Pictometry Aerial Photography coverage.  *Source: Acquired under contract from EagleView (formerly known as Pictometry, International).*

Building_Deckpnt_2Pict20 – Deck locations identified from 2020 Pictometry Aerial Photography coverage.  *Source: Acquired under contract from EagleView (formerly known as Pictometry, International).*
Building_Lengthside_2Pict12 – Lines depicting the building outlines with information for the lengths of each building side, identified from 2012 Pictometry Aerial Photography coverage. *Source: Acquired under contract from Pictometry, International.*

Building_Lengthside_2Pict17 – Lines depicting the building outlines with information for the lengths of each building side, identified from 2017 Pictometry Aerial Photography coverage. *Source: Acquired under contract from EagleView (formerly known as Pictometry, International).*

Building_Lengthside_2Pict20 – Lines depicting the building outlines with information for the lengths of each building side, identified from 2020 Pictometry Aerial Photography coverage. *Source: Acquired under contract from EagleView (formerly known as Pictometry, International).*

Building_Perimeter_2Pict12 – A polygon layer depicting perimeters of building outlines identified from 2012 Pictometry Aerial Photography coverage. *Source: Acquired under contract from Pictometry, International.*

Building_Perimeter_2Pict17 – A polygon layer depicting perimeters of building outlines identified from 2017 Pictometry Aerial Photography coverage. *Source: Acquired under contract from EagleView (formerly known as Pictometry, International).*

Building_Perimeter_2Pict20 – A polygon layer depicting perimeters of building outlines identified from 2020 Pictometry Aerial Photography coverage. *Source: Acquired under contract from EagleView (formerly known as Pictometry, International).*

Bus_Lines_MAC - Lines depicting the FNSB MACS bus routes. *Source: FNSB Transportation Department.*

Bus_Stops_MAC – Points depicting bus stops on the FNSB MACS bus system. *Source: FNSB Transportation Department.*

Comprehensive_Plan_FNSB – Fairbanks North Star Borough Comprehensive Plan designations. *Created and maintained by Fairbanks North Star Borough Community Planning Department.*

Contours_10ft_CrippleCreek – Ten foot contours of the Cripple Creek Subdivision area. *Scanned by FNSB GIS Division from contours prepared for Cripple Creek Subdivision by Pat Kalen & Associates Surveyors.*

Contours_10ft_FNSB – Vector representation of elevation lines for most of the developed portion of the Borough at 10-foot contour intervals, as processed from the digital elevation model used for the 2002 Quickbird Satellite image project. *DEM mosaicked by Alaska Division of Forestry Northern Region from multiple sources, contours processed from DEM by FNSB GIS Division.*

Contours_50ft_FNSB – Vector representation of elevation lines for most of the Borough at 50-foot contour intervals, as processed from the USGS digital elevation model. *Contours processed from DEM by FNSB GIS Division.*

Easement_Access_Incomplete – Access easements within the Fairbanks North Star Borough that have been mapped to date. This layer does not include any
utility easements. Easement types mapped include Airstrip, Driveway, Roadway, Section Line, Trail, Pipeline, and Other. This layer will almost certainly always be incomplete, as mapping of Easements did not begin until 2010, and limited staff resources inhibit the ability to research older easements. Source: Fairbanks North Star Borough Department of Assessing and Department of Community Planning.


Label_Annotation_FNSB - for the Fairbanks North Star Borough parcel layer, contains all labels for three different scale ranges. Maintained by the FNSB GIS Division.

Land_FNSB_Owned - Land owned, managed, or sold by the FNSB. Source, FNSB Land Management Division, maintained by FNSB GIS Division.

Land_Special_RegAreas – Fairbanks North Star Borough special regulation areas as interpreted and/or determined by the Land Management Division and Community Planning Department. Source, FNSB Land Management Division and Community Planning Department, maintained by FNSB GIS Division.

Milepost_Points_FNSB – Small collection of various milepost along major roads within the Fairbanks North Star Borough. Compiled by FNSB GIS Division.


Noise_Contour_FIA - Fairbanks International Airport noise contours. Created by Fairbanks Airport Noise Study.
Parcel_Lot_Polygons - All lots and parcels in the Borough.  *Source: FNSB Assessing Dept. and Community Planning Departments, maintained by FNSB GIS Division.*

Parcel_TaxInfo_Joined - The Borough parcels depicted in Parcel Lot Polygons, joined with a download of the Borough taxroll (tax_info.txt) to create a GIS layer that has owners, mailing addresses, values, structures, land uses, and estimated size of the parcels.  *Source: FNSB Assessing Dept. and Community Planning Departments, maintained by FNSB GIS Division.*

Park_Facilities_FNSB – Borough owned and maintained parks.  *Source: FNSB Parks and Recreation Department.*

Place_Names_Alaska – Alaska place names clipped to the Borough boundary.  *Source: Alaska Department of Natural Resources.*

Road_Centerlines_FNSB – A line layer depicting centerlines of all platted roads, and all known private roads within the Fairbanks North Star Borough.  Included required attributes for Addressing and Emergency response, along with other information.  *Maintained by FNSB Community Planning Department.*

Road_Districts_FNSB – Fairbanks North Star Borough Road Service Area Planning Districts.  *Created and maintained by FNSB Rural Services Division.*

Road_Plan_FNSB - Fairbanks North Star Borough Road Plan.  *Created and maintained by Fairbanks North Star Borough Department of Community Planning.*

Service_Areas_Fire - Fire service area boundaries.  *Source: FNSB Emergency Services Department, maintained by FNSB Community Planning Department.*

Service_Areas_Road - Road service area boundaries.  *Source: FNSB Rural Services Division, maintained by FNSB Community Planning Department.*

Stormswr_Atlas_Grid – An atlas grid used for labels and general location, created for Fairbanks North Star Borough Stormwater Management Program.  *Created under contract for the Fairbanks North Star Borough, maintained by Fairbanks North Star Borough Public Works Department.*


Stormswr_Snowstorage_Site – Snow storage sites identified for Fairbanks North Star Borough Stormwater Management Program.  *Created under contract for the Fairbanks North Star Borough, maintained by Fairbanks North Star Borough Public Works Department.*


Stormswr_Water_Bodies – Version of Water Bodies layer created for Stormwater Management map.  *Source: Created under contract for the Fairbanks North Star Borough.*

Water_Bodies_Polygons - Major water bodies, rivers and creeks as extracted from aerial photography.  Maintained by FNSB GIS Division.

Zoning_Districts_FNSB – Combination of polygons of FNSB Primary Land Use Zoning districts with Overlay Districts.  Source: FNSB Community Planning Department, maintained by FNSB GIS Division.

Zoning_Overlays_FNSB – FNSB Overlay Zoning districts.  Source: FNSB Community Planning Department, maintained by FNSB GIS Division.

Zoning_Primary_FNSB – FNSB Primary Land Use Zoning districts.  Source: FNSB Community Planning Department, maintained by FNSB GIS Division.

\Metadata
Information about data within this package.

\Platting
Alltable.txt – A text file download of the Alltable plat list of the Fairbanks North Star Borough.
Recplat.txt – A text file download of the recorded plat list of the Fairbanks North Star Borough.
   Tables created and maintained by the Fairbanks North Star Borough Community Planning Department.

\Taxroll
Real Estate Public.txt - A download from the Borough taxroll that contains data on all property tax accounts in the Borough.  Data includes fields for owner1, property and improvement values, year constructed, separate fields for city-state-zip mailing address, and physical address.
Tax_Info.txt – A download from the Borough taxroll that contains data on all property tax accounts in the Borough.  Data includes fields for owner1, owner2, and owner3, property and improvement values, year constructed, merged city-state-zip mailing address, and one physical address per record.
Parent Child Relation.txt - Parent-child relation table to link together the records by Property Account Number (PAN).
Download Situs Addresses.txt – A download from the Borough taxroll that contains all street addresses along with the parcel account number and property description for the address.  Many parcels have more than one structure or unit, thus more than one street address.
USGS 3DEP 2017 LiDAR DEM Hillshade Contours

DEM_2017_Fairbanks_USGS_3DEP_LiDAR_POP_Center
- 1.5 foot Geotiff
- A Hydro-flattened Bare Earth Digital Elevation Model that was generated from the USGS 3DEP Fairbanks LiDAR collection of 2017 (Quantum Spatial was contracted for the collection and deliverables)
- The extent covers the urban core area of the Fairbanks North Star Borough

DEM_2017_Fairbanks_USGS_3DEP_LiDAR_POP_Corridor
- 3.0 foot Geotiff
- A Hydro-flattened Bare Earth Digital Elevation Model that was generated from the USGS 3DEP Fairbanks LiDAR collection of 2017 (Quantum Spatial was contracted for the collection and deliverables)
- The extent covers the populated corridors of the Fairbanks North Star Borough (outer rural areas)

Hillshade_2017_Fairbanks_USGS_3DEP_LiDAR_POP_Center
- A hillshade generated using the DEM 2017 – USGS 3DEP LiDAR (Population Center)
- The extent covers the urban core area of the Fairbanks North Star Borough

Hillshade_2017_Fairbanks_USGS_3DEP_LiDAR_POP_Corridor
- A hillshade generated using the DEM 2017 – USGS 3DEP LiDAR (Population Corridor)
- The extent covers the populated corridors of the Fairbanks North Star Borough (outer rural areas)

Fairbanks_POP_Center_Contours
- 1.0 foot contours in the urban core area of the Fairbanks North Star Borough
- Contours generated from the USGS 3DEP LiDAR collection of 2017 (Quantum Spatial was contracted for the collection and deliverables)

Fairbanks_POP_Corridor_Contours
- 2.0 foot contours in the populated corridors of the Fairbanks North Star Borough (outer rural areas)
- Contours generated from the USGS 3DEP LiDAR collection of 2017 (Quantum Spatial was contracted for the collection and deliverables)