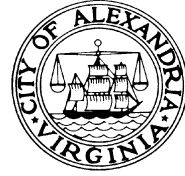


# City of Alexandria, Virginia

## GIS Data CD



This CD contains the following:

- The City of Alexandria's GIS Data (shapefiles and orthophotography)
- Adobe Acrobat Reader 5.0 (versions for Windows 95, Windows 98 and Windows NT/2000)
- ESRI's ArcExplorer Software and User Guide (in PDF format)
- Metadata for the City's data
- PDF and JPEG of the City's orthophotography index

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**Data Format:** The City's data was created using ESRI's ArcView software. The data is available in shapefiles, ArcView's native format. Shapefiles are comprised of three or more files, all with the same name and different file extensions. The files with the .shx, .shp and .dbf extensions must be present for the shapefile to open. For users who do not have ArcView, we are including a copy of ESRI's ArcExplorer. ArcExplorer is a free data viewer that will provide the functions necessary to view our data and orthophotography. We have also included some documentation for ArcExplorer in an Adobe Acrobat file. If you need more information about ArcExplorer or ArcView, please contact ESRI on the web at [www.esri.com](http://www.esri.com) .

We are not providing our data in DXF format at this time. To accommodate users who need DXF files, we are including a link to geocommunity.com. This website has several different Shapefile/DXF translators available to download (<http://software.geocomm.com/translators/cad-dxf/>) as well as having plenty of useful GIS information. There are also several ArcView extensions available that will convert from shapefile to DXF, CADTools and SHP2DXF are available through ERSI's website: (<http://support.esri.com>).

**Contact Information:** If you have any questions regarding this data set, please feel free to email them to [GISHelp@ci.alexandria.va.us](mailto:GISHelp@ci.alexandria.va.us) .

**Real Estate Assessments:** At this time, we are including general real estate assessment information with the City's GIS Data. If you are interested in obtaining more information you may contact the Office of Real Estate Assessments at (703) 838-4646. Assessment information is also available on the City's web site at (<http://ci.alexandria.va.us/city/realestate/> ). Using the website you may look up parcels by Databank number, property address or map, block and lot numbers (ie. Map number: 010.00, block number: 02, lot number: 01).

**Orthophotography:** The City obtains it's orthophotography from VARGIS. Our 2000 orthophotography is MrSID compressed Eyemap R1 images with the following specifications:

Ground Resolution	1 ft.
Tile Grid Size N/S	2000 ft.
Tile Grid Size E/W	3000 ft.
Tile overedge	120 ft.
Square miles per Tile	0.215
MrSID File Size	1.2 Mb

You can contact VARGIS at: 800-834-0225 or on the web at [www.vargis.com](http://www.vargis.com) .

We have included a JPEG of the orthophotography index to allow the user to pick only the tiles they wish to view. We have also included a shapefile of the tile index. To view the orthophotography in ArcExplorer, simply add the tile you need as a layer. To view the orthophotography in ArcView, make sure the MrSID Image Support extension is

turned on.

If you wish to view the MrSID images without ArcExplorer or ArcView, the MrSID GeoViewer is available for free by download from LizardTech at [www.lizardtech.com](http://www.lizardtech.com). The GeoViewer also allows you to convert MrSID images to TIF images.

**Metadata:** The following applies to all data layers:

File Type:	Shapefile, .shp
Spatial Reference:	NAD83, Virginia North, measured in US feet
Accuracy of Data:	±10 feet
Ancillary Data Used to Extract Data:	VARGIS Imagery, City Tax Maps
Date of Original Imagery:	March 1995*
Imagery Resolution:	8 inches
Date of Follow-Up Imagery:	March 1998*
Imagery Resolution:	1 foot
Software Used to Collect Data:	ArcView 3.1
Date(s) Collected:	November 1998-December 1999

All shapefiles include a *shape* field in their tables. This field describes what type of feature the theme or layer is (point, polyline or polygon). Any polyline shapefile will have a *length* field that contains the length of each line segment in feet. Any polygon shapefile will have an *area* field containing the area of the polygon in square feet and a *perimeter* field containing the length of the perimeter in feet.

\* Both the 1995 and 1998 images were licensed and not owned by the City, and therefore are not available for distribution. Only the 2000 imagery is included with this CD.

**Naming Conventions:** Most of the GIS layers found on this CD will contain a name, then an underscore (\_), then a suffix. Suffixes are used to distinguish feature types quickly without having to view the layer. Use the following chart as a reference guide to suffix definitions.

Suffix	Description
Layer_l	Line feature
Layer_lc	Line feature referring to the centerline of the feature
Layer_le	Line feature referring to the edge of a feature (i.e. curbs)
Layer_p	Point feature
Layer_x	Index feature (i.e. tax map index)
Layer_y	Polygon feature

**Available Layers:** (in alphabetical order)

A chart showing the file layout is located at the end of this document.

<b>Theme Name</b>	<b>Alex_l</b>
Description	Line feature representing the political boundary of the City
Date(s) Modified	April 2001

<b>Theme Name</b>	<b>Alex_y</b>
Description	Polygon feature representing the political boundary of the City
Date(s) Modified	April 2001

<b>Theme Name</b>	<b>Alexol_y</b>
Description	Polygon feature representing an outline of Alexandria's political boundary
Date(s) Modified	April 2001

<b>Theme Name</b>	<b>Arlng_y</b>
Description	Polygon feature representing a clipped portion of the southern edge of Arlington County.
Date(s) Modified	April 2001

<b>Theme Name</b>	<b>Bglong</b>
Description	1990 census block groups with 100+ fields of associated demographic data.
Date(s) Modified	March 2000

<b>Theme Name</b>	<b>Bgshort</b>
Description	1990 census blocks with 12 fields of associated demographic data (plain English field names)
Date(s) Modified	March 2000

<b>Theme Name</b>	<b>Bike_lc</b>
Description	Line feature representing the centerline of all bike trails through the City (including on and off street trails, existing and future)
Date(s) Modified	March 2000

<b>Theme Name</b>	<b>Bld_y</b>
Description	Polygon feature representing the building footprints throughout the City. Buildings captured had to be 100 square feet in area or greater.
Date(s) Modified	March 2000

<b>Theme Name</b>	<b>Blkgrp00</b>
Description	2000 census block groups with 100+ fields of associated demographic data.
Date(s) Modified	March 2000

<b>Theme Name</b>	<b>Blks00</b>
Description	2000 census blocks with 12 fields of associated demographic data (plain English field names)
Date(s) Modified	March 2000

<b>Theme Name</b>	<b>Cnduit_l</b>
Description	Linear feature representing all conduits throughout the City
Date(s) Modified	August 2001

<b>Theme Name</b>	<b>Frfax_y</b>
Description	Polygon feature representing a clipped portion of the eastern edge of Fairfax County.
Date(s) Modified	April 2001

<b>Theme Name</b>	<b>House_y</b>
Description	Polygon feature representing the updated Virginia House of Delegate Districts, based on Census 2000 data
Date(s) Modified	October 2001

<b>Theme Name</b>	<b>Lake_y</b>
Description	Polygon feature representing large bodies of water throughout the City
Date(s) Modified	August 2001

<b>Theme Name</b>	<b>Metro_l</b>
Description	Linear feature representing all Metro lines running through the City
Date(s) Modified	July 2001

<b>Theme Name</b>	<b>Metro_p</b>
Description	Point feature representing all Metro stops in the City
Date(s) Modified	July 2001

<b>Theme Name</b>	<b>Ortho_x</b>
Description	Index feature representing the 1998 and 2000 orthophotography tile layout
Date(s) Modified	June 2001

<b>Theme Name</b>	<b>Parcel_y</b>
Description	Polygon feature every tax parcel within the City. There are approximately 23,000 tax parcels.
Date(s) Modified	March 2002

**Attribute Field Definitions:**

PID	Parcel Identification Number, consists of Map sheet #, Block # and Lot #
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Sheetno	Tax map sheet number
Blockno	Block within the tax map sheet
Parcelno	Individual lot number
Plat_no	Subdivision plat ID number
Date_	Date of last modification
Method	Method used to digitize parcel
Perimeter	Length of perimeter of parcel (ft.)
Area	GIS calculated area (sq. ft.)
Databank	Real Estate Assessment ID number
St_num	Street number
St_alpha	Street unit
St_name	Street name
St_type	Street type
St_dir	Street direction
Land_sf	Recorded area of parcel
Land_use	Land use code *
Zoning	Zoning classification
Land2002	Land assessment for 2002
Imp2002	Improvement assessment for 2002
Tot2002	Total assessment for 2002
Land2001	Land assessment for 2001
Imp2001	Improvement assessment for 2001
Tot2001	Total assessment for 2001
Own_name	Owner name
Own_add	Owner address
Own_city	Owner city, state
Own_zip	Owner zip code
Sale_dat	Most recent sale date

Sale_amt	Most recent sale price
Deedbook	Deedbook number
Deedpage	Deedbook page
Deedyear	Deedbook year
Cen_trct	Census tract
Cen_blk	Census block
Legal	Legal description
Address	Full address of the parcel

<b>Theme Name</b>	<b>Parcel_x</b>
Description	Index feature representing the parcel map index
Date(s) Modified	June 2001

<b>Theme Name</b>	<b>Parks_y</b>
Description	Polygon feature representing all City owned parks throughout the City.
Date(s) Modified	August 2001

<b>Theme Name</b>	<b>Polling_y</b>
Description	Point feature representing all Polling Places throughout the City
Date(s) Modified	August 2001

**Attribute Field Definitions:**

Num	Precinct Identification Number, created by Voter Registration
Precinct	Name of Polling Place, created by Voter Registration.

<b>Theme Name</b>	<b>Precnt_y</b>
Description	Polygon feature representing all Voting Precincts throughout the City. Precincts are based on Census 2000 data.
Date(s) Modified	October 2001



**Attribute Field Definitions:**

Num	Precinct Identification Number, created by Voter Registration
Precinct	Precinct Name, created by Voter Registration.

Theme Name	Rail_I
Description	Linear feature representing all railroad lines running through the City.
Date(s) Modified	July 2001

Theme Name	Road_Ic
Description	Linear feature representing all road centerlines throughout the City. It is also used to auto-label street names and geocode addresses.
Date(s) Modified	November 2001

**Attribute Field Definitions:**

Stpfx	Street prefix: I.E. S stands for South, etc.
Stname	Street name: I.E. Glebe
Sttype	Street type: I.E. RD, AV, etc.
L_F_add	Left side of street, beginning address used in address range
L_T_add	Left side of street, ending address used in address range
R_F_add	Right side of street, beginning address used in address range
R_T_add	Right side of street, ending address used in address range
Fullname	Used to label roads; contains the street prefix, street name and street type in one field

Theme Name	Road_Le
Description	Linear feature representing all curbs, curb cuts, alleys, alley cuts and bridges
Date(s) Modified	November 2001

**Attribute Field Definitions:**

Ownership	Lists either public or private ownership
F_Code	Lists a feature code number for each line segment **

<b>Theme Name</b>	<b>School_p</b>
Description	Point feature representing all schools throughout the City.
Date(s) Modified	October 2001

<b>Theme Name</b>	<b>Senate_y</b>
Description	Polygon feature representing the updated Virginia Senate Districts, based on Census 2000 data.
Date(s) Modified	June 2001

<b>Theme Name</b>	<b>Shore_I</b>
Description	Linear feature representing the shoreline along the eastern portion of the City
Date(s) Modified	August 2001

<b>Theme Name</b>	<b>Sid00cat</b>
Description	An image catalog of all 2000 MrSID orthophotos. *Note* This database can only be seen using ArcView or ArcInfo. ArcExplorer users must add each orthophoto seperately.
Date(s) Modified	June 2001

<b>Theme Name</b>	<b>Stream_I</b>
Description	Linear feature representing all small streams throughout the City. Small streams are shown as a single line based on the center of the stream.
Date(s) Modified	August 2001

<b>Theme Name</b>	<b>Stream_y</b>
Description	Polygon feature representing any stream where both sides are visible.
Date(s) Modified	August 2001

<b>Theme Name</b>	<b>Tract00</b>
Description	Polygon feature representing the 2000 Census tracts
Date(s) Modified	September 2001

<b>Theme Name</b>	<b>Trtlong</b>
Description	Polygon feature representing the 1990 Census tracts including approximately 100 data fields.
Date(s) Modified	September 2001

<b>Theme Name</b>	<b>Trtshort</b>
Description	Polygon feature representing the 1990 Census tracts limited to 12 data fields
Date(s) Modified	September 2001

<b>Theme Name</b>	<b>Zoning_y</b>
Description	Polygon feature representing all zoning throughout the City
Date(s) Modified	November 2001

**Attribute Field Information:**

Zoning_cla	Zoning classification code ***
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\* Land Use Codes

Land Use Code	Description
100	Detached Residential
110	Semi-detached Residential
120	Row House Residential
130	Garden Condominium Residential
140	High-Rise Condominium Residential
145	Cooperative Residential
150	Townhouse Condominium Residential
160	Office Condominium
165	Retail Condominium
310	Garden Apartment (1-3 Stories)
320	Mid-Rise Apartment (4-6 Stories)
330	High-Rise Apartment (7+ Stories)
400	General Commercial
445	Auto Dealership
450	Repair Service/Garage
451	Service Station
460	Waste-To-Energy Plant
471	Hotel and Motel
472	Extended Stay Hotels
474	Restaurant
481	Financial Institution
486	Warehouse
487	Office Building (10,000+ sf)
488	Shopping Center
489	Jr. Office Building (<10,000 sf)
492	Nursing Home
493	Funeral Home
495	Hospital (for profit)
600	Operating Railroad (assessed by VDT)
602	Interstate Pipeline Transmission (VDT)
610	Electric Light and Power (SCC)
612	Gas and Pipe Line (SCC)
614	Telecommunication Company (SCC)
616	Water Company (SCC)
700	Federal (except WMATA)
710	State - General
712	State Educational Institution
714	State Educational - Faculty & Staff Housing
716	State Sports Authority
720	Regional - General
722	Regional - Park and/or Playground

730	City Government Building
731	City Park and/or Playground
732	City Recreation Center Cultural Center
733	City Library
734	City - Vacant Land
735	City - Parking
736	City - Leased to Others
737	City - Leased from Others
738	City - Other
739	Non-profit Board or Commission
740	Educational - Public School
741	Educational - Vacant Land
742	Alexandria Sanitation Authority
743	Alexandria Redevelopment & Housing Authority
744	Public Cemetery
750	Washington Metropolitan Area Transportation Authority
760	Church or Religious Organization
762	Residence of Religious Organization
764	Religious Association
770	Charitable Organization
772	Benevolent Organization
774	Historical Organization
776	Patriotic Organization
780	Private Educational Institution
782	School Faculty Staff Housing
790	Hospital (non-profit)
792	Private Cemetery (non-profit)
801	Condominium Parking Space
802	Condominium Master Card
910	Vacant Land - Residential
911	Vacant Land - Residential Sub-Parcel
930	Vacant Land - Multi-Family Rental
940	Vacant Land - Industrial
941	Vacant Land - Commercial
942	Vacant Land - Sub-Parcel of Parent Property
950	Voided Parcel for Subdivision/Consolidation
980	Common Area

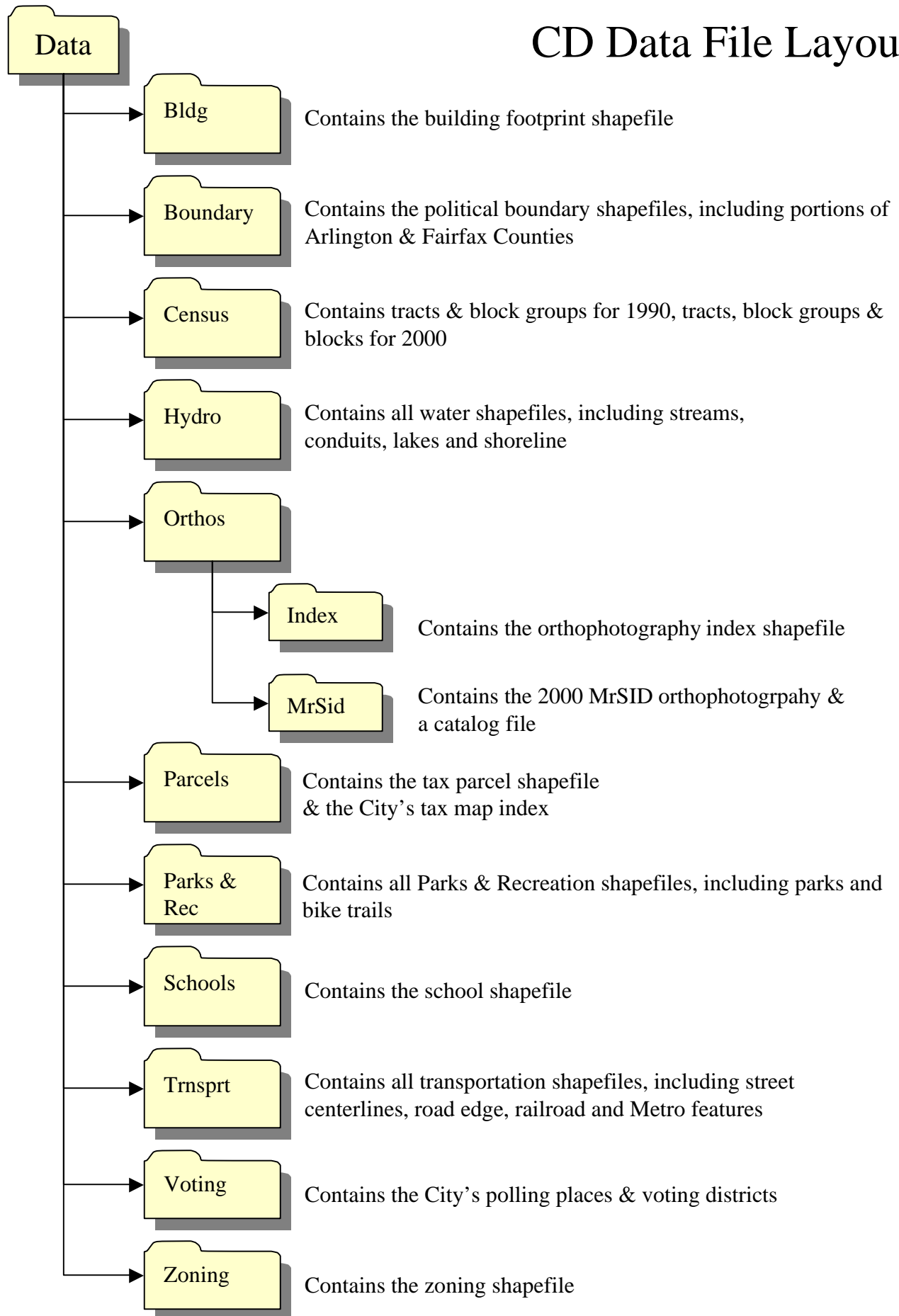
\*\* Road Edge Code Definition

F_Code	Description
10	Curb
11	Curb Cut
20	Alley
21	Alley Cut
30	Bridge
99	Closure Arcs

\*\*\* Zoning Classification Descriptions

Zoning_cla	Description
CC	Commercial community zone
CD	Commercial downtown zone
CDD#1	Coordinated development district #1
CDD#2	Coordinated development district #2
CDD#3	Coordinated development district #3
CDD#4	Coordinated development district #4
CDD#5	Coordinated development district #5
CDD#6	Coordinated development district #6
CDD#7	Coordinated development district #7
CDD#8	Coordinated development district #8
CDD#9	Coordinated development district #9
CDD#10	Coordinated development district #10
CDX	Commercial downtown zone, Old Town North
CG	Commercial general zone
CL	Commercial low zone
CO	Commercial office planned development
CR	Commercial regional
CRMU/H	Commercial residential mixed use (high) zone
CRMU/L	Commercial residential mixed use (low) zone
CRMU/M	Commercial residential mixed use (medium) zone
CRMU/X	Commercial residential mixed use (Old Town North) zone
CSL	Commercial service low zone
I	Industrial
OC	Office commercial zone
OCM(100)	Office commercial medium (100) zone
OCM(50)	Office commercial medium (50) zone
POS	Public open space
R 12	Residential single family zone, 12,000 square foot lot
R 2-5	Residential single or two family zone, 5,000 square foot lot
R 20	Residential single family zone, 20,000 square foot lot
R 5	Residential single family zone, 5,000 square foot lot
R 8	Residential single family zone, 8,000 square foot lot
RA	Residential multi-family zone
RB	Residential townhouse zone
RC	Residential high density apartment zone
RCX	Residential medium density apartment zone
RD	Residential high density apartment zone
RM	Residential townhouse zone
RT	Residential townhouse zone
UT	Utility and transportation zone
W-1	Waterfront mixed use zone
WPR	Waterfront park and recreation zone

# CD Data File Layout



# Orthophotography Index

