

Appendix D

Framework Classification Code: Field definitions and Valid Entries

(April 30, 2008)
(MGF Version 8)

Please Note: If you have any questions about the framework data you have received, please contact Laura Blastic at the Michigan Center for Geographic Information.
Phone: 517-373-7910, email: blasticl@michigan.gov

The Framework Classification Code (FCC) is a 3-character field in the framework coverage. The initial value in the FCC field is derived from data that is already associated with the feature. As additional editing takes place, the FCC value will be updated based on the definitions described in this document. New features added to framework will be given the appropriate FCC value based on these same definitions. New Classification Codes may also be created as needed.

A00 – Future road under construction

A1* – Limited access Interstates and non-Interstates (aka Freeways) such as I 75, I 94, US 27, M 39

Valid Codes:

A11 – Limited access Interstate

A12 – Limited access non-Interstate

A13 – Ramp to or from a limited access highway

A14 – Feature associated with rest areas, weigh stations and MDOT garages that are accessible only from A11 or A12 roads

A15 – Collector/Distributor. Specialized ramp like feature that distributes traffic within complex interchanges. Must connect at both ends with a main line (A11 or A12). Must intersect at least 2 ramps. IE: I 94 and I 69 interchange in Calhoun County near Marshall.

A16 – Restricted use turnaround in a limited access highway. Normally a feature crossing the median.

A2* – US Highways & State Highways such as M 52, US 12. (Not limited access)

Valid Codes:

A21 – Unlimited access US Highways & State Highways

A22 – Unsigned State Trunkline Highways

A23 – Ramp to or from an unlimited access highway

A24 – Feature associated with non-limited access rest areas and roadside parks

A25 – State owned surface streets that act as service drives to limited access Freeways (A11 or A12)

A26 – State trunkline boulevard turnaround (Non-limited access)

A29 – Unlimited access end of the ramp between the barrels of the boulevard.

A3* – These roads are classified based on **National Functional Classification (NFC)**. NFC is an attribute of the Framework coverage. The Michigan Department of Transportation assigned each NFC value. NFC is a planning tool which federal, state and local transportation agencies have used since the late 1960's. The Federal Highway Administration (FHWA) developed this system of classifying all streets, roads and highways according to their function. The FHWA publication, "Highway Functional Classification: Concepts, Criteria and Procedures", provides the basis for much of the following information.

Principal arterials are at the top of the NFC hierarchical system. Principal arterials generally carry long distance, through-travel movements. They also provide access to important traffic generators, such as major airports or regional shopping centers.

Minor arterials are similar in function to principal arterials, except they carry trips of shorter distance and to lesser traffic generators.

Collectors tend to provide more access to property than do arterials. Collectors also funnel traffic from residential or rural areas to arterials.

Valid Codes:

A31 - Principal Arterial roads (FUNCLASS other than 9 or 19)

A32 - Minor Arterial roads (FUNCLASS = 9 or 19)

A33 - Residential court or cul-de-sac

A36 - Directional turnarounds

A4* - Non-Certified Roads – These are roads that have PR numbers.

Valid Codes:

A41 - General non-certified – The majority of non-certified roads fall into this category

A42 - Turnarounds – Feature that crosses a median. Normally used to facilitate a left-hand turn

A43 - Non-certified residential court or cul-de-sac

A44 - University owned roads

A45 – Forest roads within federal jurisdiction

A46 – Institutional roads within state jurisdiction

A47 – Roads to an airport

A48 – Roads to an airport

A6* - Roads with special characteristics, these roads may or may not have been updated in the current framework version.

Valid Codes:

A61 – Unnamed, non PR (Physical Road Number) roads within Cemeteries.

A62 – Unnamed, non PR internal drives around malls, commercial sites, retail sites, industrial sites, office sites, schools, colleges, and universities.

A63 – Unnamed, non PR driveways. A driveway is defined as a road that serves only one residence.

A64 – Internal roads of Federal, State and Local parks and campgrounds. These roads may have names and PRs

A65 – Unnamed, non PR roads in residential areas. IE: apartment complexes, mobile home communities, and new developments.

A66 – Unnamed, non PR two-track roads or vehicular trails.

A67 – Boating Access Site (BAS)

A68 – Indian Reservation Roads (IRR)

A69 – All other features that were originally classified as a road feature in TIGER or MIRIS but do not match any of the criteria used to classify framework roads. More research is needed to better classify these roads.

A7* - Non-vehicular transportation features: These features may or may not have been updated in the current framework version.

Valid Codes:

A71 - General Trails or Paths, these features may have multiple uses. IE: Biking, Hiking, Cross County Skiing, Horse, or Snowmobile

A72 - Rail-to-trail, these features may have names and PRs

A73 - Pedestrian overpasses, these features may have names and PRs

A74 – Ferry Routes

A75 – Transportation Structure, usually used to retain a structure identifier.

A9* - Artificial road feature: These roads are not seen on a Digital Ortho Quad, but are needed to retain important attribute information.

Valid Codes:

A90 - Certified road right-of-ways. These roads are owned by a local jurisdiction (Act 51 certified), but are not drivable.

A91 - Road whose existence is strongly questioned, but have not been confirmed as not existing by a local jurisdiction.

A92 – Artificial roads that serve as control section break.

A93 – Artificial roads that serve as pseudo PR break.

RAILROADS - These features may or may not have been updated in the current framework version.

Valid Codes:

B00 – Active/Inactive status unknown. Railroad features in framework are identified based on their original MIRIS/TIGER classification. It is the goal of the framework to enhance this information using the active/inactive criteria described below.

B01 – Former rail feature flagged for deletion.

B02 – Former rail feature confirmed as inactive. May be a candidate for deletion. Additional research necessary.

B1* - Active rail features.

Valid Codes:

B11 – Main

B12 – Spur

B13 – Yard

B14 – Tunnel

B2* - Inactive rail features

Valid Codes:

B20 – Inactive Rail

B21 – Rails still in place.

B22 – Rails removed.

B3* - Double track rail features

Valid Codes:

B32 - Active parallel mainline track where no pr is required.

B33 - Wye's or crossovers on active mainline tracks that may be added to future framework versions.

PIPE LINE & POWER TRANSMISSION LINE - These features may or may not have been updated in the current framework version.

Valid Codes:

C00 – Miscellaneous ground transportation. These features originally classified by TIGER.

C10 – Enclosed pipe above ground, or in special conditions, below ground when marked by a cleared right-of-way and signage. These features originally classified by TIGER.

C20 – High voltage electrical line, on towers, situated on cleared right-of-way. These features originally classified by TIGER.

C30 – Above ground conveyor.

LANDMARK

GREAT LAKES STRUCTURES - These features may or may not have been updated in the current framework version.

Valid Codes:

D11 – River mouth breakwater

D12 – Harbor breakwater

MARINA STRUCTURES - These features may or may not have been updated in the current framework version.

Valid Codes:

D21 – Head or Main pier

D22 – Finger pier or slip

PLAZA STRUCTURES - These features may or may not have been updated in the current framework version.

Valid Codes:

D31 – Plaza structure over limited access trunkline.

AIRPORT - These features may or may not have been updated in the current framework version.

Valid Codes:

D51 – Airport or airfield originally classified by TIGER.

D52 – Public use airport classified by MDOT Bureau of Aeronautics. This classification will take precedence over the TIGER classification (D51) where applicable.

HYDROGRAPHY - These features may or may not have been updated in the current framework version. The MIRIS LEVEL attribute value was given precedence over the TIGER classification and was used to classify hydrographic features where possible.

H1* - Great Lakes shoreline

Valid Codes:

H11 – Great Lakes shoreline from MIRIS level 12.

H12 – Great Lakes shoreline river mouth. Any query to extract lake and river polygon shoreline features must include **H12** features.

H13 – Great Lakes connector (waterway under bridges along the GL shoreline).

H14 – Harbor / Marina - Inlet

H15 – Harbor / Marina – Mouth

H2* - Lake, Pond and Island shoreline.

Valid Codes:

H21 – Lake and Pond shoreline from MIRIS level 6.

H22 – Sewage Disposal Pond as described on United State Geological Survey (USGS) Topographic Quadrangle maps.

H23 – Islands in inland lakes or ponds.

H24 – Intermittent lake or pond shoreline.

H25 – Tailings Ponds

H26 – Culvert between bodies of water

H3* - River/stream including islands in rivers.

Valid Codes:

H31 - Rivers and streams from MIRIS level 7.

H32 – Two-banked streams

H33 – Islands in rivers and streams.

H34 – Islands that are both a river and land boundary

H35 – Wisconsin bank of two-bank streams to close river polygons (i.e. – Menominee & Montreal Rivers)

H4* - Drains and intermittent streams.

Valid Codes:

H41 – Drains and intermittent streams from MIRIS level 8, undetermined ownership.

H42 – County Owned Drains – open

H43 – County Owned Drains – closed

H44 - Intercounty Drains – open

H45 - Intercounty Drains – closed

H46 - Two-Bank Drain - open

H47 - Two-Bank Drain - closed

H5* - Other Hydrologic Features.

Valid Codes:

H51 - Dam structures spanning a stream or river. If available, dam name will be in FENAME2. FENAME must be blank. Any query to extract lake and river polygon shoreline features must include **H51** features.

H52 - Lock

H53 - Levee

H6* - Swamps added as part of National Hydrographic Dataset (NHD).

Valid Codes:

H61 – Swamp polygons visible on digital ortho photos.

H9* - Artificial Water Boundaries

Valid Codes:

H90 – Artificial Hydrographic polygon closure. Feature exists to delineate water boundaries within a hydrological system. (I.e. arcs used to separate a river from a connected lake. FENAME must be blank.) Any query to extract lake and river polygon shoreline features must include **H90** features.

H91 – Hydrographic connector. Used to represent stream flow where no feature is visible on DOQQ. Flow confirmed by referencing DRG.

H92 – Artificial Flow path. A feature within a hydro polygon that represents stream flow through the polygon. Follows most direct path between inlet and outlet.

H93 – Artificial Hydrographic polygon closure along state lines (IN, OH, WI).

H94 – Artificial Hydrographic polygon closure on islands

NONVISIBLE BOUNDARIES - These features came from TIGER or were added by MCGI to delineate a boundary where no physical feature exists. These classifications have been assigned in a hierarchical fashion in order of importance. Even though a non-visible feature is associated with a certain type of polygon boundary, it may also represent additional types of polygon boundaries. To create polygons from the Framework, you must still use the appropriate fields for the theme you want to create. For example, to select the features that make up the City/Township boundaries, you would use the query; `fmcdl <> fmcdl`

F1* - Jurisdictional boundaries

Valid Codes:

F11 – Feature exists to delineate State boundary. Will also delineate other polygonal boundaries.

F12 - Feature exists to delineate County boundary. Will also delineate other polygonal boundaries.

F13 - Feature exists to delineate Minor Civil Division (MCD) (City/Township) boundary. Will also delineate other polygonal boundaries.

F14 - Feature exists to delineate Village boundary. Will also delineate other polygonal boundaries.

F15 - Feature exists to delineate Census Designated Place (CDP) boundary. May also delineate other polygonal boundaries.

F2* - School district boundaries

Valid Codes:

F21 - Feature exists to delineate School District boundary. May also delineate other polygonal boundaries.

F3* - Political boundaries

Valid Codes:

F31 - Feature exists to delineate United States Congressional boundary. May also delineate other polygonal boundaries.

F32 - Feature exists to delineate State Senate boundary. May also delineate other polygonal boundaries.

F33 - Feature exists to delineate State House boundary. May also delineate other polygonal boundaries.

F34 - Feature exists to delineate Voter Precinct boundary. May also delineate other polygonal boundaries.

F4* - Census boundaries

Valid Codes:

F41 - Feature exists to delineate Census Tract boundary. May also delineate other polygonal boundaries.

F42 - Feature exists to delineate Census Block Group boundary. May also delineate other polygonal boundaries.

F44 - Feature exists to delineate Federal Aid Urban Boundary. May also delineate other polygonal boundaries.

F5* - Historical Boundaries

Valid Codes:

F51 – Old City / Village boundary involved in an Act 425 Annexations. The City / Village boundary will be revert back to this location when the Act 425 expires.

F52 - Old City / Village Boundary where an annexation has occurred. These features will be deleted in the next MGF version.

F53 – Proposed City / Village Boundary which are pending resolution

F9* - Other

Valid Codes:

F91 - Zipcode Boundaries

F92 – Unincorporated Place features. These features have been added to represent the location of an unincorporated place that does not fall on an existing MGF feature. This feature does not represent a physical feature.

F99 – Non-visible boundary that does not represent a polygon feature listed above. This feature needs to be reviewed and either reclassified or deleted.

UNCLASSIFIED

Valid Codes:

Z00 – Feature is unable to be classified at this time.

Z01 – Originally classified as a road. More research is needed.

Z02 – MIRIS originally classified this as a road, TIGER classified it as a non-visible. More research is needed.

X00 – Feature has been researched during repositioning process and is still unknown.

X10 – Feature marked for deletion. This is a feature that a Framework partner has determined should be deleted. The feature must be retained until the partner's edits have been integrated into the master copy. After reintegration, the feature will be deleted.