SURFICIAL GEOLOGY OF THE MONTEZUMA 7.5-MINUTE QUADRANGLE,
CAYUGA, SENeca AND WAYNE COUNTIES, NEW YORK

DESCRIPTION OF MAP UNITS

Holocene
- Artificial Fill (Af)
  Surficial sediment composed of coarse/fine and or crushed rock anthropogenically transported and used for construction purposes.
- Stratified silt, sand and gravel (Ha)
  Sorted and stratified silt, sand, and gravel, deposited by rivers and streams. May include cobbles and boulders. Inferred as post-glacial alluvium and includes modern channel, over-bank and fan deposits.
- Wetland Deposit (He)
  Peat, muck, mifi, silt, clay or sand deposited in association with wetland environments. Various sediments can be present at transitional boundaries from one facies to another.

Pleistocene
- Stratified silt, sand gravel (Ps)
  Well sorted and stratified sand and gravel, deposited by rivers and streams. May include cobbles. Inferred as deposits associated with glacial meltwater flow.
- Silt and Clay (Plsc)
  Stratified, fine-grained sediment consisting of fine sand, silt and clay size particles. Inferred to be deposited in mid shore to deepwater settings of glacial lakes. May include marl, siltites, and siltclays.
- Cobbles to Sand (Pics)
  Stratified ice-contacted deposits, variable coarse-grained sediment consisting of boulders to sand size particles. Inferred to be deposited along an ice-margin. May include, interbedded coarse lenses of gravel and clay supported diamicta (flow tills).
- Diamicton (Pdmm)
  An admixture of unsorted sediment ranging from clay to boulders. Generally matrix supported, massive and clay-rich.

Pre-Pleistocene
- Bedrock (Br)
  Non-glacially derived, hard rock, pre-pleistocene in age. May be covered up to a meter in diamicton, sand and gravel, or sand and clay in areas marked as Br.

CROSS-SECTION A-A'

SYMBOLS

- Highway
- Railroads
- Tunnels
- County Line

QUADRANGLE LOCATION

ADJOINING QUADRANGLES

QUADRANGLE ELEVATION

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New York State DOT Raster Quadrangle separate and hydrography (https://www.census.gov/cgi-bin/geo/shapefiles/index.php)
Shaded relief from 2018 Cayuga County 1m, (http://gis.ny.gov/elevation/index.cfm)
Magnetic decl