

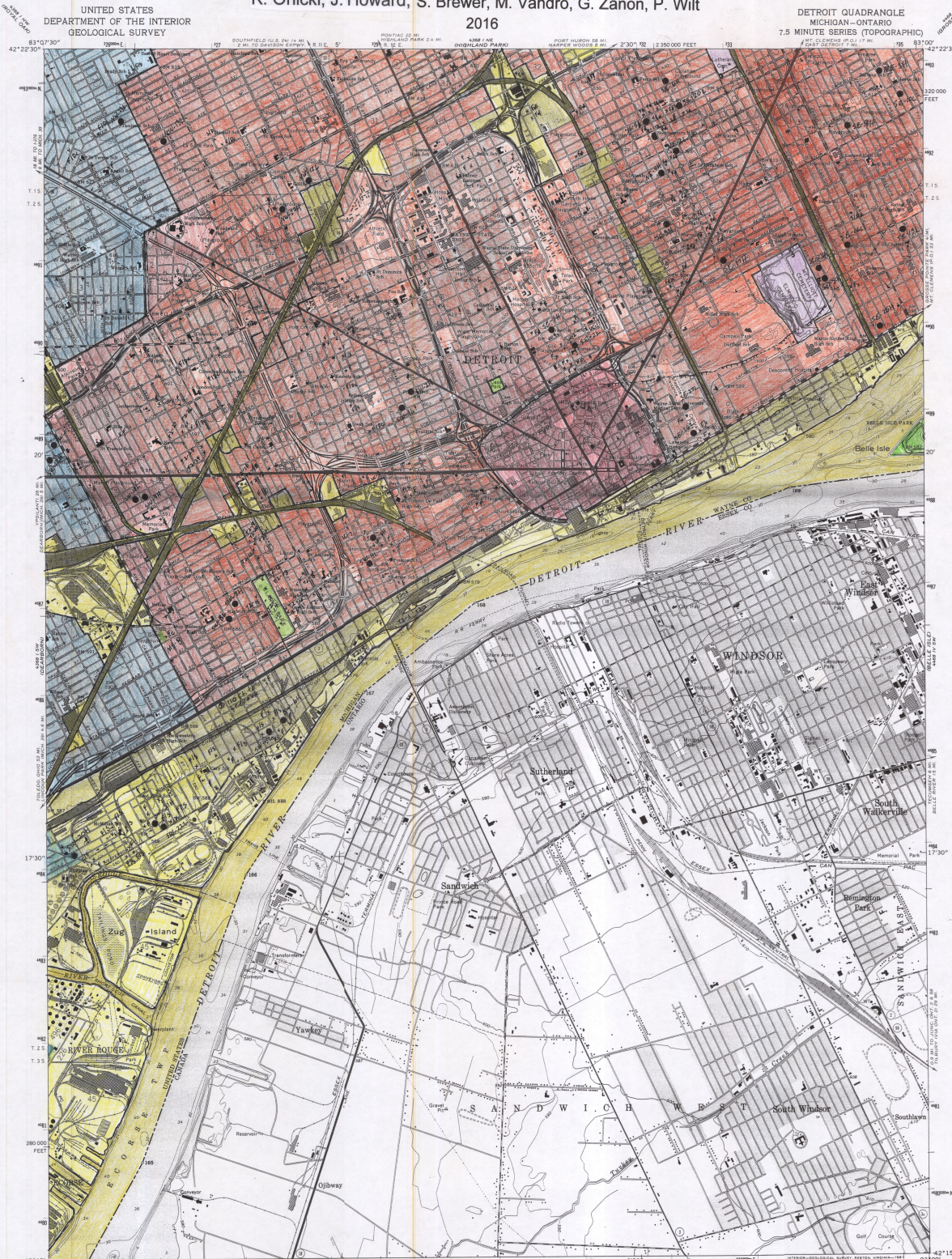
SURFICIAL GEOLOGY OF THE DETROIT, MICHIGAN QUADRANGLE

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2016

DETROIT QUADRANGLE
MICHIGAN-ONTARIO
7.5 MINUTE SERIES (TOPOGRAPHIC)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



EXPLANATION

ANTHROPOCENE

QaP - Park Land

In situ glacial sediments and native soil parent materials with rare artifacts and minimal human disturbance.

QaR2 - Residential Land Zone 2

In situ glacial sediments and earth materials mixed by human activity during building construction or demolition. 20th century artifacts common.

QaR1 - Residential Land Zone 1

Earth materials mixed during multiple demolition cycles. 19th century artifacts common.

QaM - Manufactured Land

Land covered and sealed by concrete, asphaltic pavement, etc.

QaI - Industrial Land

Earth materials mixed by human activity related to manufacturing and power-generation industries, airports, marinas, railroads and dredging. Coal-related and iron smelting artifacts common.

QaC - Cemeteries

Earth materials mixed during human burial activities.

HOLOCENE

Qha - Recent Alluvium

Stratified sediments of active stream channels and floodplains. Highly variable texture. May contain appreciable organic matter.

LATE PLEISTOCENE

Qpr - River Rouge Till

Unstratified, calcareous, clayey diamiction. Locally bouldery. Stratified and faceted clasts common.

Lacustrine Paleoshoreline

Hatched where geomorphically well defined. Dashed where approximate.

X

Shallow hand-sugar boring.

●

Surface soil sample site.

Mapped, edited, and published by the Geological Survey in cooperation with State of Michigan agencies. Control by USGS, USACGS, U.S. Lake Survey, and City of Detroit. Topography by photogrammetric methods from aerial photographs. Topography by planimetric surveys 1938. Revised from aerial photographs taken 1965-67. Field checked 1968. Canadian portion copied in part from Windsor quadrangle (1:25,000) 1960, Army Survey Establishment, R. C. E.

Selected hydrographic data compiled from U.S. Lake Survey Charts 41 and 412 (1966). This information is not intended for navigational purposes.

Polyconic projection. 1927 North American datum. 10,000-foot grid based on Michigan coordinate system, south zone. 1000-meter Universal Transverse Mercator grid ticks, zone 17, shown in blue.

Red tick indicates areas in which only landmark buildings are shown.

UTM GRID AND LONG MAGNETIC NORTH SOLUTION AT CENTER OF SHEET. To place on the predicted North American Datum 1983 move the projection lines 7 meters west as shown by dashed corner ticks.

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Revisions shown in purple compiled from aerial photographs taken 1973 and 1978. Map edited 1980. This information not field checked. Canadian portion not revised.

CONTOUR INTERVAL 5 FEET IN THE UNITED STATES AND 10 FEET IN CANADA. NATIONAL GEODETIC VERTICAL DATUM OF 1929. DEPTH CURVES AND SOUNDINGS IN FEET-DATUM IS RIVER SURFACE AT FOLLOWING STAGES: LAKE ST. CLAIR-571.7 AND LAKE ERIE-568.6.

ROAD CLASSIFICATION
Primary highway, all weather. Light-duty road, all weather, hard surface. Improved surface.
Secondary highway, all weather. Unimproved road, fair or dry hard surface.
weather.
Interstate Route U.S. Route State Route

QUADRANGLE LOCATION
DETROIT, MICH.-ONT.
N4215-W8300/7.5
PHOTOREVISED 1973 AND 1980
DMA 4381 1:50,000-SERIES 1982

978007924552