

Subject: B23068.00 Cutler ES: Underground Stream
Date: Tuesday, September 3, 2024 at 1:16:11 PM Eastern Daylight Time
From: Caritano.Alicia
To: Tracy, Eric, Caufield, Jennifer, PMA Cutler Team Email (hwcutler@pmaconsultants.com)
CC: Roberts.Douglas, Morgan.Peter, Stone.Brian, Stephen Powers, Michelle Kayserman
Attachments: image001.jpg, MA_Salem_351271_1985_25000_USGS 1985-USGS MAP CUTLER SCHOOL.pdf, Massmapper - Cutler School 2024.pdf

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Team,

As part of our SD due diligence, JCJ reached out again to Samiotes regarding the “underground stream” at the Cutler site.

Stephen Power’s response is noted below:

Samiotes has reviewed all available on-line resources (e.g. Town GIS, MassMapper, historical USGS maps), as well as any record drawings and we see no mention or evidence of any wetland hydrologic connection within or immediately adjacent to our site. Please note the following:

- *USGS Historical Map (1985). Shows the Cutler school and no hydrologic connection between the wetlands West of Asbury Street and East/North of Porter Lane. While USGS maps from this period typically only showed perennially streams (typically shown in blue), it clearly establishes the surrounding existing conditions during the 1980’s (see attached – red circle at top of page).*
- *MassMapper (2024). Available online GIS mapping/database offers significantly more and current environmental information, as historical maps. Again there is no hydrologic connection indicated between the previously referenced wetland resource areas. Additionally, detailed topographic information is provided on this map. Please note the wetlands West of Asbury Street begin at elevation 52+/-, while wetlands East/North of Porter Lane are also at elevation 52+/- . Conversely, lowest elevations on the Cutler ES site range between 62’-64’ (64’ along southern boundary). Due to the rise in elevation of 8’-10’ between wetlands, through the site, it is highly unlikely that any hydrologic connection was ever present. Note: that all on-site elevations are referenced to the North American Vertical Datum of 1988 (NAVD) and match the existing topographic elevations per the current field survey by our office (EX-1 dated 11/14/23), as previously submitted.*

Please let us know if you have any questions.

Thanks,
Alicia

1:25 000-scale *me*
topographic map

7.5 X 15 MINUTE QUADRANGLE

- Contours and elevations in meters
- Highways, roads and other manmade structures
- Water features
- Woodland areas
- Geographic names



Rendered by the United States District Court

Produced by the United States Geological Survey
in cooperation with Massachusetts Department
of Public Works
Control by USGS, NOS/NOAA, and Commonwealth of
Massachusetts agencies.

Compiled by photogrammetric methods from aerial photographs taken 1978. Field checked 1979. Map edited 1985. Supersedes Salton and Marblehead North 1:25,000-scale maps dated 1970.

Selected hydrographic data compiled from NOS charts 13273 and 13276 (1991). This information is not intended for navigational purposes.

Projection and 1000-meter grid: Universal Transverse Mercator, zone 19
 20,000-foot grid ticks based on Massachusetts coordinate

To place on the predicted North American Datum 1983
move the projection lines 5 meters south and
42 meters west as shown by dashed corner ticks

CONTOUR INTERVAL 3 METERS
NATIONAL GEODETIC VERTICAL DATUM OF 1929
CONTOR ELEVATIONS SHOWN TO THE NEAREST 0.1 METER
OTHER ELEVATIONS SHOWN TO THE NEAREST 0.5 METER
ELEVATION CURVES AND SOUNDINGS IN METERS
DATUM IS MEAN LOW WATER
THE RELATIONSHIP BETWEEN THE TWO DATUMS IS VARIABLE
SHORELINE SHOWN REPRESENTS THE APPROXIMATE LINE
OF MEAN HIGH WATER
THE MEAN RANGE OF TIDE IS APPROXIMATELY 2.3 METERS

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

CONVERSION TABLE

Meters	Feet
1	3.2808
2	6.5617
3	9.8425
4	13.1234
5	16.4042
6	19.6850
7	22.9659
8	26.2467
9	29.5276
10	32.8084

To convert meters to feet multiply by 3.2808
To convert feet to meters multiply by 0.3048

DECLINATION DIAGRAM

Diagram showing magnetic north (M) and true north (T) with a 10° difference. The distance between the lines is 104 MILES. The diagram is labeled 10° and 17°.

UTM grid converges (1000 and 1800 converge) at center of map
Distance is approximately

ASSIGNING NUMBERS

1	2
4	5
6	7

1 Lawrence
2 Spanish
3 Rockport
4 Reading
5 Gloucester
6 Boston
7 Lynn
8

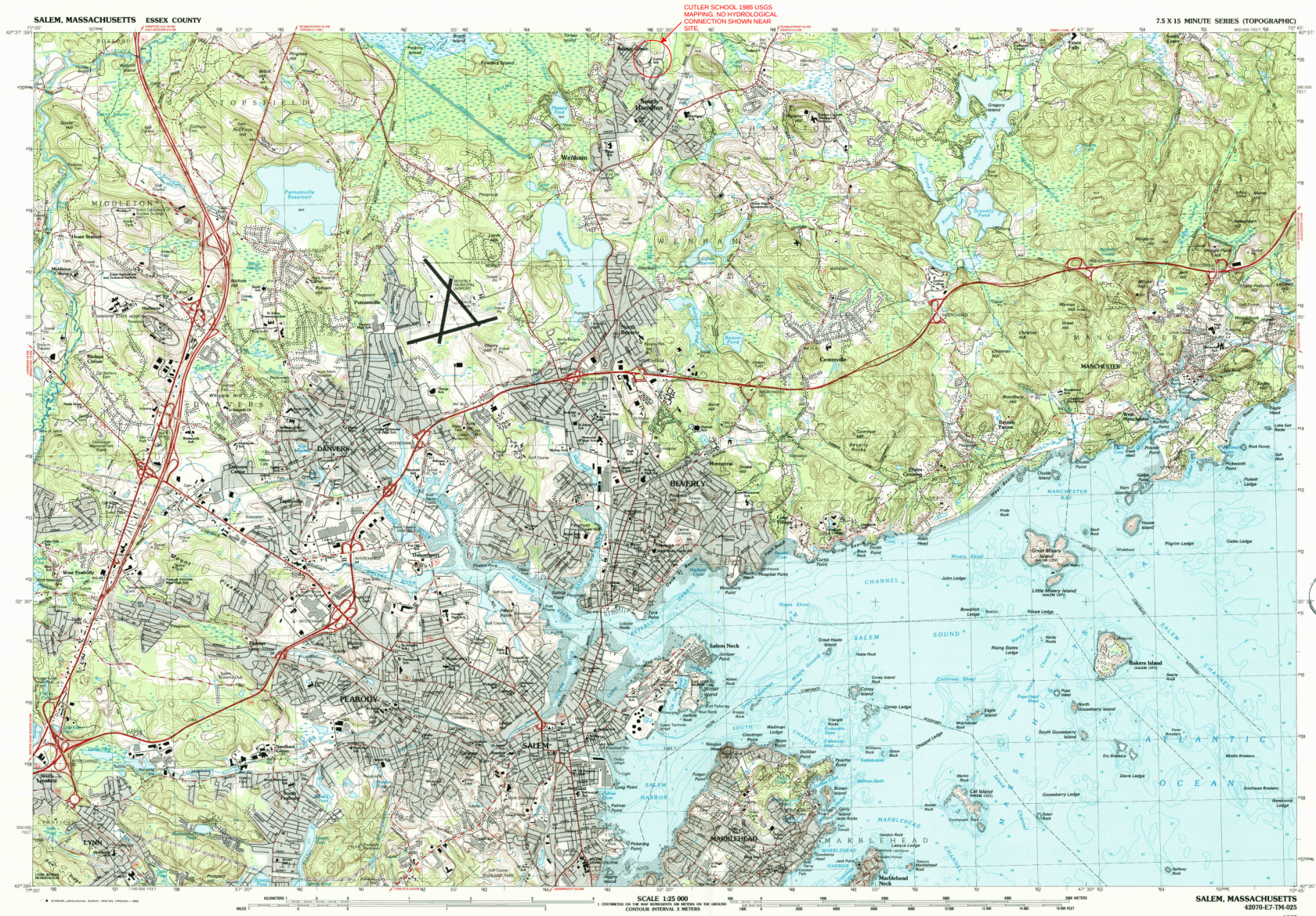
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RESTON, VIRGINIA 22092

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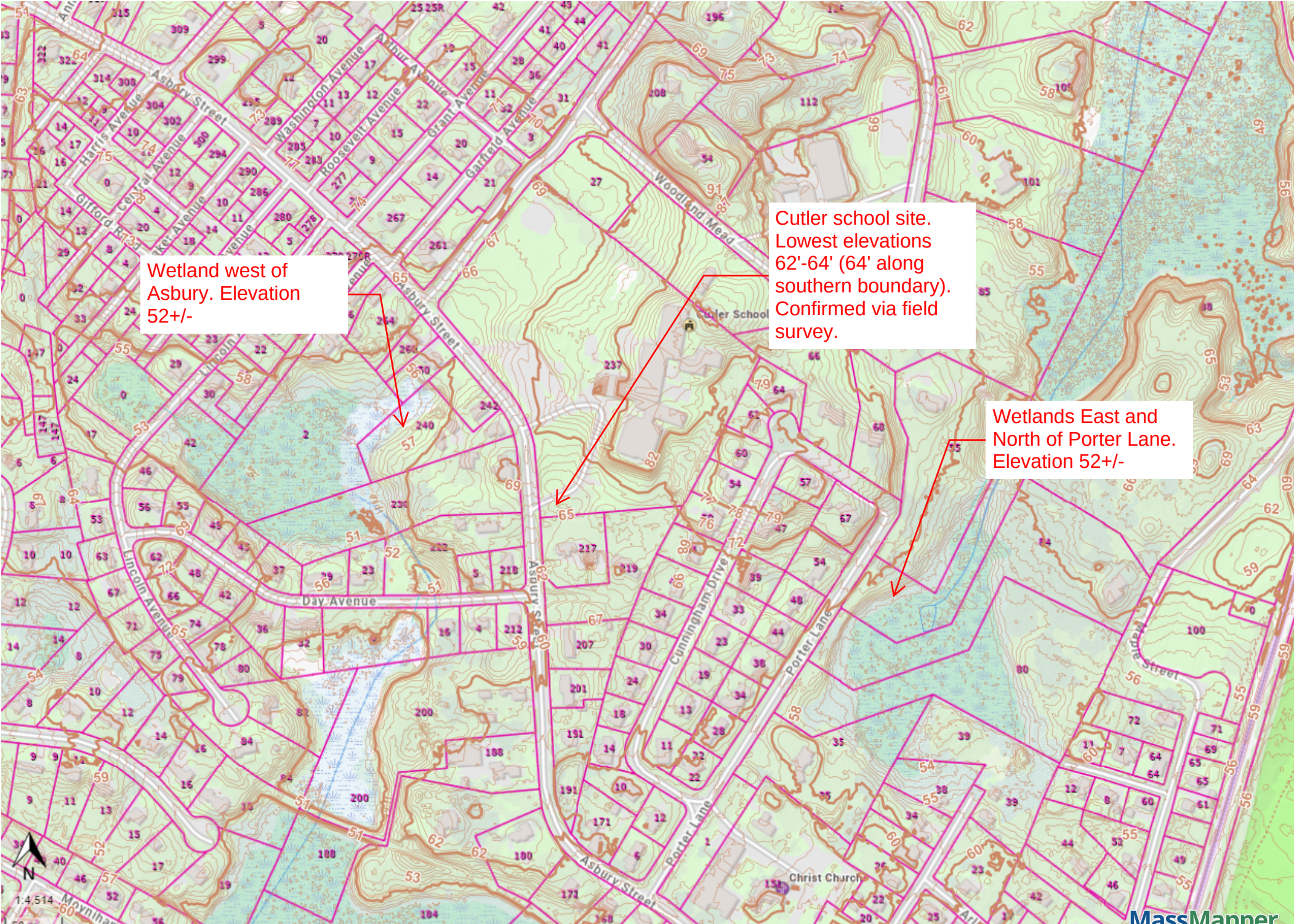
Topographic Map Symbols

- [illegible]

A pamphlet describing topographic maps is available on request



MassMapper - Cutler School



Wetland west of
Asbury. Elevation
52+/-

Cutler school site.
Lowest elevations
62'-64' (64' along
southern boundary).
Confirmed via field
survey.

Wetlands East and
North of Porter Lane.
Elevation 52+/-

Contours 1ft (Labels in Feet)

USGS Rivers and Streams 25k

- Stream
- INTERMITTENT STREAM
- SHORELINE
- INTERMITTENT SHORELINE
- MANMADE SHORELINE
- DITCH/CANAL
- AQUEDUCT
- DAM
- CHANNEL IN WATER

Major Streams

BioMap Local Wetlands

DEP Wetlands Hydrologic Connections

Property Tax Parcels