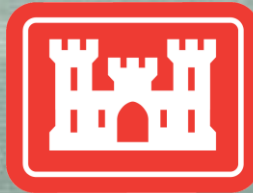


Spring Valley Formerly Used Defense Site Nebraska Avenue Parking Lot

Dan Noble, Project Manager
June 5, 2014



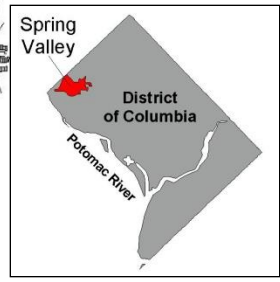
US Army Corps of Engineers
BUILDING STRONG



Spring Valley Formerly Used Defense Site

Then and Now

FUDS Boundary



- #2 – McKinley Memorial Bldg. on AU campus
- #6 – Massachusetts Ave.
- #8 – American University Experiment Station Boundary
- #9 – Camp Leach (Troop Barracks and Support Bldgs.)



Spring Valley Project Actions

- Investigations/removal actions ongoing for more than 20 years
- Partners: U.S. Army Corps of Engineers, EPA, DC Department of the Environment
- Actions complete:
 - ▶ **Arsenic removal complete.** Completed site-wide arsenic investigations at all 1,600 properties with removal at 177 properties.
 - ▶ **Significant anomalies identified to date removed .** Completed site-wide subsurface anomaly investigations (involving 99 properties, including American University).
 - ▶ **All identified munitions removal complete.** Completed site-wide munitions/debris investigations with removal complete from 4 burial pits and multiple debris fields.
 - ▶ **Installed 53 groundwater monitoring wells and sampled 25 surface water locations.** Sampling is on-going. Plan to install two more wells this summer.



Background

Nebraska Avenue Parking Lot

- Area of Interest (AOI) 20 report is based on a 1922 aerial photograph that shows a series of linear ground scars
- AOI 20 is located outside the Formerly Used Defense Site boundary
- History Building was used for administrative purposes, offices, and temporary barracks during WWI (no chemical labs)



Background (cont.)

- The location of these ground scars does not match the location of the burial sites as described by AU in 1921 (“back limit of the university acres” and “far back on the university acres”)
- The land was owned by Charles Glover in 1918
- WWI land use records indicate this land was not used by the Army during WWI
- 1918 map shows a guard house on the northern most portion of this tract of land, but outside of the Glover property fence line



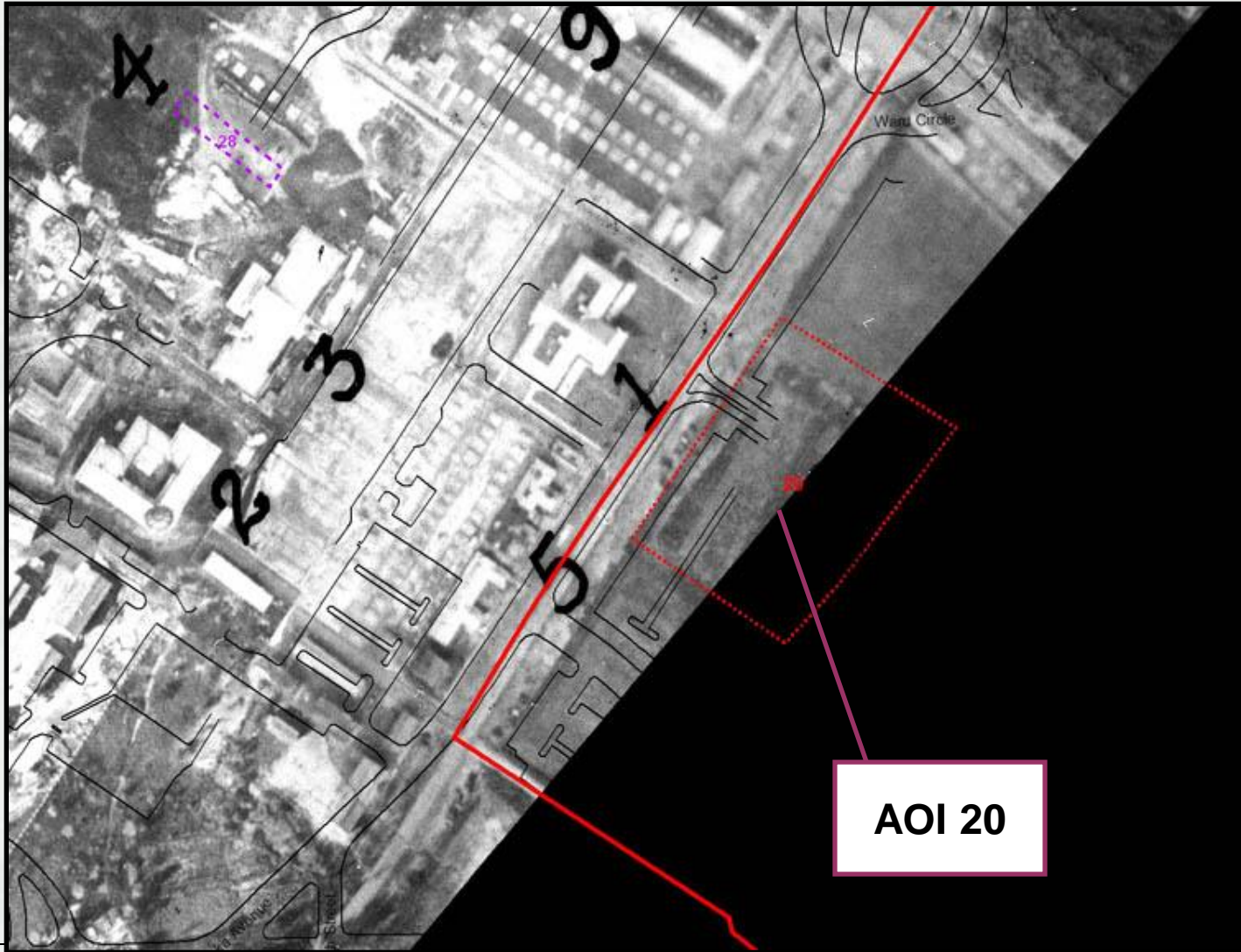
American University Courier

January & April 1921

- “The munitions were taken back to the limit of the University acres and there buried in a pit that was dug for them. Would that it were as deep as the cellar of Pluto and Prosperine. Requiescat in pace.”
- “As “this was to be the last war,” permission was given to go far back on the university acres, to dig a pit deeper than the one into which Joseph was cast, bury the munitions there and cover them up to wait until element shall melt with fervent heat, when the earth and works therein shall be burned up.”



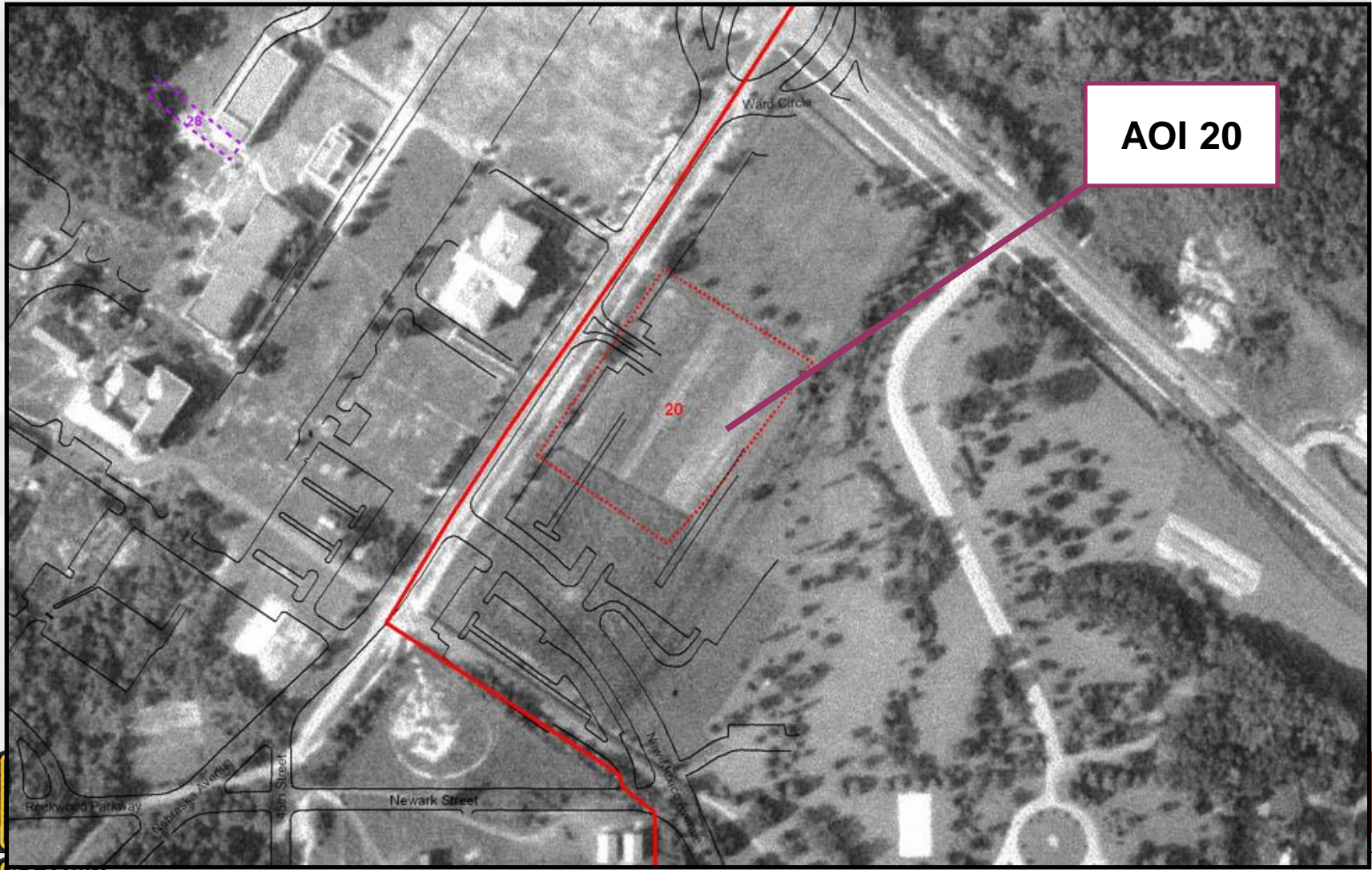
1918 Aerial & AOI 20

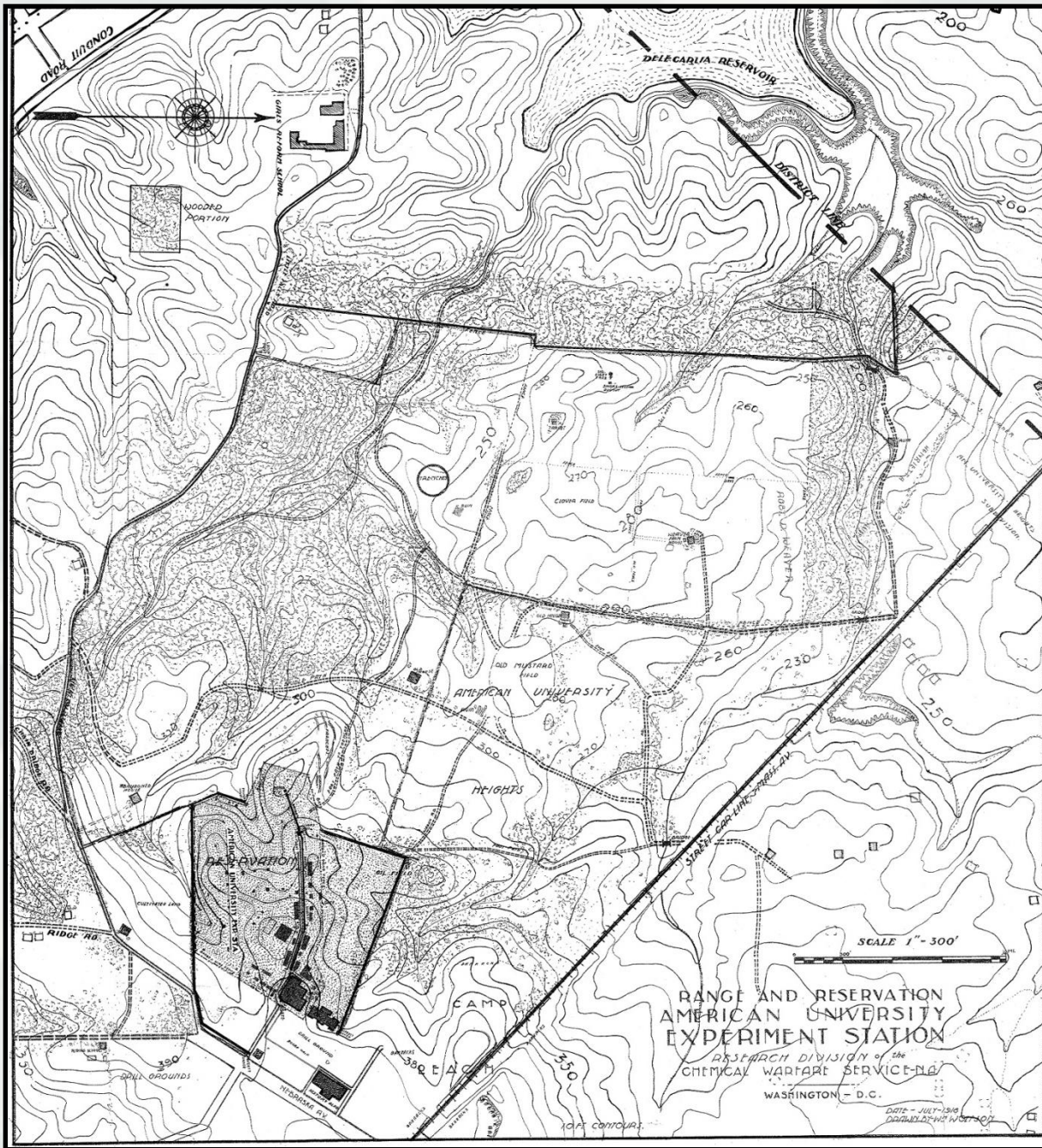


1922 Aerial & AOI 20



1927 Aerial & AOI 20



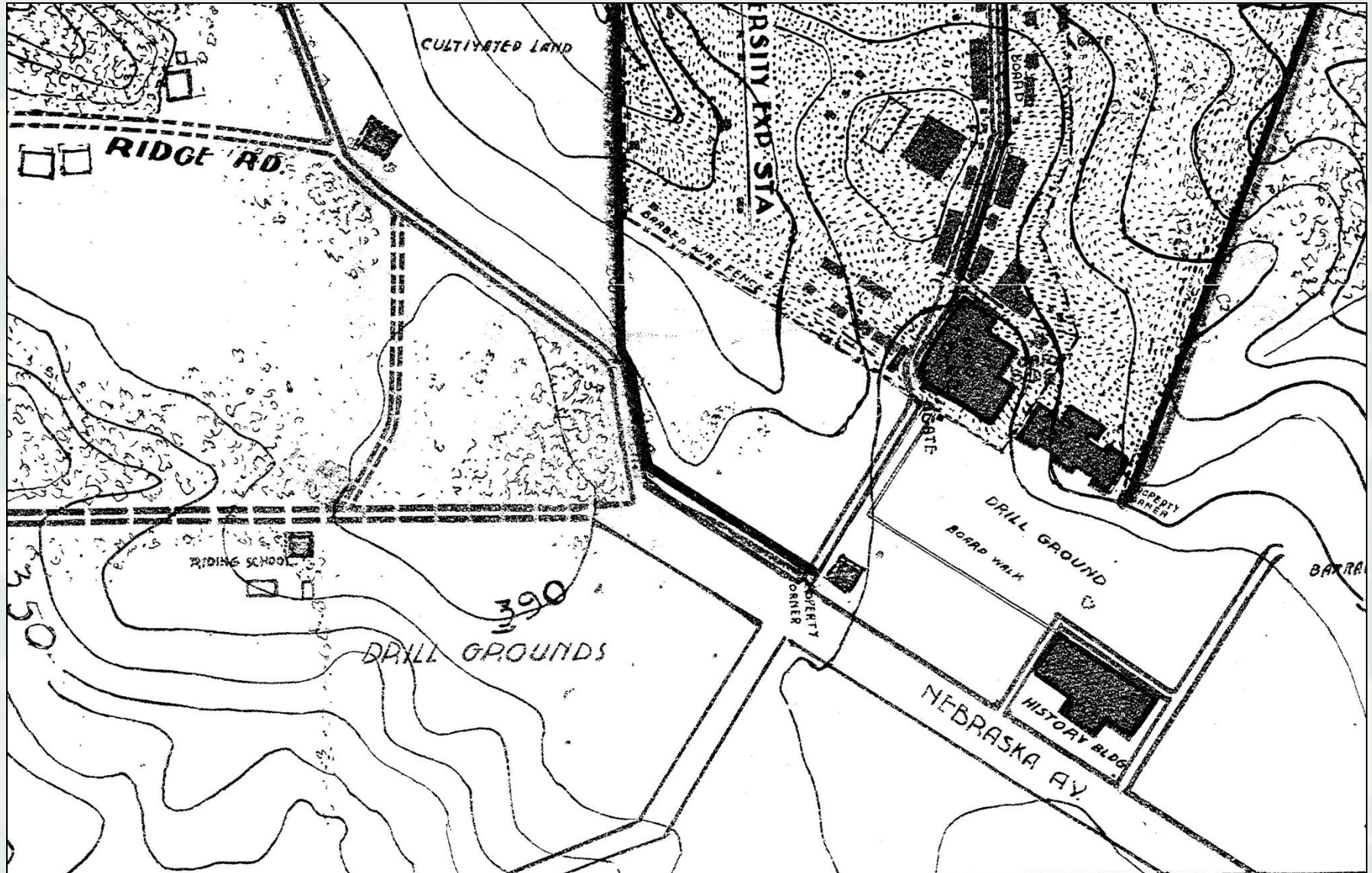


American University Experiment Station 1918



BUILDING STRONG®

American University Experiment Station Drill Grounds



HFB/jsw

(COPY) **EXPERIMENTAL DETACHMENT,**

40TH ENGINEERS,

CAMOUFLAGE.

Camp Leach, Washington, D.C.
Oct. 15, 1918.**BUILDING ON GLOVER'S PROPERTY,**

situated on

North Corner of Massachusetts and Nebraska Avenues, N.W.,
Washington, D.C.

HOUSE:

Elates Uos. 2 and 3 show ground plans of first and second floors, photos Nos. 1 and 2 show the elevations.

The exterior and interior of the building have been neglected for a number of years and are in a bad state of repair. Minor repairs on the porch have been made recently.

Some parts of the exterior wood surface have started to decay. The weathered wood shingles on the roof are loose and some are held in place by rusty nails.

The interior wood work and cracked plaster walls are painted with an inferior grade of paint, calcimine and white-wash, foundation posts, sills and joists have not been examined but are considered to be in bad condition owing to the unevenness of the floors. The house is not equipped with any electric light wiring, plumbing or sewerage.

BARNS And SHEDS: (Nos. 1 and 2)

Plates Nos. 1, 4, 5, and 6 show ground plans and photos Nos. 3, 4, 5 and 5 show the elevations.

The exterior wood surface is partly covered with white-wash and badly split and weathered.

The interior walls and partitions are built of a common grade of lumber.



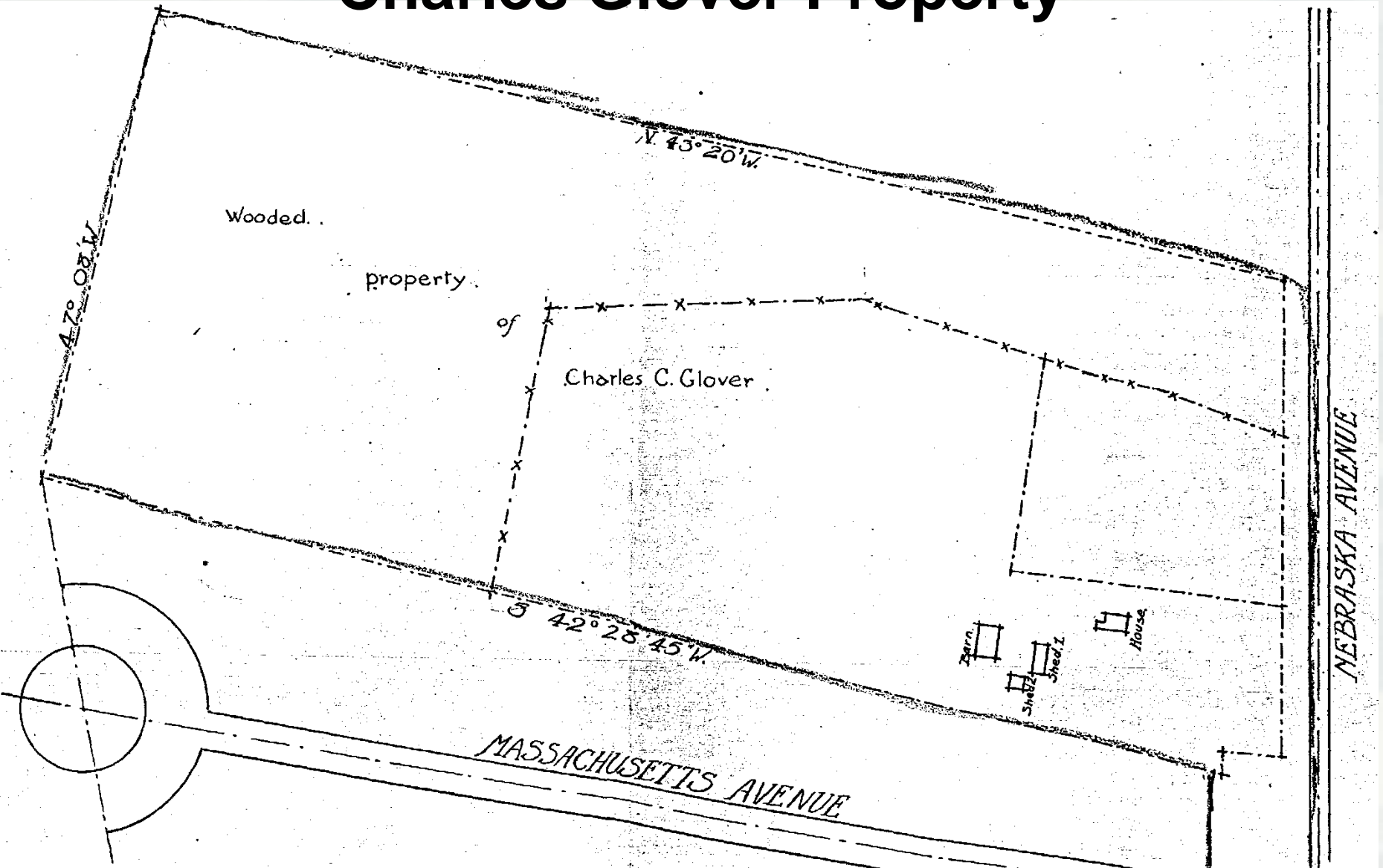
Randolph F. Beardsley
Captain of Engineers.
Commanding Organization.

Military memo discussing Charles Glover's property, October 1918



BUILDING STRONG®

American University Experiment Station Charles Glover Property



Map of Trenching in 2009



Trenching in 2009



Trenching in 2009



Conclusions

- AOI 20 is outside the FUDS boundary
- There is no historical evidence this parcel of land was ever used by AUES or Camp Leach
- 3 trenches (each approx 50 feet long) were dug through 6 of the land scars
- No AUES material observed, no soil staining
- Saprolite reached in 2 trenches, 3rd trench dug to 12 feet below ground surface
- All soil appeared to be native undisturbed soil



For more information

Visit our website

www.nab.usace.army.mil



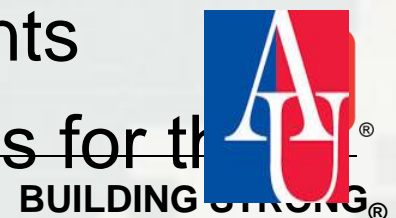
American University Activities at Nebraska Parking Lot (1)

- Activities triggered by USACE 2009 Investigation
 - ▶ Reviewed and commented on “Ground Disturbances” work plan
 - ▶ Reviewed interim reports and 2011 final report
 - ▶ Reviewed USEPA aerial photography (EPIC) study



▶ Reviewed available civilian documents

▶ Concurred with Partner's conclusions for the location



American University Activities at Nebraska Parking Lot (2)

- Geotechnical Investigation (2011)
 - ▶ Installed 42 borings across parking lot site on 75 foot grid up to 71 feet in depth
 - ▶ Soil boring logs show no evidence of AUES debris, chemical staining, or unusual odors
- Groundwater Investigation (2014)
 - ▶ Installed four monitoring wells on site under requirements of DC Department of Environment
 - ▶ Sampling and analysis by independent laboratory shows no chemical concentrations exceeding SVFUDS action levels.
 - ▶ No detectable perchlorate

