



3855 North Ocoee Street, Suite 200
Cleveland, TN 37312

SENT BY FEDERAL EXPRESS

July 19, 2012

Mr. Patrick Bowe
Director
Remediation Division
Bureau of Water Protection and Land Reuse
State of Connecticut Department of Energy and Environmental Protection
79 Elm Street
Hartford, CT 06106

Re: Property-Specific Remedial Action Report
Newhall Street Neighborhood
1067 Winchester Avenue, Block C
Hamden, Connecticut 06517

Dear Mr. Bowe:

Enclosed please find the Property-Specific Remedial Action Report (RAR) prepared for the property located at 1067 Winchester Avenue in Hamden, Connecticut. The Property-Specific RAR summarizes the remediation and restoration activities conducted at the property as required by Consent Order No. SRD-128. Remediation and restoration of this property are complete and were implemented in compliance with the Remedy Selection Plan, the Generic RAP, and signed Access and Restoration Agreement provided to the Connecticut Department of Energy and Environmental Protection (DEEP).

Section 2.0 of the enclosed report documents property-specific construction activities, as well as any adjustments to restoration plans that were required due to the extent of fill encountered or other field conditions. Please note that any field adjustments made were pursuant to the approved Generic RAP and/or with DEEP oversight and approval. Olin hereby submits this Property-Specific RAR for DEEP approval. As noted below and as required by the Remedy Selection Plan, a copy of the enclosed report has also been provided to the property owner.

Please contact me at (800) 295-6141 if you have any questions regarding this matter.

Sincerely,
OLIN CORPORATION

A handwritten signature in black ink, appearing to read "David M. Share".

David M. Share
Director, Environmental Remediation

cc: HEDC Attn: Dale Kroop – 2750 Dixwell Avenue, Hamden, CT 06518
Curt Richards – Olin
Carrie Hunt – Olin
Nelson Walter – AMEC
Ray Frigon – DEEP
Richard Pearce – Newhall Street Neighborhood Community Liaison
Robert Labulis – Town of Hamden Building Department

**PROPERTY-SPECIFIC REMEDIAL ACTION REPORT
1067 WINCHESTER AVENUE**

**NON PUBLIC PROPERTIES
NEWHALL STREET NEIGHBORHOOD
HAMDEN, CONNECTICUT**

Prepared for:



Olin Corporation
3855 North Ocoee Street, Suite 200
Cleveland, TN 37312

Prepared by:



AMEC Environment & Infrastructure, Inc.
1090 Elm Street, Suite 201
Rocky Hill, Connecticut 06067

July 19, 2012

AMEC Project Number: 6107120004.105

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Nelson Walter, P.E.
Project Manager

Handwritten signature of Rod Pendleton in black ink.

Rod Pendleton, P.G
Principal Scientist

DOCUMENT CERTIFICATION

I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, that the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that any false statement made in the submitted information is punishable as a criminal offense under §53a-157b of the Connecticut General Statutes and any other applicable law.

David M. Share, Director, Environmental Remediation



Chief Executive Officer (or duly authorized representative)
Olin Corporation

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Nelson Walter, Project Manager



AMEC Environment & Infrastructure, Inc.

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Table 2-1 Excavation Confirmation XRF Sampling Results

ATTACHMENTS

A Photographs

ACRONYMS AND ABBREVIATION

AMEC	AMEC Environment & Infrastructure, Inc.
bgs	below ground surface
DEEP	Connecticut Department of Energy and Environmental Protection
mg/kg	milligrams per kilogram
NPP	Non-Public Properties
Olin	Olin Corporation
RAP	Remedial Action Plan
RAR	Remedial Action Report
RSP	Remedy Selection Plan
XRF	X-ray fluorescence

1.0 INTRODUCTION

This Property-Specific Remedial Action Report (RAR) was prepared by AMEC Environment & Infrastructure, Inc. (AMEC) on behalf of Olin Corporation (Olin) for the property located at 1067 Winchester Avenue in Hamden, Connecticut. This Property-Specific RAR was prepared based on information obtained during remediation activities conducted at the property during the 2012 construction season. This document provides information about the remediation activities completed for the property, which are required by Consent Order SRD-128 entered into by Olin, the Town of Hamden, the Regional Water Authority, the State Board of Education, and the State of Connecticut Department of Energy and Environmental Protection (DEEP). The Consent Order requires Olin to excavate and remove fill material up to 4 feet below ground surface (bgs) from approximately 230 residential properties within the Consent Order boundary.

Section 1 of this report provides a summary of site history and a general description of the remedy process for the Newhall Street Neighborhood. Section 2 of this report describes the construction activities conducted at 1067 Winchester Avenue.

1.1 Regulatory Status

In April 2003, the DEEP issued a Consent Order to Olin, the Town of Hamden, South Central Connecticut Regional Water Authority, and the State Board of Education (DEEP, 2003). The Consent Order requires Olin to investigate and remediate the Non-Public Properties (NPP) within the Consent Order boundary of the Newhall Street Neighborhood.

1.2 Description of Remedy Process

In October 2007, a Final Remedy Selection Plan (RSP) was approved and issued by the Commissioner of the DEEP (DEEP, 2007). The remedy for the NPP within the Consent Order boundary is summarized below:

- Excavation of fill within the top 4 feet;
- Disposition of excavated material at authorized off-site facilities;
- Backfilling of excavated areas with clean soil; and
- Restoration of existing features including landscaping, patios, fencing, driveways, etc. that are disturbed during construction activities.

The Final Design - Generic Remedial Action Plan (RAP) (MACTEC, 2008), was approved by the DEEP and serves as the basis for remedial action activities within the NPP. The Final Design - Generic RAP details remedial construction activities including excavation of fill to a depth of up to four feet, backfilling excavations, disposition of fill and debris, and restoration of disturbed areas. Detailed plans and specifications regarding the remediation are contained in the Generic RAP and other project plans which have been approved by the DEEP. The Final Design - Generic

RAP and other plans are available at the Town of Hamden Miller Public Library located at 290 Dixwell Avenue, and on the DEEP website at: <http://www.newhallinfo.org>.

Prior to implementing the approved remedial solution, a Property-Specific RAP was prepared for each property owner and submitted to the DEEP for approval. The purpose of the Property-Specific RAP was to provide the homeowner with information regarding the planned construction activities, temporary relocation requirements (if necessary), access provisions, an estimated time table to complete the planned work, and a description of plans to restore the property to existing conditions. Because the Hamden Economic Development Corporation (HEDC) planned to demolish the existing house, a Property-Specific RAP was not re-issued following HEDC's purchase of the property. Instead, an Access and Restoration Agreement indicating that features such as landscaping, walkways, and driveways were not to be restored after excavation and backfill was prepared and signed by HEDC's representative.

2.0 PROPERTY-SPECIFIC CONSTRUCTION ACTIVITIES

During the 2012 construction season, Olin completed the excavation, backfill, and restoration of the property in accordance with the Final Design - Generic RAP and Access and Restoration Agreement. Figure 2-1 shows the areas where excavation occurred on the property and the locations of excavation confirmation samples. Excavation confirmation samples were collected in accordance with Section 3.2.3 - Confirmatory Sampling of the Final Design - Generic RAP, including adherence to the sampling frequency requirements. X-ray fluorescence (XRF) excavation confirmation sampling results are presented in Table 2-1.

As indicated in Table 2-1, some samples collected from the perimeter of the excavated area indicated total lead concentrations that exceeded 400 mg/kg. Additional soil could not be removed from these locations, because continued excavation could jeopardize the integrity of a structure or undermine a feature that was to be left in place.

The following is a description of field conditions observed during excavation activities and/or details regarding the marker barrier installed following excavation activities:

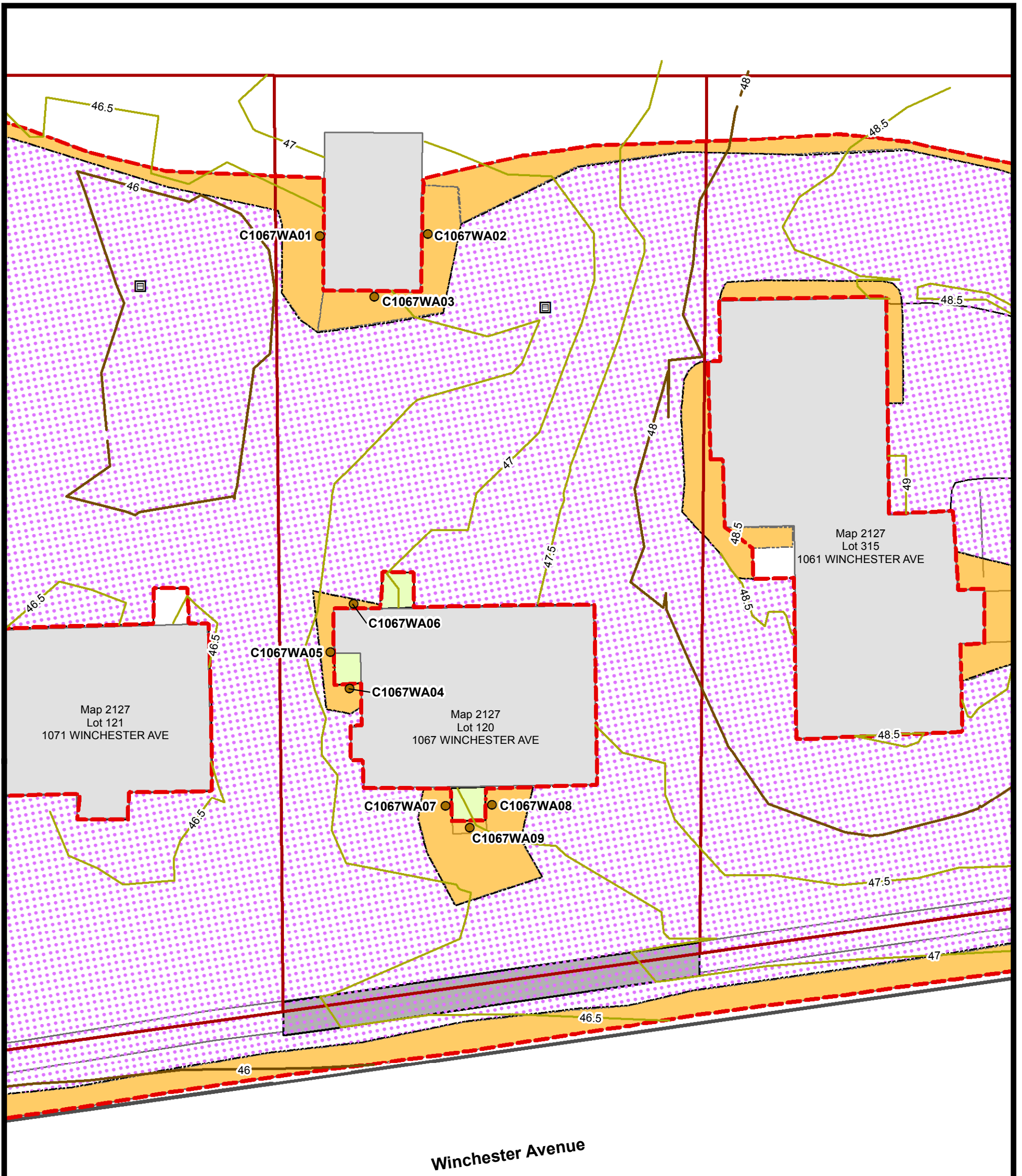
- Across the property, fill material was encountered at depths greater than 4 feet below ground surface (bgs). This fill material was left in place, covered by an orange geotextile fabric, and backfilled with clean soil in accordance with the Final Design - Generic RAP. Figure 2-1 shows the approximate area of geotextile fabric identifying the presence of fill at a depth greater than 4 feet bgs.
- In some locations, it was necessary to leave fill material in place at depths less than 4 feet bgs in order to avoid jeopardizing the integrity of a structure. This fill material was left in place, covered by an orange geotextile fabric and/or concrete, and backfilled with clean soil in accordance with the Final Design - Generic RAP. Figure 2-1 shows the approximate area of geotextile fabric/concrete identifying the presence of fill at a depth less than 4 feet bgs.
- Along the eastern boundary of the property, it was necessary to leave fill in place to prevent disturbing trees on the adjacent, non-participating property (131 Bryden Terrace). In this location, the top six inches of soil were removed, and the remaining fill material within the drip line was left in place. Orange geotextile fabric was placed around the perimeter of the remaining fill.
- To facilitate drainage of stormwater, a drywell was installed in the back yard of the property.
- Because the Hamden Economic Development Corporation purchased this property with the intent to demolish the existing house, features such as landscaping, walkways, and driveways were not restored after completing excavation and backfill. Consistent with the Access and Restoration Agreement for this property, restoration was limited to reinstallation of fences, sidewalks, and drainage features.

Photographs of construction activities and the restored property are presented in Attachment A.

3.0 REFERENCES

- DEEP, 2003. Order No. SRD-128, State Of Connecticut vs. Town Of Hamden, South Central Connecticut Regional Water Authority, State Board Of Education, and Olin Corporation. State of Connecticut Department of Environmental Protection, April 16, 2003.
- DEEP, 2007. Remedy Selection Plan, Newhall Street, Neighborhood Remediation Project. State of Connecticut Department of Environmental Protection, October 2007
- MACTEC, 2008. Final Design - Generic Remedial Action Plan, Non-Public Properties, Newhall Street Neighborhood, Hamden, Connecticut. MACTEC Engineering and Consulting, Inc., August 19, 2008.

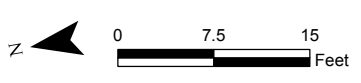
FIGURES



Winchester Avenue

Legend

- Approximate Extent of Marker Barrier
- Approximate Extent of Orange Marker Barrier
- Approximate Property Boundary
- Excavation Confirmation Sample
- Limits of Excavation
- Final Elevation Contour (2-ft interval)
- Final Elevation Contour (0.5-ft interval)
- New Concrete Sidewalk
- Stairs/Hatch
- New Drywell



Prepared/Date: BRP 06/13/12
Checked/Date: DRP 06/13/12



TABLES

**TABLE 2-1
EXCAVATION CONFIRMATION XRF SAMPLING RESULTS**

**1067 WINCHESTER AVENUE
NEWHALL STREET NEIGHBORHOOD
HAMDEN, CONNECTICUT**

Location ID	Location Type	Field Sample ID	Sample Date	Top Depth (ft,bgs)	Bottom Depth (ft,bgs)	Parameter	Result	Final Qualifier	Unit of Measure
C1067WA01EX	PES	C1067WA-SON0102EX	15-Mar-12	2	2	Lead	420		MG/KG
C1067WA02EX	PES	C1067WA-SON0203EX	19-Mar-12	3	3	Lead	1228		MG/KG
C1067WA03EX	PES	C1067WA-SON0303EX	19-Mar-12	3	3	Lead	2421		MG/KG
C1067WA04EX	PES	C1067WA-SON0403EX	20-Mar-12	3	3	Lead	50		MG/KG
C1067WA05EX	PES	C1067WA-SON0503EX	20-Mar-12	3	3	Lead	50		MG/KG
C1067WA06EX	PES	C1067WA-SON0603EX	20-Mar-12	3	3	Lead	50		MG/KG
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Notes: bgs - below ground surface

ft - feet

KG - kilograms

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PEB - sample from bottom of excavation

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U - not detected at a concentration above the reporting limit

XRF - x-ray fluorescence

ATTACHMENT A
PHOTOGRAPHS



View looking west at marker barrier at the base of excavation of back yard.



View looking east at partially backfilled front yard with marker barrier over remaining fill.



View looking northeast at new drywell and concrete being placed along excavated garage.



View looking east at backfilled front yard.



View looking northeast at backfilled back yard.



View looking west at backfilled back of 1067 Winchester Avenue.

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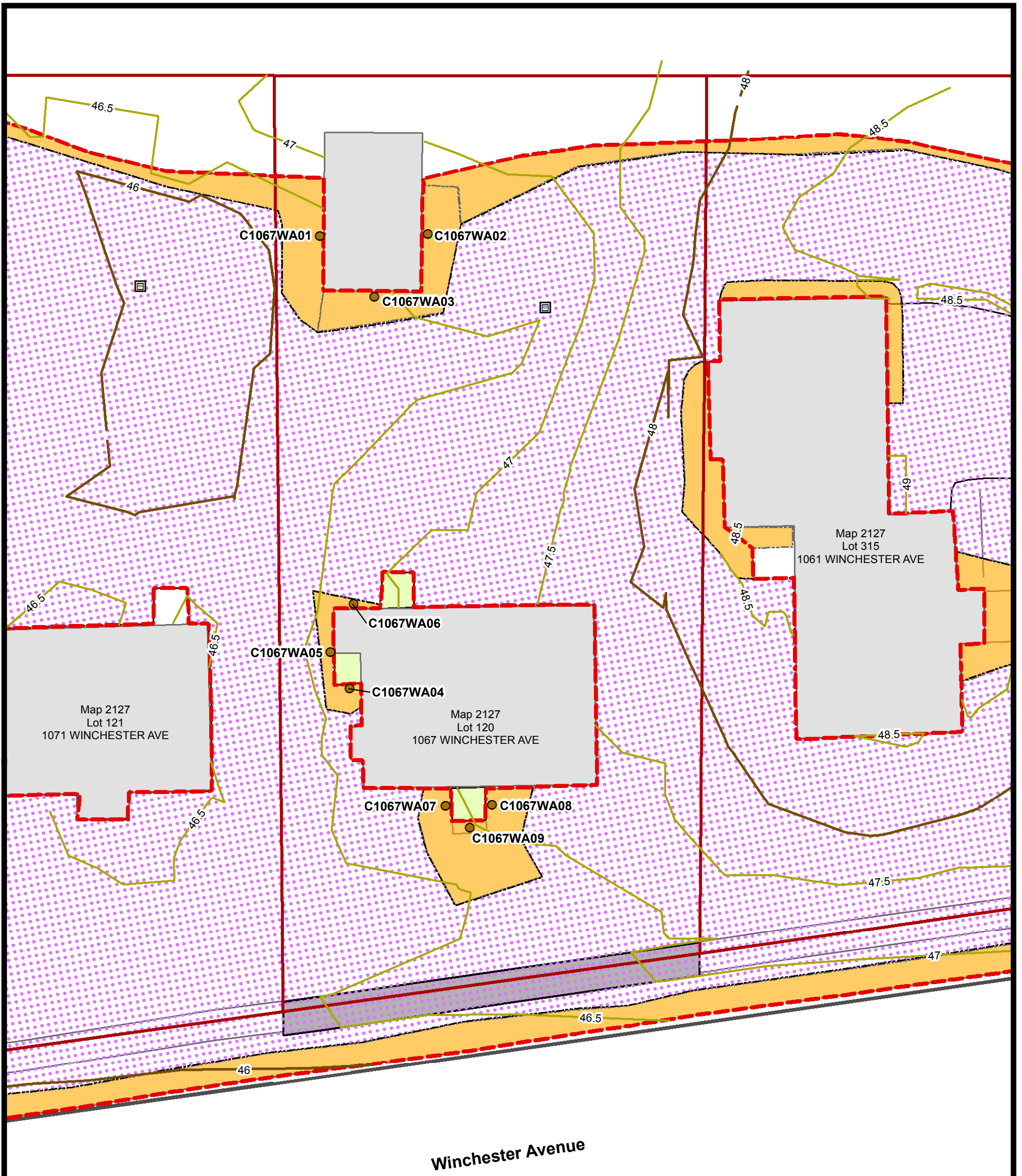
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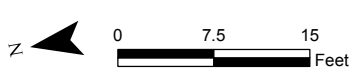
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Winchester Avenue

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- Approximate Extent of Marker Barrier
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