GE
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USA

*Transmitted via Overnight Courier*

May 4, 2006

Mr. William P. Lovely, Jr.
U.S. Environmental Protection Agency
EPA New England
One Congress Street, Suite 1100
Boston, Massachusetts 02114-2023

**Re: GE-Pittsfield/Housatonic River Site**
**Newell Street Area II (GECD450)**
**Proposal for Engineered Barrier Modifications**

Dear Mr. Lovely:

By this letter, the General Electric Company (GE) is proposing two slight modifications to the extent of the engineered barriers to be installed in portions of the Newell Street Area II Removal Action Area (RAA), as depicted in GE's March 2005 *Final Removal Design/Removal Action Work Plan for Newell Street Area II* (Final Work Plan). That Final Work Plan was approved by the U.S. Environmental Protection Agency (EPA) by letter dated May 12, 2005, and was subsequently amended (in respects not relevant to the extent of the barriers) by GE's May 25, 2005 *Final RD/RA Work Plan Addendum for Newell Street Area II* (Final Work Plan Addendum), which was approved by EPA on June 9, 2005. As described in those documents, the remediation actions at Newell Street Area II to address the presence of polychlorinated biphenyls (PCBs) and other constituents listed in Appendix IX of 40 CFR 264 (excluding pesticides and herbicides) plus benzidine, 2-chloroethyl vinyl ether, and 1,2-diphenylhydrazine (Appendix IX+3) in soil consist of soil removal/replacement and the construction of engineered barriers in various portions of the RAA. The majority of those remediation actions have been completed.

At this time, GE is proposing to slightly modify the limits of the engineered barrier that remains to be installed within two portions of this RAA: (1) a small portion of Parcel J9-23-8 adjacent to the western side of residential Parcel J9-23-9, which is outside the RAA; and (2) a narrow strip of land within Parcels J9-23-8 and J9-23-12 adjacent to the northern side of Parcel J9-23-9 and to the western side of residential Parcel J9-23-10 (also outside the RAA) and the adjoining part of Parcel J9-23-12 that is used by the owner of Parcel J9-23-10. These proposed modifications are based on review of previous response actions conducted by GE within and adjacent to these areas during the Off-Site Residential Properties Program supervised by the Massachusetts Department of Environmental Protection (MDEP), as well as on survey activities and constructability considerations. Each of these modifications is described below, along with an evaluation of the modified barrier limits in accordance with the applicable Performance Standards specified in the Consent Decree (CD) and associated *Statement of Work for Removal Actions Outside the River* (SOW).

**A. Portion of Parcel J9-23-8 Adjacent to and West of Parcel J9-23-9**

The area subject to this proposed modification consists of a small triangular area within Parcel J9-23-8 that is located between the paved access road in the southern portion of that parcel and the western side of adjacent residential Parcel J9-23-9. This area is shown in blue on Figure 1 and is referred to herein as the "area west of Parcel J9-23-9." This area was previously evaluated with Parcel J9-23-9 during the Off-Site Residential Properties Program (based on residential cleanup standards) and was subject to remediation and restoration activities under that program.

This area was also evaluated as part of Parcel J9-23-8 in GE's *Conceptual Removal Design/Removal Action Work Plan for Newell Street Area II* (Conceptual Work Plan), which was submitted to EPA in July 2004 and conditionally approved by EPA in a letter dated November 4, 2004. The Conceptual Work Plan presented the results of both PCB and non-PCB evaluations for Parcel J9-23-8. The results of those evaluations indicated that soil removal/replacement and engineered barrier installation activities were necessary to satisfy applicable recreational Performance Standards at this parcel. However, as shown on Figure 4-1 of the Conceptual Work Plan, neither soil removal/replacement nor installation of an engineered barrier was necessary in the area west of Parcel J9-23-9 to meet those Performance Standards. Figure 1 provided herein shows the limits of the engineered barrier previously specified on Figure 4-1 of the Conceptual Work Plan in the vicinity of Parcel J9-23-9.

In response to EPA's November 4, 2004 letter conditionally approving the Conceptual Work Plan, GE expanded the limits of the engineered barrier to cover a different triangular area north of Parcel J9-23-9 (in the vicinity of sample locations RAA13-F94 and NS-21). In addition, GE expanded the limits of the engineered barrier from the eastern side of the barrier proposed in the Conceptual Work Plan to the western boundary of Parcel J9-23-9 (including the area west of Parcel J9-23-9) based solely on constructability considerations. The revised barrier limits were shown on the technical drawings in the Final Work Plan.

The installation of the engineered barrier within the area west of Parcel J9-23-9 would impact the restoration previously conducted in that area as part of the response actions related to Parcel J9-23-9, including requiring the removal of several trees previously placed by GE during those restoration activities. In these circumstances, and given that this area was already evaluated and subject to response actions under the Off-Site Residential Properties Program, GE proposes to modify the limits of the engineered barrier to exclude the area west of Parcel J9-23-9 (i.e., the area depicted in blue on Figure 1). These modified barrier limits are shown on the revised technical drawings provided in Attachment A. As demonstrated in the Conceptual Work Plan, neither soil removal/replacement nor installation of an engineered barrier is necessary in the area west of Parcel J9-23-9 to meet the applicable Performance Standards. Accordingly, the proposed modifications to the engineered barrier limits in that area will still allow the remediation to satisfy those Performance Standards.

**B. Strip on Parcels J9-23-8 and J9-23-12 Adjacent to Parcels J9-23-9 and J9-23-10**

The second area in which GE proposes to modify the extent of the engineered barrier consists of a strip of land on Parcels J9-23-8 and J9-23-12 along the northern boundary of Parcel J9-23-9 and the western boundary of Parcel J9-23-10 (and the adjoining part of Parcel J9-23-12 used by the owner of Parcel J9-23-10). This proposal consists of two modifications.

The first relates to a portion of the engineered barrier that was proposed for the GE-Newell Street parking lot at Parcel J9-23-12 but slightly extends into an area used by the owners of adjacent residential Parcels J9-23-9 and J9-23-10 as part of their backyards. This area is shown in yellow on Figure 1 and is described further below.

In accordance with the CD and SOW (as well as a subsequent agreement between GE and EPA embodied in a letter from GE to EPA dated July 16, 2001), the required remediation of the GE-Newell Street parking lot consists of the installation of a 1-foot thick vegetative engineered barrier over the existing pavement/soil, except that such a barrier is not needed in discrete portions of this area where spatial average PCB concentrations satisfy the Performance Standards for recreational areas – 10 parts per million (ppm) in the top foot, 15 ppm in the 1- to 3-foot depth increment, and 100 ppm in the top 15 feet. In the Conceptual and Final Work Plans, GE proposed to install an engineered barrier over the entire GE-Newell Street parking lot area. However, GE subsequently determined, through survey activities, that fencing associated with adjacent Parcels J9-23-9 and J9-23-10 is actually located within that GE-owned property, such that the owners of those parcels use a small strip within the GE property as part of their backyards. In this situation, GE proposes not to install an engineered barrier over the portion of the GE property that is used by those owners as part of their backyards.

Instead, GE has evaluated the area between the property line (dividing Parcel J9-23-12 from Parcels J9-23-9 and J9-23-10) and the existing fence line, shown in yellow on Figure 1, to determine whether soil removal/replacement would be needed in that area to achieve the Performance Standards. As a conservative measure, even though this area is located within GE-owned Parcel J9-23-12, GE has evaluated this area in accordance with the PCB Performance Standards for residential areas due to the current land use of this area. PCB evaluations for this area were performed in accordance with the spatial averaging procedures specified in the SOW. The results of the evaluations are provided in Attachment B and are summarized in the following table.

| Depth Increment | Attachment B Table Reference | Existing Average PCB Concentration (ppm) | Residential Performance Standard (ppm) |
|---|---|---|---|
| 0-1' | B-1 | 10.04 | 2 |
| 1-X' | B-2 | 0.2 | 2 |

Note:
1. X = the depth at which PCBs were detected below ground surface. For this evaluation X has been determined to equal 15 feet.

As indicated in the preceding table, the existing average PCB concentration for the 0- to 1-foot depth increment exceeds the residential Performance Standard. In addition, PCBs were detected within the 0- to 1-foot depth increment above the residential non-to-exceed (NTE) concentration of 10 ppm at two locations: J9-23-9-SB-2 and RAA13-F96. As a result, GE has elected to perform soil removal/ replacement activities to a depth of 1 foot in select portions of the subject area to meet the residential Performance Standards. Proposed activities involve the removal of approximately 8 cubic yards of soil from the area specified on Figure 2, backfilling the excavation with topsoil, and restoring that area with seed and mulch.

The soil removal/replacement activities discussed above will result in the achievement of the residential PCB Performance Standards in the subject area, as indicated in the following table, thus obviating the need for installation of an engineered barrier in that area.

| Depth Increment | Attachment B Table Reference | Existing Average PCB Concentration (ppm) | Residential Performance Standard (ppm) |
|---|---|---|---|
| 0-1' | B-3 | 1.28 | 2 |
| 1-X' | B-2 | 0.2 | 2 |

The second proposed modification to the engineered barrier limits relates to an approximately 5-foot-wide strip within Parcels J9-23-8 and J9-23-12 adjacent to the existing fence line that separates those parcels from areas used by the owners of Parcels J9-23-9 and J9-23-10. That strip is shown in pink on Figure 1. (As discussed above, the owners of Parcels J9-23-9 and J9-23-10 use a small strip on the GE-owned Parcel J9-23-12 as part of their backyards. In addition, as shown on Figure 1, the owner of Parcel J9-23-10 uses a larger portion of Parcel J9-23-12, outside the GE-Newell Street parking lot area, for such purposes.)

GE has evaluated this strip of land to determine whether it can be excluded from the engineered barrier in order to facilitate construction of the barrier without disturbing the existing fencing or the areas used by the owners of Parcels J9-23-9 and J9-23-10. Since this "buffer strip" is located outside the fencing associated with Parcels J9-23-9 and J9-23-10 (i.e., outside the areas used by those parcel owners as part of their backyards) and is within Parcels J9-23-8 and J9-23-12 (both of which are considered recreational areas), it was evaluated in accordance with the PCB Performance Standards for recreational areas. The results of this evaluation are provided in Attachment B and are summarized in the following table.

| Depth Increment | Attachment B Table Reference | Existing Average PCB Concentration (ppm) | Recreational Performance Standard (ppm) |
|---|---|---|---|
| 0-1' | B-4 | 9.22 | 10 |
| 1-3' | B-5 | 3.39 | 15 |
| 0-15' | B-6 | 15.91 | 100 |

As indicated in the preceding table, the existing average PCB concentrations for each depth increment within this buffer strip are below the applicable Performance Standards for recreational areas. In addition, no PCB concentrations within the 0- to 1-foot depth increment exceed the NTE concentration of 50 ppm for recreational properties. As a result, there is no need for installation of an engineered barrier (or other remediation) within this 5-foot-wide buffer strip in order to meet the applicable Performance Standards.

Based on the above considerations, GE proposes to modify the limits of the engineered barrier in the above-described areas to exclude from the barrier the areas shown in yellow and pink on Figure 1. The modified barrier limits are presented on the revised technical drawings provided in Attachment A.

Given these proposed modifications, GE has also evaluated the data on non-PCB Appendix IX+3 constituents from locations within the areas subject to the proposed barrier modifications. Two samples collected from these areas were analyzed for non-PCB Appendix IX+3 constituents – one from the 0- to 0.12-foot depth increment at location NS-24 and one from the 0- to 1-foot depth increment at location RAA13-F96. The results from these samples are summarized in Table 1. These data have been evaluated in accordance with the usual procedure for evaluating non-PCB data, as set forth in the SOW and described in Section 3.3 of the Conceptual Work Plan. The initial screening step involved comparison of the maximum concentrations of all detected non-PCB constituents (except for dioxins/furans) with the EPA Region 9 Preliminary Remediation Goals (PRGs) (or PRGs for surrogate compounds) for residential areas. The results of this step are summarized in Table 2. In the next step, the maximum dioxin/furan

toxicity equivalency quotient (TEQ) concentration was compared with the applicable PRG for such TEQs, which is 1 part per billion under the SOW; and the average concentrations of the other retained constituents were compared to the MDEP's Wave 2 Method 1 S-1 soil standards. The results of this step are summarized in Table 3 and show that none of the retained constituents have concentrations exceeding those applicable comparison criteria. Accordingly, the proposed modifications to the engineered barrier limits will not cause any exceedances of the Performance Standards for non-PCB constituents.

## C. Summary

Based on the information provided above, GE proposes to modify the limits of the engineered barrier to be installed in portions of Newell Street Area II as shown on the revised technical drawings provided in Attachment A. As demonstrated herein, with these modifications, along with the proposed additional soil removal/replacement shown on Figure 2, the applicable Performance Standards for each of the subject areas will be achieved.

Please contact me if you have questions or comments concerning the activities described above.

Sincerely,

Richard W. Gates/ace

Richard W. Gates
Remediation Project Manager

Attachments
V:\GE_Pittsfield_CD_Newell_St_Area_II\Reports and Presentations\Barrier Mod\24762196Ltr.doc

cc: Dean Tagliaferro, EPA
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Michael Carroll, GE*
Andrew Silfer, GE
Rod McLaren, GE
James Nuss, BBL
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Public Information Repositories
GE Internal Repositories

(* without attachments)

# *Tables*

BLASLAND, BOUCK & LEE, INC.
*engineers, scientists, economists*

**TABLE 1**
**SUMMARY OF APPENDIX IX+3 SOIL SAMPLE DATA**
**AREA SUBJECT TO PROPOSED BARRIER MODIFICATION**

**NEWELL STREET AREA II**
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**
**(Results are presented in dry weight parts per million, ppm)**

| Parameter | Sample ID: / Sample Depth(Feet): / Date Collected: | NS-24 0-0.12 10/06/93 | RAA13-F96 0-1 09/26/02 |
|---|---|---|---|
| **Volatile Organics** | | | |
| 1,1,1,2-Tetrachloroethane | | ND(0.0060) | ND(0.0055) |
| 1,1,1-trichloro-2,2,2-trifluoroethane | | ND(0.0060) | NA |
| 1,1,1-Trichloroethane | | ND(0.0060) | ND(0.0055) |
| 1,1,2,2-Tetrachloroethane | | ND(0.012) | ND(0.0055) |
| 1,1,2-trichloro-1,2,2-trifluoroethane | | ND(0.0060) | NA |
| 1,1,2-Trichloroethane | | ND(0.0060) | ND(0.0055) |
| 1,1-Dichloroethane | | ND(0.0060) | ND(0.0055) |
| 1,1-Dichloroethene | | ND(0.0060) | ND(0.0055) |
| 1,2,3-Trichloropropane | | ND(0.019) | ND(0.0055) |
| 1,2-Dibromo-3-chloropropane | | ND(0.0060) | ND(0.0055) |
| 1,2-Dibromoethane | | ND(0.0060) | ND(0.0055) |
| 1,2-Dichloroethane | | ND(0.0060) | ND(0.0055) |
| 1,2-Dichloroethene (total) | | ND(0.0060) | NA |
| 1,2-Dichloropropane | | ND(0.0060) | ND(0.0055) |
| 1,4-Dioxane | | NA | ND(0.11) |
| 2-Butanone | | ND(0.012) | ND(0.011) |
| 2-Chloro-1,3-butadiene | | NA | ND(0.0055) |
| 2-Chloroethylvinylether | | ND(0.012) | ND(0.0055) |
| 2-Hexanone | | ND(0.019) | ND(0.011) |
| 3-Chloropropene | | ND(0.0060) | ND(0.0055) |
| 4-Methyl-2-pentanone | | ND(0.019) | ND(0.011) |
| Acetone | | ND(0.012) | ND(0.022) |
| Acetonitrile | | NA | ND(0.11) |
| Acrolein | | ND(0.11) | ND(0.11) J |
| Acrylonitrile | | ND(0.15) | ND(0.0055) |
| Benzene | | ND(0.0060) | ND(0.0055) |
| Bromodichloromethane | | ND(0.0060) | ND(0.0055) |
| Bromoform | | ND(0.012) | ND(0.0055) |
| Bromomethane | | ND(0.0060) | ND(0.0055) |
| Carbon Disulfide | | ND(0.0060) | ND(0.0055) |
| Carbon Tetrachloride | | ND(0.0060) | ND(0.0055) |
| Chlorobenzene | | ND(0.0060) | ND(0.0055) |
| Chloroethane | | ND(0.012) | ND(0.0055) |
| Chloroform | | ND(0.0060) | ND(0.0055) |
| Chloromethane | | ND(0.012) | ND(0.0055) |
| cis-1,3-Dichloropropene | | ND(0.0060) | ND(0.0055) |
| cis-1,4-Dichloro-2-butene | | ND(0.019) | NA |
| Crotonaldehyde | | ND(0.0060) | NA |
| Dibromochloromethane | | ND(0.0060) | ND(0.0055) |
| Dibromomethane | | ND(0.012) | ND(0.0055) |
| Dichlorodifluoromethane | | NA | ND(0.0055) |
| Ethyl Methacrylate | | ND(0.012) | ND(0.0055) |
| Ethylbenzene | | ND(0.0060) | ND(0.0055) |
| Iodomethane | | ND(0.012) | ND(0.0055) |
| Isobutanol | | NA | ND(0.11) |
| Methacrylonitrile | | NA | ND(0.0055) |
| Methyl Methacrylate | | NA | ND(0.0055) |
| Methylene Chloride | | 0.022 B | ND(0.0055) |
| Propionitrile | | NA | ND(0.011) |
| Styrene | | ND(0.0060) | ND(0.0055) |
| Tetrachloroethene | | ND(0.0060) | ND(0.0055) |
| Toluene | | ND(0.0060) | ND(0.0055) |
| trans-1,2-Dichloroethene | | NA | ND(0.0055) |
| trans-1,3-Dichloropropene | | ND(0.0060) | ND(0.0055) |
| trans-1,4-Dichloro-2-butene | | ND(0.0060) | ND(0.0055) |
| Trichloroethene | | ND(0.0060) | ND(0.0055) |
| Trichlorofluoromethane | | ND(0.0060) | ND(0.0055) |
| Vinyl Acetate | | ND(0.012) | ND(0.0055) |
| Vinyl Chloride | | ND(0.012) | ND(0.0055) |
| Xylenes (total) | | ND(0.0060) | ND(0.0055) |

**TABLE 1**
**SUMMARY OF APPENDIX IX+3 SOIL SAMPLE DATA**
**AREA SUBJECT TO PROPOSED BARRIER MODIFICATION**

**NEWELL STREET AREA II**
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**
**(Results are presented in dry weight parts per million, ppm)**

| Parameter | Sample ID: NS-24<br>Sample Depth(Feet): 0-0.12<br>Date Collected: 10/06/93 | Sample ID: RAA13-F96<br>Sample Depth(Feet): 0-1<br>Date Collected: 09/26/02 |
|---|---|---|
| **Semivolatile Organics** | | |
| 1,2,3,4-Tetrachlorobenzene | ND(0.80) | NA |
| 1,2,3,5-Tetrachlorobenzene | ND(1.6) | NA |
| 1,2,3-Trichlorobenzene | ND(0.75) | NA |
| 1,2,4,5-Tetrachlorobenzene | ND(1.6) | ND(0.44) |
| 1,2,4-Trichlorobenzene | ND(0.69) | ND(0.44) |
| 1,2-Dichlorobenzene | ND(0.74) | ND(0.44) |
| 1,2-Diphenylhydrazine | ND(0.86) | ND(0.44) |
| 1,3,5-Trichlorobenzene | ND(0.76) | NA |
| 1,3,5-Trinitrobenzene | ND(1.1) | ND(0.44) |
| 1,3-Dichlorobenzene | ND(0.64) | ND(0.44) |
| 1,3-Dinitrobenzene | ND(0.70) | ND(0.74) |
| 1,4-Dichlorobenzene | ND(0.65) | ND(0.44) |
| 1,4-Naphthoquinone | ND(2.0) | ND(0.74) |
| 1-Chloronaphthalene | ND(1.5) | NA |
| 1-Methylnaphthalene | ND(1.4) | NA |
| 1-Naphthylamine | ND(1.8) | ND(0.74) |
| 2,3,4,6-Tetrachlorophenol | ND(1.8) | ND(0.44) |
| 2,4,5-Trichlorophenol | ND(1.6) | ND(0.44) J |
| 2,4,6-Trichlorophenol | ND(1.6) | ND(0.44) |
| 2,4-Dichlorophenol | ND(0.69) | ND(0.44) |
| 2,4-Dimethylphenol | ND(0.76) | ND(0.44) |
| 2,4-Dinitrophenol | ND(2.1) | ND(2.2) |
| 2,4-Dinitrotoluene | ND(0.82) | ND(0.44) |
| 2,6-Dichlorophenol | ND(1.5) | ND(0.44) |
| 2,6-Dinitrotoluene | ND(0.94) | ND(0.44) |
| 2-Acetylaminofluorene | ND(0.89) | ND(0.74) J |
| 2-Chloronaphthalene | ND(1.2) | ND(0.44) |
| 2-Chlorophenol | ND(0.79) | ND(0.44) |
| 2-Methylnaphthalene | ND(1.0) | ND(0.44) |
| 2-Methylphenol | ND(0.81) | ND(0.44) |
| 2-Naphthylamine | ND(1.1) | ND(0.74) |
| 2-Nitroaniline | ND(1.4) | ND(2.2) |
| 2-Nitrophenol | ND(0.78) | ND(0.74) |
| 2-Picoline | ND(1.5) | ND(0.44) |
| 3&4-Methylphenol | ND(1.6) | ND(0.74) |
| 3,3'-Dichlorobenzidine | ND(0.62) | ND(0.88) J |
| 3,3'-Dimethoxybenzidine | ND(1.2) | NA |
| 3,3'-Dimethylbenzidine | ND(1.2) | ND(0.44) J |
| 3-Methylcholanthrene | ND(0.76) | ND(0.74) |
| 3-Nitroaniline | ND(0.86) | ND(2.2) |
| 4,4'-Methylene-bis(2-chloroaniline) | ND(0.56) | NA |
| 4,6-Dinitro-2-methylphenol | ND(2.2) | ND(0.44) |
| 4-Aminobiphenyl | ND(0.51) | ND(0.74) |
| 4-Bromophenyl-phenylether | ND(0.94) | ND(0.44) |
| 4-Chloro-3-Methylphenol | ND(0.94) | ND(0.44) |
| 4-Chloroaniline | ND(0.86) | ND(0.44) |
| 4-Chlorobenzilate | ND(0.89) | ND(0.74) |
| 4-Chlorophenyl-phenylether | ND(0.75) | ND(0.44) |
| 4-Nitroaniline | ND(1.4) | ND(1.9) |
| 4-Nitrophenol | ND(5.6) | ND(2.2) |
| 4-Nitroquinoline-1-oxide | ND(6.0) | ND(0.74) J |
| 4-Phenylenediamine | NA | ND(0.74) J |
| 5-Nitro-o-toluidine | ND(1.2) | ND(0.74) |
| 7,12-Dimethylbenz(a)anthracene | ND(0.51) | ND(0.74) |
| a,a'-Dimethylphenethylamine | NA | ND(0.74) |
| Acenaphthene | ND(0.82) | ND(0.44) |
| Acenaphthylene | 0.14 J | 0.19 J |
| Acetophenone | ND(0.82) | ND(0.44) |
| Aniline | ND(0.70) | 0.31 J |
| Anthracene | 0.093 J | 0.15 J |
| Aramite | ND(0.82) | ND(0.74) J |
| Benzal chloride | ND(0.66) | NA |
| Benzidine | ND(2.0) | ND(0.88) J |

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**NEWELL STREET AREA II**
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**
**(Results are presented in dry weight parts per million, ppm)**

| Parameter | Sample ID: NS-24<br>Sample Depth(Feet): 0-0.12<br>Date Collected: 10/06/93 | Sample ID: RAA13-F96<br>Sample Depth(Feet): 0-1<br>Date Collected: 09/26/02 |
|---|---|---|
| **Semivolatile Organics (continued)** | | |
| Benzo(a)anthracene | 0.52 J | 0.47 |
| Benzo(a)pyrene | 0.50 J | 0.42 J |
| Benzo(b)fluoranthene | 0.91 JX | 0.42 J |
| Benzo(g,h,i)perylene | 0.12 J | 0.28 J |
| Benzo(k)fluoranthene | 0.91 JX | 0.18 J |
| Benzoic Acid | ND(2.4) | NA |
| Benzotrichloride | ND(0.78) | NA |
| Benzyl Alcohol | ND(0.69) | ND(0.88) |
| Benzyl Chloride | ND(0.72) | NA |
| bis(2-Chloroethoxy)methane | ND(0.84) | ND(0.44) |
| bis(2-Chloroethyl)ether | ND(0.74) | ND(0.44) |
| bis(2-Chloroisopropyl)ether | ND(0.81) | ND(0.44) |
| bis(2-Ethylhexyl)phthalate | ND(0.94) | ND(0.36) |
| Butylbenzylphthalate | ND(0.85) | ND(0.44) |
| Chrysene | 0.61 J | 0.56 |
| Cyclophosphamide | ND(0.79) | NA |
| Diallate | ND(0.82) | ND(0.74) |
| Dibenz(a,j)acridine | ND(0.51) | NA |
| Dibenzo(a,h)anthracene | ND(0.54) | ND(0.44) |
| Dibenzofuran | ND(0.86) | ND(0.44) |
| Diethylphthalate | ND(0.90) | ND(0.44) |
| Dimethylphthalate | ND(1.2) | ND(0.44) |
| Di-n-Butylphthalate | 0.097 J | ND(0.44) |
| Di-n-Octylphthalate | ND(0.60) | ND(0.44) |
| Diphenylamine | ND(1.8) | ND(0.44) |
| Ethyl Methanesulfonate | ND(0.75) | ND(0.44) |
| Fluoranthene | 0.76 J | 0.97 |
| Fluorene | 0.062 J | ND(0.44) |
| Hexachlorobenzene | ND(0.96) | ND(0.44) |
| Hexachlorobutadiene | ND(0.70) | ND(0.44) |
| Hexachlorocyclopentadiene | ND(0.82) | ND(0.44) |
| Hexachloroethane | ND(0.75) | ND(0.44) |
| Hexachlorophene | NA | ND(0.88) J |
| Hexachloropropene | ND(0.71) | ND(0.44) |
| Indeno(1,2,3-cd)pyrene | 0.20 J | 0.19 J |
| Isodrin | ND(1.2) | ND(0.44) |
| Isophorone | ND(0.85) | ND(0.44) |
| Isosafrole | ND(1.6) | ND(0.74) |
| Methapyrilene | ND(1.6) | ND(0.74) |
| Methyl Methanesulfonate | ND(0.88) | ND(0.44) |
| Naphthalene | 0.057 J | ND(0.44) |
| Nitrobenzene | ND(0.85) | ND(0.44) |
| N-Nitrosodiethylamine | ND(0.75) | ND(0.44) |
| N-Nitrosodimethylamine | ND(0.82) | ND(0.44) |
| N-Nitroso-di-n-butylamine | ND(1.8) | ND(0.74) |
| N-Nitroso-di-n-propylamine | ND(0.76) | ND(0.44) |
| N-Nitrosodiphenylamine | ND(1.8) | ND(0.44) |
| N-Nitrosomethylethylamine | ND(0.68) | ND(0.74) |
| N-Nitrosomorpholine | ND(0.94) | ND(0.44) |
| N-Nitrosopiperidine | ND(0.92) | ND(0.44) |
| N-Nitrosopyrrolidine | ND(0.66) | ND(0.74) |
| o,o,o-Triethylphosphorothioate | ND(6.6) | ND(0.44) |
| o-Toluidine | ND(2.5) | ND(0.44) |
| Paraldehyde | ND(0.45) | NA |
| p-Dimethylaminoazobenzene | ND(0.84) | ND(0.74) |
| Pentachlorobenzene | ND(0.82) | ND(0.44) |
| Pentachloroethane | ND(1.0) | ND(0.44) |
| Pentachloronitrobenzene | ND(0.80) | ND(0.74) |
| Pentachlorophenol | ND(1.8) | ND(2.2) |
| Phenacetin | ND(0.76) | ND(0.74) |
| Phenanthrene | 0.65 J | 0.70 |
| Phenol | 0.16 J | ND(0.44) |
| Pronamide | ND(0.81) | ND(0.44) |

**TABLE 1**
**SUMMARY OF APPENDIX IX+3 SOIL SAMPLE DATA**
**AREA SUBJECT TO PROPOSED BARRIER MODIFICATION**

**NEWELL STREET AREA II**
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**
**(Results are presented in dry weight parts per million, ppm)**

| Parameter | Sample ID: / Sample Depth(Feet): / Date Collected: | NS-24 0-0.12 10/06/93 | RAA13-F96 0-1 09/26/02 |
|---|---|---|---|
| **Semivolatile Organics (continued)** | | | |
| Pyrene | | 0.89 J | 1.4 |
| Pyridine | | ND(0.69) | ND(0.44) |
| Safrole | | ND(0.72) | ND(0.44) |
| Thionazin | | ND(0.84) | ND(0.44) |
| **Organophosphate Pesticides** | | | |
| Dimethoate | | ND(0.0042) | NA |
| Disulfoton | | ND(0.0042) | NA |
| Ethyl Parathion | | ND(0.0042) | NA |
| Famphur | | ND(2.5) | NA |
| Methyl Parathion | | ND(0.0042) | NA |
| Phorate | | ND(0.0042) | NA |
| Sulfotep | | ND(0.0042) | NA |
| **Herbicides** | | | |
| 2,4,5-T | | ND(0.16) | NA |
| 2,4,5-TP | | ND(0.16) | NA |
| 2,4-D | | ND(0.62) | NA |
| **Furans** | | | |
| 2,3,7,8-TCDF | | ND(0.000099) | 0.00097 YEJ |
| TCDFs (total) | | ND(0.00010) | 0.0078 |
| 1,2,3,7,8-PeCDF | | ND(0.00015) | 0.00049 |
| 2,3,4,7,8-PeCDF | | ND(0.00016) | 0.00080 |
| PeCDFs (total) | | ND(0.00016) | 0.0074 Q |
| 1,2,3,4,7,8-HxCDF | | ND(0.00018) | 0.0010 |
| 1,2,3,6,7,8-HxCDF | | ND(0.00014) | 0.00058 |
| 1,2,3,7,8,9-HxCDF | | ND(0.00034) | 0.00016 |
| 2,3,4,6,7,8-HxCDF | | ND(0.00026) | 0.00053 |
| HxCDFs (total) | | ND(0.00034) | 0.0058 |
| 1,2,3,4,6,7,8-HpCDF | | ND(0.00027) | 0.0017 |
| 1,2,3,4,7,8,9-HpCDF | | ND(0.00029) | 0.00022 |
| HpCDFs (total) | | ND(0.00029) | 0.0025 |
| OCDF | | ND(0.00054) | 0.0010 |
| **Dioxins** | | | |
| 2,3,7,8-TCDD | | ND(0.00011) | 0.0000079 |
| TCDDs (total) | | ND(0.00011) | 0.00026 |
| 1,2,3,7,8-PeCDD | | ND(0.00020) | 0.000037 |
| PeCDDs (total) | | ND(0.00020) | 0.00050 Q |
| 1,2,3,4,7,8-HxCDD | | ND(0.00032) | 0.000045 |
| 1,2,3,6,7,8-HxCDD | | ND(0.00016) | 0.000073 |
| 1,2,3,7,8,9-HxCDD | | ND(0.00027) | 0.000057 |
| HxCDDs (total) | | ND(0.00032) | 0.00097 |
| 1,2,3,4,6,7,8-HpCDD | | ND(0.00033) | 0.00042 |
| HpCDDs (total) | | ND(0.00033) | 0.00086 |
| OCDD | | ND(0.00043) | 0.00068 |
| Total TEQs (WHO TEFs) | | 0.00029 | 0.00083 |

**TABLE 1**
**SUMMARY OF APPENDIX IX+3 SOIL SAMPLE DATA**
**AREA SUBJECT TO PROPOSED BARRIER MODIFICATION**

**NEWELL STREET AREA II**
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**
**(Results are presented in dry weight parts per million, ppm)**

| Parameter | Sample ID: / Sample Depth(Feet): / Date Collected: | NS-24 0-0.12 10/06/93 | RAA13-F96 0-1 09/26/02 |
|---|---|---|---|
| **Inorganics** | | | |
| Aluminum | | 12100 E | NA |
| Antimony | | ND(8.70) | 1.10 B |
| Arsenic | | 14.2 | 5.60 |
| Barium | | 118 | 25.0 J |
| Beryllium | | ND(1.10) | 0.150 B |
| Cadmium | | ND(1.20) | ND(0.500) |
| Calcium | | 12500 E | NA |
| Chromium | | 17.0 | 6.80 |
| Cobalt | | 7.80 B | 8.40 |
| Copper | | 75.8 | 42.0 |
| Cyanide | | NA | ND(0.220) |
| Iron | | 24900 | NA |
| Lead | | 200 | 27.0 J |
| Magnesium | | 6250 E | NA |
| Manganese | | 354 E | NA |
| Mercury | | 0.680 | 0.310 |
| Nickel | | 25.9 | 14.0 |
| Potassium | | 583 B | NA |
| Selenium | | 4.70 A | ND(1.00) |
| Silver | | ND(1.30) | ND(1.00) |
| Sodium | | 105 B | NA |
| Sulfide | | NA | 30.0 |
| Thallium | | ND(1.20) W | ND(1.60) J |
| Tin | | 32.1 | 3.80 B |
| Vanadium | | 31.0 | 6.20 |
| Zinc | | 289 | 76.0 |

Notes:

1. Samples were collected by GE subcontractors and were submitted for analysis of Appendix IX + 3 constituents.
2. ND - Analyte was not detected. The number in parentheses is the associated detection limit.
3. NA - Not Analyzed - Results were not reported for this analyte.
4. Total 2,3,7,8-TCDD toxicity equivalents (TEQs) were calculated using Toxicity Equivalency Factors (TEFs) derived by the World Health Organization (WHO) and published by Van den Berg et al. in Environmental Health Perspectives 106(2), December 1998.

Data Qualifiers:

Organics (volatiles, semivolatiles, pesticides, herbicides, dioxin/furans)

B - Analyte was also detected in the associated method blank.
E - Analyte exceeded calibration range.
J - Indicates that the associated numerical value is an estimated concentration.
Q - Indicates the presence of quantitative interferences.
X - Estimated maximum possible concentration.
Y - 2,3,7,8-TCDF results have been confirmed on a DB-225 column.

Inorganics

A - Analyte determination by the method of standard additions (MSA).
B - Indicates an estimated value between the instrument detection limit (IDL) and practical quantitation limit (PQL).
E - Serial dilution results not within 10%. Applicable only if analyte concentration is at least 50X the IDL in original sample.
J - Indicates that the associated numerical value is an estimated concentration.
W - GFAA Analytical spike recovery outside of range of 85% to 115% in a sample which exhibits a low concentration of analyte. Unspiked response must be < 50% of spiked sample response.

**TABLE 2**
**COMPARISON OF DETECTED APPENDIX IX+3 CONSTITUENTS TO RESIDENTIAL SCREENING PRGs**
**AREA SUBJECT TO PROPOSED BARRIER MODIFICATION**

**NEWELL STREET AREA II**
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**
**(Results are presented in dry weight parts per million, ppm)**

| Analytical Parameter | Maximum Detect | USEPA Region 9 Residential PRGs (See Note 3) | Constituent Retained for Further Evaluation? (See Note 5) |
|---|---|---|---|
| **Volatile Organics** | | | |
| Methylene Chloride | 0.022 | 8.5 | No |
| **Semivolatile Organics** | | | |
| Acenaphthylene | 0.19 | 55* | No |
| Aniline | 0.31 | 78 | No |
| Anthracene | 0.15 | 14,000 | No |
| Benzo(a)anthracene | 0.52 | 0.56 | No |
| Benzo(a)pyrene | 0.5 | 0.056 | **Yes** |
| Benzo(b)fluoranthene | 0.91 | 0.56 | **Yes** |
| Benzo(g,h,i)perylene | 0.28 | 55 | No |
| Benzo(k)fluoranthene | 0.91 | 5.6 | No |
| Chrysene | 0.61 | 56 | No |
| Di-n-Butylphthalate | 0.097 | 5,500 | No |
| Fluoranthene | 0.97 | 2,000 | No |
| Fluorene | 0.062 | 1,800 | No |
| Indeno(1,2,3-cd)pyrene | 0.2 | 0.56 | No |
| Naphthalene | 0.057 | 55 | No |
| Phenanthrene | 0.7 | 55* | No |
| Phenol | 0.16 | 33,000 | No |
| Pyrene | 1.4 | 1,500 | No |
| **Inorganics** | | | |
| Antimony | 1.1 | 30 | No |
| Arsenic | 14.2 | 0.38 | **Yes** |
| Barium | 118 | 5,200 | No |
| Beryllium | 0.15 | 150 | No |
| Chromium | 17 | 210 | No |
| Cobalt | 8.4 | 3,300 | No |
| Copper | 75.8 | 2,800 | No |
| Lead | 200 | 400 | No |
| Mercury | 0.68 | 22 | No |
| Nickel | 25.9 | 1,500 | No |
| Selenium | 4.7 | 370 | No |
| Sulfide | 30 | 350* | No |
| Tin | 32.1 | 45,000 | No |
| Vanadium | 31 | 520 | No |
| Zinc | 289 | 22,000 | No |

Notes:
1. PRG = Preliminary Remediation Goal.
2. Per Attachment F to Statement of Work for Removal Actions Outside the River (SOW), comparison to PRGs is required for all detected Appendix IX+3 constituents except PCBs, dioxins and furans.
3. The PRGs listed in this column consist of EPA Region 9 residential soil PRGs for the constituents listed or, for certain constituents, surrogate Region 9 PRGs previously approved by EPA. The PRGs listed are those set forth in Exhibit F-1 to Attachment F to the SOW.
4. * = No EPA Region 9 PRG exists for certain noncarcinogenic PAHs (i.e., acenaphthylene and phenanthrene) or sulfide. The PRGs for naphthalene and carbon disulfide, respectively, were used as surrogates.
5. Constituent is retained for further evaluation if its maximum detected concentration exceeds its corresponding PRG.

**TABLE 3**
**EXISTING CONDITIONS - COMPARISON TO METHOD 1 WAVE 2 SOIL STANDARDS**
**AREA SUBJECT TO PROPOSED BARRIER MODIFICATION**

**NEWELL STREET AREA II**
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**
**(Results are presented in dry weight parts per million, ppm)**

| Parameter / Sample ID: / Sample Depth(Feet): / Date Collected: | NS-24 0-0.12 10/06/93 | RAA13-F96 0-1 09/26/02 | Maximum Sample Result | Arithmetic Average Concentration | MCP Wave 2 Method 1 S-1 GW-2/GW-3 Soil Standard (See Note 3) | Constituent Exceeds Initial Comparison Criteria? (See Note 4) |
|---|---|---|---|---|---|---|
| **Semivolatile Organics** | | | | | | |
| Benzo(a)pyrene | 0.50 | 0.42 | N/A (See Note 5) | 0.5 | 2 | No |
| Benzo(b)fluoranthene | 0.91 | 0.42 | N/A (See Note 5) | 0.7 | 7 | No |
| **Dioxins/Furans** | | | | | | |
| Total TEQs (WHO TEFs) | 2.90E-04 | 8.30E-04 | 8.30E-04 | N/A (See Note 5) | 1.00E-03 | No |
| **Inorganics** | | | | | | |
| Arsenic | 14.2 | 5.60 | N/A (See Note 5) | 9.9 | 20 | No |

Notes:

1. Total 2,3,7,8-TCDD toxicity equivalency quotients (TEQs) were calculated using World Health Organization (WHO) Toxicity Equivalency Factors (TEFs) for all PCDD/PCDF compounds. Where individual compounds were not detected, a value of one-half the analytical detection limit was used to calculate the TEQ concentrations.
2. With the exception of Total TEQs, each constituent evaluated above has a maximum sample result that exceeds its respective EPA Region 9 Residential PRG or surrogate PRG.
3. The Method 1 Wave 2 S-1 soil standards listed are those associated with GW-2/GW-3 groundwater (whichever is more stringent), except for Dioxin/Furan Total TEQs. Total TEQs are compared to the EPA PRGs for such TEQs set out in Attachment F of the *Statement of Work for Removal Actions Outside the River* (SOW) or other TEQ comparison criteria utilized during previous evaluations.
4. Arithmetic average concentrations of all constituents, except Total TEQs, are compared to Method 1 Wave 2 Soil Standards. For TEQs, the maximum concentration is compared to the appropriate EPA PRG (or other comparison criterion).

# *Figures*

BLASLAND, BOUCK & LEE, INC.
*engineers, scientists, economists*

J9–23–12

J9–23–12

J9–23–11

J9–23–10

J9–23–8

J9–23–9

GATE

BIT. PAVEMENT

OH

S

LEGEND

- APPROXIMATE RAA BOUNDARY
- PARCEL BOUNDARY
- EASEMENT
- J9–23–12 PARCEL ID
- CHAIN LINK FENCE
- OH OVERHEAD WIRES
- GUARD RAIL
- AREA SPECIFIED FOR PLACEMENT OF ENGINEERED BARRIER IN CONCEPTUAL WORK PLAN
- ADDITIONAL AREA SPECIFIED FOR PLACEMENT OF ENGINEERED BARRIER IN FINAL WORK PLAN
- AREA WEST OF PARCEL J9–23–9
- AREA BETWEEN FENCE AND PROPERTY LINES
- 5–FOOT BUFFER STRIP
- PORTION OF PARCEL J9–23–12 UTILIZED BY PARCEL J9–23–10 PROPERTY OWNER (SUBJECT TO PREVIOUS RESPONSE ACTIONS UNDER THE OFF–SITE RESIDENTIAL PROPERTIES PROGRAM)

NOTES:

1. BASE MAP MODIFIED FROM SURVEY BY HILL ENGINEERS, ARCHITECTS & PLANNERS, DATED 12/9/03. LIMITS OF HOUSATONIC RIVER ARE APPROXIMATE.

0 30' 60'

GRAPHIC SCALE

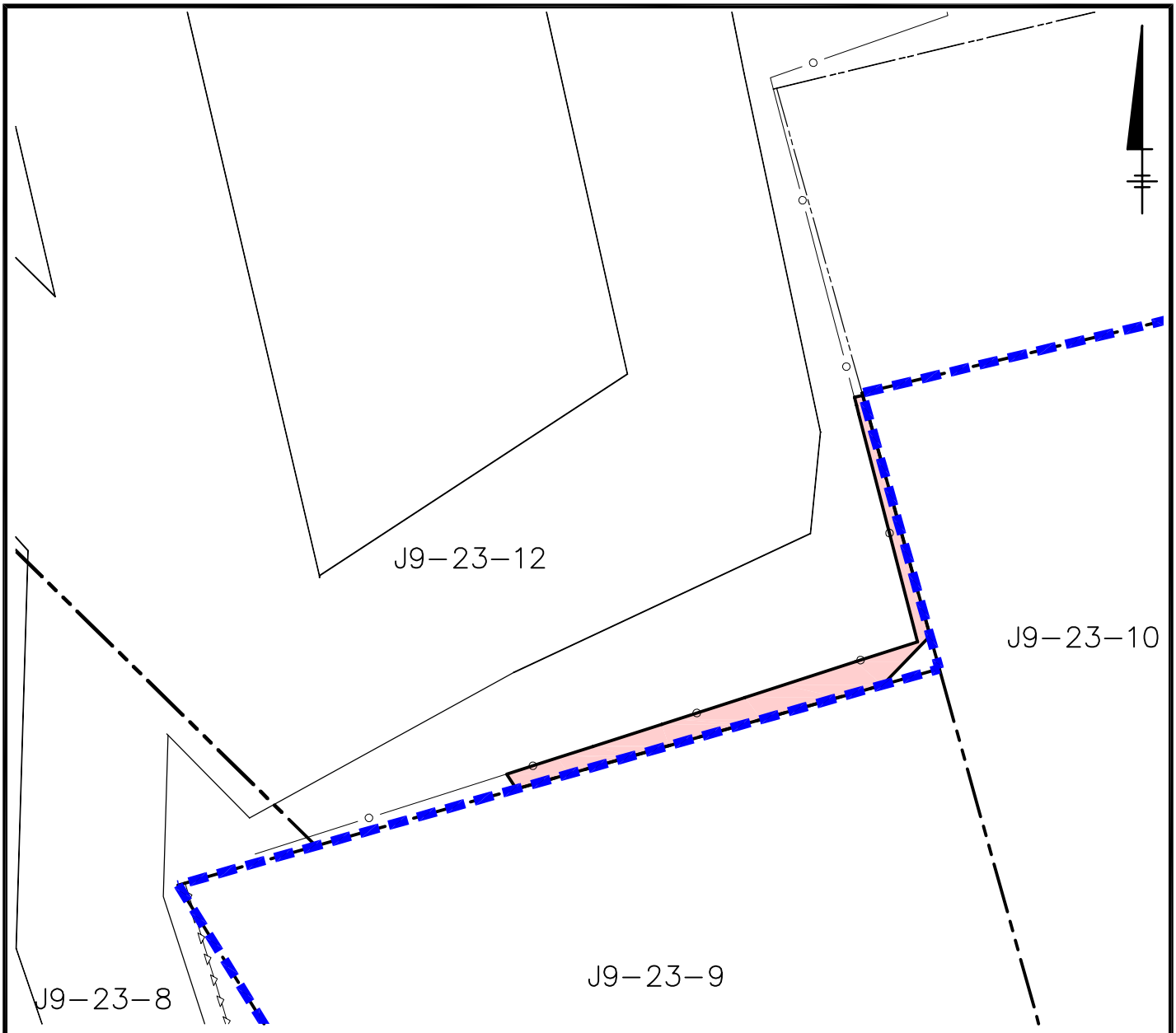
X: 20705X13.DWG
P: PAGESET/SYR–BL
5/4/06 SYR–85–DMW DMW KMD
N\20705002\EVAL406\20705G01.DWG

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
NEWELL STREET AREA II

# AREAS SUBJECT TO PROPOSED ENGINEERED BARRIER MODIFICATIONS

BBL BLASLAND, BOUCK & LEE, INC. engineers, scientists, economists

FIGURE 1




NOTES:

1. BASE MAP MODIFIED FROM SURVEY BY HILL ENGINEERS, ARCHITECTS & PLANNERS, DATED 12/9/03. LIMITS OF HOUSATONIC RIVER ARE APPROXIMATE.

LEGEND

- APPROXIMATE RAA BOUNDARY
- PARCEL BOUNDARY
- J9–23–12 PARCEL ID
- CHAIN LINK FENCE
- GUARD RAIL
- 1–FOOT REMOVAL

0 20' 40'

GRAPHIC SCALE

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
**NEWELL STREET AREA II**

# PROPOSED REMOVAL LIMITS WITHIN PARCEL J9-23-12

BBL BLASLAND, BOUCK & LEE, INC. engineers, scientists, economists

FIGURE 2

X: 20705X03.DWG
P: PAGESET/SYR–AP
5/4/06 SYR–85–DMW DMW KMD
N\20705002\20705G08.DWG

# *Attachments*

BLASLAND, BOUCK & LEE, INC.
*engineers, scientists, economists*

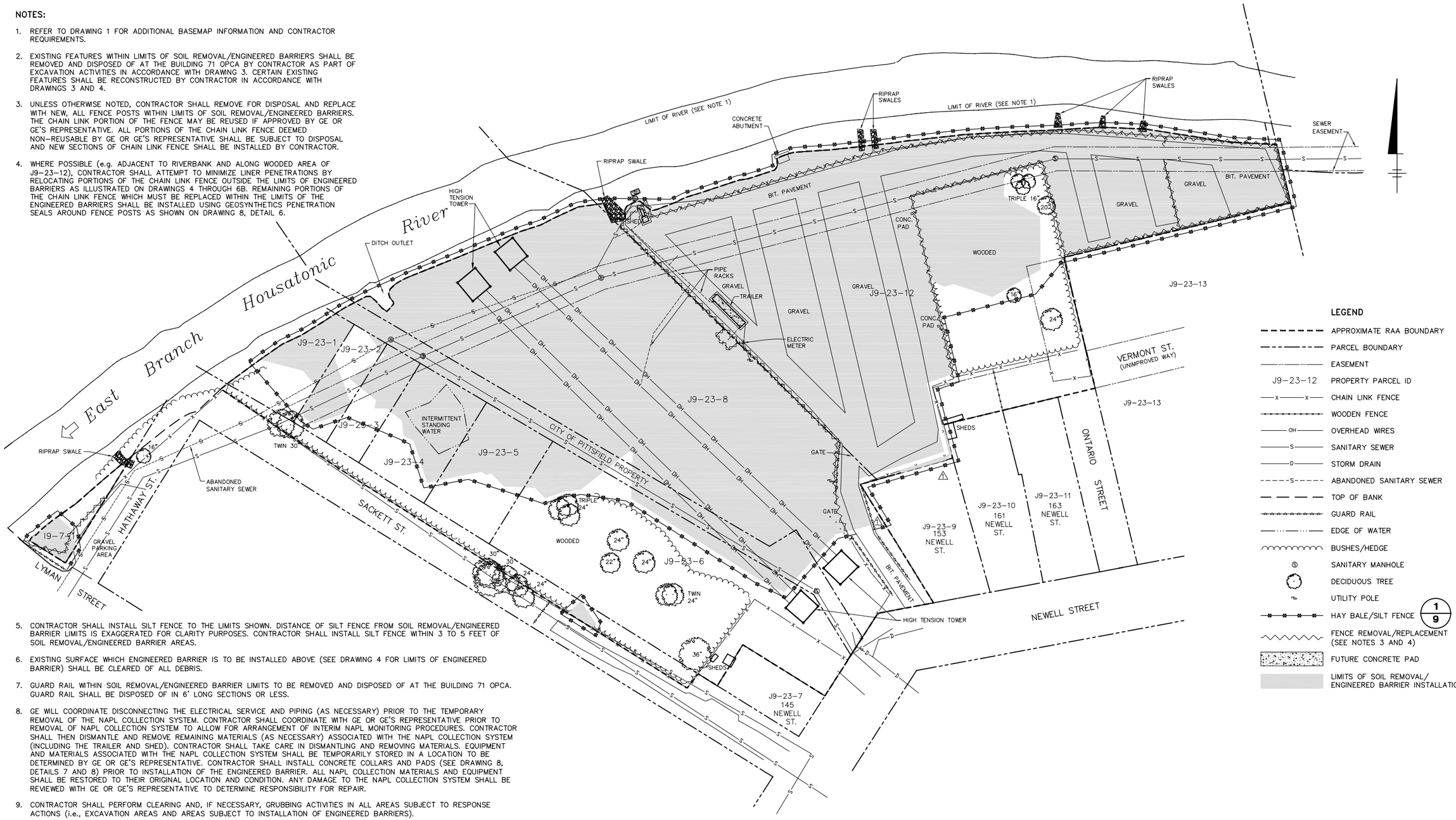
# *Attachment A*

## Revised Technical Drawings

BLASLAND, BOUCK & LEE, INC.
*engineers, scientists, economists*

NOTES:

1. REFER TO DRAWING 1 FOR ADDITIONAL BASEMAP INFORMATION AND CONTRACTOR REQUIREMENTS.
2. EXISTING FEATURES WITHIN LIMITS OF SOIL REMOVAL/ENGINEERED BARRIERS SHALL BE REMOVED AND DISPOSED OF AT THE BUILDING 71 OPCA BY CONTRACTOR AS PART OF EXCAVATION ACTIVITIES IN ACCORDANCE WITH DRAWING 3. CERTAIN EXISTING FEATURES SHALL BE RECONSTRUCTED BY CONTRACTOR IN ACCORDANCE WITH DRAWINGS 3 AND 4.
3. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL REMOVE FOR DISPOSAL AND REPLACE WITH NEW, ALL FENCE POSTS WITHIN LIMITS OF SOIL REMOVAL/ENGINEERED BARRIERS. THE CHAIN LINK PORTION OF THE FENCE MAY BE REUSED IF APPROVED BY GE OR GE'S REPRESENTATIVE. ALL PORTIONS OF THE CHAIN LINK FENCE DEEMED NON-REUSABLE BY GE OR GE'S REPRESENTATIVE SHALL BE SUBJECT TO DISPOSAL AND NEW SECTIONS OF CHAIN LINK FENCE SHALL BE INSTALLED BY CONTRACTOR.
4. WHERE POSSIBLE (e.g. ADJACENT TO RIVERBANK AND ALONG WOODED AREA OF J9-23-12), CONTRACTOR SHALL ATTEMPT TO MINIMIZE LINER PENETRATIONS BY RELOCATING PORTIONS OF THE CHAIN LINK FENCE OUTSIDE THE LIMITS OF ENGINEERED BARRIERS AS ILLUSTRATED ON DRAWINGS 4 THROUGH 6B. REMAINING PORTIONS OF THE CHAIN LINK FENCE WHICH MUST BE REPLACED WITHIN THE LIMITS OF THE ENGINEERED BARRIERS SHALL BE INSTALLED USING GEOSYNTHETICS PENETRATION SEALS AROUND FENCE POSTS AS SHOWN ON DRAWING 8, DETAIL 6.




LEGEND

- APPROXIMATE RAA BOUNDARY
- PARCEL BOUNDARY
- EASEMENT
- J9-23-12 PROPERTY PARCEL ID
- CHAIN LINK FENCE
- WOODEN FENCE
- OVERHEAD WIRES
- SANITARY SEWER
- STORM DRAIN
- ABANDONED SANITARY SEWER
- TOP OF BANK
- GUARD RAIL
- EDGE OF WATER
- BUSHES/HEDGE
- SANITARY MANHOLE
- DECIDUOUS TREE
- UTILITY POLE
- HAY BALE/SILT FENCE (1/9)
- FENCE REMOVAL/REPLACEMENT (SEE NOTES 3 AND 4)
- FUTURE CONCRETE PAD
- LIMITS OF SOIL REMOVAL/ ENGINEERED BARRIER INSTALLATION

5. CONTRACTOR SHALL INSTALL SILT FENCE TO THE LIMITS SHOWN. DISTANCE OF SILT FENCE FROM SOIL REMOVAL/ENGINEERED BARRIER LIMITS IS EXAGGERATED FOR CLARITY PURPOSES. CONTRACTOR SHALL INSTALL SILT FENCE WITHIN 3 TO 5 FEET OF SOIL REMOVAL/ENGINEERED BARRIER AREAS.
6. EXISTING SURFACE WHICH ENGINEERED BARRIER IS TO BE INSTALLED ABOVE (SEE DRAWING 4 FOR LIMITS OF ENGINEERED BARRIER) SHALL BE CLEARED OF ALL DEBRIS.
7. GUARD RAIL WITHIN SOIL REMOVAL/ENGINEERED BARRIER LIMITS TO BE REMOVED AND DISPOSED OF AT THE BUILDING 71 OPCA. GUARD RAIL SHALL BE DISPOSED OF IN 6' LONG SECTIONS OR LESS.
8. GE WILL COORDINATE DISCONNECTING THE ELECTRICAL SERVICE AND PIPING (AS NECESSARY) PRIOR TO THE TEMPORARY REMOVAL OF THE NAPL COLLECTION SYSTEM. CONTRACTOR SHALL COORDINATE WITH GE OR GE'S REPRESENTATIVE PRIOR TO REMOVAL OF NAPL COLLECTION SYSTEM TO ALLOW FOR ARRANGEMENT OF INTERIM NAPL MONITORING PROCEDURES. CONTRACTOR SHALL THEN DISMANTLE AND REMOVE REMAINING MATERIALS (AS NECESSARY) ASSOCIATED WITH THE NAPL COLLECTION SYSTEM (INCLUDING THE TRAILER AND SHED). CONTRACTOR SHALL TAKE CARE IN DISMANTLING AND REMOVING MATERIALS. EQUIPMENT AND MATERIALS ASSOCIATED WITH THE NAPL COLLECTION SYSTEM SHALL BE TEMPORARILY STORED IN A LOCATION TO BE DETERMINED BY GE OR GE'S REPRESENTATIVE. CONTRACTOR SHALL INSTALL CONCRETE COLLARS AND PADS (SEE DRAWING 8, DETAILS 7 AND 8) PRIOR TO INSTALLATION OF THE ENGINEERED BARRIER. ALL NAPL COLLECTION MATERIALS AND EQUIPMENT SHALL BE RESTORED TO THEIR ORIGINAL LOCATION AND CONDITION. ANY DAMAGE TO THE NAPL COLLECTION SYSTEM SHALL BE REVIEWED WITH GE OR GE'S REPRESENTATIVE TO DETERMINE RESPONSIBILITY FOR REPAIR.
9. CONTRACTOR SHALL PERFORM CLEARING AND, IF NECESSARY, GRUBBING ACTIVITIES IN ALL AREAS SUBJECT TO RESPONSE ACTIONS (i.e., EXCAVATION AREAS AND AREAS SUBJECT TO INSTALLATION OF ENGINEERED BARRIERS).

X: 20705X00, X01, X02.DWG
L: ON=*, OFF= *REF, |CONT*, |VEGETATION
P: PAGESET/SYR-CDL
5/4/06 SYR-85-LAF DMW KMD
N/20705002/20705G05.DWG

Graphic Scale
50' 0 50' 100'
1"=50'

THIS DRAWING WAS PREPARED AT THE SCALE INDICATED IN THE TITLE BLOCK. INACCURACIES IN THE STATED SCALE MAY BE INTRODUCED WHEN DRAWINGS ARE REPRODUCED. **USE THE GRAPHIC SCALE BAR IN THE TITLE BLOCK TO DETERMINE THE ACTUAL SCALE OF THIS DRAWING.**

| | Date | Revisions | Init |
|---|---|---|---|
| 1 | 4/21/06 | REVISED LIMIT OF ENGINEERED BARRIER INSTALLATION | CAA |



Professional Engineer's Name

Professional Engineer's No.

State | Date Signed

| Project Mgr. | Designed by | Drawn by |
|---|---|---|
| ACC | CAA | NES |

BBL BLASLAND, BOUCK & LEE, INC. engineers, scientists, economists

GENERAL ELECTRIC COMPANY • PITTSFIELD, MASSACHUSETTS
NEWELL STREET AREA II RAA REMEDIAL ACTION

# SITE PREPARATION PLAN

TECHNICAL DRAWINGS

BBL Project No. 301.93

Date MARCH 2005

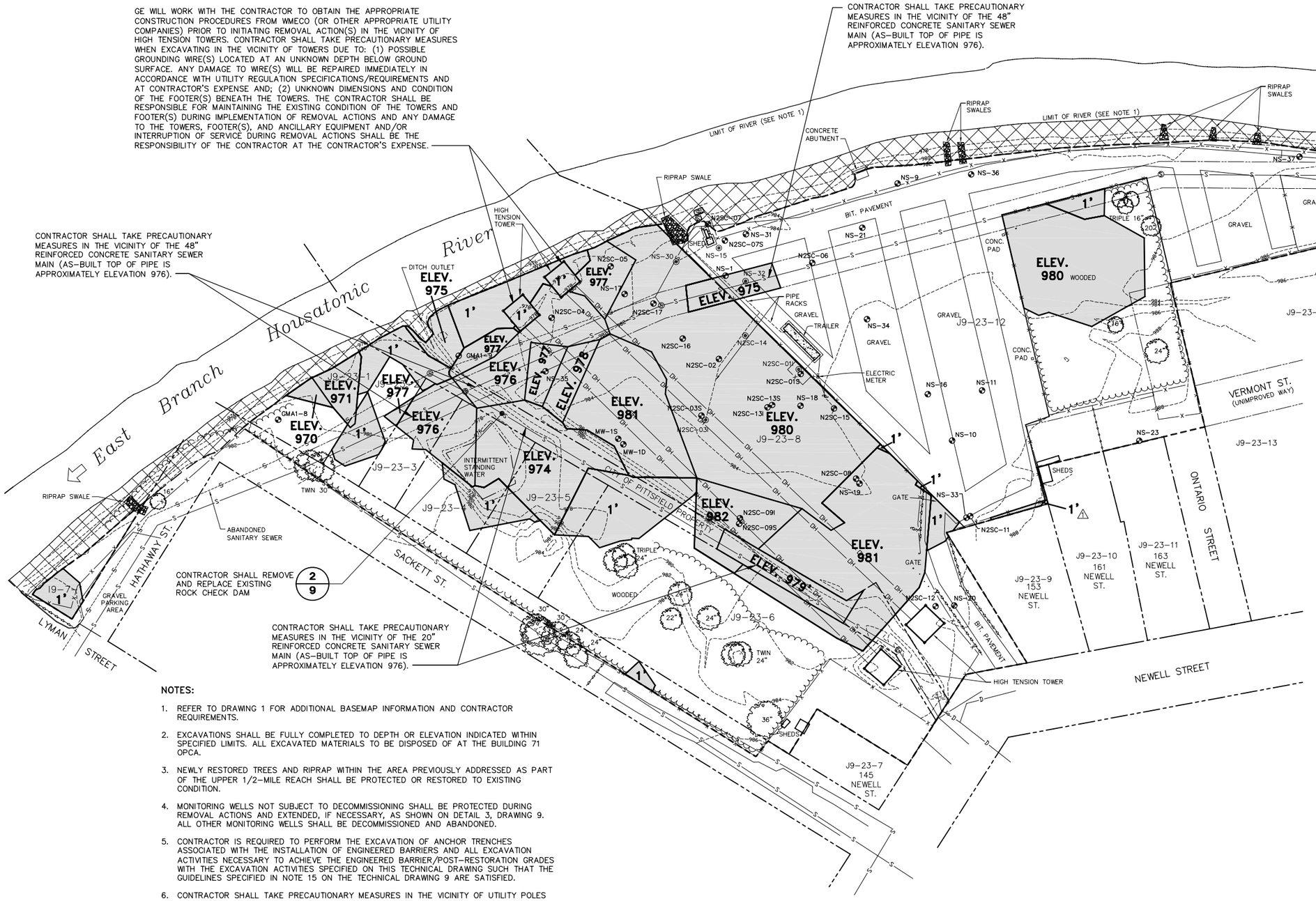
Blasland, Bouck & Lee, Inc.
Corporate Headquarters
6723 Towpath Road
Syracuse, NY 13214
315-446-9120

2

GE WILL WORK WITH THE CONTRACTOR TO OBTAIN THE APPROPRIATE CONSTRUCTION PROCEDURES FROM WMECO (OR OTHER APPROPRIATE UTILITY COMPANIES) PRIOR TO INITIATING REMOVAL ACTION(S) IN THE VICINITY OF HIGH TENSION TOWERS. CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES WHEN EXCAVATING IN THE VICINITY OF TOWERS DUE TO: (1) POSSIBLE GROUNDING WIRE(S) LOCATED AT AN UNKNOWN DEPTH BELOW GROUND SURFACE. ANY DAMAGE TO WIRE(S) WILL BE REPAIRED IMMEDIATELY IN ACCORDANCE WITH UTILITY REGULATION SPECIFICATIONS/REQUIREMENTS AND AT CONTRACTOR'S EXPENSE AND; (2) UNKNOWN DIMENSIONS AND CONDITION OF THE FOOTER(S) BENEATH THE TOWERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE EXISTING CONDITION OF THE TOWERS AND FOOTER(S) DURING IMPLEMENTATION OF REMOVAL ACTIONS AND ANY DAMAGE TO THE TOWERS, FOOTER(S), AND ANCILLARY EQUIPMENT AND/OR INTERRUPTION OF SERVICE DURING REMOVAL ACTIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.

CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES IN THE VICINITY OF THE 48" REINFORCED CONCRETE SANITARY SEWER MAIN (AS-BUILT TOP OF PIPE IS APPROXIMATELY ELEVATION 976).

CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES IN THE VICINITY OF THE 48" REINFORCED CONCRETE SANITARY SEWER MAIN (AS-BUILT TOP OF PIPE IS APPROXIMATELY ELEVATION 976).




## NOTES:

1. REFER TO DRAWING 1 FOR ADDITIONAL BASEMAP INFORMATION AND CONTRACTOR REQUIREMENTS.
2. EXCAVATIONS SHALL BE FULLY COMPLETED TO DEPTH OR ELEVATION INDICATED WITHIN SPECIFIED LIMITS. ALL EXCAVATED MATERIALS TO BE DISPOSED OF AT THE BUILDING 71 OPCA.
3. NEWLY RESTORED TREES AND RIPRAP WITHIN THE AREA PREVIOUSLY ADDRESSED AS PART OF THE UPPER 1/2-MILE REACH SHALL BE PROTECTED OR RESTORED TO EXISTING CONDITION.
4. MONITORING WELLS NOT SUBJECT TO DECOMMISSIONING SHALL BE PROTECTED DURING REMOVAL ACTIONS AND EXTENDED, IF NECESSARY, AS SHOWN ON DETAIL 3, DRAWING 9. ALL OTHER MONITORING WELLS SHALL BE DECOMMISSIONED AND ABANDONED.
5. CONTRACTOR IS REQUIRED TO PERFORM THE EXCAVATION OF ANCHOR TRENCHES ASSOCIATED WITH THE INSTALLATION OF ENGINEERED BARRIERS AND ALL EXCAVATION ACTIVITIES NECESSARY TO ACHIEVE THE ENGINEERED BARRIER/POST-RESTORATION GRADES WITH THE EXCAVATION ACTIVITIES SPECIFIED ON THIS TECHNICAL DRAWING SUCH THAT THE GUIDELINES SPECIFIED IN NOTE 15 ON THE TECHNICAL DRAWING 9 ARE SATISFIED.
6. CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES IN THE VICINITY OF UTILITY POLES THROUGHOUT THE IMPLEMENTATION OF REMOVAL ACTIONS.
7. THE CONTRACTOR SHALL INVENTORY ALL TREES AND SHRUBS LOCATED WITHIN THE LIMITS OF EXCAVATION. THIS INVENTORY SHALL BE SUBMITTED TO GE OR GE'S REPRESENTATIVE. THE CONTRACTOR SHALL SHEAR/SHRED ALL TREES AND SHRUBS (INCLUDING ROOTS) REMOVED DURING THE PERFORMANCE RESPONSE ACTIONS FOR TRANSPORTATION TO THE OPCAS FOR POTENTIAL FUTURE USE/DISPOSAL (AS APPROPRIATE).

## LEGEND

- APPROXIMATE RAA BOUNDARY
- PARCEL BOUNDARY
- EASEMENT
- J9-23-12 PROPERTY PARCEL ID
- INDEX ELEVATION CONTOUR
- CHAIN LINK FENCE
- WOODEN FENCE
- OVERHEAD WIRES
- SANITARY SEWER
- STORM DRAIN
- ABANDONED SANITARY SEWER
- TOP OF BANK
- GUARD RAIL
- EDGE OF WATER
- BUSHES/HEDGE
- SANITARY MANHOLE
- DECIDUOUS TREE
- UTILITY POLE
- 1' AREA OF REMOVAL AND DEPTH OF EXCAVATION (SEE NOTE 2)
- ELEV. 981 AREA OF REMOVAL AND REQUIRED ELEVATION OF EXCAVATION (SEE NOTE 2)
- AREA PREVIOUSLY ADDRESSED AS PART OF THE UPPER 1/2-MILE REACH (SEE NOTE 3)
- N2SC-08 MONITORING WELL (SEE NOTE 4)
- N2SC-14 ACTIVE NAPL/GROUNDWATER RECOVERY WELL (SEE NOTE 4)
- CONCRETE PAD

X: 20705X00, X01, X02.DWG
L: ON=*, OFF=REF*, |VEGETATION*
P: PAGESET/SYR-CDL
5/4/06 SYR-85-NES DMW KMD
N/20705002/20705G07.DWG

Graphic Scale
50' 0 50' 100'
1"=50'

THIS DRAWING WAS PREPARED AT THE SCALE INDICATED IN THE TITLE BLOCK. INACCURACIES IN THE STATED SCALE MAY BE INTRODUCED WHEN DRAWINGS ARE REPRODUCED. **USE THE GRAPHIC SCALE BAR IN THE TITLE BLOCK TO DETERMINE THE ACTUAL SCALE OF THIS DRAWING.**

| | Date | Revisions | Init |
|---|---|---|---|
| 1 | 4/21/05 | ADDED REMOVAL AREA | ACC |



Professional Engineer's Name

Professional Engineer's No.

State | Date Signed

Project Mgr. ACC | Designed by CAA | Drawn by NES

BBL BLASLAND, BOUCK & LEE, INC. engineers, scientists, economists

GENERAL ELECTRIC COMPANY • PITTSFIELD, MASSACHUSETTS
NEWELL STREET AREA II RAA REMEDIAL ACTION

# EXCAVATION LIMITS

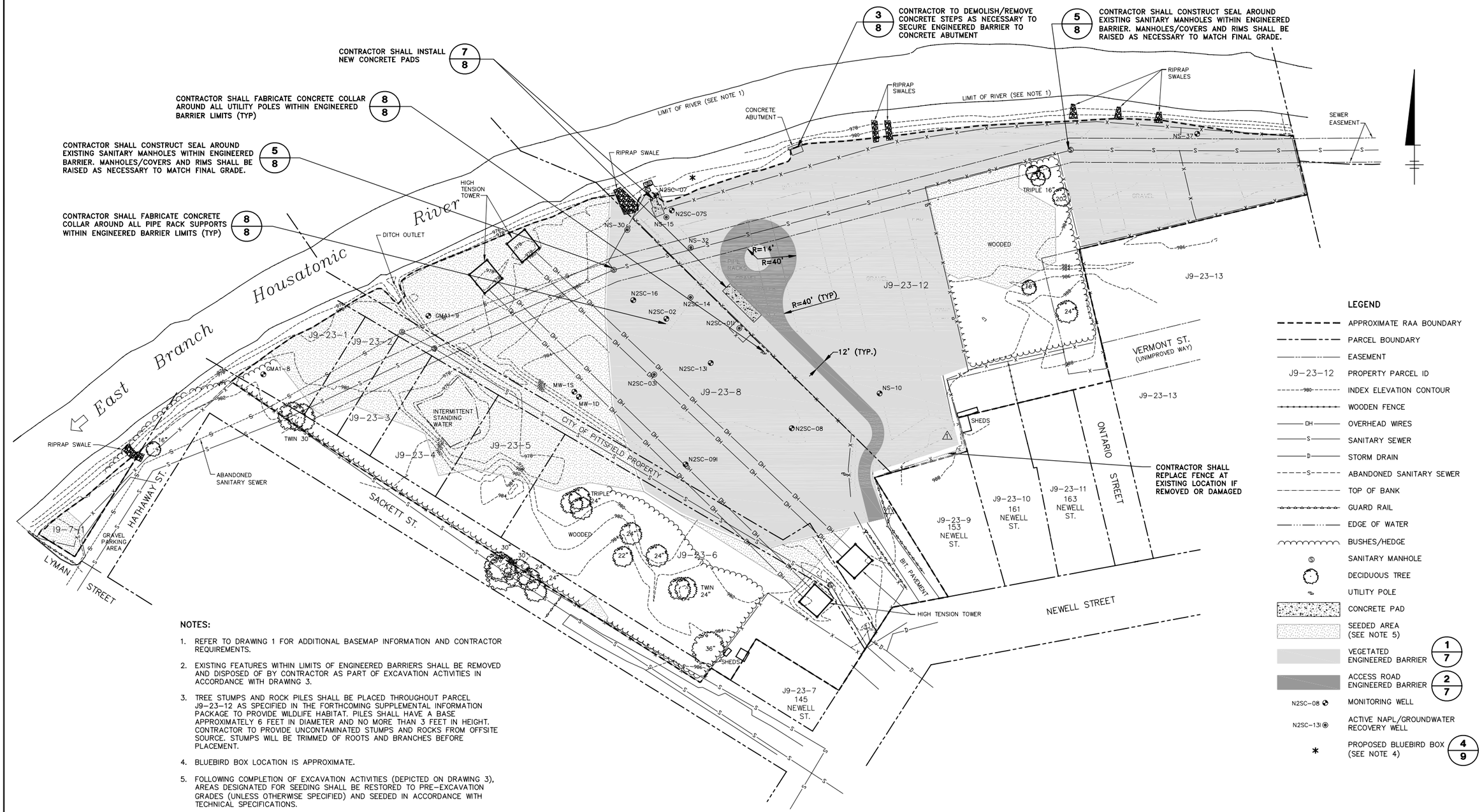
TECHNICAL DRAWINGS

BBL Project No. 301.93

Date MARCH 2005

Blasland, Bouck & Lee, Inc.
Corporate Headquarters
6723 Towpath Road
Syracuse, NY 13214
315-446-9120

3




## NOTES:

1. REFER TO DRAWING 1 FOR ADDITIONAL BASEMAP INFORMATION AND CONTRACTOR REQUIREMENTS.
2. EXISTING FEATURES WITHIN LIMITS OF ENGINEERED BARRIERS SHALL BE REMOVED AND DISPOSED OF BY CONTRACTOR AS PART OF EXCAVATION ACTIVITIES IN ACCORDANCE WITH DRAWING 3.
3. TREE STUMPS AND ROCK PILES SHALL BE PLACED THROUGHOUT PARCEL J9-23-12 AS SPECIFIED IN THE FORTHCOMING SUPPLEMENTAL INFORMATION PACKAGE TO PROVIDE WILDLIFE HABITAT. PILES SHALL HAVE A BASE APPROXIMATELY 6 FEET IN DIAMETER AND NO MORE THAN 3 FEET IN HEIGHT. CONTRACTOR TO PROVIDE UNCONTAMINATED STUMPS AND ROCKS FROM OFFSITE SOURCE. STUMPS WILL BE TRIMMED OF ROOTS AND BRANCHES BEFORE PLACEMENT.
4. BLUEBIRD BOX LOCATION IS APPROXIMATE.
5. FOLLOWING COMPLETION OF EXCAVATION ACTIVITIES (DEPICTED ON DRAWING 3), AREAS DESIGNATED FOR SEEDING SHALL BE RESTORED TO PRE-EXCAVATION GRADES (UNLESS OTHERWISE SPECIFIED) AND SEEDED IN ACCORDANCE WITH TECHNICAL SPECIFICATIONS.

## LEGEND

- APPROXIMATE RAA BOUNDARY
- PARCEL BOUNDARY
- EASEMENT
- J9-23-12 PROPERTY PARCEL ID
- 980 INDEX ELEVATION CONTOUR
- WOODEN FENCE
- OH OVERHEAD WIRES
- S SANITARY SEWER
- D STORM DRAIN
- S ABANDONED SANITARY SEWER
- TOP OF BANK
- GUARD RAIL
- EDGE OF WATER
- BUSHES/HEDGE
- SANITARY MANHOLE
- DECIDUOUS TREE
- UTILITY POLE
- CONCRETE PAD
- SEEDED AREA (SEE NOTE 5)
- VEGETATED ENGINEERED BARRIER 1/7
- ACCESS ROAD ENGINEERED BARRIER 2/7
- N2SC-08 MONITORING WELL
- N2SC-13I ACTIVE NAPL/GROUNDWATER RECOVERY WELL
- * PROPOSED BLUEBIRD BOX (SEE NOTE 4) 4/9

X: 20705X00, X01, X02.DWG
L: ON=*, OFF=*REF, |GATE*, |VEGETATION*
P: PAGESET/SYR-CDL
5/4/06 SYR-85-NES DMW KMD
N/20705002/20705G06.DWG

Graphic Scale
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1"=50'

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| | Date | Revisions | Init |
|---|---|---|---|
| 1 | 4/21/06 | REVISED LIMIT OF VEGETATIVE ENGINEERED BARRIER INSTALLATION | CAA |



Professional Engineer's Name
Professional Engineer's No.
State | Date Signed
Project Mgr. ACC | Designed by CAA | Drawn by NES

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NEWELL STREET AREA II RAA REMEDIAL ACTION

# SITE RESTORATION PLAN

TECHNICAL DRAWINGS

BBL Project No. 301.93
Date MARCH 2005

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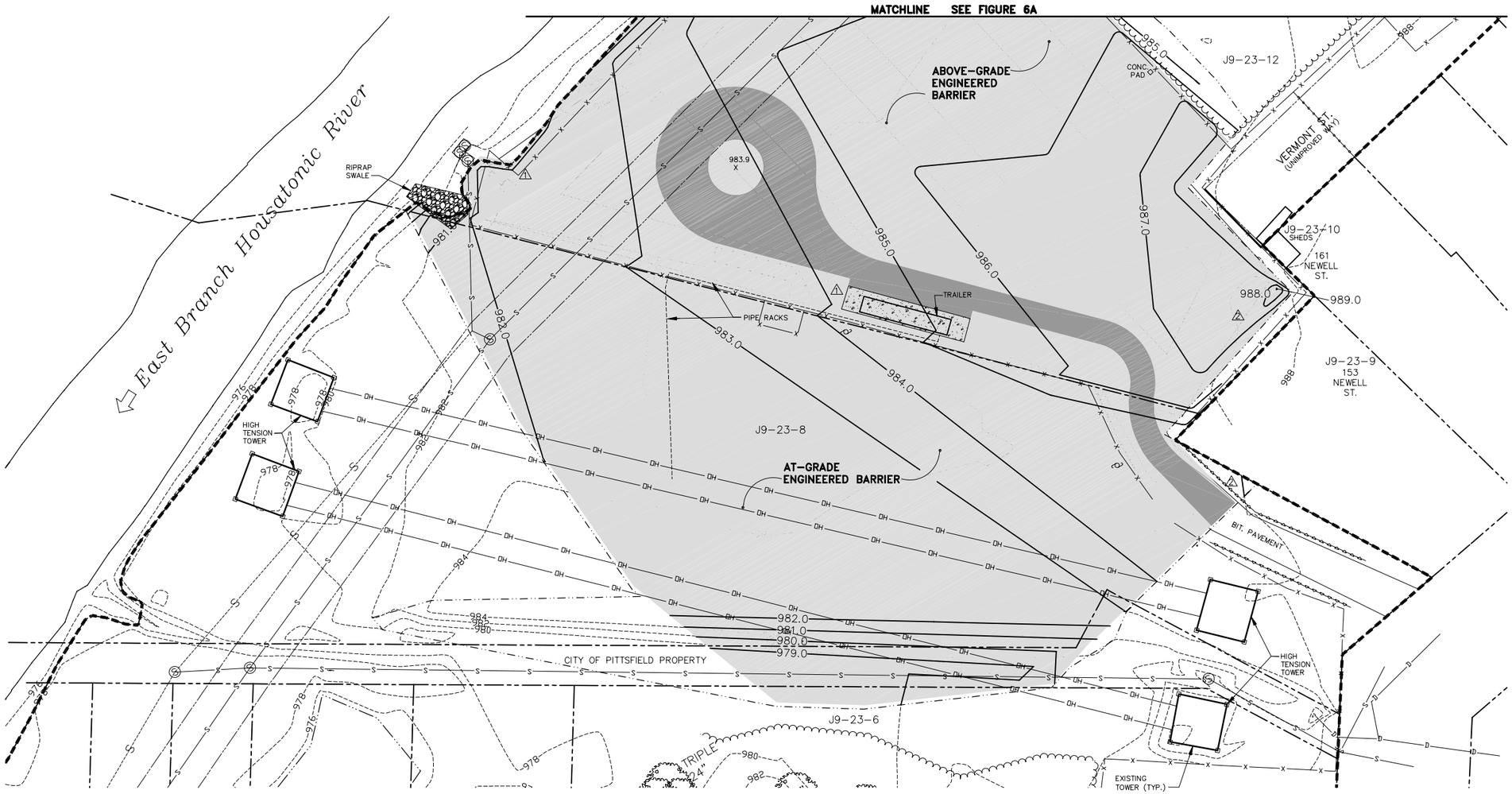
4




LEGEND

- APPROXIMATE RAA BOUNDARY
- PARCEL BOUNDARY
- EASEMENT
- J9-23-12 PROPERTY PARCEL ID
- 392 INDEX ELEVATION CONTOUR
- LIMITS OF GRADING
- 988.0 PROPOSED SUBGRADE CONTOURS (SEE NOTE 3)
- WOODEN FENCE
- OH OVERHEAD WIRES
- S SANITARY SEWER
- D STORM DRAIN
- S ABANDONED SANITARY SEWER
- TOP OF BANK
- GUARD RAIL
- BUSHES/HEDGE
- SANITARY MANHOLE
- DECIDUOUS TREE
- UTILITY POLE
- CONCRETE PAD
- VEGETATIVE ENGINEERED BARRIER (1/7)
- ACCESS ROAD ENGINEERED BARRIER (2/7)
- 983.9 X SPOT ELEVATION

NOTES:

1. REFER TO DRAWING 1 FOR ADDITIONAL BASEMAP INFORMATION AND CONTRACTOR REQUIREMENTS.
2. PROPOSED CONTOUR INTERVAL IS 1 FOOT. EXISTING CONTOUR INTERVAL IS 2 FEET.
3. PROPOSED GRADING REPRESENTS TOP OF PREPARED SUBGRADE (i.e., BARRIER GEOSYNTHETICS SUBGRADE).
4. REFER TO DRAWING 5B AND DETAIL DRAWINGS FOR ADDITIONAL CONSTRUCTION INFORMATION (e.g., DRAINAGE PIPE INVERTS, CULVERT LOCATIONS, AND ANCHOR TRENCHES).

X: 20705X00, X01, X02.DWG
L: ON=*, OFF=*REF, |50-*, |GATE*, |VEGETATION*
P: PAGESET/SYR-CDL
5/4/06 SYR-85-NES DMW KMD
N/20705002/20705G01.DWG

Graphic Scale
30' 0 30' 60'
1"=30'

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| | Date | Revisions | Init |
|---|---|---|---|
| 2 | 4/21/06 | REVISED LIMITS OF VEGETATIVE ENGINEERED BARRIER, PROPOSED CONTOURS, AND LIMIT OF GRADING | CAA |
| 1 | 8/12/05 | REMOVED SHED, REVISED LOCATION OF TRAILER, AND PIPE RACKS | |



Professional Engineer's Name

Professional Engineer's No.

State | Date Signed

Project Mgr. ACC | Designed by CAA | Drawn by NES

BBL BLASLAND, BOUCK & LEE, INC. engineers, scientists, economists

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NEWELL STREET AREA II RAA REMEDIAL ACTION

# ENGINEERED BARRIER PLAN SUBGRADE

TECHNICAL DRAWINGS

BBL Project No. 301.93

Date MARCH 2005

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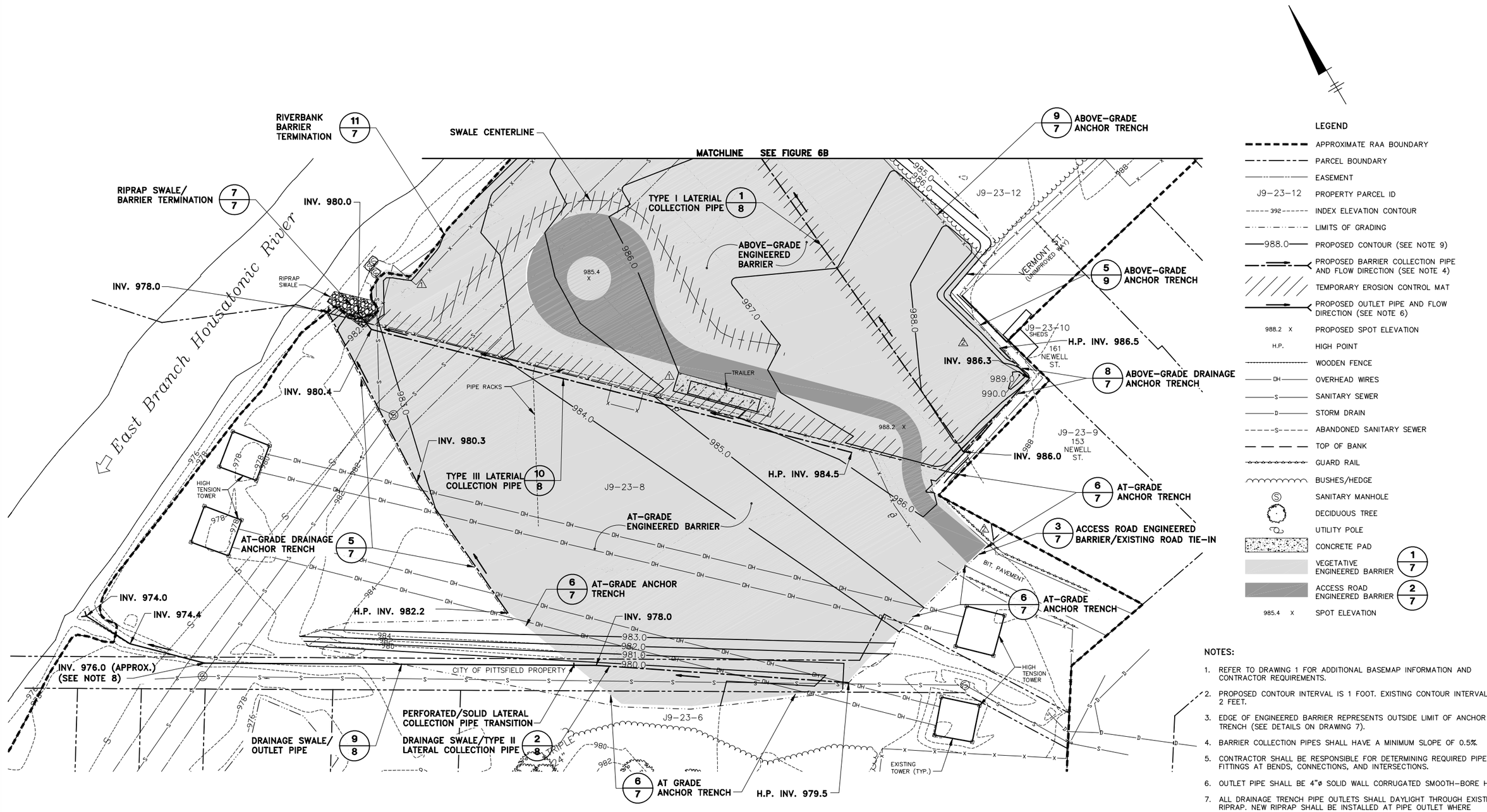
6723 Towpath Road
Syracuse, NY 13214
315-446-9120

5A




NOTES:

1. REFER TO DRAWING 1 FOR ADDITIONAL BASEMAP INFORMATION AND CONTRACTOR REQUIREMENTS.
2. PROPOSED CONTOUR INTERVAL IS 1 FOOT. EXISTING CONTOUR INTERVAL IS 2 FEET.
3. EDGE OF ENGINEERED BARRIER REPRESENTS OUTSIDE LIMIT OF ANCHOR TRENCH (SEE DETAILS ON DRAWING 7).
4. BARRIER COLLECTION PIPES SHALL HAVE A MINIMUM SLOPE OF 0.5%.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING REQUIRED PIPE FITTINGS AT BENDS, CONNECTIONS, AND INTERSECTIONS.
6. OUTLET PIPE SHALL BE 4"ø SOLID WALL CORRUGATED SMOOTH-BORE HDPE.
7. ALL DRAINAGE TRENCH PIPE OUTLETS SHALL DAYLIGHT THROUGH EXISTING RIPRAP. NEW RIPRAP SHALL BE INSTALLED AT PIPE OUTLET WHERE CURRENTLY IT DOES NOT EXIST.
8. OUTLET PIPE SHALL BE INSTALLED ABOVE EXISTING 48" SANITARY SEWER LINE. ACTUAL INVERT ELEVATION DEPENDENT UPON TOP OF SANITARY SEWER LINE. INSTALLED OUTLET PIPE TO HAVE ASOUTHWEST SLOPE (0.5% MIN.) ALLOWING FOR PIPE FLOW DISCHARGE.
9. PROPOSED GRADES REPRESENT TOP OF VEGETATIVE TOPSOIL.

X: 20705X00, X01, X02.DWG
L: ON=*, OFF=*REF, |50-*,|EXCAV*, |FL_CHAINLINK, |GATE*, |VEGETATION*
P: PAGESET/SYR-CDL
5/4/06 SYR-85-NES DMW KMD
N/20705002/20705G02.DWG

Graphic Scale
30' 0 30' 60'
1"=30'

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| | Date | Revisions | Init |
|---|---|---|---|
| 2 | 4/21/06 | REVISED LIMITS OF VEGETATIVE ENGINEERED BARRIER, PROPOSED CONTOURS, LIMIT OF GRADING, AND BARRIER COLLECTION PIPE | CAA |
| 1 | 8/12/05 | REMOVED SHED, REVISED LOCATION OF TRAILER, PIPE RACKS, AND SURROUNDING GRADES | |



Professional Engineer's Name
Professional Engineer's No.
State | Date Signed
Project Mgr. ACC | Designed by CAA | Drawn by NES

BLASLAND, BOUCK & LEE, INC. engineers, scientists, economists

GENERAL ELECTRIC COMPANY • PITTSFIELD, MASSACHUSETTS
NEWELL STREET AREA II RAA REMEDIAL ACTION

# ENGINEERED BARRIER PLAN FINAL GRADE

TECHNICAL DRAWINGS

BBL Project No. 301.93
Date MARCH 2005

Blasland, Bouck & Lee, Inc.
Corporate Headquarters
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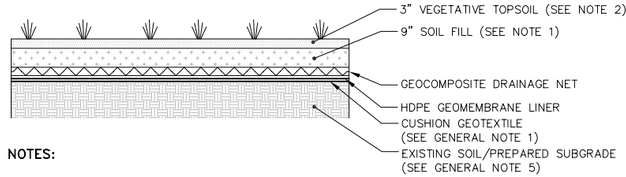
5B

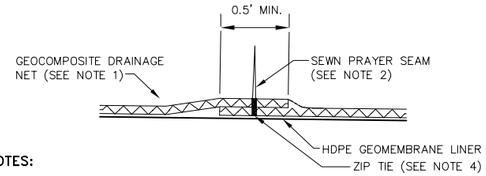



**NOTES:**

1. AT CONTRACTOR'S DISCRETION AND EXPENSE, SOIL FILL MAY BE REPLACED WITH TOPSOIL. ADDITIONAL SOIL FILL THICKNESS REQUIRED ADJACENT TO ACCESS ROAD ENGINEERED BARRIER.
2. TOPSOIL SHALL BE VEGETATED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.

## VEGETATIVE ENGINEERED BARRIER 1

NOT TO SCALE

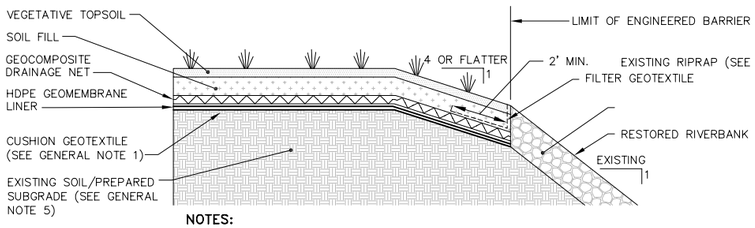



**NOTES:**

1. ALL GEOCOMPOSITE SHALL SHINGLE DOWNSLOPE.
2. THE TOP GEOTEXTILE COMPONENTS OF THE TWO GEOCOMPOSITE LAYERS SHALL BE PEELED BACK SO THAT A PRAYER SEAM MAY BE SEWN ABOVE THE GEOCOMPOSITE OVERLAP.
3. IF GEOTEXTILE IS UNABLE TO BE PEELED BACK WITHOUT CAUSING DAMAGE, A PATCH OF GEOTEXTILE SHALL BE HEAT BONDED TO THE TOP GEOTEXTILE LAYER OVER THE SEAM.
4. ZIP TIES SHALL BE PLACED EVERY 5' ALONG ADJACENT PANELS AND EVERY 6" ALONG BUTT SEAMS AND IN ANCHOR TRENCHES.

## TYPICAL GEOCOMPOSITE SEAM 4

NOT TO SCALE

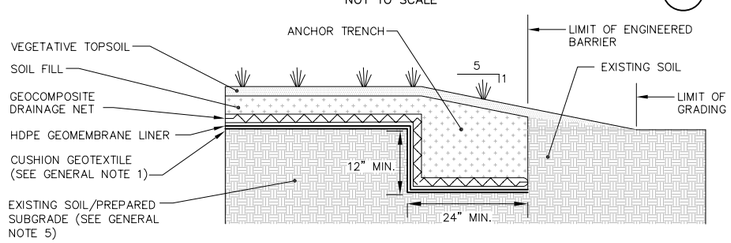



**NOTES:**

1. CONTRACTOR SHALL MINIMIZE DISTURBANCE OF EXISTING RIPRAP DURING INSTALLATION OF ENGINEERED BARRIER. DISTURBED RIPRAP TO BE REPLACED TO ORIGINAL LOCATION.

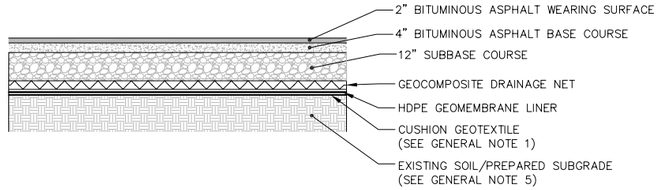
## RIPRAP/SWALE BARRIER TERMINATION 7

NOT TO SCALE



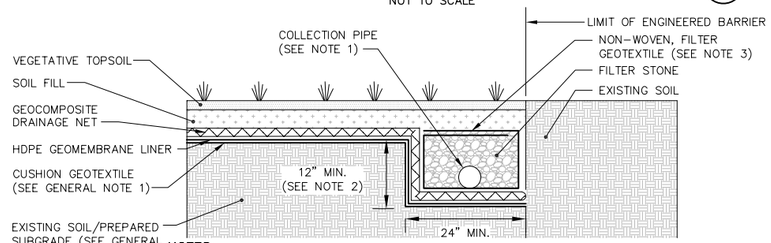

## ABOVE-GRADE ANCHOR TRENCH 9

NOT TO SCALE




## ACCESS ROAD ENGINEERED BARRIER 2

NOT TO SCALE

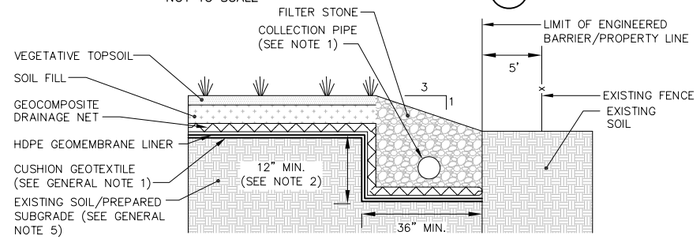



**NOTES:**

1. COLLECTION PIPE SHALL BE 4"ø PERFORATED SMOOTH-BORE CORRUGATED HDPE.
2. ANCHOR TRENCH DEPTH MAY EXCEED 12-INCH MINIMUM AS NECESSARY TO ACHIEVE COLLECTION PIPE INVERT ELEVATIONS SHOWN ON DRAWINGS 5B AND 6B.
3. GEOTEXTILE TO BE OVERLAPPED FULL WIDTH OF TRENCH.

## AT-GRADE DRAINAGE ANCHOR TRENCH 5

NOT TO SCALE

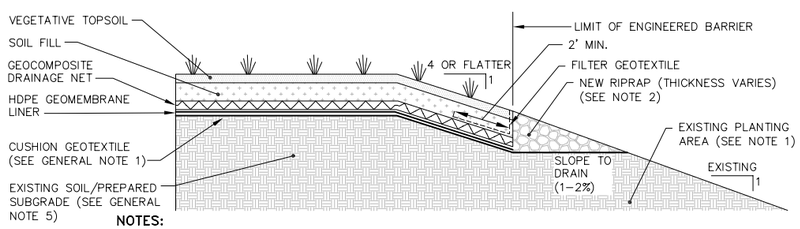



**NOTES:**

1. COLLECTION PIPE SHALL BE 4"ø PERFORATED SMOOTH-BORE CORRUGATED HDPE.
2. ANCHOR TRENCH DEPTH MAY EXCEED 12-INCH MINIMUM AS NECESSARY TO ACHIEVE COLLECTION PIPE INVERTS SHOWN ON DRAWINGS 5 AND 6.

## ABOVE-GRADE DRAINAGE ANCHOR TRENCH 8 ⚠

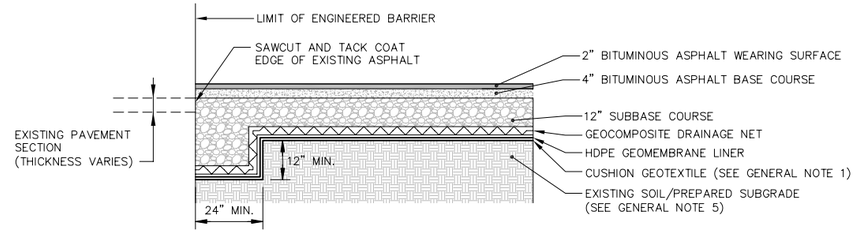
NOT TO SCALE




**NOTES:**

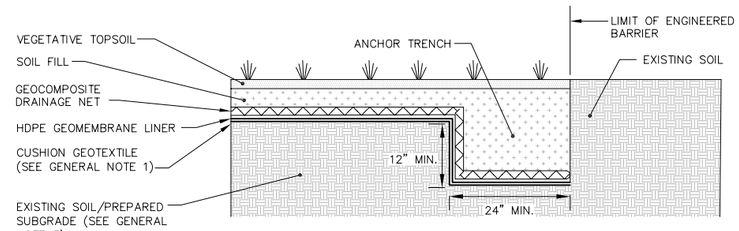
1. CONTRACTOR SHALL MINIMIZE DISTURBANCE OF EXISTING PLANTING AREA DURING INSTALLATION OF ENGINEERED BARRIER. DISTURBED PLANTING AREA TO BE REPLACED TO ORIGINAL LOCATION.
2. NEW RIPRAP TO BE PROVIDED ALONG ENTIRE ABOVE-GRADE TERMINATION AT THE RIVERBANK.

## RIVERBANK BARRIER TERMINATION 11



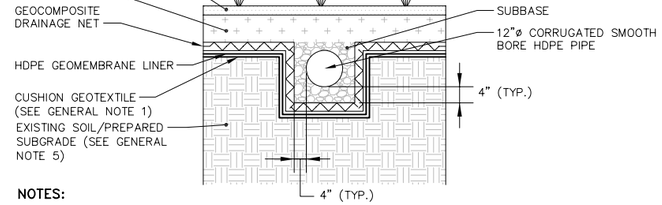

## ACCESS ROAD ENGINEERED BARRIER/EXISTING ROAD TIE-IN 3

NOT TO SCALE




## AT-GRADE ANCHOR TRENCH 6

NOT TO SCALE




**NOTES:**

1. PIPE SHALL HAVE A MINIMUM SLOPE OF 1%.
2. INLET/OUTLET INVERT ELEVATIONS TO BE DETERMINED BASED ON FIELD CONDITIONS AT TIME OF CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH GE OR GE'S REPRESENTATIVE TO DETERMINE INVERT ELEVATIONS.
3. RIPRAP TO BE PLACED AROUND INLET OF CULVERT.
4. CULVERT OUTLET SHALL EXTEND THROUGH EXISTING RIPRAP SWALE. ADDITIONAL NEW RIPRAP TO BE PLACED AROUND CULVERT OUTLET AS REQUIRED TO CREATE A UNIFORM PIPE FLOW TRANSITION INTO THE SWALE.

## CULVERT 10

NOT TO SCALE

**GENERAL NOTES:**

1. NON-WOVEN CUSHION GEOTEXTILE IS REQUIRED WHERE COVER IS INSTALLED ABOVE EXISTING SOIL/PAVEMENT.
2. GEOSYNTHETICS ARE SHOWN AT AN EXAGGERATED SCALE FOR CLARITY.
3. "AT-GRADE" REFERS TO ENGINEERED BARRIERS THAT ARE RECESSED INTO EXISTING GRADE.
4. "ABOVE-GRADE" REFERS TO ENGINEERED BARRIERS THAT ARE CONSTRUCTED ON TOP OF EXISTING GRADE.
5. PREPARED SUBGRADE INCLUDES FILLED AND COMPACTED SUBGRADE OR EXCAVATED SUBGRADE.
6. RIPRAP SHALL BE COMPOSED OF CRUSHED ROCK AND HAVE $D_{MIN} = 3"$, $D_{50} = 4"$, $D_{MAX} = 6"$.

X: 20705X00.DWG
L: ON=*, OFF=REF
P: PAGESET/SYR-CDL
5/4/06 SYR-85-KMD LAF KMD
N/20705002/20705G04.DWG

Graphic Scale: NOT TO SCALE

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| | Date | Revisions | Init |
|---|---|---|---|
| ⚠ | 4/21/06 | REVISE DETAIL 8 | CAA |



Professional Engineer's Name

Professional Engineer's No.

State | Date Signed

| Project Mgr. | Designed by | Drawn by |
|---|---|---|
| ACC | CAA | NES |

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GENERAL ELECTRIC COMPANY • PITTSFIELD, MASSACHUSETTS
NEWELL STREET AREA II RAA REMEDIAL ACTION

# DETAILS

TECHNICAL DRAWINGS

BBL Project No. 301.93

Date MARCH 2005

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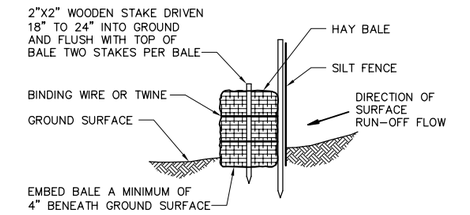
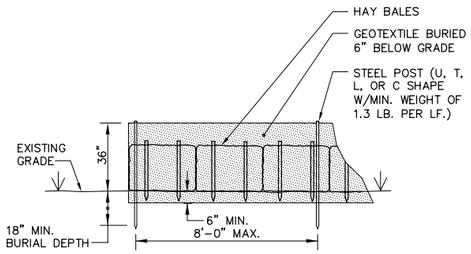


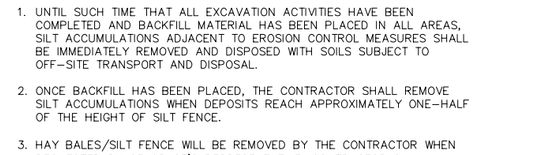




NOTES:

1. UNTIL SUCH TIME THAT ALL EXCAVATION ACTIVITIES HAVE BEEN COMPLETED AND BACKFILL MATERIAL HAS BEEN PLACED IN ALL AREAS, SILT ACCUMULATIONS ADJACENT TO EROSION CONTROL MEASURES SHALL BE IMMEDIATELY REMOVED AND DISPOSED WITH SOILS SUBJECT TO OFF-SITE TRANSPORT AND DISPOSAL.
2. ONCE BACKFILL HAS BEEN PLACED, THE CONTRACTOR SHALL REMOVE SILT ACCUMULATIONS WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF OF THE HEIGHT OF SILT FENCE.
3. HAY BALES/SILT FENCE WILL BE REMOVED BY THE CONTRACTOR WHEN REQUESTED BY GE OR GE'S REPRESENTATIVE. CONTRACTOR SHALL BACKFILL EXCAVATIONS AS NECESSARY AND RESTORE SURFACE COVER.
4. THE CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF THE HAY BALES/SILT FENCING AS LONG AS THEY ARE NECESSARY.

## HAY BALE/SILT FENCE 1

NOT TO SCALE

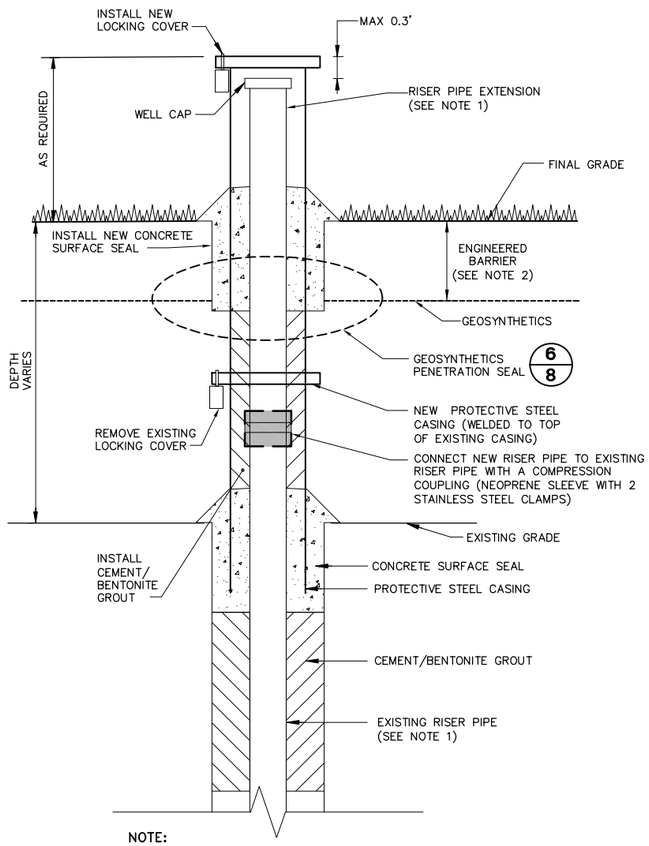



NOTES:

1. RIPRAP SHALL BE COMPOSED OF CRUSHED ROCK AND HAVE $D_{MIN}=3"$, $D_{50}=4"$, $D_{MAX}=6"$.
2. CHECK DAM BASE WIDTH DIMENSIONS TO MATCH EXISTING DITCH.
3. CHECK DAM CREST (IN DIRECTION OF FLOW) TO HAVE A MINIMUM TOP LENGTH OF 12" AND A MINIMUM BASE LENGTH OF 3'.

## ROCK CHECK DAM CROSS-SECTION 2

NOT TO SCALE

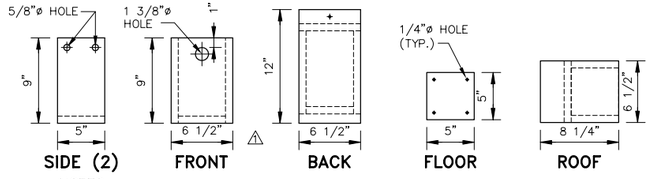



NOTE:

1. RISER PIPE AND STEEL CASING SIZES AND TYPES MAY DIFFER FOR EACH WELL. NEW WELL EXTENSION MATERIALS TO BE OF THE SAME SIZE AND TYPE AS EXISTING.
2. COVER MATERIALS NOT SHOWN FOR CLARITY.

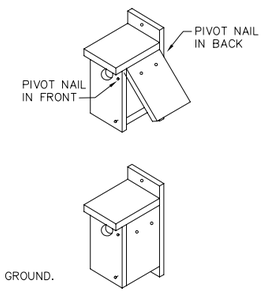
## MONITORING WELL EXTENSION 3

NOT TO SCALE




NOTES:

1. USE ONE NAIL OR SCREW AT BOTTOM TO CLOSE SIDE. NAIL OR SCREW SIDE CLOSED.
2. TWO "PIVOT" NAILS ALLOW SIDE TO SWING OUT FOR CLEANING.
3. BLUEBIRD HOUSE POSTS ARE TO BE INSTALLED OUTSIDE THE LIMITS OF ENGINEERED BARRIER.
4. BLUEBIRD HOUSES TO BE MOUNTED ON POSTS A MINIMUM OF 6' (NOT TO EXCEED 15') ABOVE THE GROUND.

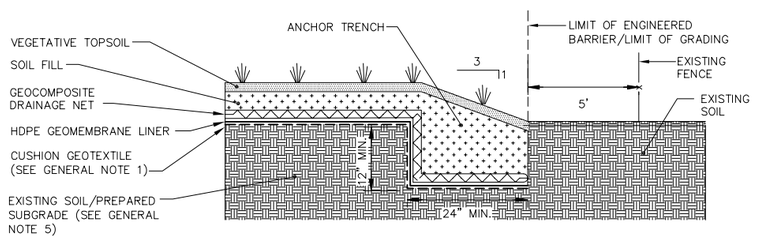



## BLUEBIRD HOUSE 4

NOT TO SCALE

# THE FOLLOWING GENERAL NOTES APPLY TO DRAWINGS 2 THROUGH 6

1. THE SOILS SUBJECT TO EXCAVATION AND HANDLING AS PART OF THIS CONTRACT POTENTIALLY CONTAIN PCBs AND OTHER HAZARDOUS CONSTITUENTS AND SHOULD BE HANDLED IN ACCORDANCE WITH APPLICABLE REGULATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING AND IMPLEMENTING APPROPRIATE HEALTH AND SAFETY MEASURES FOR ITS EMPLOYEES AND SUBCONTRACTORS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING SURVEY CONTROL TO VERIFY EXISTING GRADES AND POST-EXCAVATION ELEVATIONS. GE WILL IDENTIFY LOCATION(S) AND ELEVATION(S) OF SUITABLE BENCHMARKS TO BE USED FOR SURVEY CONTROL.
3. THE DRAWINGS MAY NOT INDICATE ALL SURFACE FEATURES SUBJECT TO REPLACEMENT AS PART OF SITE RESTORATION ACTIVITIES. THIS WILL NOT RELIEVE THE CONTRACTOR FROM REMOVING AND REPLACING (IF NECESSARY) ANY AND ALL SUCH ITEMS AT NO ADDITIONAL COST TO GE.
4. LOCATIONS OF UNDERGROUND UTILITIES AND STRUCTURES ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL (SHOWN OR NOT SHOWN) ABOVE AND BELOW GROUND UTILITIES AND STRUCTURES THAT MAY EXIST WITHIN THE PROJECT LIMITS PRIOR TO COMMENCEMENT OF WORK.
5. THE CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE UTILITY COMPANIES FOR THE TEMPORARY PROTECTION OF (AND/OR REMOVAL AND REPLACEMENT, AS NECESSARY, AS DETERMINED BY THE APPROPRIATE UTILITY COMPANY) ANY UTILITY POLES, GUY WIRES, UNDERGROUND UTILITIES, AND/OR OVERHEAD WIRES THAT FALL WITHIN THE LIMITS OF EXCAVATION.
6. EXCAVATION LIMITS SHOWN ON THE TECHNICAL DRAWINGS REPRESENT SOILS THAT REQUIRE REMOVAL TO ACHIEVE THE NECESSARY REMOVAL ACTION OUTCOME. ADDITIONAL REMOVAL BEYOND THAT SHOWN MAY BE REQUIRED, AT NO EXPENSE TO GE, TO FACILITATE CONSTRUCTION ACCESS, RESTORATION, ETC.
7. THE CONTRACTOR SHALL TAKE ALL APPROPRIATE MEASURES TO AVOID DAMAGE TO STRUCTURES THAT ARE NOT SUBJECT TO REMOVAL AND REPLACEMENT AS PART OF THIS CONTRACT. THE CONTRACTOR SHALL REPAIR ANY STRUCTURAL OR EXTERNAL DAMAGES TO SUCH STRUCTURES AT NO ADDITIONAL COST TO GE.
8. THE CONTRACTOR SHALL COORDINATE SITE ACTIVITIES TO AVOID INFRINGEMENT UPON NORMAL TRAFFIC FLOW ON ADJACENT ROADWAYS.
9. ABOVEGROUND PORTIONS OF ITEMS SUBJECT TO REMOVAL AND REPLACEMENT TO ACCOMMODATE EXCAVATION ACTIVITIES (E.G., FENCING, ETC.) MAY BE SALVAGED FOR REUSE UPON APPROVAL BY GE OR GE'S REPRESENTATIVE. APPROVED SALVAGED MATERIALS MAY BE USED WHEN RECONSTRUCTING THESE ITEMS. BELOW-GRADE COMPONENTS AND/OR COMPONENTS THAT HAVE CONTACTED SOILS SUBJECT TO EXCAVATION SHALL BE HANDLED AND DISPOSED OF WITH THE ASSOCIATED SOILS. ALL SUCH ITEMS SHALL BE BROKEN INTO SUFFICIENTLY SMALL PIECES (IF NECESSARY) TO BE ACCEPTABLE FOR OFF-SITE TRANSPORT AND DISPOSAL WITH THE SOILS. BELOW-GRADE COMPONENTS SHALL BE REPLACED AS PART OF SITE RESTORATION ACTIVITIES.
10. THE CONTRACTOR SHALL SHEAR/SHRED ALL TREES AND SHRUBS (INCLUDING ROOTS) REMOVED DURING THE PERFORMANCE OF RESPONSE ACTIONS FOR TRANSPORTATION TO THE OPCA FOR POTENTIAL FUTURE USE/DISPOSAL (AS APPROPRIATE).
11. THE CONTRACTOR SHALL PROVIDE A WATER TRUCK AND APPROPRIATE EQUIPMENT FOR DUST SUPPRESSION WITHIN SOIL EXCAVATION, STAGING, AND LOADING AREAS. THESE AREAS SHALL BE WATERED BASED ON VISUAL OBSERVATIONS, THE RESULTS OF AIR MONITORING ACTIVITIES, AND/OR DIRECTION BY GE OR GE'S REPRESENTATIVE.
12. THE CONTRACTOR SHALL ENSURE PERIMETER AIR MONITORING (TO BE PERFORMED BY OTHERS) IS BEING PERFORMED DURING EXCAVATION OR OTHER EXISTING SOIL HANDLING ACTIVITIES.
13. THE HORIZONTAL LIMITS OF EXCAVATION ACTIVITIES WILL BE PHYSICALLY DELINEATED IN THE FIELD BY THE CONTRACTOR. WITHIN THESE LIMITS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXECUTING AND VERIFYING THE SPECIFIED DEPTH OR ELEVATION OF EXCAVATION IN ACCORDANCE WITH OSHA REQUIREMENTS.
14. THE CONTRACTOR MAY CONSTRUCT TEMPORARY SOIL STOCKPILES FOR EXCAVATED MATERIALS AT AREAS APPROVED BY GE OR GE'S REPRESENTATIVE. THE CONTRACTOR WILL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING PERIMETER EROSION AND SEDIMENTATION CONTROLS (IN THE FORM OF SILT FENCING, HAY BALES, AND/OR SHEET PILING, AS INDICATED), RUN-OFF WATER COLLECTION, AND DUST SUPPRESSION IN THIS AREA. THE CONTRACTOR SHALL COVER THE STOCKPILED MATERIALS WITH POLYETHYLENE LINERS WHEN NO ACTIVITIES ARE BEING PERFORMED IN THE STOCKPILE AREA.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRANSPORTING EXCAVATED/REMOVED MATERIALS TO THE BUILDING 71 OPCA. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE THREE DAYS NOTICE TO GE OR GE'S REPRESENTATIVE PRIOR TO TRANSPORTATION OF EXCAVATED/STOCKPILED MATERIALS TO THE OPCA. THE CONTRACTOR IS REQUIRED TO PROVIDE NO LESS THAN 32 TRUCK LOADS OF MATERIAL, CONSISTING OF NO LESS THAN 10 CUBIC YARDS PER LOAD, PER DAY WHEN TRANSPORTING MATERIALS TO THE OPCAS FOR CONSOLIDATION.
16. CONTRACTOR SHALL INSTALL AN INTERIM COVER (E.G., POLYETHYLENE SHEETING) OVER WORK AREAS WHERE EXCAVATION ACTIVITIES ARE YET TO BE COMPLETED. THE INTERIM COVER SHALL BE PROPERLY ANCHORED TO RESIST WIND FORCES AND PREVENT STORMWATER FROM ENTERING SUCH WORK AREAS.
17. PAVEMENT SUBJECT TO PARTIAL REMOVAL SHALL BE REMOVED VIA SAW-CUT. RESTORATION SHALL MEET ALL LOCAL AND/OR STATE BUILDING CODES. CONTRACTOR SHALL OBTAIN ALL APPROPRIATE BUILDING PERMITS ASSOCIATED WITH RESTORATION ACTIVITIES.
18. WITHIN THE LIMITS OF EXCAVATION, THE CONTRACTOR SHALL RESTORE ALL PREVIOUSLY VEGETATED AREAS BY PLACING AND COMPACTING FILL MATERIALS (TO ACHIEVE A GRADE OF APPROXIMATELY 3 INCHES BELOW PRE-REMOVAL GRADE, WHERE APPROPRIATE), TOPSOIL, AND SEED. OTHER SURFACE FEATURES SHALL BE REPLACED OR RESTORED AS INDICATED.
19. UPON BACKFILLING OF EXCAVATED AREAS, THE CONTRACTOR SHALL MAINTAIN IN PLACE OR INSTALL ADDITIONAL EROSION CONTROLS IN THE LOCATIONS INDICATED ON EACH WORK SITE DRAWING. THE EROSION CONTROLS WILL BE REMOVED BY THE CONTRACTOR WHEN REQUESTED BY GE OR GE'S REPRESENTATIVE.
20. BACKFILLED AND RESTORED AREAS WILL BE SUBJECT TO FINAL SURVEY VERIFICATION (BY THE CONTRACTOR). THE CONTRACTOR SHALL REPAIR ANY ITEMS THAT ARE NOT RESTORED TO THE LOCATIONS AND/OR ELEVATIONS REQUIRED BY THIS CONTRACT.
21. THE CONTRACTOR SHALL RESTORE TO PRE-REMEDIATION CONDITIONS ALL SUPPORT AREAS THAT ARE IMPACTED BY REMEDIATION ACTIVITIES, INCLUDING EQUIPMENT AND MATERIALS STORAGE AREAS, SOIL LOADING AND STAGING AREAS, AND PARKING AREAS.
22. ALL EQUIPMENT OPERATED WITHIN THE LIMITS OF EXCAVATION SHALL BE CLEANED PRIOR TO USE OR STORAGE ELSEWHERE ON THE SITE OR TRANSPORTED OFF-SITE. A CONTAINED/LINED WHEEL WASH AREA SHALL BE PROVIDED BY THE CONTRACTOR TO BE USED AS NECESSARY FOR CLEANING EXCAVATION EQUIPMENT AND/OR TRANSPORTATION VEHICLES PRIOR TO THEIR REMOVAL FROM THE WORK SITE. WATER USED TO CLEAN EQUIPMENT SHALL BE RESTRICTED TO AND COLLECTED WITHIN A DESIGNATED EQUIPMENT CLEANING AREA. ALL SUCH WATERS SHALL BE CONTAINERIZED AND TRANSPORTED FOR APPROPRIATE OFF-SITE DISPOSAL/TREATMENT BY THE CONTRACTOR.
23. SELECT SITE FEATURES MAY OR MAY NOT BE SHOWN ON DRAWINGS (E.G., ADDITIONAL CONCRETE PADS, MANHOLES, ETC.). CONTRACTOR SHALL PROTECT THESE FEATURES AS REQUIRED (REFER TO DRAWINGS 7 THROUGH 9).




## ABOVE-GRADE ANCHOR TRENCH 5

NOT TO SCALE

X: 20705X00.DWG
L: ON=*, OFF=REF*
P: PAGESET/SYR-CDL
5/4/06 SYR-85-KMD LAF KMD
N/20705002/20705G03.DWG

| | | | |
|---|---|---|---|
| Graphic Scale: NOT TO SCALE | | | |
| THIS DRAWING WAS PREPARED AT THE SCALE INDICATED IN THE TITLE BLOCK. INACCURACIES IN THE STATED SCALE MAY BE INTRODUCED WHEN DRAWINGS ARE REPRODUCED. **USE THE GRAPHIC SCALE BAR IN THE TITLE BLOCK TO DETERMINE THE ACTUAL SCALE OF THIS DRAWING.** | 2 4/21/06 ADD DETAIL 5 CAA<br>1 7/6/05 FRONT OF BIRDHOUSE WIDTH CHANGED TO 6 1/2" ACC<br>Date Revisions Init<br> | Professional Engineer's Name<br>Professional Engineer's No.<br>State / Date Signed<br>Project Mgr.: ACC / Designed by: CAA / Drawn by: NES | BLASLAND, BOUCK & LEE, INC. engineers, scientists, economists |

GENERAL ELECTRIC COMPANY • PITTSFIELD, MASSACHUSETTS
NEWELL STREET AREA II RAA REMEDIAL ACTION

# GENERAL NOTES AND DETAILS

TECHNICAL DRAWINGS

BBL Project No. 301.93
Date MARCH 2005

Blasland, Bouck & Lee, Inc.
Corporate Headquarters
6723 Towpath Road
Syracuse, NY 13214
315-446-9120

# *Attachment B*

# PCB Spatial Averaging Evaluation Tables and Polygon Maps

BLASLAND, BOUCK & LEE, INC.
*engineers, scientists, economists*

**TABLE B-1**
**NEWELL STREET AREA II - EXISTING CONDITIONS (RESIDENTIAL)**
**J9-23-12 (AREA BETWEEN FENCE AND PROPERTY LINES) - 0- TO 1-FOOT DEPTH INCREMENT**

**NEWELL STREET AREA II**
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

**0- TO 0.5-FOOT DEPTH INCREMENT**

| Sample ID(s) | Polygon ID | Polygon Area (sq. ft.) | Sample Depth (ft.) | PCB Conc. (ppm) | Volume (cumulative) (cy) | Average PCB Concentration Per Foot | Average PCB Conc. TIMES Total Volume |
|---|---|---|---|---|---|---|---|
| 161-C5 | 43 | 1 | 0 - 0.5 | 7.1 | 0.02 | 7.10 | 0.17 |
| J9-23-10-SS-1 | 45 | 13 | 0 - 0.5 | 5.2 | 0.24 | 5.20 | 1.25 |
| J9-23-9-SB-2 | 36 | 32 | 0 - 0.5 | 10.4 | 0.59 | 10.40 | 6.10 |
| NS-153-C2 | 46, 46A | 37 | 0 - 0.5 | 5.2 | 0.69 | 5.20 | 3.58 |
| NS-21 | 51 | 25 | 0 - 0.5 | 0.47 | 0.47 | 0.47 | 0.22 |
| NS-22 | 50 | 15 | 0 - 0.5 | 3.6 | 0.28 | 3.60 | 1.01 |
| NS-22 (B) | 49 | 17 | 0 - 0.5 | 6.7 | 0.32 | 6.70 | 2.12 |
| NS-23 | 48 | 19 | 0 - 0.5 | 8.1 | 0.35 | 8.10 | 2.85 |
| NS-24 | 47 | 64 | 0 - 0.5 | 6.3 | 1.18 | 6.30 | 7.44 |
| NS-25 | 37 | 4 | 0 - 0.5 | ***0.021*** | 0.07 | 0.02 | 0.00 |
| NS-25 | 31 | 1 | 0 - 0.5 | 5.3 | 0.02 | 5.30 | 0.09 |
| RAA13-F94 | 27 | 2 | 0 - 0.5 | ***0.021*** | 0.04 | 0.02 | 0.00 |
| RAA13-F96 | 44 | 54 | 0 - 0.5 | 22 | 1.00 | 22.00 | 21.96 |
| **Totals:** | -- | 285 | -- | -- | 5.27 | -- | 46.78 |
| | | | | | **Volume Weighted Average:** | | **8.88** |

**0.5- TO 1-FOOT DEPTH INCREMENT**

| Sample ID(s) | Polygon ID | Polygon Area (sq. ft.) | Sample Depth (ft.) | PCB Conc. (ppm) | Volume (cumulative) (cy) | Average PCB Concentration Per Foot | Average PCB Conc. TIMES Total Volume |
|---|---|---|---|---|---|---|---|
| J9-23-10-SS-1 | 34 | 16 | 0.5 - 1 | 6.3 | 0.30 | 6.30 | 1.89 |
| J9-23-9-SB-2 | 23 | 86 | 0.5 - 1 | 1.86 | 1.59 | 1.86 | 2.97 |
| NS-153-C3 | 25 | 21 | 0.5 - 1 | 5.6 | 0.38 | 5.60 | 2.14 |
| NS-22 (B) | 27 | 38 | 0.5 - 1 | 6.11 | 0.70 | 6.11 | 4.30 |
| RAA13-F94 | 21 | 6 | 0.5 - 1 | ***0.021*** | 0.12 | 0.02 | 0.00 |
| RAA13-F96 | 29 | 117 | 0.5 - 1 | 22 | 2.17 | 22.00 | 47.80 |
| **Totals:** | -- | 285 | -- | -- | 5.27 | -- | 59.10 |
| | | | | | **Volume Weighted Average:** | | **11.21** |

**SUMMARY - 0- TO 1-FOOT DEPTH INCREMENT**

| Sample ID(s) | Polygon ID | Polygon Area (sq. ft.) | Sample Depth (ft.) | PCB Conc. (ppm) | Volume (cumulative) (cy) | Average PCB Concentration Per Foot | Average PCB Conc. TIMES Total Volume |
|---|---|---|---|---|---|---|---|
| **Totals:** | -- | 285 | -- | -- | 10.54 | -- | 105.88 |
| | | | | | **Volume Weighted Average:** | | **10.04** |

Notes:

1. Non-detectable PCBs included as one-half the detection limit in calculations and shown in bold.
2. For instances where a duplicate sample was available, the average of the samples was included in table.
3. All calculations and rounding are performed by the computer software. Therefore, certain quantities in above table are displayed as rounded numbers for table clarity.
4. Concentrations shown in bold and italics represent soil removal already completed during remedial actions at Newell Street Area II.

**TABLE B-2**
**NEWELL STREET AREA II - EXISTING CONDITIONS (RESIDENTIAL)**
**J9-23-12 (AREA BETWEEN FENCE AND PROPERTY LINES) - 1- TO X-FOOT DEPTH INCREMENT**

**NEWELL STREET AREA II**
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

**1- TO 2-FOOT DEPTH INCREMENT**

| Sample ID(s) | Polygon ID | Polygon Area (sq. ft.) | Sample Depth (ft.) | PCB Conc. (ppm) | Volume (cumulative) (cy) | Average PCB Concentration Per Foot | Average PCB Conc. TIMES Total Volume |
|---|---|---|---|---|---|---|---|
| J9-23-9-SB-2 | 23 | 101 | 1 - 2 | 1.86 | 3.75 | 1.86 | 6.97 |
| NS-22 (B) | 27 | 38 | 1 - 2 | 6.11 | 1.41 | 6.11 | 8.61 |
| NS-153-C3 | 25 | 27 | 1 - 2 | 0.74 | 1.00 | 0.74 | 0.74 |
| J9-23-10-SB-3 | 32 | 29 | 1 - 2 | 2 | 1.09 | 2.00 | 2.18 |
| J9-23-10-SB-7 | 30 | 86 | 1 - 2 | 0.81 | 3.19 | 0.81 | 2.58 |
| J9-23-12-SB-1 | 34 | 3 | 1 - 2 | 1.44 | 0.11 | 1.44 | 0.16 |
| **Totals:** | -- | 285 | -- | -- | 10.55 | -- | 21.24 |
| | | | | | **Volume Weighted Average:** | | **2.01** |

**2- TO 3-FOOT DEPTH INCREMENT**

| Sample ID(s) | Polygon ID | Polygon Area (sq. ft.) | Sample Depth (ft.) | PCB Conc. (ppm) | Volume (cumulative) (cy) | Average PCB Concentration Per Foot | Average PCB Conc. TIMES Total Volume |
|---|---|---|---|---|---|---|---|
| J9-23-9-SB-2 | 23 | 101 | 2 - 3 | 0.11 | 3.75 | 0.11 | 0.41 |
| NS-22 (B) | 27 | 38 | 2 - 3 | **0.125** | 1.41 | 0.13 | 0.18 |
| NS-153-C3 | 25 | 27 | 2 - 3 | **0.0215** | 1.00 | 0.02 | 0.02 |
| J9-23-10-SB-3 | 32 | 29 | 2 - 3 | 0.035 | 1.09 | 0.04 | 0.04 |
| J9-23-10-SB-7 | 30 | 86 | 2 - 3 | **0.009** | 3.19 | 0.01 | 0.03 |
| J9-23-12-SB-1 | 34 | 3 | 2 - 3 | 5.7 | 0.11 | 5.70 | 0.63 |
| **Totals:** | -- | 285 | -- | -- | 10.55 | -- | 1.31 |
| | | | | | **Volume Weighted Average:** | | **0.12** |

**3- TO 4-FOOT DEPTH INCREMENT**

| Sample ID(s) | Polygon ID | Polygon Area (sq. ft.) | Sample Depth (ft.) | PCB Conc. (ppm) | Volume (cumulative) (cy) | Average PCB Concentration Per Foot | Average PCB Conc. TIMES Total Volume |
|---|---|---|---|---|---|---|---|
| J9-23-9-SB-2 | 20 | 101 | 3 - 4 | 0.11 | 3.75 | 0.11 | 0.41 |
| NS-22 (B) | 24 | 38 | 3 - 4 | **0.125** | 1.41 | 0.13 | 0.18 |
| J9-23-12-SB-1 | 33 | 3 | 3 - 4 | 5.7 | 0.11 | 5.70 | 0.63 |
| NS-153-C3 | 22 | 27 | 3 - 4 | **0.0215** | 1.00 | 0.02 | 0.02 |
| J9-23-10-SB-3 | 29 | 29 | 3 - 4 | 0.035 | 1.09 | 0.04 | 0.04 |
| J9-23-10-SB-7 | 27 | 86 | 3 - 4 | **0.009** | 3.19 | 0.01 | 0.03 |
| **Totals:** | -- | 285 | -- | -- | 10.55 | -- | 1.31 |
| | | | | | **Volume Weighted Average:** | | **0.12** |

**4- TO 6-FOOT DEPTH INCREMENT**

| Sample ID(s) | Polygon ID | Polygon Area (sq. ft.) | Sample Depth (ft.) | PCB Conc. (ppm) | Volume (cumulative) (cy) | Average PCB Concentration Per Foot | Average PCB Conc. TIMES Total Volume |
|---|---|---|---|---|---|---|---|
| J9-23-9-SB-2 | 17 | 101 | 4 - 6 | **0.0195** | 7.49 | 0.02 | 0.15 |
| NS-22 (B) | 19 | 65 | 4 - 6 | **0.125** | 4.82 | 0.13 | 0.60 |
| J9-23-12-SB-1 | 28 | 3 | 4 - 6 | 0.46 | 0.22 | 0.46 | 0.10 |
| J9-23-10-SB-3 | 24 | 29 | 4 - 6 | 0.04 | 2.18 | 0.04 | 0.09 |
| J9-23-10-SB-7 | 22 | 86 | 4 - 6 | **0.009** | 6.37 | 0.01 | 0.06 |
| **Totals:** | -- | 285 | -- | -- | 21.09 | -- | 1.00 |
| | | | | | **Volume Weighted Average:** | | **0.05** |

**TABLE B-2**
**NEWELL STREET AREA II - EXISTING CONDITIONS (RESIDENTIAL)**
**J9-23-12 (AREA BETWEEN FENCE AND PROPERTY LINES) - 1- TO X-FOOT DEPTH INCREMENT**

**NEWELL STREET AREA II**
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

**6- TO 8-FOOT DEPTH INCREMENT**

| Sample ID(s) | Polygon ID | Polygon Area (sq. ft.) | Sample Depth (ft.) | PCB Conc. (ppm) | Volume (cumulative) (cy) | Average PCB Concentration Per Foot | Average PCB Conc. TIMES Total Volume |
|---|---|---|---|---|---|---|---|
| J9-23-9-SB-2 | 14 | 124 | 6 - 8 | **0.019** | 9.15 | 0.02 | 0.17 |
| NS-22 (B) | 16 | 65 | 6 - 8 | **0.125** | 4.82 | 0.13 | 0.60 |
| J9-23-12-SB-1 | 23 | 3 | 6 - 8 | **0.0205** | 0.22 | 0.02 | 0.00 |
| J9-23-10-SB-3 | 19 | 93 | 6 - 8 | 0.043 | 6.90 | 0.04 | 0.30 |
| **Totals:** | -- | 285 | -- | -- | 21.09 | -- | 1.08 |
| | | | | | **Volume Weighted Average:** | | **0.05** |

**8- TO 10-FOOT DEPTH INCREMENT**

| Sample ID(s) | Polygon ID | Polygon Area (sq. ft.) | Sample Depth (ft.) | PCB Conc. (ppm) | Volume (cumulative) (cy) | Average PCB Concentration Per Foot | Average PCB Conc. TIMES Total Volume |
|---|---|---|---|---|---|---|---|
| J9-23-9-SB-2 | 14 | 174 | 8 - 10 | **0.0205** | 12.87 | 0.02 | 0.26 |
| J9-23-12-SB-1 | 19 | 46 | 8 - 10 | **0.0205** | 3.40 | 0.02 | 0.07 |
| NS-22 (B) | 16 | 65 | 8 - 10 | **0.125** | 4.82 | 0.13 | 0.60 |
| **Totals:** | -- | 285 | -- | -- | 21.09 | -- | 0.94 |
| | | | | | **Volume Weighted Average:** | | **0.04** |

**10- TO 12-FOOT DEPTH INCREMENT**

| Sample ID(s) | Polygon ID | Polygon Area (sq. ft.) | Sample Depth (ft.) | PCB Conc. (ppm) | Volume (cumulative) (cy) | Average PCB Concentration Per Foot | Average PCB Conc. TIMES Total Volume |
|---|---|---|---|---|---|---|---|
| J9-23-12-SB-1 | 10 | 66 | 10 - 12 | 0.019 | 4.92 | 0.02 | 0.09 |
| RAA13-F95 | 8 | 218 | 10 - 12 | 0.082 | 16.17 | 0.08 | 1.33 |
| **Totals:** | -- | 285 | -- | -- | 21.09 | -- | 1.42 |
| | | | | | **Volume Weighted Average:** | | **0.07** |

**12- TO 14-FOOT DEPTH INCREMENT**

| Sample ID(s) | Polygon ID | Polygon Area (sq. ft.) | Sample Depth (ft.) | PCB Conc. (ppm) | Volume (cumulative) (cy) | Average PCB Concentration Per Foot | Average PCB Conc. TIMES Total Volume |
|---|---|---|---|---|---|---|---|
| J9-23-12-SB-1 | 10 | 66 | 12 - 14 | 0.013 | 4.92 | 0.01 | 0.06 |
| RAA13-F95 | 8 | 218 | 12 - 14 | 0.082 | 16.17 | 0.08 | 1.33 |
| **Totals:** | -- | 285 | -- | -- | 21.09 | -- | 1.39 |
| | | | | | **Volume Weighted Average:** | | **0.07** |

**14- TO 15-FOOT DEPTH INCREMENT**

| Sample ID(s) | Polygon ID | Polygon Area (sq. ft.) | Sample Depth (ft.) | PCB Conc. (ppm) | Volume (cumulative) (cy) | Average PCB Concentration Per Foot | Average PCB Conc. TIMES Total Volume |
|---|---|---|---|---|---|---|---|
| J9-23-12-SB-1 | 10 | 66 | 14 - 15 | 0.037 | 2.46 | 0.04 | 0.09 |
| RAA13-F95 | 8 | 218 | 14 - 15 | 0.082 | 8.09 | 0.08 | 0.66 |
| **Totals:** | -- | 285 | -- | -- | 10.55 | -- | 0.75 |
| | | | | | **Volume Weighted Average:** | | **0.07** |

**TABLE B-2**
**NEWELL STREET AREA II - EXISTING CONDITIONS (RESIDENTIAL)**
**J9-23-12 (AREA BETWEEN FENCE AND PROPERTY LINES) - 1- TO X-FOOT DEPTH INCREMENT**

**NEWELL STREET AREA II**
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

**SUMMARY - 1- TO X-FOOT DEPTH INCREMENT**

| Sample ID(s) | Polygon ID | Polygon Area (sq. ft.) | Sample Depth (ft.) | PCB Conc. (ppm) | Volume (cumulative) (cy) | Average PCB Concentration Per Foot | Average PCB Conc. TIMES Total Volume |
|---|---|---|---|---|---|---|---|
| **Totals:** | -- | 285 | -- | -- | 147.64 | -- | 29.12 |
| | | | | | **Volume Weighted Average:** | | **0.20** |

Notes:

1. Non-detectable PCBs included as one-half the detection limit in calculations and shown in bold.
2. For instances where a duplicate sample was available, the average of the samples was included in table.
3. All calculations and rounding are performed by the computer software. Therefore, certain quantities in above table are displayed as rounded numbers for table clarity.

**TABLE B-3**
**NEWELL STREET AREA II - POST-REMEDIATION CONDITIONS (RESIDENTIAL)**
**J9-23-12 (AREA BETWEEN FENCE AND PROPERTY LINES) - 0- TO 1-FOOT DEPTH INCREMENT**

**NEWELL STREET AREA II**
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

**0- TO 0.5-FOOT DEPTH INCREMENT**

| Sample ID(s) | Polygon ID | Polygon Area (sq. ft.) | Sample Depth (ft.) | PCB Conc. (ppm) | Volume (cumulative) (cy) | Average PCB Concentration Per Foot | Average PCB Conc. TIMES Total Volume |
|---|---|---|---|---|---|---|---|
| 161-C5 | 43 | 1 | 0 - 0.5 | ***0.021*** | 0.02 | 0.02 | 0.00 |
| J9-23-10-SS-1 | 45 | 13 | 0 - 0.5 | 5.2 | 0.24 | 5.20 | 1.25 |
| J9-23-9-SB-2 | 36 | 32 | 0 - 0.5 | ***0.021*** | 0.59 | 0.02 | 0.01 |
| NS-153-C2 | 46 | 34 | 0 - 0.5 | ***0.021*** | 0.63 | 0.02 | 0.01 |
| NS-153-C2 | 46A | 3 | 0 - 0.5 | 5.2 | 0.06 | 5.20 | 0.31 |
| NS-21 | 51 | 25 | 0 - 0.5 | 0.47 | 0.47 | 0.47 | 0.22 |
| NS-22 | 50 | 15 | 0 - 0.5 | 3.6 | 0.28 | 3.60 | 1.01 |
| NS-22 (B) | 49 | 17 | 0 - 0.5 | 6.7 | 0.32 | 6.70 | 2.12 |
| NS-23 | 48 | 19 | 0 - 0.5 | ***0.021*** | 0.35 | 0.02 | 0.01 |
| NS-24 | 47 | 64 | 0 - 0.5 | ***0.021*** | 1.18 | 0.02 | 0.02 |
| NS-25 | 31 | 1 | 0 - 0.5 | 5.3 | 0.02 | 5.30 | 0.09 |
| NS-25 | 37 | 4 | 0 - 0.5 | ***0.021*** | 0.07 | 0.02 | 0.00 |
| RAA13-F94 | 27 | 2 | 0 - 0.5 | ***0.021*** | 0.04 | 0.02 | 0.00 |
| RAA13-F96 | 44 | 54 | 0 - 0.5 | ***0.021*** | 1.00 | 0.02 | 0.02 |
| **Totals:** | -- | 285 | -- | -- | 5.27 | -- | 5.09 |
| | | | | | **Volume Weighted Average:** | | **0.97** |

**0.5- TO 1-FOOT DEPTH INCREMENT**

| Sample ID(s) | Polygon ID | Polygon Area (sq. ft.) | Sample Depth (ft.) | PCB Conc. (ppm) | Volume (cumulative) (cy) | Average PCB Concentration Per Foot | Average PCB Conc. TIMES Total Volume |
|---|---|---|---|---|---|---|---|
| J9-23-10-SS-1 | 34 | 16 | 0.5 - 1 | 6.3 | 0.30 | 6.30 | 1.89 |
| J9-23-9-SB-2 | 23 | 86 | 0.5 - 1 | ***0.021*** | 1.59 | 0.02 | 0.03 |
| NS-153-C3 | 25 | 21 | 0.5 - 1 | 5.6 | 0.38 | 5.60 | 2.14 |
| NS-22 (B) | 27 | 38 | 0.5 - 1 | 6.11 | 0.70 | 6.11 | 4.30 |
| RAA13-F94 | 21 | 6 | 0.5 - 1 | ***0.021*** | 0.12 | 0.02 | 0.00 |
| RAA13-F96 | 29 | 117 | 0.5 - 1 | ***0.021*** | 2.17 | 0.02 | 0.05 |
| **Totals:** | -- | 285 | -- | -- | 5.27 | -- | 8.42 |
| | | | | | **Volume Weighted Average:** | | **1.60** |

**SUMMARY - 0- TO 1-FOOT DEPTH INCREMENT**

| Sample ID(s) | Polygon ID | Polygon Area (sq. ft.) | Sample Depth (ft.) | PCB Conc. (ppm) | Volume (cumulative) (cy) | Average PCB Concentration Per Foot | Average PCB Conc. TIMES Total Volume |
|---|---|---|---|---|---|---|---|
| **Totals:** | -- | 285 | -- | -- | 10.54 | -- | 13.51 |
| | | | | | **Volume Weighted Average:** | | **1.28** |

Notes:

1. Non-detectable PCBs included as one-half the detection limit in calculations and shown in bold.
2. For instances where a duplicate sample was available, the average of the samples was included in table.
3. All calculations and rounding are performed by the computer software. Therefore, certain quantities in above table are displayed as rounded numbers for table clarity.
4. Concentrations shown in bold and italics represent soil removal already completed during remedial actions at Newell Street Area II.
5. Shaded numbers in bold and italics represent the placement of clean backfill material following the performance of the proposed remediation. The backfill concentration corresponds to the average PCB concentration as presented in the CD Sites Backfill Data Set.

**TABLE B-4**
**NEWELL STREET AREA II - EXISTING CONDITIONS (RECREATIONAL)**
**5-FOOT BUFFER STRIP - 0- TO 1-FOOT DEPTH INCREMENT**

**NEWELL STREET AREA II**
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

**0- TO 0.5-FOOT DEPTH INCREMENT**

| Sample ID(s) | Polygon ID | Polygon Area (sq. ft.) | Sample Depth (ft.) | PCB Conc. (ppm) | Volume (cumulative) (cy) | Average PCB Concentration Per Foot | Average PCB Conc. TIMES Total Volume |
|---|---|---|---|---|---|---|---|
| 161-C1 | 32A | 1 | 0 - 0.5 | 7.3 | 0.01 | 7.30 | 0.09 |
| 161-C3 | 32 | 212 | 0 - 0.5 | 8.1 | 3.92 | 8.10 | 31.74 |
| 161-C5 | 42 | 143 | 0 - 0.5 | 7.1 | 2.64 | 7.10 | 18.74 |
| J9-23-9-SB-2 | 40 | 33 | 0 - 0.5 | 10.4 | 0.62 | 10.40 | 6.45 |
| NS-153-C2 | 53 | 1 | 0 - 0.5 | 5.2 | 0.02 | 5.20 | 0.10 |
| NS-21 | 38 | 29 | 0 - 0.5 | ***0.021*** | 0.54 | 0.02 | 0.01 |
| NS-21 | 39 | 80 | 0 - 0.5 | 0.47 | 1.49 | 0.47 | 0.70 |
| NS-22 | 34 | 83 | 0 - 0.5 | 3.6 | 1.54 | 3.60 | 5.55 |
| NS-22 (B) | 52 | 2 | 0 - 0.5 | 6.7 | 0.03 | 6.70 | 0.21 |
| NS-23 | 33 | 66 | 0 - 0.5 | 8.1 | 1.23 | 8.10 | 9.96 |
| NS-24 | 41 | 116 | 0 - 0.5 | 6.3 | 2.15 | 6.30 | 13.52 |
| NS-25 | 29 | 1 | 0 - 0.5 | ***0.021*** | 0.02 | 0.02 | 0.00 |
| RAA13-F94 | 28 | 30 | 0 - 0.5 | ***0.021*** | 0.56 | 0.02 | 0.01 |
| RAA13-F96 | 35 | 186 | 0 - 0.5 | 22 | 3.45 | 22.00 | 75.96 |
| **Totals:** | -- | 984 | -- | -- | 18.22 | -- | 163.03 |
| | | | | | **Volume Weighted Average:** | | **8.95** |

**0.5- TO 1-FOOT DEPTH INCREMENT**

| Sample ID(s) | Polygon ID | Polygon Area (sq. ft.) | Sample Depth (ft.) | PCB Conc. (ppm) | Volume (cumulative) (cy) | Average PCB Concentration Per Foot | Average PCB Conc. TIMES Total Volume |
|---|---|---|---|---|---|---|---|
| GE-9 | 31A | 139 | 0.5 - 1 | 3.3 | 2.57 | 3.30 | 8.48 |
| J9-23-9-SB-2 | 28 | 157 | 0.5 - 1 | 1.86 | 2.91 | 1.86 | 5.42 |
| J9-23-10-SB-3 | 31 | 133 | 0.5 - 1 | 2 | 2.46 | 2.00 | 4.91 |
| NS-153-C3 | 24 | 54 | 0.5 - 1 | 5.6 | 0.99 | 5.60 | 5.55 |
| NS-22 (B) | 26 | 105 | 0.5 - 1 | 6.11 | 1.95 | 6.11 | 11.91 |
| RAA13-F94 | 20 | 61 | 0.5 - 1 | ***0.021*** | 1.13 | 0.02 | 0.02 |
| RAA13-F96 | 22 | 336 | 0.5 - 1 | 22 | 6.21 | 22.00 | 136.72 |
| **Totals:** | -- | 984 | -- | -- | 18.22 | -- | 173.02 |
| | | | | | **Volume Weighted Average:** | | **9.50** |

**SUMMARY - 0- TO 1-FOOT DEPTH INCREMENT**

| Sample ID(s) | Polygon ID | Polygon Area (sq. ft.) | Sample Depth (ft.) | PCB Conc. (ppm) | Volume (cumulative) (cy) | Average PCB Concentration Per Foot | Average PCB Conc. TIMES Total Volume |
|---|---|---|---|---|---|---|---|
| **Totals:** | -- | 984 | -- | -- | 36.44 | -- | 336.05 |
| | | | | | **Volume Weighted Average:** | | **9.22** |

Notes:

1. Non-detectable PCBs included as one-half the detection limit in calculations and shown in bold.
2. For instances where a duplicate sample was available, the average of the samples was included in table.
3. All calculations and rounding are performed by the computer software. Therefore, certain quantities in above table are displayed as rounded numbers for table clarity.
4. Concentrations shown in bold and italics represent soil removal already completed during remedial actions at Newell Street Area II.

**TABLE B-5**
**NEWELL STREET AREA II - EXISTING CONDITIONS (RECREATIONAL)**
**5-FOOT BUFFER STRIP - 1- TO 3-FOOT DEPTH INCREMENT**

**NEWELL STREET AREA II**
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

**1- TO 2-FOOT DEPTH INCREMENT**

| Sample ID(s) | Polygon ID | Polygon Area (sq. ft.) | Sample Depth (ft.) | PCB Conc. (ppm) | Volume (cumulative) (cy) | Average PCB Concentration Per Foot | Average PCB Conc. TIMES Total Volume |
|---|---|---|---|---|---|---|---|
| J9-23-9-SB-2 | 28 | 190 | 1 - 2 | 1.86 | 7.03 | 1.86 | 13.08 |
| J9-23-10-SB-3 | 31 | 97 | 1 - 2 | 2 | 3.60 | 2.00 | 7.21 |
| J9-23-10-SB-7 | 29 | 104 | 1 - 2 | 0.81 | 3.86 | 0.81 | 3.13 |
| J9-23-12-SB-1 | 33 | 160 | 1 - 2 | 1.44 | 5.93 | 1.44 | 8.54 |
| J9-23-12-SB-2 | 36 | 213 | 1 - 2 | 5.2 | 7.88 | 5.20 | 40.95 |
| NS-153-C3 | 24 | 114 | 1 - 2 | 0.74 | 4.23 | 0.74 | 3.13 |
| NS-22 (B) | 26 | 105 | 1 - 2 | 6.11 | 3.90 | 6.11 | 23.82 |
| **Totals:** | -- | 984 | -- | -- | 36.43 | -- | 99.86 |
| | | | | | **Volume Weighted Average:** | | **2.74** |

**2- TO 3-FOOT DEPTH INCREMENT**

| Sample ID(s) | Polygon ID | Polygon Area (sq. ft.) | Sample Depth (ft.) | PCB Conc. (ppm) | Volume (cumulative) (cy) | Average PCB Concentration Per Foot | Average PCB Conc. TIMES Total Volume |
|---|---|---|---|---|---|---|---|
| J9-23-9-SB-2 | 28 | 190 | 2 - 3 | 0.11 | 7.03 | 0.11 | 0.77 |
| J9-23-10-SB-3 | 31 | 97 | 2 - 3 | 0.035 | 3.60 | 0.04 | 0.13 |
| J9-23-10-SB-7 | 29 | 104 | 2 - 3 | **0.009** | 3.86 | 0.01 | 0.03 |
| J9-23-12-SB-1 | 33 | 160 | 2 - 3 | 5.7 | 5.93 | 5.70 | 33.80 |
| J9-23-12-SB-2 | 36 | 213 | 2 - 3 | 14.2 | 7.88 | 14.20 | 111.83 |
| NS-153-C3 | 24 | 114 | 2 - 3 | **0.0215** | 4.23 | 0.02 | 0.09 |
| NS-22 (B) | 26 | 105 | 2 - 3 | **0.125** | 3.90 | 0.13 | 0.49 |
| **Totals:** | -- | 984 | -- | -- | 36.43 | -- | 147.15 |
| | | | | | **Volume Weighted Average:** | | **4.04** |

**SUMMARY - 1- TO 3-FOOT DEPTH INCREMENT**

| Sample ID(s) | Polygon ID | Polygon Area (sq. ft.) | Sample Depth (ft.) | PCB Conc. (ppm) | Volume (cumulative) (cy) | Average PCB Concentration Per Foot | Average PCB Conc. TIMES Total Volume |
|---|---|---|---|---|---|---|---|
| **Totals:** | -- | 984 | -- | -- | 72.87 | -- | 247.01 |
| | | | | | **Volume Weighted Average:** | | **3.39** |

Notes:

1. Non-detectable PCBs included as one-half the detection limit in calculations and shown in bold.
2. For instances where a duplicate sample was available, the average of the samples was included in table.
3. All calculations and rounding are performed by the computer software. Therefore, certain quantities in above table are displayed as rounded numbers for table clarity.

**TABLE B-6**
**NEWELL STREET AREA II - EXISTING CONDITIONS (RECREATIONAL)**
**5-FOOT BUFFER STRIP - 0- TO 15-FOOT DEPTH INCREMENT**

**NEWELL STREET AREA II**
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

**SUMMARY - 0- TO 1-FOOT DEPTH INCREMENT (Table B-4)**

| Sample ID(s) | Polygon ID | Polygon Area (sq. ft.) | Sample Depth (ft.) | PCB Conc. (ppm) | Volume (cumulative) (cy) | Average PCB Concentration Per Foot | Average PCB Conc. TIMES Total Volume |
|---|---|---|---|---|---|---|---|
| **Totals:** | -- | 984 | -- | -- | 36.44 | -- | 336.05 |
| | | | | | **Volume Weighted Average:** | | **9.22** |

**1- TO 3-FOOT DEPTH INCREMENT (Table B-5)**

| Sample ID(s) | Polygon ID | Polygon Area (sq. ft.) | Sample Depth (ft.) | PCB Conc. (ppm) | Volume (cumulative) (cy) | Average PCB Concentration Per Foot | Average PCB Conc. TIMES Total Volume |
|---|---|---|---|---|---|---|---|
| **Totals:** | -- | 984 | -- | -- | 72.87 | -- | 247.01 |
| | | | | | **Volume Weighted Average:** | | **3.39** |

**3- TO 4-FOOT DEPTH INCREMENT**

| Sample ID(s) | Polygon ID | Polygon Area (sq. ft.) | Sample Depth (ft.) | PCB Conc. (ppm) | Volume (cumulative) (cy) | Average PCB Concentration Per Foot | Average PCB Conc. TIMES Total Volume |
|---|---|---|---|---|---|---|---|
| J9-23-9-SB-2 | 25 | 190 | 3 - 4 | 0.11 | 7.03 | 0.11 | 0.77 |
| J9-23-10-SB-3 | 28 | 97 | 3 - 4 | 0.035 | 3.61 | 0.04 | 0.13 |
| J9-23-10-SB-7 | 26 | 104 | 3 - 4 | **0.009** | 3.86 | 0.01 | 0.03 |
| J9-23-12-SB-1 | 32 | 160 | 3 - 4 | 5.7 | 5.93 | 5.70 | 33.80 |
| J9-23-12-SB-2 | 31 | 213 | 3 - 4 | 14.2 | 7.88 | 14.20 | 111.83 |
| NS-153-C3 | 21 | 114 | 3 - 4 | **0.0215** | 4.23 | 0.02 | 0.09 |
| NS-22 (B) | 23 | 105 | 3 - 4 | **0.125** | 3.90 | 0.13 | 0.49 |
| **Totals:** | -- | 984 | -- | -- | 36.44 | -- | 147.15 |
| | | | | | **Volume Weighted Average:** | | **4.04** |

**4- TO 6-FOOT DEPTH INCREMENT**

| Sample ID(s) | Polygon ID | Polygon Area (sq. ft.) | Sample Depth (ft.) | PCB Conc. (ppm) | Volume (cumulative) (cy) | Average PCB Concentration Per Foot | Average PCB Conc. TIMES Total Volume |
|---|---|---|---|---|---|---|---|
| J9-23-9-SB-2 | 20 | 190 | 4 - 6 | **0.0195** | 14.06 | 0.02 | 0.27 |
| J9-23-10-SB-3 | 23 | 97 | 4 - 6 | 0.04 | 7.21 | 0.04 | 0.29 |
| J9-23-10-SB-7 | 21 | 104 | 4 - 6 | **0.009** | 7.72 | 0.01 | 0.07 |
| J9-23-12-SB-1 | 27 | 160 | 4 - 6 | 0.46 | 11.86 | 0.46 | 5.46 |
| J9-23-12-SB-2 | 26 | 213 | 4 - 6 | 76 | 15.75 | 76.00 | 1,197.08 |
| NS-22 (B) | 18 | 220 | 4 - 6 | **0.125** | 16.26 | 0.13 | 2.03 |
| **Totals:** | -- | 984 | -- | -- | 72.87 | -- | 1,205.21 |
| | | | | | **Volume Weighted Average:** | | **16.54** |

**TABLE B-6**
**NEWELL STREET AREA II - EXISTING CONDITIONS (RECREATIONAL)**
**5-FOOT BUFFER STRIP - 0- TO 15-FOOT DEPTH INCREMENT**

**NEWELL STREET AREA II**
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

**6- TO 8-FOOT DEPTH INCREMENT**

| Sample ID(s) | Polygon ID | Polygon Area (sq. ft.) | Sample Depth (ft.) | PCB Conc. (ppm) | Volume (cumulative) (cy) | Average PCB Concentration Per Foot | Average PCB Conc. TIMES Total Volume |
|---|---|---|---|---|---|---|---|
| J9-23-9-SB-2 | 17 | 212 | 6 - 8 | **0.019** | 15.68 | 0.02 | 0.30 |
| J9-23-10-SB-3 | 18 | 180 | 6 - 8 | 0.043 | 13.33 | 0.04 | 0.57 |
| J9-23-12-SB-1 | 22 | 160 | 6 - 8 | **0.0205** | 11.86 | 0.02 | 0.24 |
| J9-23-12-SB-2 | 21 | 213 | 6 - 8 | 350 | 15.75 | 350.00 | 5,512.89 |
| NS-22 (B) | 15 | 220 | 6 - 8 | **0.125** | 16.26 | 0.13 | 2.03 |
| **Totals:** | -- | 984 | -- | -- | 72.89 | -- | 5,516.04 |
| | | | | | **Volume Weighted Average:** | | **75.68** |

**8- TO 10-FOOT DEPTH INCREMENT**

| Sample ID(s) | Polygon ID | Polygon Area (sq. ft.) | Sample Depth (ft.) | PCB Conc. (ppm) | Volume (cumulative) (cy) | Average PCB Concentration Per Foot | Average PCB Conc. TIMES Total Volume |
|---|---|---|---|---|---|---|---|
| J9-23-9-SB-2 | 17 | 267 | 8 - 10 | **0.0205** | 19.79 | 0.02 | 0.41 |
| J9-23-12-SB-1 | 21 | 285 | 8 - 10 | **0.0205** | 21.08 | 0.02 | 0.43 |
| J9-23-12-SB-2 | 18 | 213 | 8 - 10 | 6.7 | 15.75 | 6.70 | 105.53 |
| NS-22 (B) | 15 | 220 | 8 - 10 | **0.125** | 16.27 | 0.13 | 2.03 |
| **Totals:** | -- | 984 | -- | -- | 72.89 | -- | 108.40 |
| | | | | | **Volume Weighted Average:** | | **1.49** |

**10- TO 12-FOOT DEPTH INCREMENT**

| Sample ID(s) | Polygon ID | Polygon Area (sq. ft.) | Sample Depth (ft.) | PCB Conc. (ppm) | Volume (cumulative) (cy) | Average PCB Concentration Per Foot | Average PCB Conc. TIMES Total Volume |
|---|---|---|---|---|---|---|---|
| J9-23-12-SB-2 | 9 | 213 | 10 - 12 | 31 | 15.75 | 31.00 | 488.28 |
| J9-23-12-SB-1 | 6 | 306 | 10 - 12 | 0.019 | 22.69 | 0.02 | 0.43 |
| RAA13-F95 | 7 | 465 | 10 - 12 | 0.082 | 34.45 | 0.08 | 2.82 |
| **Totals:** | -- | 984 | -- | -- | 72.89 | -- | 491.54 |
| | | | | | **Volume Weighted Average:** | | **6.74** |

**12- TO 14-FOOT DEPTH INCREMENT**

| Sample ID(s) | Polygon ID | Polygon Area (sq. ft.) | Sample Depth (ft.) | PCB Conc. (ppm) | Volume (cumulative) (cy) | Average PCB Concentration Per Foot | Average PCB Conc. TIMES Total Volume |
|---|---|---|---|---|---|---|---|
| J9-23-12-SB-2 | 9 | 213 | 12 - 14 | 40 | 15.75 | 40.00 | 630.04 |
| J9-23-12-SB-1 | 6 | 306 | 12 - 14 | 0.013 | 22.69 | 0.01 | 0.30 |
| RAA13-F95 | 7 | 465 | 12 - 14 | 0.082 | 34.45 | 0.08 | 2.82 |
| **Totals:** | -- | 984 | -- | -- | 72.89 | -- | 633.16 |
| | | | | | **Volume Weighted Average:** | | **8.69** |

**14- TO 15-FOOT DEPTH INCREMENT**

| Sample ID(s) | Polygon ID | Polygon Area (sq. ft.) | Sample Depth (ft.) | PCB Conc. (ppm) | Volume (cumulative) (cy) | Average PCB Concentration Per Foot | Average PCB Conc. TIMES Total Volume |
|---|---|---|---|---|---|---|---|
| J9-23-12-SB-2 | 9 | 213 | 14 - 15 | 1.3 | 7.88 | 1.30 | 10.24 |
| J9-23-12-SB-1 | 6 | 306 | 14 - 15 | 0.037 | 11.35 | 0.04 | 0.42 |
| RAA13-F95 | 7 | 465 | 14 - 15 | 0.082 | 17.22 | 0.08 | 1.41 |
| **Totals:** | -- | 984 | -- | -- | 36.45 | -- | 12.07 |
| | | | | | **Volume Weighted Average:** | | **0.33** |

**TABLE B-6**
**NEWELL STREET AREA II - EXISTING CONDITIONS (RECREATIONAL)**
**5-FOOT BUFFER STRIP - 0- TO 15-FOOT DEPTH INCREMENT**

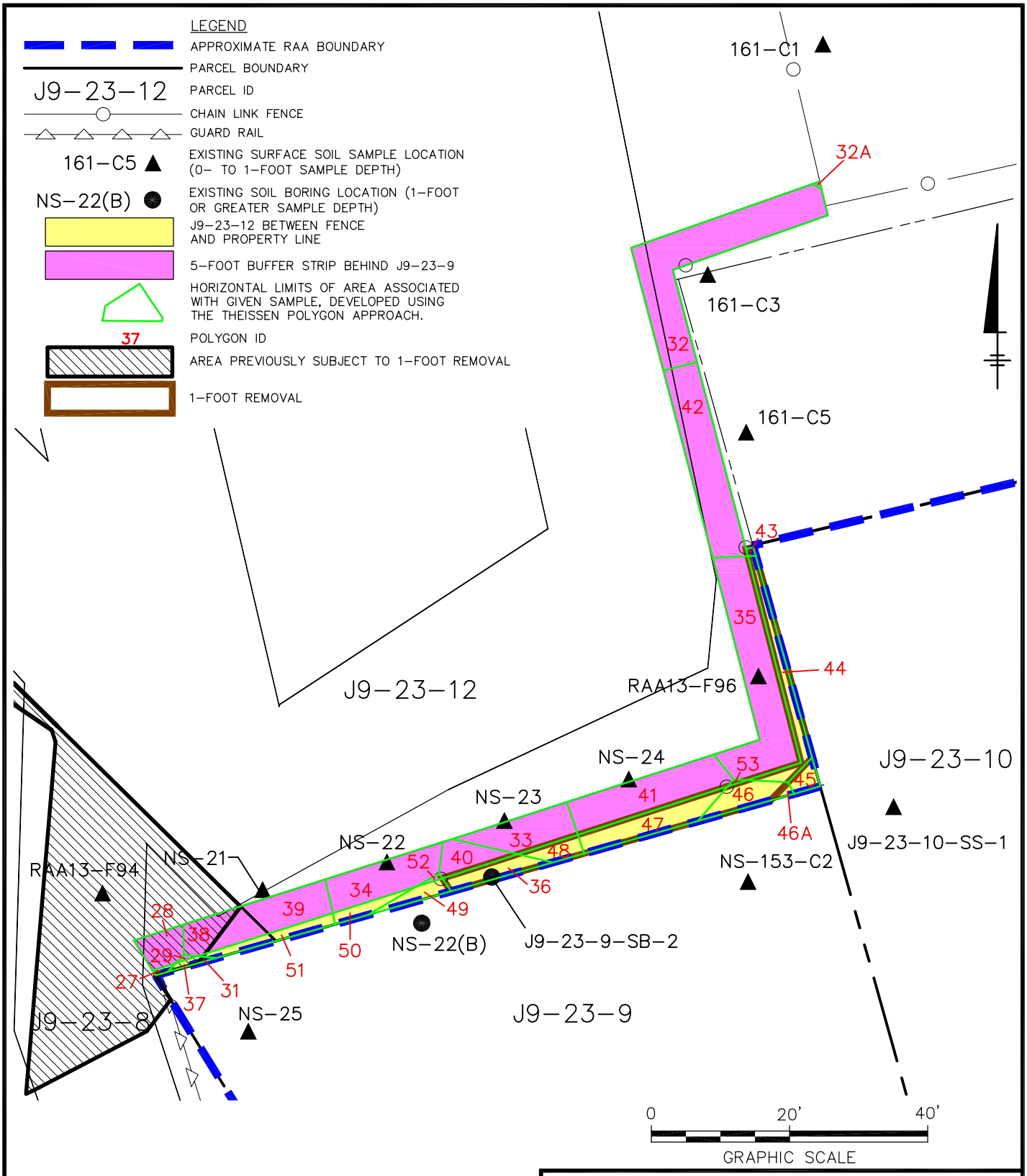
**NEWELL STREET AREA II**
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

**SUMMARY - 1- TO X-FOOT DEPTH INCREMENT**

| Sample ID(s) | Polygon ID | Polygon Area (sq. ft.) | Sample Depth (ft.) | PCB Conc. (ppm) | Volume (cumulative) (cy) | Average PCB Concentration Per Foot | Average PCB Conc. TIMES Total Volume |
|---|---|---|---|---|---|---|---|
| **Totals:** | -- | 984 | -- | -- | 546.63 | -- | 8,696.63 |
| | | | | | **Volume Weighted Average:** | | **15.91** |

Notes:

1. Non-detectable PCBs included as one-half the detection limit in calculations and shown in bold.
2. For instances where a duplicate sample was available, the average of the samples was included in table.
3. All calculations and rounding are performed by the computer software. Therefore, certain quantities in above table are displayed as rounded numbers for table clarity.




NOTES:

1. BASE MAP MODIFIED FROM SURVEY BY HILL ENGINEERS, ARCHITECTS & PLANNERS, DATED 12/9/03. LIMITS OF HOUSATONIC RIVER ARE APPROXIMATE.
2. CERTAIN SAMPLING LOCATIONS HAVE BEEN SURVEYED TO KNOWN PHYSICAL FEATURES BY BLASLAND, BOUCK & LEE, INC. AND HILL ENGINEERS, ARCHITECTS, PLANNERS, INC. ALL SAMPLING LOCATIONS SHOWN ON THIS MAPPING ARE APPROXIMATE. HOWEVER SURVEY DATA ARE AVAILABLE FOR CERTAIN OF THESE SAMPLING LOCATIONS TO IDENTIFY PRECISE LOCATIONS.

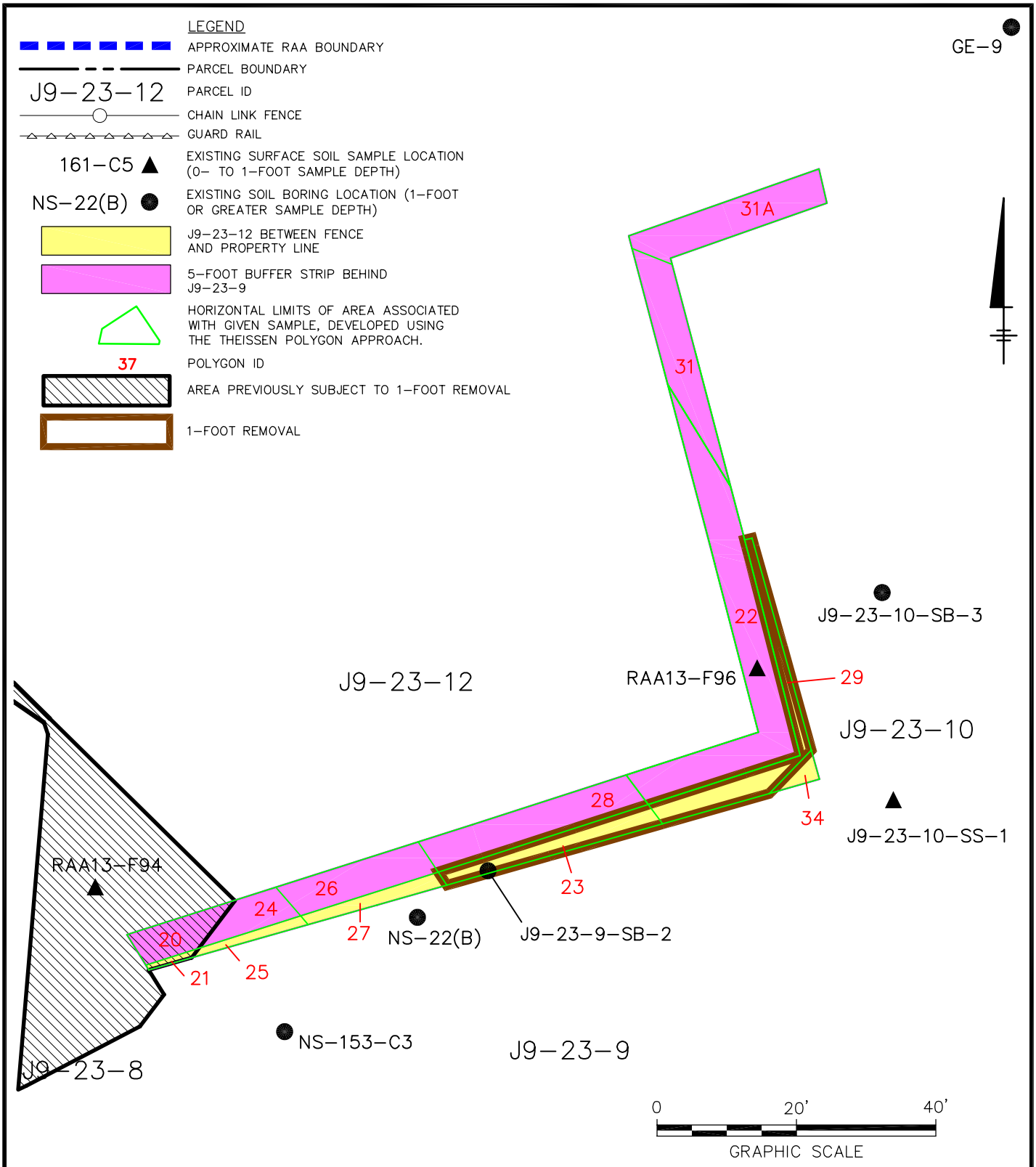
X: 20705X03.DWG
P: PAGESET/SYR–AP
5/4/06 SYR–85–DWM GMS KMD
N/20705002/20705B01.DWG

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
**NEWELL STREET AREA II**

# THEISSEN POLYGON MAP
# 0- TO 0.5-FOOT DEPTH INCREMENT

BBL BLASLAND, BOUCK & LEE, INC. engineers, scientists, economists

FIGURE
**B-1**




NOTES:

1. BASE MAP MODIFIED FROM SURVEY BY HILL ENGINEERS, ARCHITECTS & PLANNERS, DATED 12/9/03. LIMITS OF HOUSATONIC RIVER ARE APPROXIMATE.
2. CERTAIN SAMPLING LOCATIONS HAVE BEEN SURVEYED TO KNOWN PHYSICAL FEATURES BY BLASLAND, BOUCK & LEE, INC. AND HILL ENGINEERS, ARCHITECTS, PLANNERS, INC. ALL SAMPLING LOCATIONS SHOWN ON THIS MAPPING ARE APPROXIMATE. HOWEVER SURVEY DATA ARE AVAILABLE FOR CERTAIN OF THESE SAMPLING LOCATIONS TO IDENTIFY PRECISE LOCATIONS.

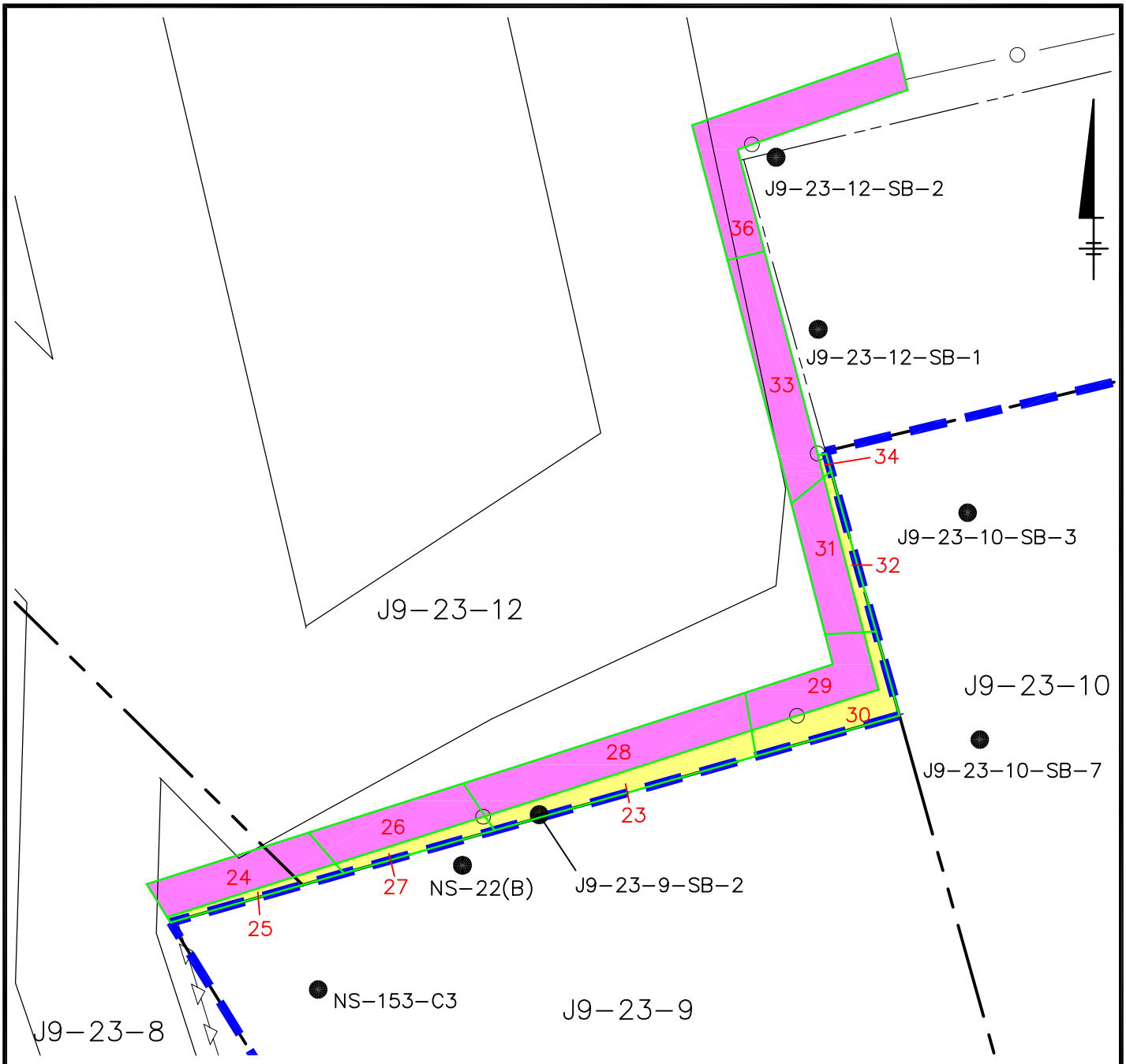
GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
**NEWELL STREET AREA II**

# THEISSEN POLYGON MAP
# 0.5- TO 1-FOOT DEPTH INCREMENT

BBL BLASLAND, BOUCK & LEE, INC. engineers, scientists, economists

FIGURE
**B-2**

X: 20705X03.DWG
P: PAGESET/SYR-AP
5/4/06 SYR-85-DMW GMS KMD
N/20705002/20705B02.DWG




LEGEND

- APPROXIMATE RAA BOUNDARY
- PARCEL BOUNDARY
- J9-23-12 PARCEL ID
- CHAIN LINK FENCE
- GUARD RAIL
- 161-C5 ▲ EXISTING SURFACE SOIL SAMPLE LOCATION (0- TO 1-FOOT SAMPLE DEPTH)
- NS-22(B) ● EXISTING SOIL BORING LOCATION (1-FOOT OR GREATER SAMPLE DEPTH)
- J9-23-12 BETWEEN FENCE AND PROPERTY LINE
- 5-FOOT BUFFER STRIP BEHIND J9-23-9
- HORIZONTAL LIMITS OF AREA ASSOCIATED WITH GIVEN SAMPLE, DEVELOPED USING THE THEISSEN POLYGON APPROACH.
- 27 POLYGON ID

NOTES:

1. BASE MAP MODIFIED FROM SURVEY BY HILL ENGINEERS, ARCHITECTS & PLANNERS, DATED 12/9/03. LIMITS OF HOUSATONIC RIVER ARE APPROXIMATE.
2. CERTAIN SAMPLING LOCATIONS HAVE BEEN SURVEYED TO KNOWN PHYSICAL FEATURES BY BLASLAND, BOUCK & LEE, INC. AND HILL ENGINEERS, ARCHITECTS, PLANNERS, INC. ALL SAMPLING LOCATIONS SHOWN ON THIS MAPPING ARE APPROXIMATE. HOWEVER SURVEY DATA ARE AVAILABLE FOR CERTAIN OF THESE SAMPLING LOCATIONS TO IDENTIFY PRECISE LOCATIONS.

0 20' 40'

GRAPHIC SCALE

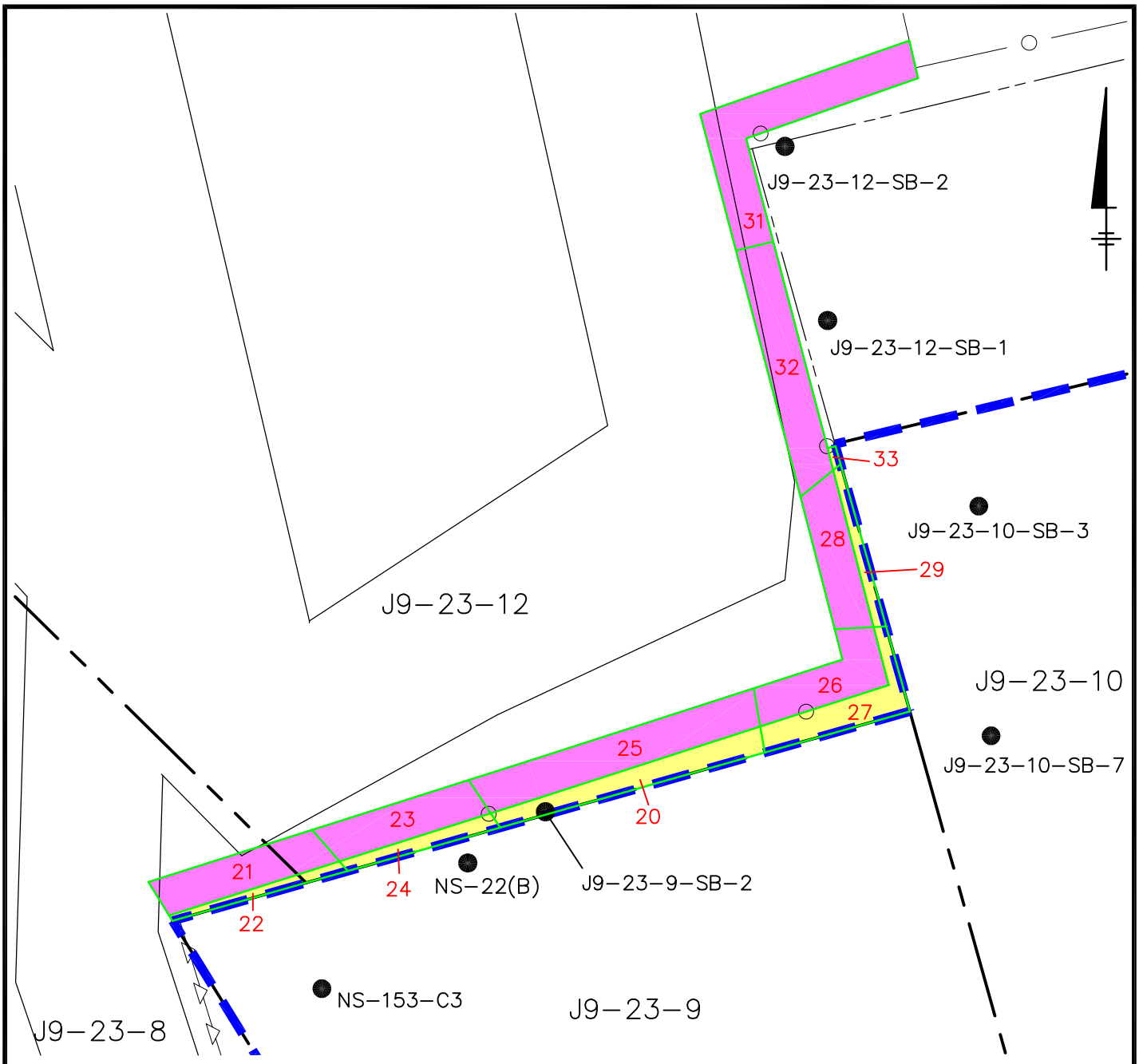
GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
**NEWELL STREET AREA II**

# THEISSEN POLYGON MAP
# 1- TO 3-FOOT DEPTH INCREMENT

BBL BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

FIGURE
**B-3**

X: 20705X03.DWG
P: PAGESET/SYR-AP
5/4/06 SYR-85-DMW GMS KMD
N/20705002/20705B03.DWG




LEGEND

- APPROXIMATE RAA BOUNDARY
- PARCEL BOUNDARY
- J9-23-12 — PARCEL ID
- CHAIN LINK FENCE
- GUARD RAIL
- 161-C5 ▲ — EXISTING SURFACE SOIL SAMPLE LOCATION (0- TO 1-FOOT SAMPLE DEPTH)
- NS-22(B) ● — EXISTING SOIL BORING LOCATION (1-FOOT OR GREATER SAMPLE DEPTH)
- J9-23-12 BETWEEN FENCE AND PROPERTY LINE
- 5-FOOT BUFFER STRIP BEHIND J9-23-9
- HORIZONTAL LIMITS OF AREA ASSOCIATED WITH GIVEN SAMPLE, DEVELOPED USING THE THEISSEN POLYGON APPROACH.
- 27 — POLYGON ID

NOTES:

1. BASE MAP MODIFIED FROM SURVEY BY HILL ENGINEERS, ARCHITECTS & PLANNERS, DATED 12/9/03. LIMITS OF HOUSATONIC RIVER ARE APPROXIMATE.
2. CERTAIN SAMPLING LOCATIONS HAVE BEEN SURVEYED TO KNOWN PHYSICAL FEATURES BY BLASLAND, BOUCK & LEE, INC. AND HILL ENGINEERS, ARCHITECTS, PLANNERS, INC. ALL SAMPLING LOCATIONS SHOWN ON THIS MAPPING ARE APPROXIMATE. HOWEVER SURVEY DATA ARE AVAILABLE FOR CERTAIN OF THESE SAMPLING LOCATIONS TO IDENTIFY PRECISE LOCATIONS.

0 20' 40'

GRAPHIC SCALE

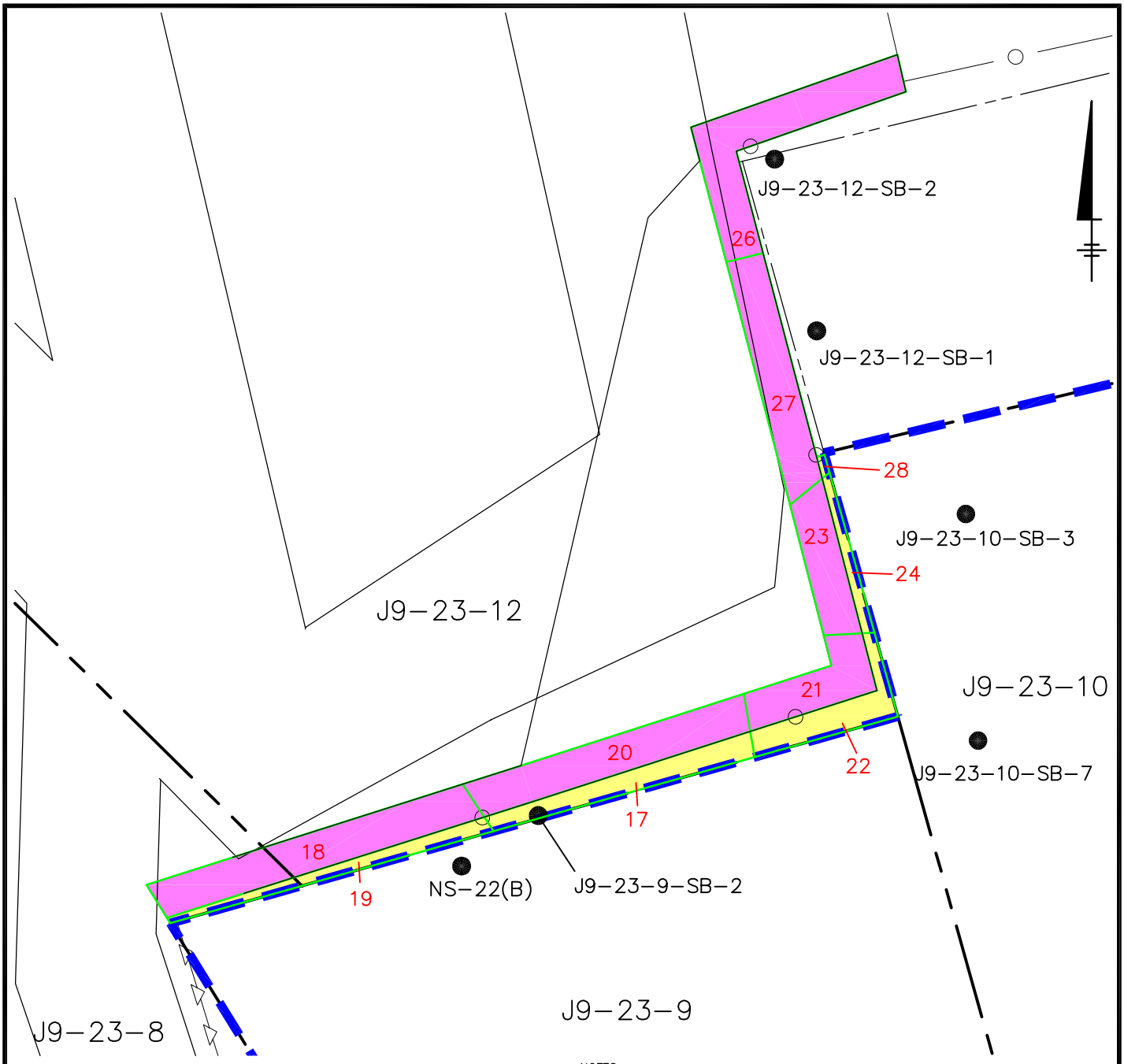
GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
**NEWELL STREET AREA II**

# THEISSEN POLYGON MAP
# 3- TO 4-FOOT DEPTH INCREMENT

BBL BLASLAND, BOUCK & LEE, INC. engineers, scientists, economists

FIGURE **B-4**

X: 20705X03.DWG
P: PAGESET/SYR-AP
5/4/06 SYR-85-DMW GMS KMD
N/20705002/20705B04.DWG




LEGEND

- APPROXIMATE RAA BOUNDARY
- PARCEL BOUNDARY
- J9-23-12 — PARCEL ID
- CHAIN LINK FENCE
- GUARD RAIL
- 161-C5 ▲ — EXISTING SURFACE SOIL SAMPLE LOCATION (0- TO 1-FOOT SAMPLE DEPTH)
- NS-22(B) ● — EXISTING SOIL BORING LOCATION (1-FOOT OR GREATER SAMPLE DEPTH)
- J9-23-12 BETWEEN FENCE AND PROPERTY LINE
- 5-FOOT BUFFER STRIP BEHIND J9-23-9
- HORIZONTAL LIMITS OF AREA ASSOCIATED WITH GIVEN SAMPLE, DEVELOPED USING THE THEISSEN POLYGON APPROACH.
- 20 — POLYGON ID

NOTES:

1. BASE MAP MODIFIED FROM SURVEY BY HILL ENGINEERS, ARCHITECTS & PLANNERS, DATED 12/9/03. LIMITS OF HOUSATONIC RIVER ARE APPROXIMATE.
2. CERTAIN SAMPLING LOCATIONS HAVE BEEN SURVEYED TO KNOWN PHYSICAL FEATURES BY BLASLAND, BOUCK & LEE, INC. AND HILL ENGINEERS, ARCHITECTS, PLANNERS, INC. ALL SAMPLING LOCATIONS SHOWN ON THIS MAPPING ARE APPROXIMATE. HOWEVER SURVEY DATA ARE AVAILABLE FOR CERTAIN OF THESE SAMPLING LOCATIONS TO IDENTIFY PRECISE LOCATIONS.

0 20' 40'

GRAPHIC SCALE

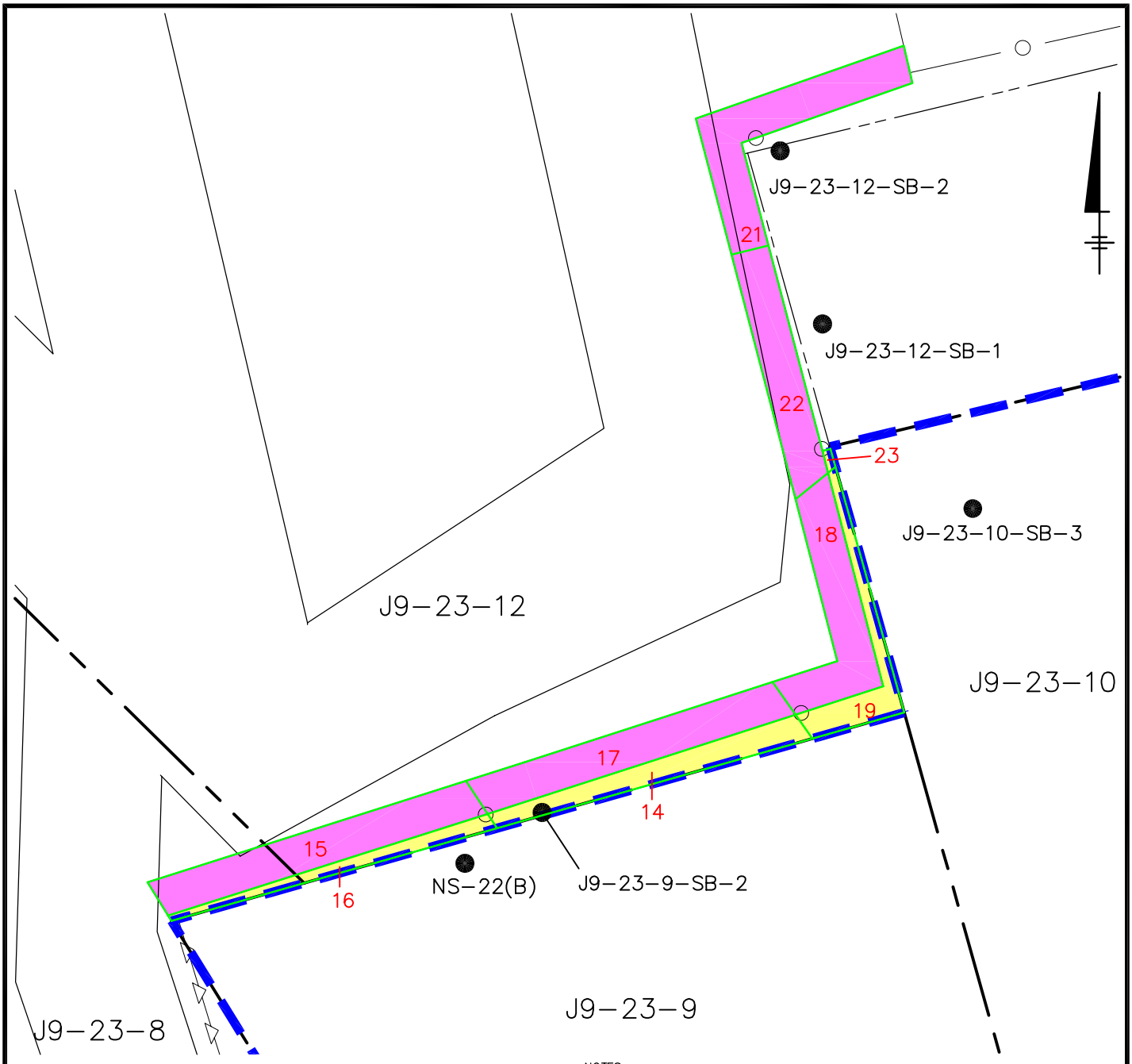
GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
**NEWELL STREET AREA II**

# THEISSEN POLYGON MAP
# 4- TO 6-FOOT DEPTH INCREMENT

BBL BLASLAND, BOUCK & LEE, INC. engineers, scientists, economists

FIGURE
**B-5**

X: 20705X03.DWG
P: PAGESET/SYR-AP
5/4/06 SYR-85-DMW GMS KMD
N/20705002/20705B05.DWG




LEGEND

- APPROXIMATE RAA BOUNDARY
- PARCEL BOUNDARY
- J9-23-12 PARCEL ID
- CHAIN LINK FENCE
- GUARD RAIL
- 161-C5 ▲ EXISTING SURFACE SOIL SAMPLE LOCATION (0- TO 1-FOOT SAMPLE DEPTH)
- NS-22(B) ● EXISTING SOIL BORING LOCATION (1-FOOT OR GREATER SAMPLE DEPTH)
- J9-23-12 BETWEEN FENCE AND PROPERTY LINE
- 5-FOOT BUFFER STRIP BEHIND J9-23-9
- HORIZONTAL LIMITS OF AREA ASSOCIATED WITH GIVEN SAMPLE, DEVELOPED USING THE THEISSEN POLYGON APPROACH.
- 15 POLYGON ID

NOTES:

1. BASE MAP MODIFIED FROM SURVEY BY HILL ENGINEERS, ARCHITECTS & PLANNERS, DATED 12/9/03. LIMITS OF HOUSATONIC RIVER ARE APPROXIMATE.
2. CERTAIN SAMPLING LOCATIONS HAVE BEEN SURVEYED TO KNOWN PHYSICAL FEATURES BY BLASLAND, BOUCK & LEE, INC. AND HILL ENGINEERS, ARCHITECTS, PLANNERS, INC. ALL SAMPLING LOCATIONS SHOWN ON THIS MAPPING ARE APPROXIMATE. HOWEVER SURVEY DATA ARE AVAILABLE FOR CERTAIN OF THESE SAMPLING LOCATIONS TO IDENTIFY PRECISE LOCATIONS.

0 20' 40'

GRAPHIC SCALE

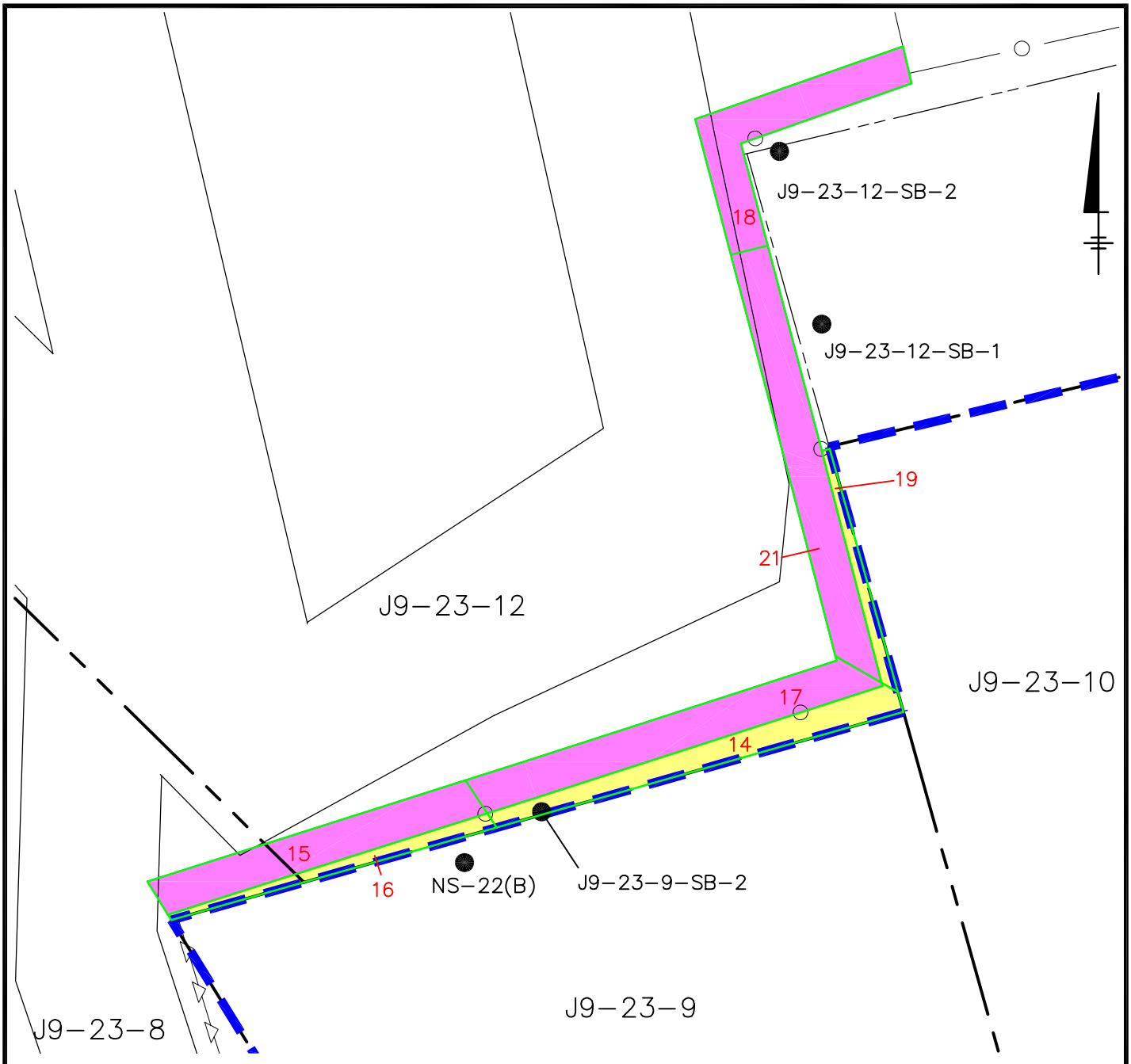
GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
**NEWELL STREET AREA II**

# THEISSEN POLYGON MAP
# 6- TO 8-FOOT DEPTH INCREMENT

BBL BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

FIGURE
**B-6**

X: 20705X03.DWG
P: PAGESET/SYR-AP
5/4/06 SYR-85-DMW GMS KMD
N/20705002/20705B06.DWG




LEGEND

- APPROXIMATE RAA BOUNDARY
- PARCEL BOUNDARY
- J9-23-12 PARCEL ID
- CHAIN LINK FENCE
- GUARD RAIL
- 161-C5 ▲ EXISTING SURFACE SOIL SAMPLE LOCATION (0- TO 1-FOOT SAMPLE DEPTH)
- NS-22(B) ● EXISTING SOIL BORING LOCATION (1-FOOT OR GREATER SAMPLE DEPTH)
- J9-23-12 BETWEEN FENCE AND PROPERTY LINE
- 5-FOOT BUFFER STRIP BEHIND J9-23-9
- HORIZONTAL LIMITS OF AREA ASSOCIATED WITH GIVEN SAMPLE, DEVELOPED USING THE THEISSEN POLYGON APPROACH.
- 15 POLYGON ID

NOTES:

1. BASE MAP MODIFIED FROM SURVEY BY HILL ENGINEERS, ARCHITECTS & PLANNERS, DATED 12/9/03. LIMITS OF HOUSATONIC RIVER ARE APPROXIMATE.
2. CERTAIN SAMPLING LOCATIONS HAVE BEEN SURVEYED TO KNOWN PHYSICAL FEATURES BY BLASLAND, BOUCK & LEE, INC. AND HILL ENGINEERS, ARCHITECTS, PLANNERS, INC. ALL SAMPLING LOCATIONS SHOWN ON THIS MAPPING ARE APPROXIMATE. HOWEVER SURVEY DATA ARE AVAILABLE FOR CERTAIN OF THESE SAMPLING LOCATIONS TO IDENTIFY PRECISE LOCATIONS.

0 20' 40'

GRAPHIC SCALE

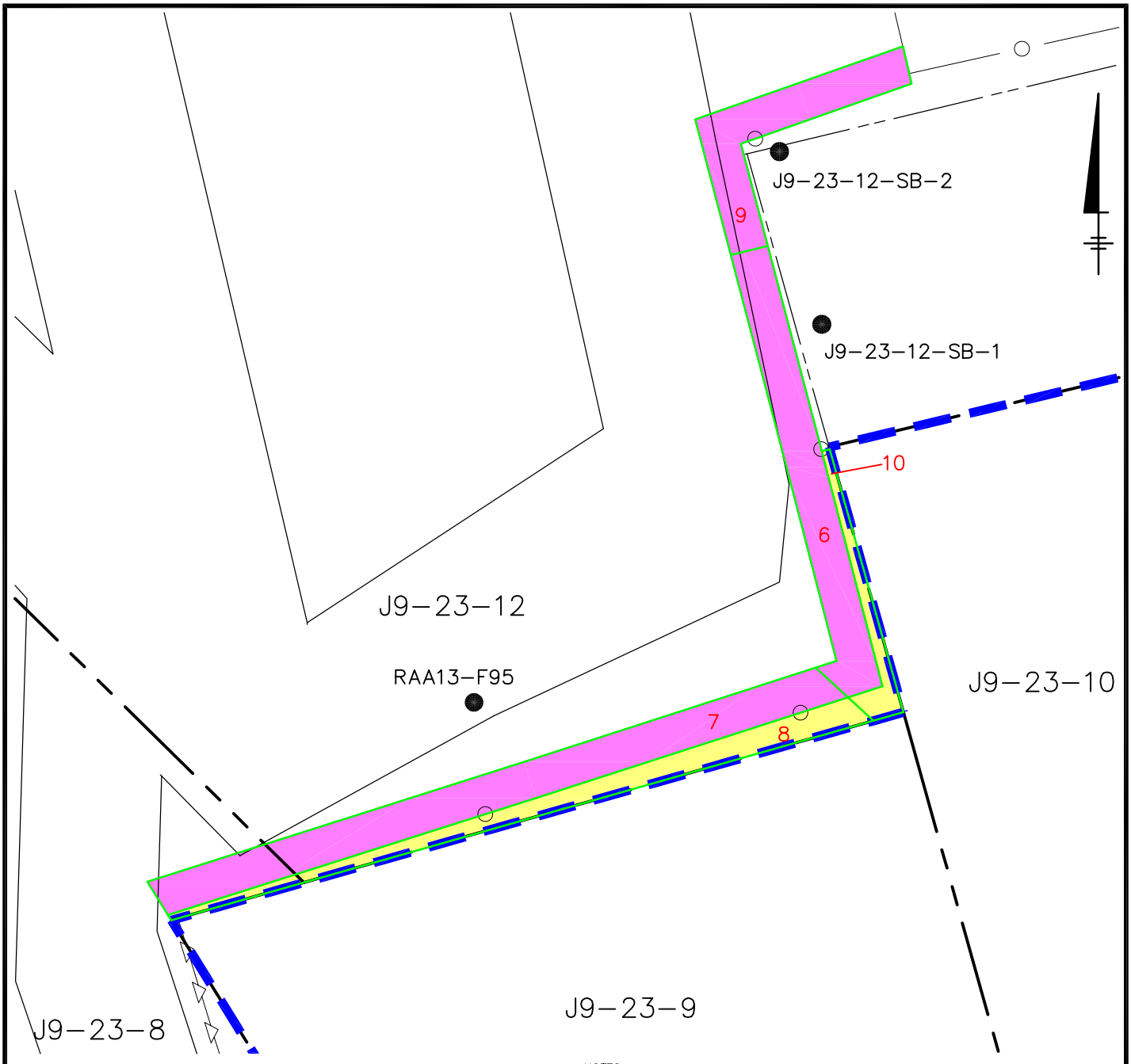
GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
**NEWELL STREET AREA II**

# THEISSEN POLYGON MAP
# 8- TO 10-FOOT DEPTH INCREMENT

BBL BLASLAND, BOUCK & LEE, INC. engineers, scientists, economists

FIGURE **B-7**

X: 20705X03.DWG
P: PAGESET/SYR-AP
5/4/06 SYR-85-DMW KMD
N/20705002/20705B07.DWG




LEGEND

- APPROXIMATE RAA BOUNDARY
- PARCEL BOUNDARY
- J9-23-12 — PARCEL ID
- CHAIN LINK FENCE
- GUARD RAIL
- 161-C5 ▲ — EXISTING SURFACE SOIL SAMPLE LOCATION (0- TO 1-FOOT SAMPLE DEPTH)
- NS-22(B) ● — EXISTING SOIL BORING LOCATION (1-FOOT OR GREATER SAMPLE DEPTH)
- J9-23-12 BETWEEN FENCE AND PROPERTY LINE
- 5-FOOT BUFFER STRIP BEHIND J9-23-9
- HORIZONTAL LIMITS OF AREA ASSOCIATED WITH GIVEN SAMPLE, DEVELOPED USING THE THEISSEN POLYGON APPROACH.
- 9 — POLYGON ID

NOTES:

1. BASE MAP MODIFIED FROM SURVEY BY HILL ENGINEERS, ARCHITECTS & PLANNERS, DATED 12/9/03. LIMITS OF HOUSATONIC RIVER ARE APPROXIMATE.
2. CERTAIN SAMPLING LOCATIONS HAVE BEEN SURVEYED TO KNOWN PHYSICAL FEATURES BY BLASLAND, BOUCK & LEE, INC. AND HILL ENGINEERS, ARCHITECTS, PLANNERS, INC. ALL SAMPLING LOCATIONS SHOWN ON THIS MAPPING ARE APPROXIMATE. HOWEVER SURVEY DATA ARE AVAILABLE FOR CERTAIN OF THESE SAMPLING LOCATIONS TO IDENTIFY PRECISE LOCATIONS.

0 20' 40'

GRAPHIC SCALE

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
**NEWELL STREET AREA II**

# THEISSEN POLYGON MAP
# 10- TO 15-FOOT DEPTH INCREMENT

BBL BLASLAND, BOUCK & LEE, INC. engineers, scientists, economists

FIGURE **B-8**

X: 20705X03.DWG
P: PAGESET/SYR-AP
5/4/06 SYR-85-DMW KMD
N/20705002/20705B08.DWG