

FMC CORPORATION - MIDDLEPORT, NEW YORK
CORRECTIVE MEASURES STUDY REPORT
 SUSPECTED AIR DEPOSITION AND
 CULVERT 105 STUDY AREAS

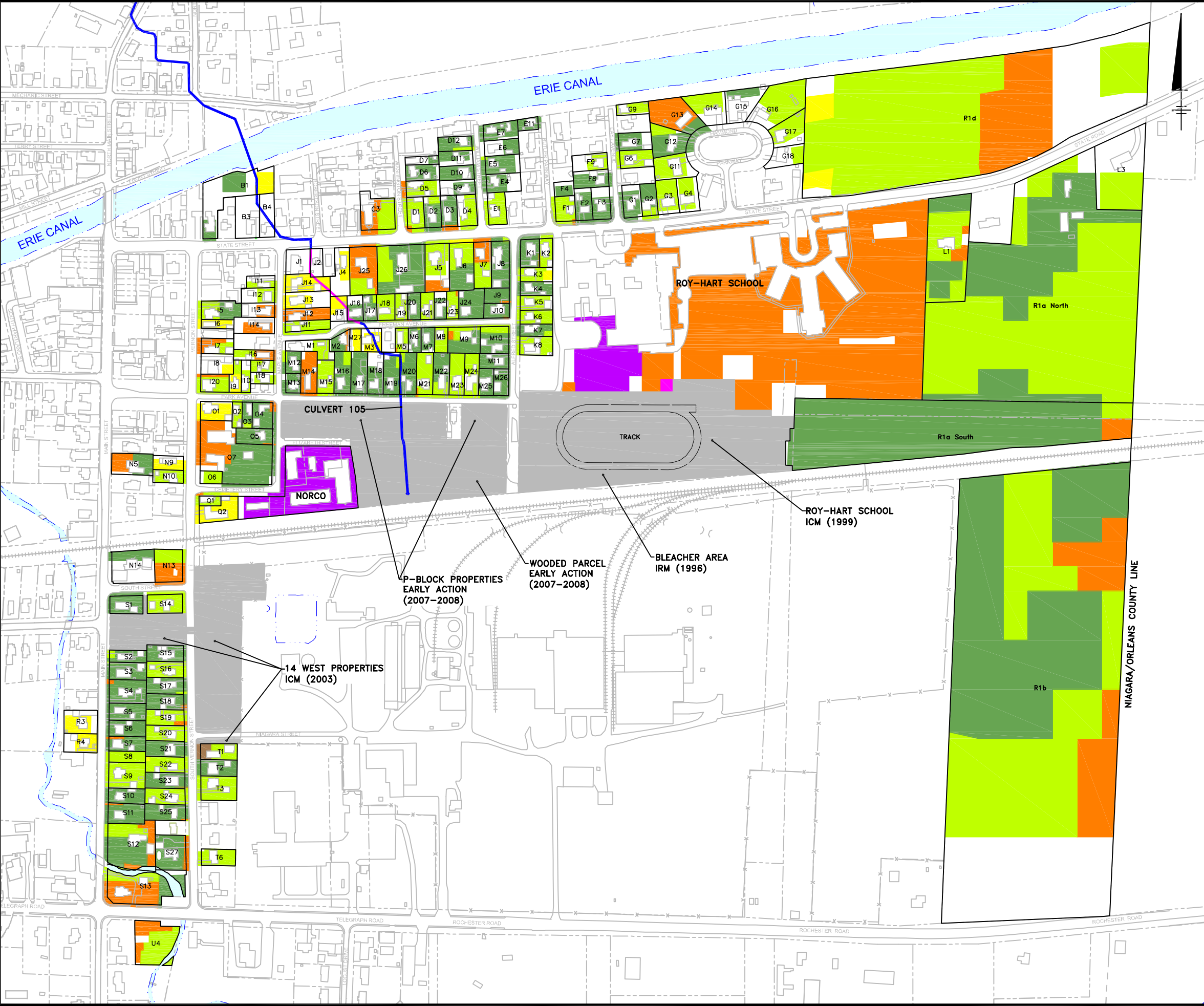
**ALTERNATIVE 1 -
 NO FURTHER ACTION**

DRAFT - MAY 2011



FIGURE
H-1

CITY: SYRACUSE, NY; GROUP: ENVCAD; DB: P. LISTER; LD: P. LISTER; PICPMTM: S. COX; TR: D. WRIGHT; LYR: OPTION; OFF: REF; GAE: ENVCAD; SYRACUSE; ACT: 190037236000000027; DWG: 19736942; DWG; LAYOUT: H-2A; SAVED: 5/11/2011 8:24 AM; ACADVER: 18.05; (LMS TECH); PAGES: 2; PLOT: 1; PLOTSTYLETABLE: PLT:LULLC7B; PLOTTED: 5/11/2011 8:24 AM; BY: LISTER, PAUL

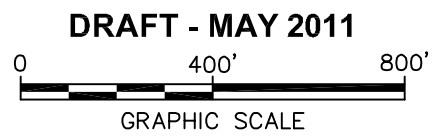


LEGEND:

- CULVERT 105 (BURIED PIPE)
- AREAS EVALUATED IN CORRECTIVE MEASURES ALTERNATIVES
- AREAS IN THE CMS STUDY AREAS PREVIOUSLY REMEDIATED BY FMC AND NO FURTHER REMEDIATION NEEDED (GRAY)
- M23 PROPERTY IDENTIFICATION NUMBER

- ESTIMATED REMEDIATION DEPTHS:**
- 3-INCH
 - 6-INCH
 - 9-INCH
 - 12-INCH
 - 18-INCH
 - 24-INCH
 - 30-INCH OR GREATER (INCLUDES CULVERT BURIED PIPE REPLACEMENT)

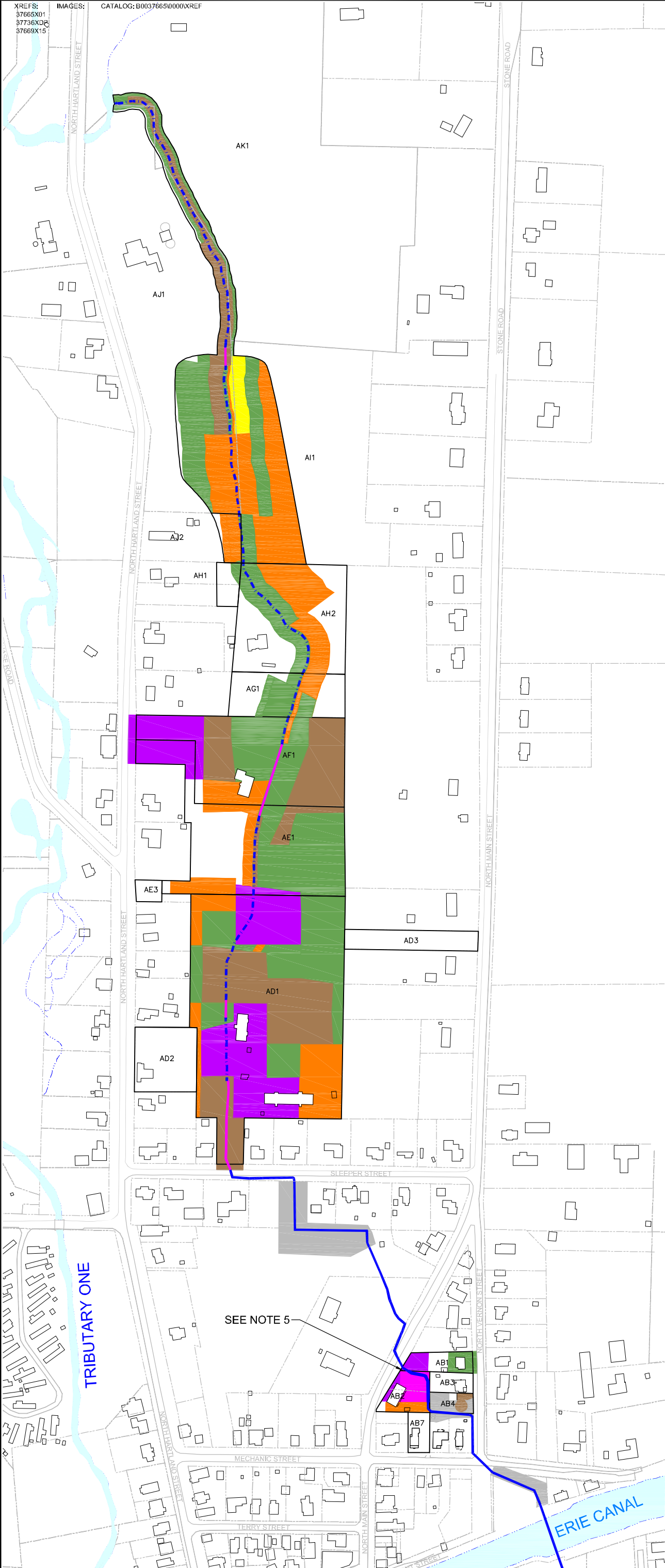
- NOTES:**
1. BASEMAP OBTAINED FROM A FIGURE BY CONESTOGA-ROVERS AND ASSOCIATES ENTITLED "2003/2004 PROPOSED SAMPLING LOCATIONS" DATED OCTOBER 2003 AT A SCALE OF 1"=200'.
 2. ALL LOCATIONS AND PROPERTY BOUNDARIES ARE APPROXIMATE AND SUBJECT TO VERIFICATION.
 3. EACH PROPERTY WAS ASSIGNED AN IDENTIFICATION NUMBER BY FMC THAT IS NOT RELATED TO ITS STREET ADDRESS OR TAX PARCEL NUMBER.
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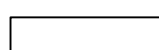


**FMC CORPORATION - MIDDLEPORT, NEW YORK
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 SUSPECTED AIR DEPOSITION
 AND CULVERT 105 STUDY AREAS**

**ALTERNATIVE 2 -
 AREAS TO BE REMEDIATED SOUTH OF
 THE CANAL**








XREFS: 37665X01
 37736X02
 37669X15
 IMAGES: CATALOG: B00376650000XREF



LEGEND:

-  CULVERT 105 (OPEN DITCH)
-  CULVERT 105 (BURIED PIPE)
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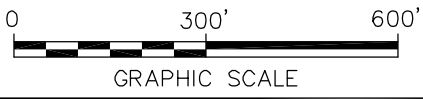
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5. CULVERT 105 TO BE REMOVED AND REPLACED AT PROPERTY AB2 (SHOWN BLUE FOR CLARITY).

DRAFT - MAY 2011



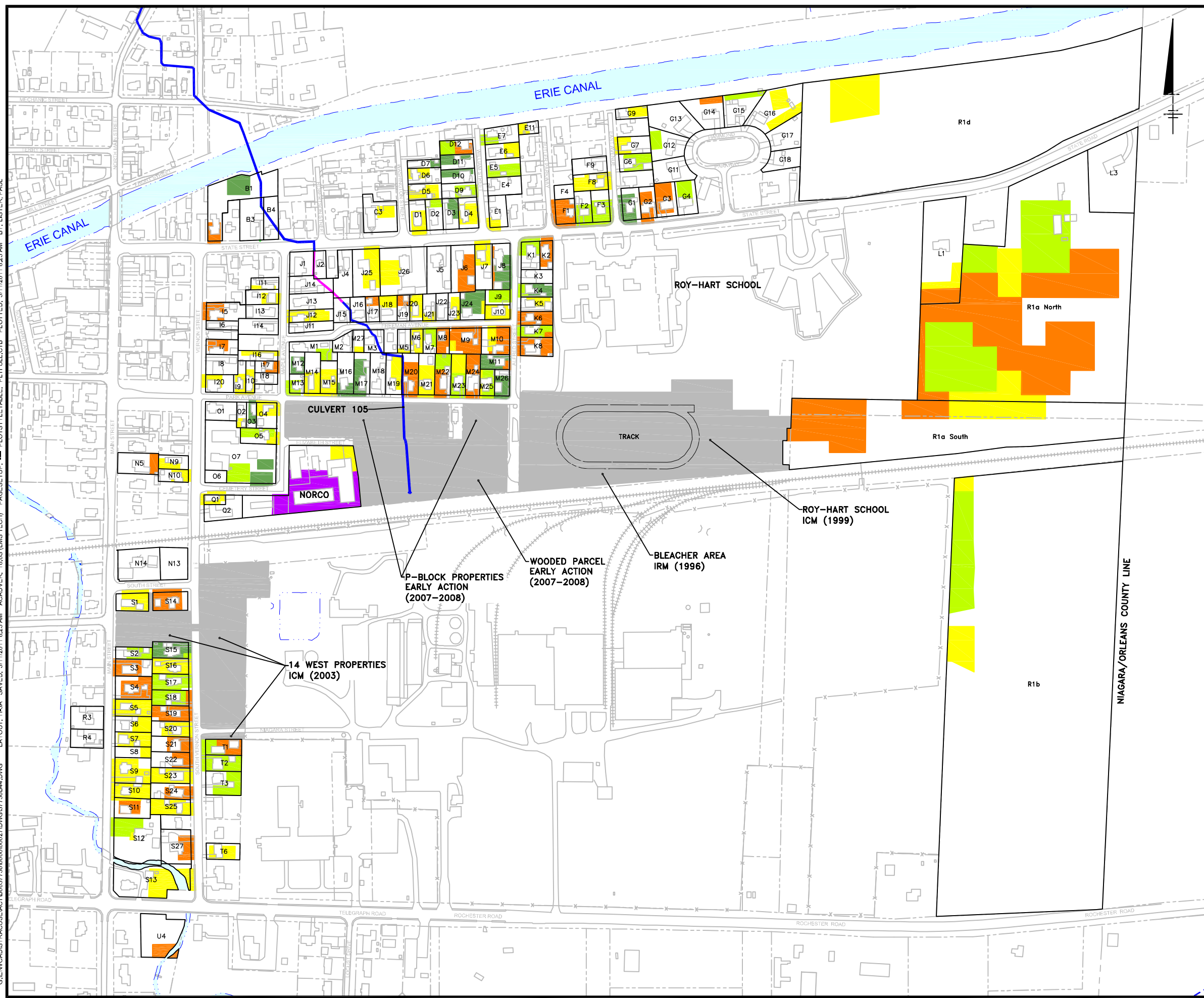
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 SUSPECTED AIR DEPOSITION AND
 CULVERT 105 STUDY AREAS

ALTERNATIVE 2 -
AREAS TO BE REMEDIATED NORTH OF
THE CANAL



FIGURE
H-2b

CITY: SYRACUSE, NY; GROUP: ENVCAD; DB: P. LISTER; LD: P. LISTER; PICPMTM: S. COX; TR: D. WRIGHT; LYR: OPTION; OFF: REF; GAE: ENVCAD; SYRACUSE; ACT: 190037236000000027; DWG: 19736944; DWG; LAYOUT: H-3a; SAVED: 5/11/2011 8:25 AM; ACADVER: 18.05; (LMS TECH); PAGESETUP: ---; PLOTSTYLETABLE: PLT: LULLC7B; PLOTTED: 5/11/2011 8:25 AM; BY: LISTER, PAUL



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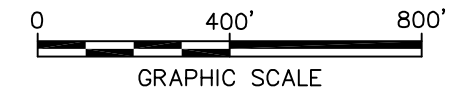
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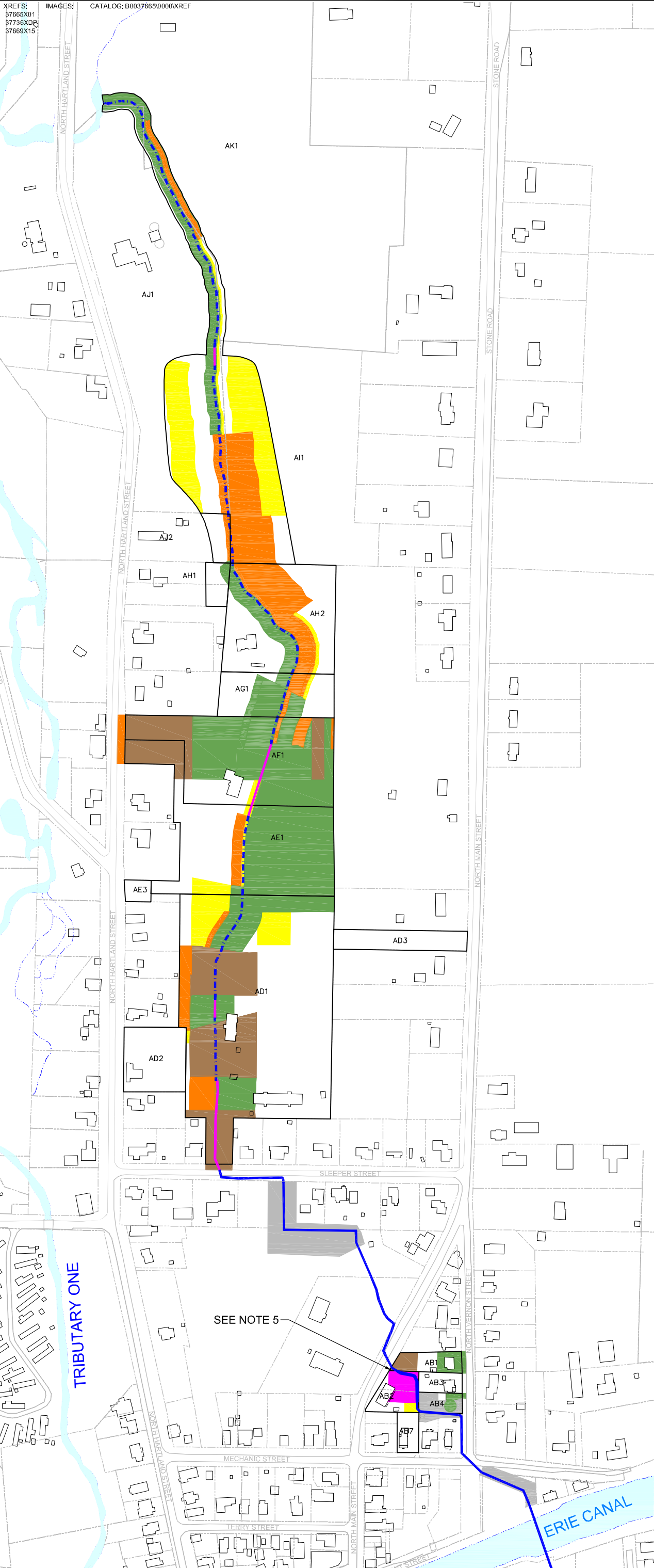


**FMC CORPORATION - MIDDLEPORT, NEW YORK
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 AND CULVERT 105 STUDY AREAS**

**ALTERNATIVE 3 -
 AREAS TO BE REMEDIATED SOUTH OF
 THE CANAL**



FIGURE
H-3a



LEGEND:

- - - - - CULVERT 105 (OPEN DITCH)
- CULVERT 105 (BURIED PIPE)
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- AK1 PROPERTY IDENTIFICATION NUMBER

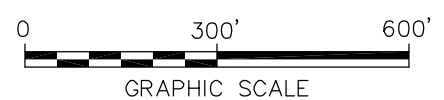
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5. CULVERT 105 TO BE REMOVED AND REPLACED AT PROPERTY AB2 (SHOWN BLUE FOR CLARITY).

DRAFT - MAY 2011



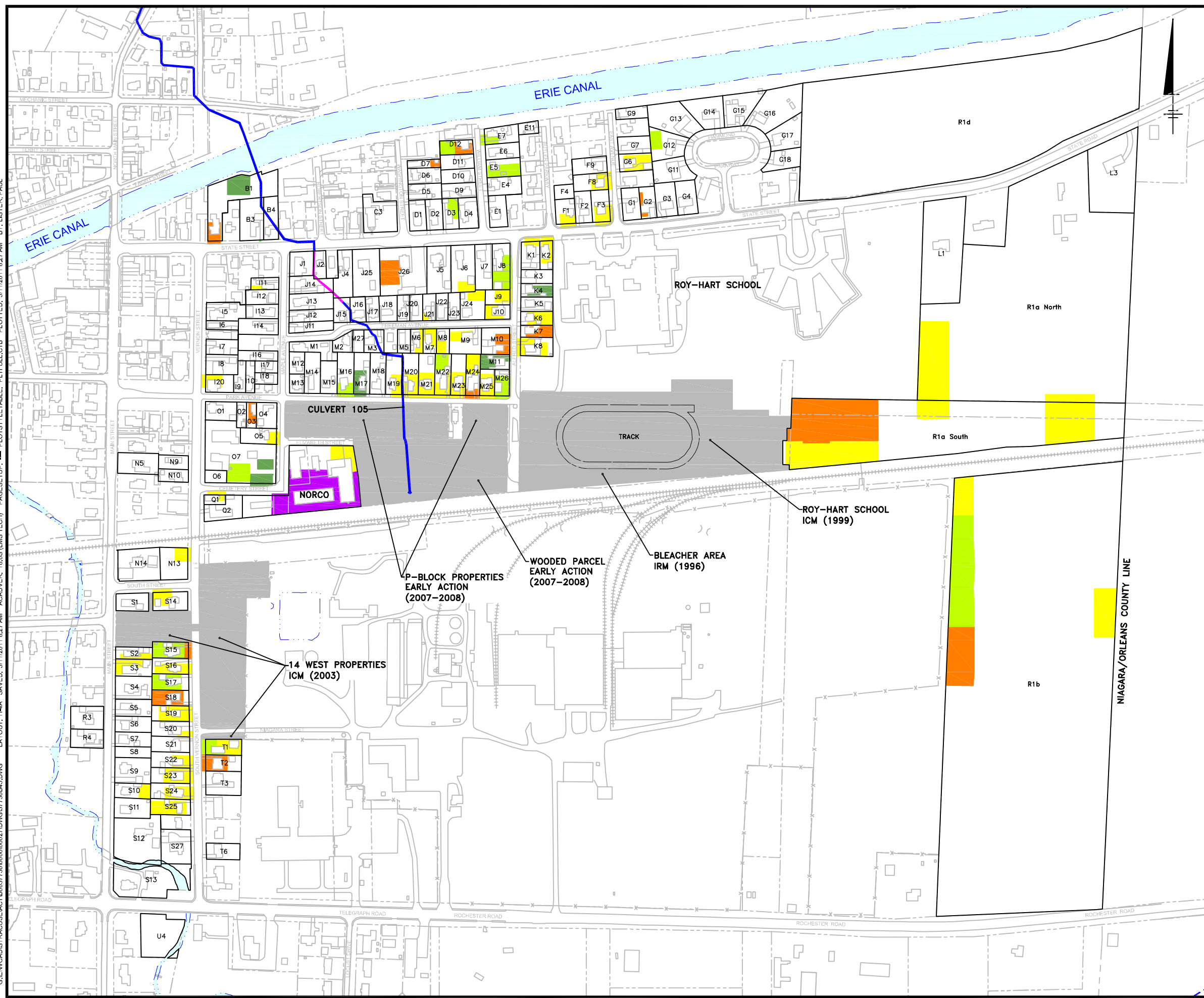
FMC CORPORATION - MIDDLEPORT, NEW YORK
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 CULVERT 105 STUDY AREAS

**ALTERNATIVE 3 -
 AREAS TO BE REMEDIATED NORTH OF
 THE CANAL**

ARCADIS

FIGURE
H-3b

CITY: SYRACUSE, NY; GROUP: ENVCAD; DB: P. LISTER; LD: P. LISTER; PICPMTM: S. COX; TR: D. WRIGHT; LYR: OP/ION; OFF: REF; GAE: NVCAD; SYRACUSE; ACT: 190037236000000027; DWG: 19736945; DWG; LAYOUT: H-4A; SAVED: 5/11/2011 8:27 AM; ACADVER: 18.05; (LMS TECH); PAGESETUP: ---; PLOTSTYLETABLE: PLT:LULLC7B; PLOTTED: 5/11/2011 8:27 AM; BY: LISTER, PAUL



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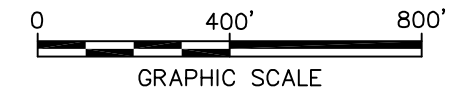
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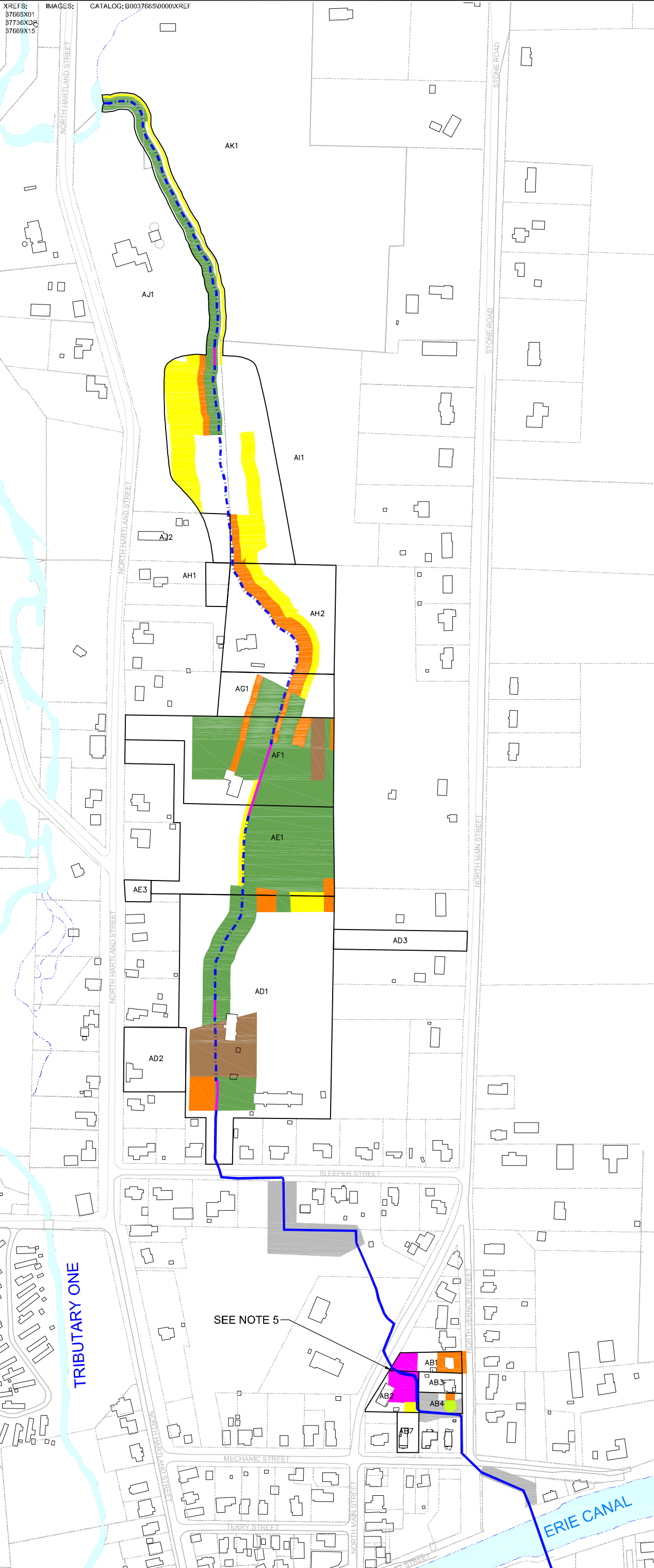


**FMC CORPORATION - MIDDLEPORT, NEW YORK
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 SUSPECTED AIR DEPOSITION
 AND CULVERT 105 STUDY AREAS**

**ALTERNATIVE 4 -
 AREAS TO BE REMEDIATED SOUTH OF
 THE CANAL**



FIGURE
H-4a



LEGEND:

- CULVERT 105 (OPEN DITCH)
- CULVERT 105 (BURIED PIPE)
- AREAS EVALUATED IN CORRECTIVE MEASURES ALTERNATIVES
- AREAS IN THE CMS STUDY AREAS PREVIOUSLY REMEDIATED BY FMC AND NO FURTHER REMEDIATION NEEDED (GRAY)
- AK1 PROPERTY IDENTIFICATION NUMBER

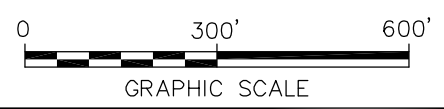
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5. CULVERT 105 TO BE REMOVED AND REPLACED AT PROPERTY AB2 (SHOWN BLUE FOR CLARITY).

DRAFT - MAY 2011



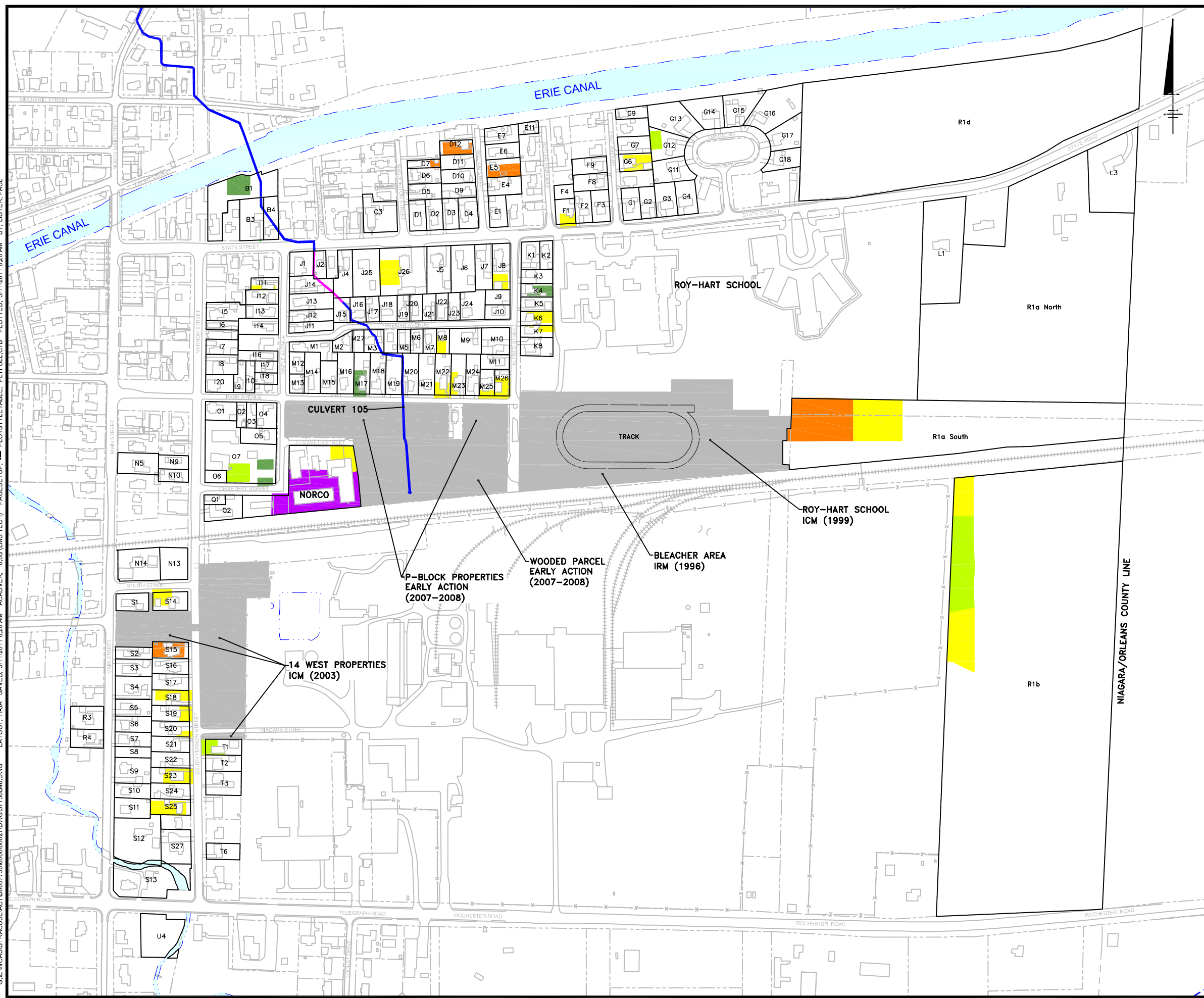
FMC CORPORATION - MIDDLEPORT, NEW YORK
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**ALTERNATIVE 4 -
 AREAS TO BE REMEDIATED NORTH OF
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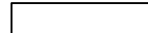



FIGURE
H-4b








CITY: SYRACUSE, NY GROUP: ENVCAD DB: P. LISTER LD: P. LISTER PIC: P. LISTER TR: D. WRIGHT LYN: O. P. LISTER LAY: O. P. LISTER PLOT: 5/11/2011 8:28 AM BY: LISTER, PAUL
 G:\ENVCAD\SYRACUSE\ACT\190037236\000000027\DWG\19736946.DWG LAYOUT: H-A SAVER: 5/11/2011 8:28 AM ACADVER: 18.05 (LMS TECH) PAGES: 18 PAGES: 18 PAGES: 18 PAGES: 18
 PLOTSTYLETABLE: PLT\LULLC7B PLOTTED: 5/11/2011 8:28 AM BY: LISTER, PAUL



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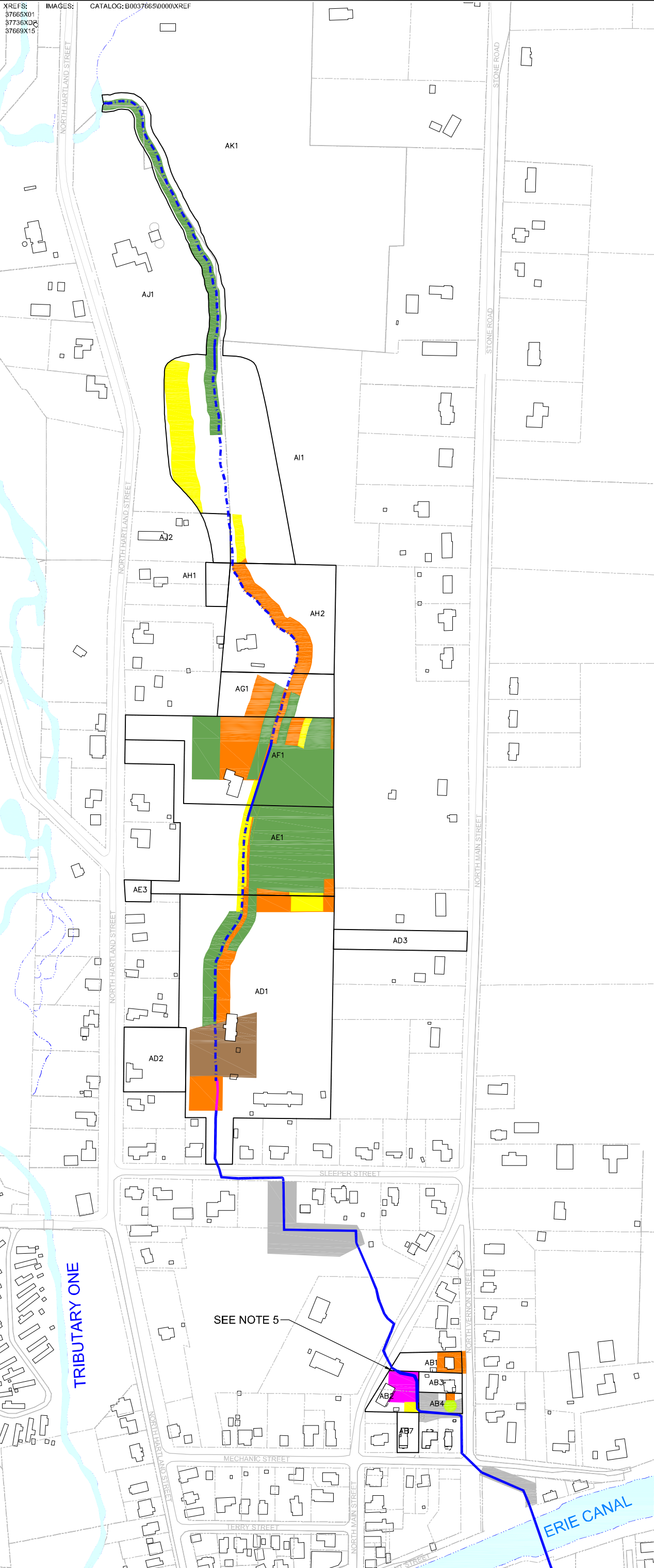


FMC CORPORATION - MIDDLEPORT, NEW YORK
**CORRECTIVE MEASURES STUDY REPORT
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**ALTERNATIVE 5 -
 AREAS TO BE REMEDIATED SOUTH OF
 THE CANAL**



FIGURE
H-5a



LEGEND:

- - - - - CULVERT 105 (OPEN DITCH)
- CULVERT 105 (BURIED PIPE)
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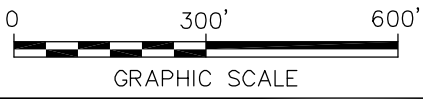
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DRAFT - MAY 2011



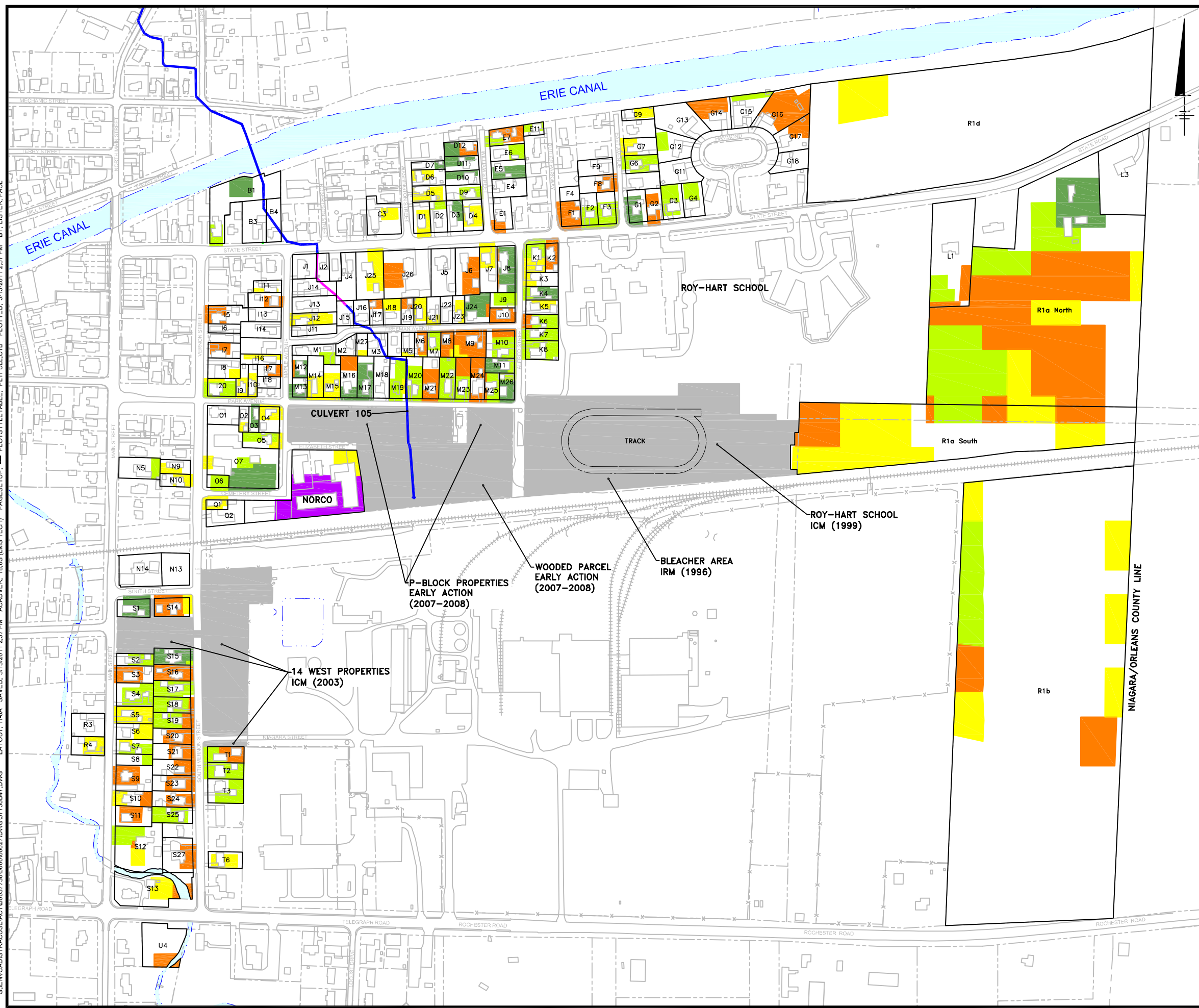
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ALTERNATIVE 5 -
AREAS TO BE REMEDIATED NORTH OF
THE CANAL



FIGURE
H-5b

CITY: SYRACUSE, NY; GROUP: ENVCAD; DB: P. LISTER; LD: P. LISTER; PICPMTM: S. COX; TR: D. WRIGHT; LYR: OPTION; OFF: REF; GAE: ENVCAD; SYRACUSE; ACT: 190037236000000027; DWG: 19736947; DWG LAYOUT: H4A; SAVED: 5/13/2011 2:57 PM; ACADVER: 18.05; (LMS TECH); PAGESETUP: ---; PLOTSTYLETABLE: PLT:LULLC7B; PLOTTED: 5/13/2011 2:57 PM; BY: LISTER, PAUL



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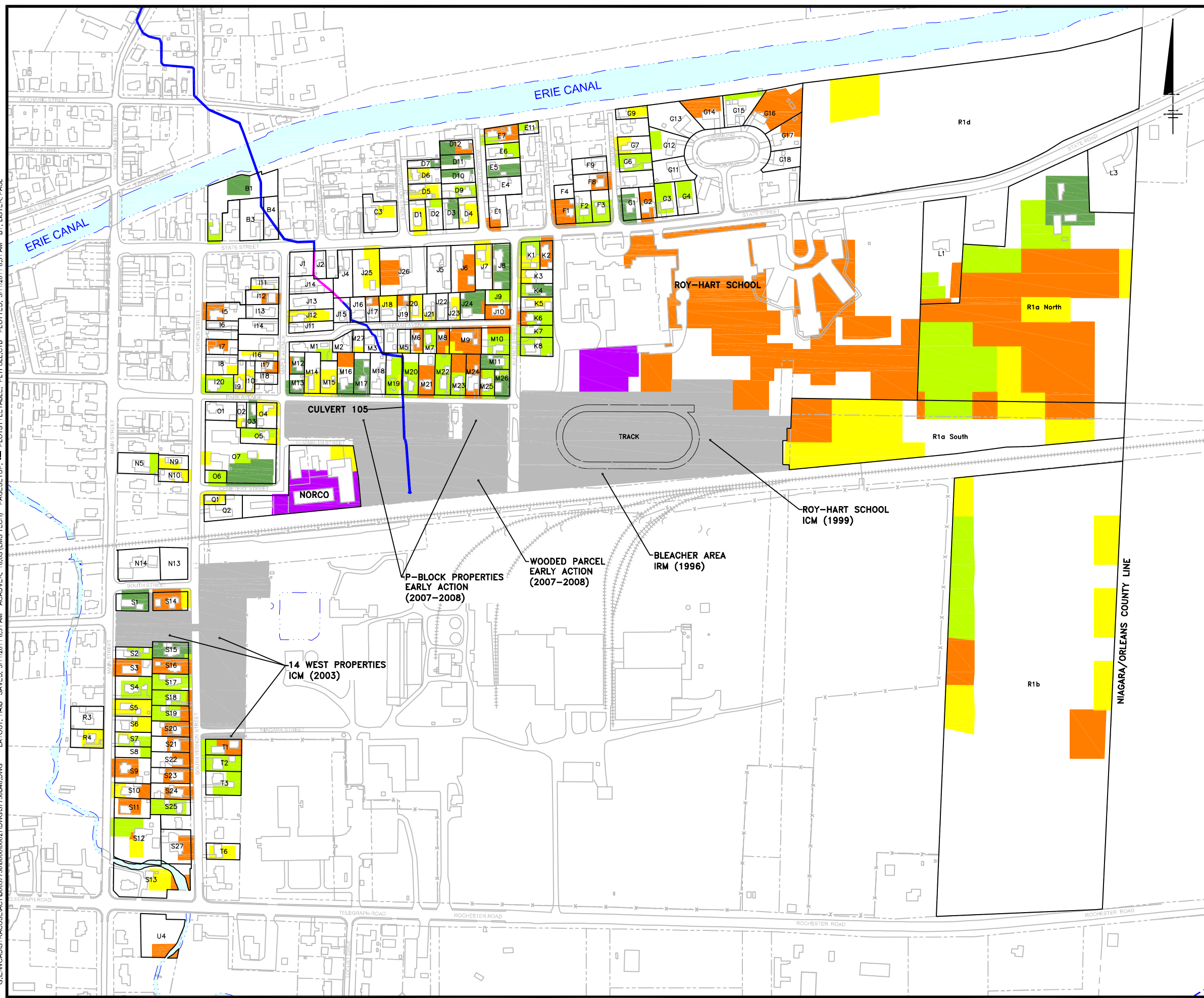
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**ALTERNATIVE 6a -
 AREAS TO BE REMEDIATED SOUTH OF
 THE CANAL**



FIGURE
H-6a

CITY: SYRACUSE, NY; GROUP: ENVCAD; DB: P. LISTER; LD: P. LISTER; PICPMTM: S. COX; TR: D. WRIGHT; LYR: OPTION; OFF: REF; GAE: ENVCAD; SYRACUSE; ACT: 190037236000000027; DWG: 19736848; DWG; LAYOUT: H4B; SAVED: 5/11/2011 8:31 AM; ACADVER: 18.05; (LMS TECH); PAGES: 2; PLOT: PLT; LULL: C7B; PLOTTED: 5/11/2011 8:31 AM; BY: LISTER, PAUL



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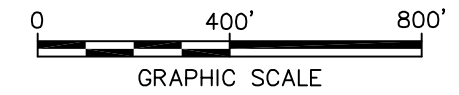
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- 18-INCH
- 24-INCH
- 30-INCH OR GREATER (INCLUDES CULVERT BURIED PIPE REPLACEMENT)

NOTES:

1. BASEMAP OBTAINED FROM A FIGURE BY CONESTOGA-ROVERS AND ASSOCIATES ENTITLED "2003/2004 PROPOSED SAMPLING LOCATIONS" DATED OCTOBER 2003 AT A SCALE OF 1"=200'.
2. ALL LOCATIONS AND PROPERTY BOUNDARIES ARE APPROXIMATE AND SUBJECT TO VERIFICATION.
3. EACH PROPERTY WAS ASSIGNED AN IDENTIFICATION NUMBER BY FMC THAT IS NOT RELATED TO ITS STREET ADDRESS OR TAX PARCEL NUMBER.
4. THE INFORMATION SHOWN ON THIS FIGURE HAS BEEN COMPILED TO SUPPORT DEVELOPMENT OF THIS DRAFT CMS REPORT. DESIGN REMEDIATION LIMITS ARE ESTIMATES BASED ON AVAILABLE DATA. THE ACTUAL DESIGN LIMITS OF SOIL EXPECTED TO BE REMEDIATED WILL BE DETERMINED DURING THE REMEDIAL DESIGN ACTIVITIES OF THE CORRECTIVE MEASURES IMPLEMENTATION (CMI), WHICH WILL OCCUR AFTER SELECTION OF THE FINAL CORRECTIVE MEASURE(S) BY THE AGENCIES.

DRAFT - MAY 2011



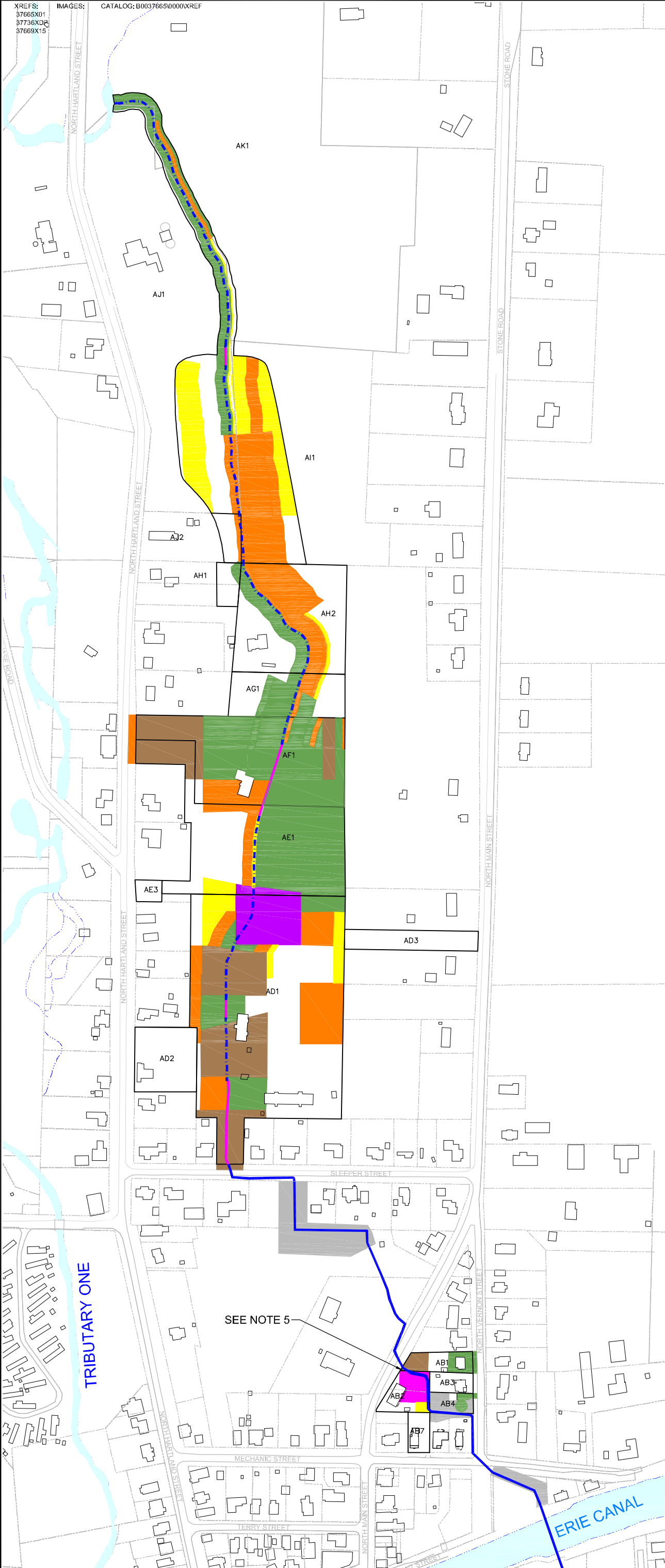
**FMC CORPORATION - MIDDLEPORT, NEW YORK
 CORRECTIVE MEASURES STUDY REPORT
 SUSPECTED AIR DEPOSITION
 AND CULVERT 105 STUDY AREAS**

**ALTERNATIVE 6b -
 AREAS TO BE REMEDIATED SOUTH OF
 THE CANAL**



FIGURE
H-6b

XREFS: 37665X01
 37736X02
 37669X15
 IMAGES: CATALOG: B00376650000XREF



LEGEND:

- - - - - CULVERT 105 (OPEN DITCH)
- CULVERT 105 (BURIED PIPE)
- AREAS EVALUATED IN CORRECTIVE MEASURES ALTERNATIVES
- AREAS IN THE CMS STUDY AREAS PREVIOUSLY REMEDIATED BY FMC AND NO FURTHER REMEDIATION NEEDED (GRAY)
- AK1 PROPERTY IDENTIFICATION NUMBER

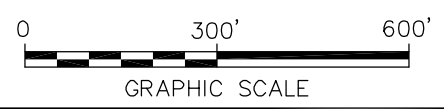
ESTIMATED REMEDIATION DEPTHS:

- 3-INCH
- 6-INCH
- 9-INCH
- 12-INCH
- 18-INCH
- 24-INCH
- 30-INCH OR GREATER (INCLUDES CULVERT BURIED PIPE REPLACEMENT)

NOTES:

1. BASEMAP OBTAINED FROM A FIGURE BY CONESTOGA-ROVERS AND ASSOCIATES ENTITLED "2003/2004 PROPOSED SAMPLING LOCATIONS" DATED OCTOBER 2003 AT A SCALE OF 1"=200'.
2. ALL LOCATIONS AND PROPERTY BOUNDARIES ARE APPROXIMATE AND SUBJECT TO VERIFICATION.
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5. CULVERT 105 TO BE REMOVED AND REPLACED AT PROPERTY AB2 (SHOWN BLUE FOR CLARITY).

DRAFT - MAY 2011



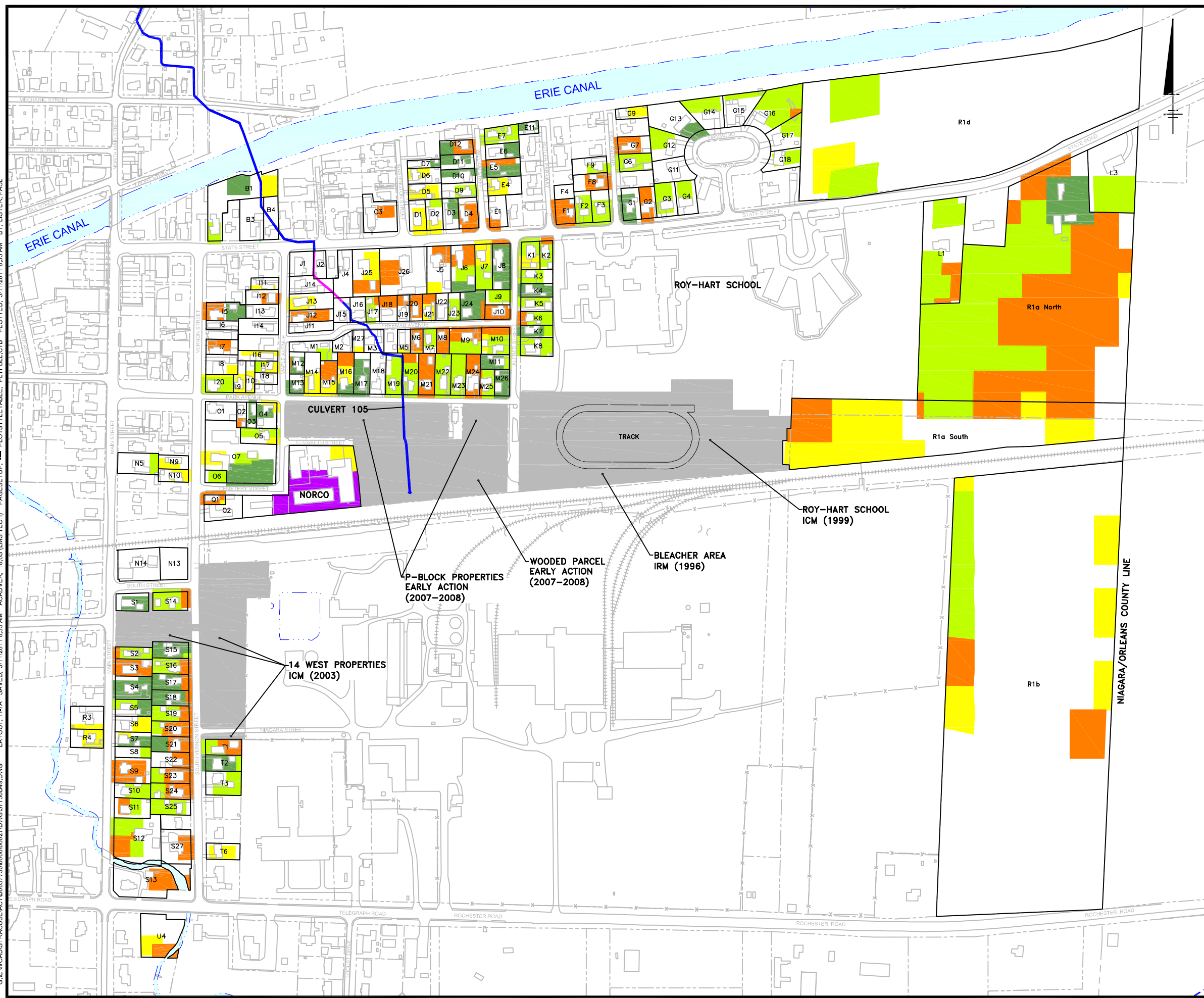
FMC CORPORATION - MIDDLEPORT, NEW YORK
CORRECTIVE MEASURES STUDY REPORT
 SUSPECTED AIR DEPOSITION AND
 CULVERT 105 STUDY AREAS

ALTERNATIVES 6a & 6b -
AREAS TO BE REMEDIATED NORTH OF
THE CANAL

ARCADIS

FIGURE
H-6c

CITY: SYRACUSE, NY; GROUP: ENVCAD; DB: P. LISTER; LD: P. LISTER; PICPMTM: S. COX; TR: D. WRIGHT; LYR: OPTION; OFF: REF; GAE: ENVCAD; SYRACUSE; ACT: 190037236000000027; DWG: 19736849; DWG; LAYOUT: H-7a; SAVED: 5/11/2011 8:33 AM; ACADVER: 18.05; (LMS TECH); PAGES: 2; PLOTSTYLETABLE: PLT: LULLC7B; PLOTTED: 5/11/2011 8:33 AM; BY: LISTER, PAUL



LEGEND:

- CULVERT 105 (BURIED PIPE)
- AREAS EVALUATED IN CORRECTIVE MEASURES ALTERNATIVES
- AREAS IN THE CMS STUDY AREAS PREVIOUSLY REMEDIATED BY FMC AND NO FURTHER REMEDIATION NEEDED (GRAY)
- M23 PROPERTY IDENTIFICATION NUMBER

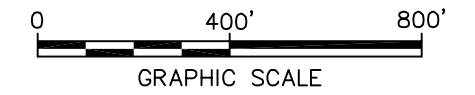
ESTIMATED REMEDIATION DEPTHS:

- 3-INCH
- 6-INCH
- 9-INCH
- 12-INCH
- 18-INCH
- 24-INCH
- 30-INCH OR GREATER (INCLUDES CULVERT BURIED PIPE REPLACEMENT)

NOTES:

1. BASEMAP OBTAINED FROM A FIGURE BY CONESTOGA-ROVERS AND ASSOCIATES ENTITLED "2003/2004 PROPOSED SAMPLING LOCATIONS" DATED OCTOBER 2003 AT A SCALE OF 1"=200'.
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3. EACH PROPERTY WAS ASSIGNED AN IDENTIFICATION NUMBER BY FMC THAT IS NOT RELATED TO ITS STREET ADDRESS OR TAX PARCEL NUMBER.
4. THE INFORMATION SHOWN ON THIS FIGURE HAS BEEN COMPILED TO SUPPORT DEVELOPMENT OF THIS DRAFT CMS REPORT. DESIGN REMEDIATION LIMITS ARE ESTIMATES BASED ON AVAILABLE DATA. THE ACTUAL DESIGN LIMITS OF SOIL EXPECTED TO BE REMEDIATED WILL BE DETERMINED DURING THE REMEDIAL DESIGN ACTIVITIES OF THE CORRECTIVE MEASURES IMPLEMENTATION (CMI), WHICH WILL OCCUR AFTER SELECTION OF THE FINAL CORRECTIVE MEASURE(S) BY THE AGENCIES.

DRAFT - MAY 2011



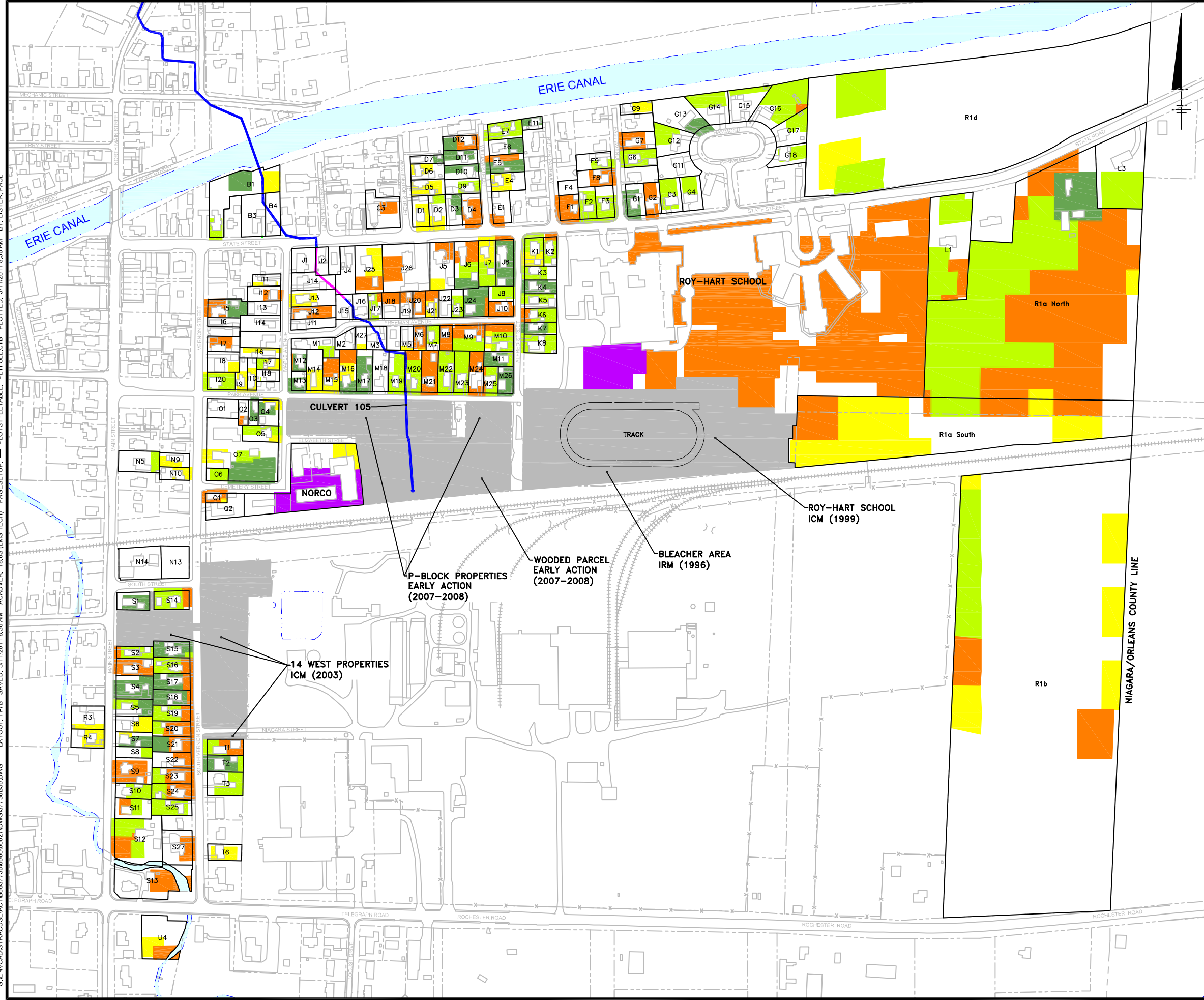
**FMC CORPORATION - MIDDLEPORT, NEW YORK
 CORRECTIVE MEASURES STUDY REPORT
 SUSPECTED AIR DEPOSITION
 AND CULVERT 105 STUDY AREAS**

**ALTERNATIVE 7a -
 AREAS TO BE REMEDIATED SOUTH OF
 THE CANAL**



FIGURE
H-7a

CITY: SYRACUSE, NY; GROUP: ENVCAD; DB: P. LISTER; LD: P. LISTER; PICPMTM: S. COX; TR: D. WRIGHT; LYR: OPTION; OFF: REF; GAE: ENVCAD; SYRACUSE; ACT: 1900372360000000027; DWG: 19736850; DWG; LAYOUT: H-7b; SAVED: 5/11/2011 8:36 AM; ACADVER: 18.05; (LMS TECH); PAGES: 27; PLOT: 1; PLOTSTYLETABLE: PLT: LULLC7B; PLOTTED: 5/11/2011 8:36 AM; BY: LISTER, PAUL



LEGEND:

- CULVERT 105 (BURIED PIPE)
- AREAS EVALUATED IN CORRECTIVE MEASURES ALTERNATIVES
- AREAS IN THE CMS STUDY AREAS PREVIOUSLY REMEDIATED BY FMC AND NO FURTHER REMEDIATION NEEDED (GRAY)
- M23 PROPERTY IDENTIFICATION NUMBER

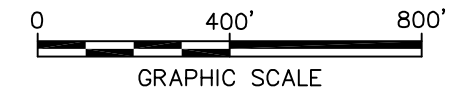
ESTIMATED REMEDIATION DEPTHS:

- 3-INCH
- 6-INCH
- 9-INCH
- 12-INCH
- 18-INCH
- 24-INCH
- 30-INCH OR GREATER (INCLUDES CULVERT BURIED PIPE REPLACEMENT)

NOTES:

1. BASEMAP OBTAINED FROM A FIGURE BY CONESTOGA-ROVERS AND ASSOCIATES ENTITLED "2003/2004 PROPOSED SAMPLING LOCATIONS" DATED OCTOBER 2003 AT A SCALE OF 1"=200'.
2. ALL LOCATIONS AND PROPERTY BOUNDARIES ARE APPROXIMATE AND SUBJECT TO VERIFICATION.
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DRAFT - MAY 2011

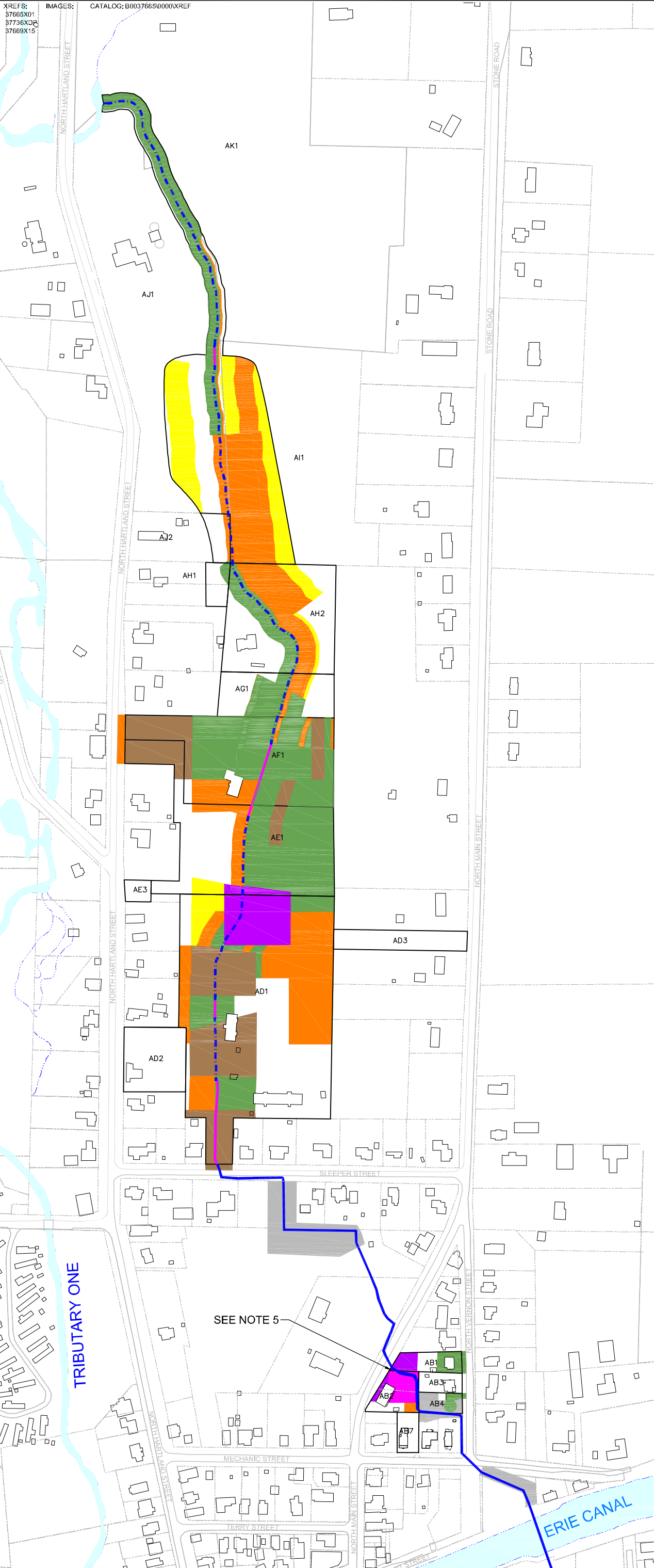


FMC CORPORATION - MIDDLEPORT, NEW YORK
**CORRECTIVE MEASURES STUDY REPORT
 SUSPECTED AIR DEPOSITION
 AND CULVERT 105 STUDY AREAS**

**ALTERNATIVE 7b -
 AREAS TO BE REMEDIATED SOUTH OF
 THE CANAL**



FIGURE
H-7b



LEGEND:

- - - - - CULVERT 105 (OPEN DITCH)
- CULVERT 105 (BURIED PIPE)
- AREAS EVALUATED IN CORRECTIVE MEASURES ALTERNATIVES
- AREAS IN THE CMS STUDY AREAS PREVIOUSLY REMEDIATED BY FMC AND NO FURTHER REMEDIATION NEEDED (GRAY)
- AK1 PROPERTY IDENTIFICATION NUMBER

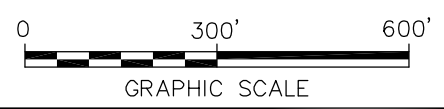
ESTIMATED REMEDIATION DEPTHS:

- 3-INCH
- 6-INCH
- 9-INCH
- 12-INCH
- 18-INCH
- 24-INCH
- 30-INCH OR GREATER (INCLUDES CULVERT BURIED PIPE REPLACEMENT)

NOTES:

1. BASEMAP OBTAINED FROM A FIGURE BY CONESTOGA-ROVERS AND ASSOCIATES ENTITLED "2003/2004 PROPOSED SAMPLING LOCATIONS" DATED OCTOBER 2003 AT A SCALE OF 1"=200'.
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5. CULVERT 105 TO BE REMOVED AND REPLACED AT PROPERTY AB2 (SHOWN BLUE FOR CLARITY).

DRAFT - MAY 2011



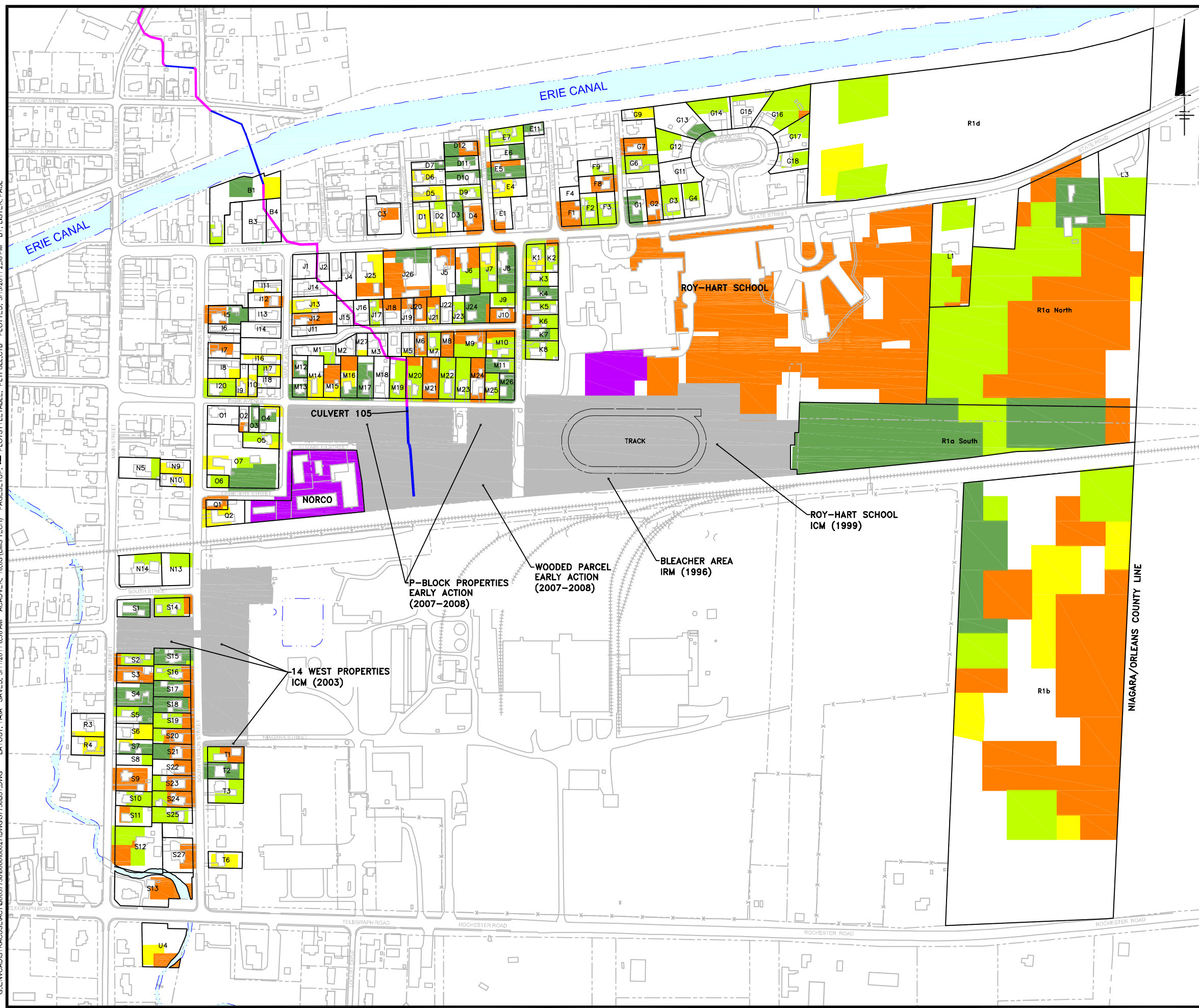
FMC CORPORATION - MIDDLEPORT, NEW YORK
CORRECTIVE MEASURES STUDY REPORT
 SUSPECTED AIR DEPOSITION AND
 CULVERT 105 STUDY AREAS

ALTERNATIVES 7a & 7b -
AREAS TO BE REMEDIATED NORTH OF
THE CANAL

ARCADIS

FIGURE
H-7c

CITY: SYRACUSE, NY; GROUP: ENVCAD; DB: P. LISTER; LD: P. LISTER; PICPMTM: S. COX; TR: D. WRIGHT; LYR: OPTION; OFF: REF; GAE: NVCAD; SYRACUSE; ACT: 190037236000000027; DWG: 19736851; DWG; LAYOUT: H-A; SAVED: 5/11/2011 8:38 AM; ACADVER: 18.05; (LMS TECH); PAGES: 2; PLOT: 1; PLOTDATE: 5/13/2011 2:56 PM; BY: LISTER, PAUL



LEGEND:

- AREAS EVALUATED IN CORRECTIVE MEASURES ALTERNATIVES
- AREAS IN THE CMS STUDY AREAS PREVIOUSLY REMEDIATED BY FMC AND NO FURTHER REMEDIATION NEEDED (GRAY)
- M23 PROPERTY IDENTIFICATION NUMBER

ESTIMATED REMEDIATION DEPTHS:

- 3-INCH
- 6-INCH
- 9-INCH
- 12-INCH
- 18-INCH
- 24-INCH
- 30-INCH OR GREATER (INCLUDES CULVERT BURIED PIPE REPLACEMENT)

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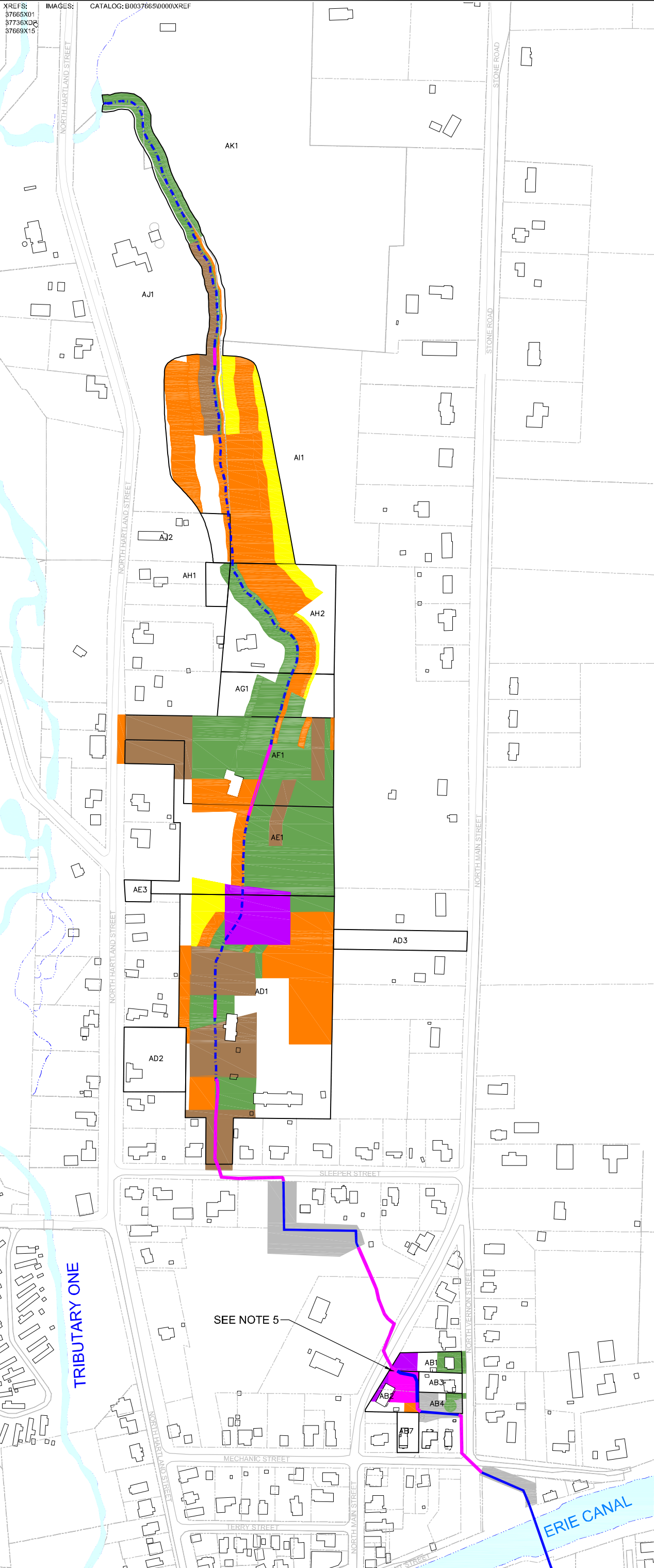
DRAFT - MAY 2011



**FMC CORPORATION - MIDDLEPORT, NEW YORK
 CORRECTIVE MEASURES STUDY REPORT
 SUSPECTED AIR DEPOSITION
 AND CULVERT 105 STUDY AREAS**
**ALTERNATIVE 8 -
 AREAS TO BE REMEDIATED SOUTH OF
 THE CANAL**



FIGURE
H-8a



LEGEND:

- - - - - CULVERT 105 (OPEN DITCH)
- CULVERT 105 (BURIED PIPE)
- AREAS EVALUATED IN CORRECTIVE MEASURES ALTERNATIVES
- AREAS IN THE CMS STUDY AREAS PREVIOUSLY REMEDIATED BY FMC AND NO FURTHER REMEDIATION NEEDED (GRAY)
- AK1 PROPERTY IDENTIFICATION NUMBER

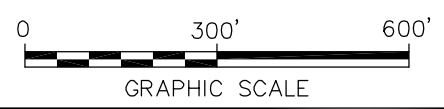
ESTIMATED REMEDIATION DEPTHS:

- 3-INCH
- 6-INCH
- 9-INCH
- 12-INCH
- 18-INCH
- 24-INCH
- 30-INCH OR GREATER (INCLUDES CULVERT BURIED PIPE REPLACEMENT)

NOTES:

1. BASEMAP OBTAINED FROM A FIGURE BY CONESTOGA-ROVERS AND ASSOCIATES ENTITLED "2003/2004 PROPOSED SAMPLING LOCATIONS" DATED OCTOBER 2003 AT A SCALE OF 1"=200'.
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5. CULVERT 105 TO BE REMOVED AND REPLACED AT PROPERTY AB2 (SHOWN BLUE FOR CLARITY).

DRAFT - MAY 2011



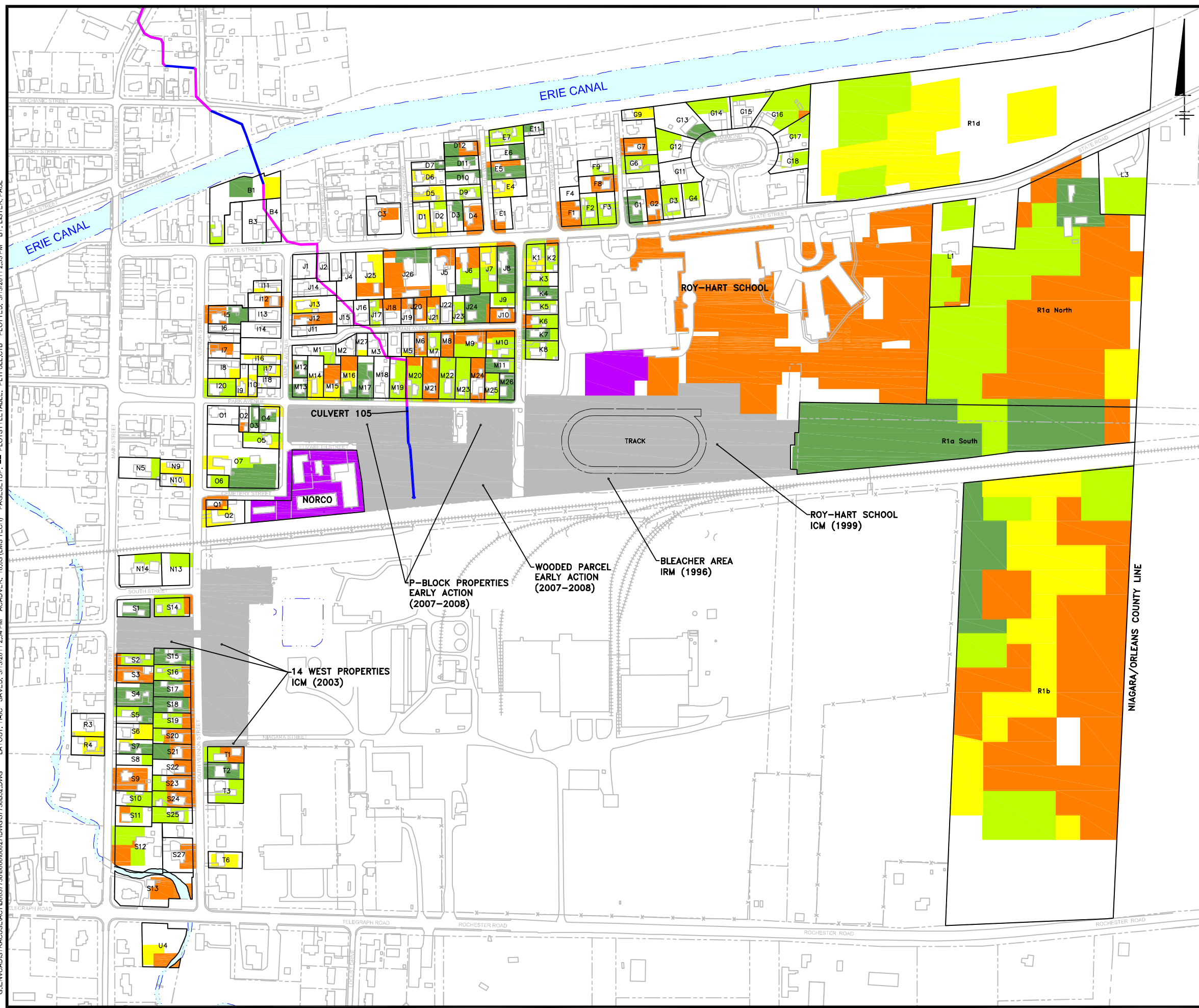
FMC CORPORATION - MIDDLEPORT, NEW YORK
CORRECTIVE MEASURES STUDY REPORT
 SUSPECTED AIR DEPOSITION AND
 CULVERT 105 STUDY AREAS

**ALTERNATIVE 8 -
 AREAS TO BE REMEDIATED NORTH OF
 THE CANAL**

ARCADIS

FIGURE
H-8b

CITY: SYRACUSE, NY; GROUP: ENVCAD; DB: P. LISTER; LD: P. LISTER; PICPMTM: S. COX; TR: D. WRIGHT; LYR: OPTION; OFF: REF; GAE: ENVCAD; SYRACUSE; ACT: 1900377360000000027; DWG: 19736852; DWG; LAYOUT: H-K; SAVED: 5/13/2011 2:54 PM; ACADVER: 18.05; (LMS TEC); PAGESETUP: ---; PLOTSTYLETABLE: PLT: LULL.CTB; PLOTTED: 5/13/2011 2:56 PM; BY: LISTER, PAUL



LEGEND:

- CULVERT 105 (BURIED PIPE)
- AREAS EVALUATED IN CORRECTIVE MEASURES ALTERNATIVES
- AREAS IN THE CMS STUDY AREAS PREVIOUSLY REMEDIATED BY FMC AND NO FURTHER REMEDIATION NEEDED (GRAY)
- M23 PROPERTY IDENTIFICATION NUMBER

ESTIMATED REMEDIATION DEPTHS:

- 3-INCH
- 6-INCH
- 9-INCH
- 12-INCH
- 18-INCH
- 24-INCH
- 30-INCH OR GREATER (INCLUDES CULVERT BURIED PIPE REPLACEMENT)

NOTES:

1. BASEMAP OBTAINED FROM A FIGURE BY CONESTOGA-ROVERS AND ASSOCIATES ENTITLED "2003/2004 PROPOSED SAMPLING LOCATIONS" DATED OCTOBER 2003 AT A SCALE OF 1"=200'.
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DRAFT - MAY 2011

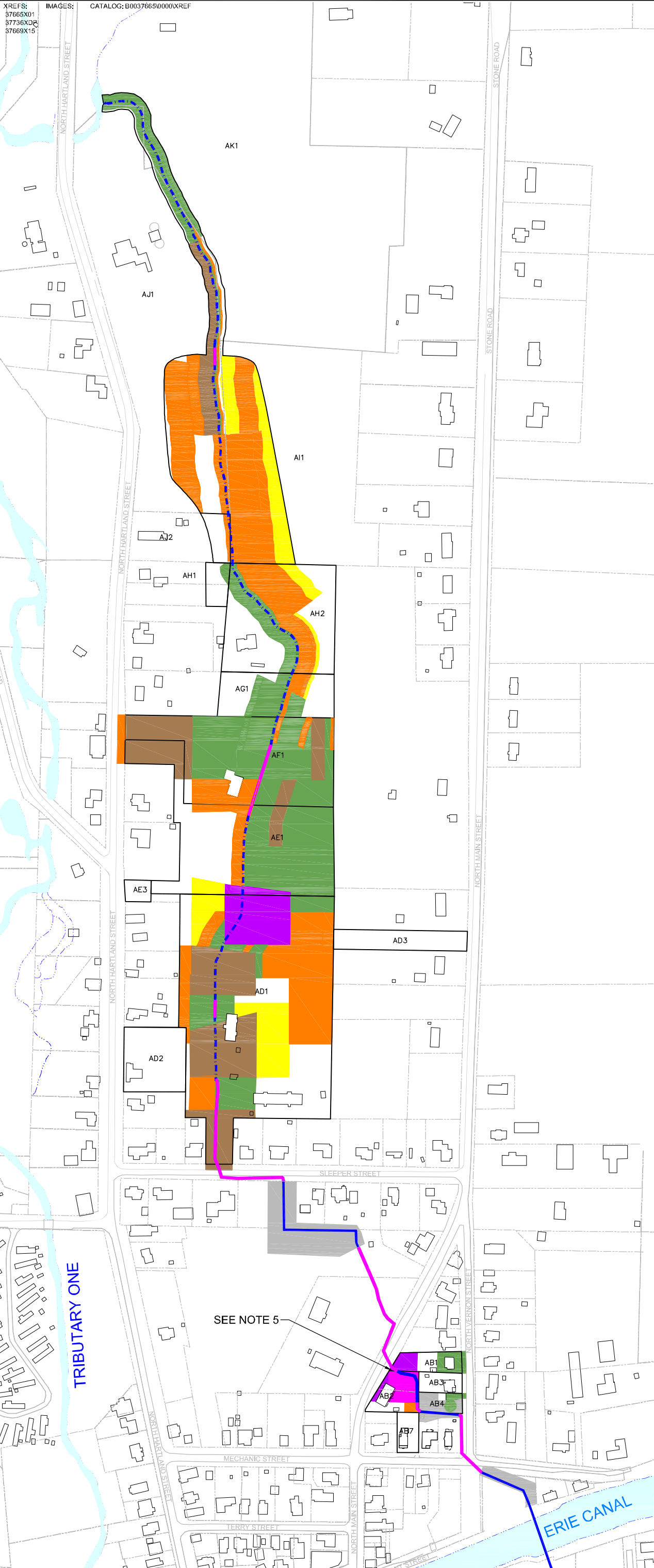


FMC CORPORATION - MIDDLEPORT, NEW YORK
**CORRECTIVE MEASURES STUDY REPORT
 SUSPECTED AIR DEPOSITION
 AND CULVERT 105 STUDY AREAS**

**ALTERNATIVE 8 -
 AREAS TO BE REMEDIATED SOUTH OF
 THE CANAL**



FIGURE
H-8c



LEGEND:

- CULVERT 105 (OPEN DITCH)
- CULVERT 105 (BURIED PIPE)
- AREAS EVALUATED IN CORRECTIVE MEASURES ALTERNATIVES
- AREAS IN THE CMS STUDY AREAS PREVIOUSLY REMEDIATED BY FMC AND NO FURTHER REMEDIATION NEEDED (GRAY)
- AK1 PROPERTY IDENTIFICATION NUMBER

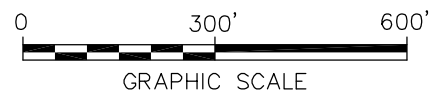
ESTIMATED REMEDIATION DEPTHS:

- 3-INCH
- 6-INCH
- 9-INCH
- 12-INCH
- 18-INCH
- 24-INCH
- 30-INCH OR GREATER (INCLUDES CULVERT BURIED PIPE REPLACEMENT)

NOTES:

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5. CULVERT 105 TO BE REMOVED AND REPLACED AT PROPERTY AB2 (SHOWN BLUE FOR CLARITY).

DRAFT - MAY 2011



FMC CORPORATION - MIDDLEPORT, NEW YORK
CORRECTIVE MEASURES STUDY REPORT
 SUSPECTED AIR DEPOSITION AND
 CULVERT 105 STUDY AREAS

ALTERNATIVE 8 -
AREAS TO BE REMEDIATED NORTH OF
THE CANAL - USING DATA AVERAGING
AREAS METHOD

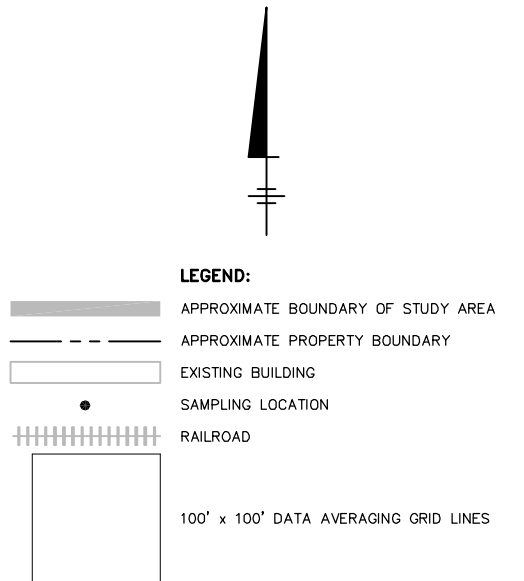


FIGURE
H-8d

CITY: SYRACUSE GROUP: ENVCAD DB: P. LISTER LD: P. LISTER LYRON OF REF: FRZ
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 PLOT: PLT: LULLCTB PLOTTED: 5/10/2011 10:04 AM BY: LISTER, PAUL
 XREFS: 37665X01 37736X01



Soil Arsenic Averages		
Grid ID	Surface Average (mg/kg)	All Depths Average (mg/kg)
1	11	9
2	12	14
3	9	9
4	5	11
5	10	14
6	15	16
7	20	18
8	5	12
9	5	12
10	5	10
11	9	13
12	14	15
13	15	16
14	5	10
15	11	17
16	11	15
17	8	11
18	14	13
19	16	15
20	5	8
21	11	15
22	16	18
23	17	14
24	18	15
25	20	18
26	5	6
27	5	5
28	5	7
29	5	13
30	16	17
31	19	15
32	13	13
33	18	18
34	5	6
35	5	5
36	5	6
37	5	12
38	11	14
39	11	11
40	15	15
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42	5	7
43	5	7
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45	5	9
46	11	12
47	11	11
48	14	15
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54	15	12
55	11	9
56	9	10
57	19	16
58	13	14
59	5	5
60	5	5
61	5	5
62	5	5
63	5	6
64	5	6
65	5	7
66	5	11
67	9	12
68	5	5
69	5	5
70	5	5
71	5	5



DATA AVERAGING AREA

- NOTES:**
1. BASEMAP OBTAINED FROM A FIGURE BY CONESTOGA-ROVERS AND ASSOCIATES TITLED "2003/2004 PROPOSED SAMPLING LOCATIONS" DATED OCTOBER 2003 AT A SCALE OF 1"=200'.
 2. ALL LOCATIONS AND PROPERTY BOUNDARIES SHOWN ARE APPROXIMATE AND SUBJECT TO VERIFICATION.
 3. AVERAGE CONCENTRATIONS ARE DEVELOPED FOR EACH OF THE 71 DATA AVERAGING AREAS BY INCLUDING ALL DATA WITHIN OR ALONG THE BOUNDARY OF THE DATA AVERAGING AREA.

DRAFT - MAY 2011

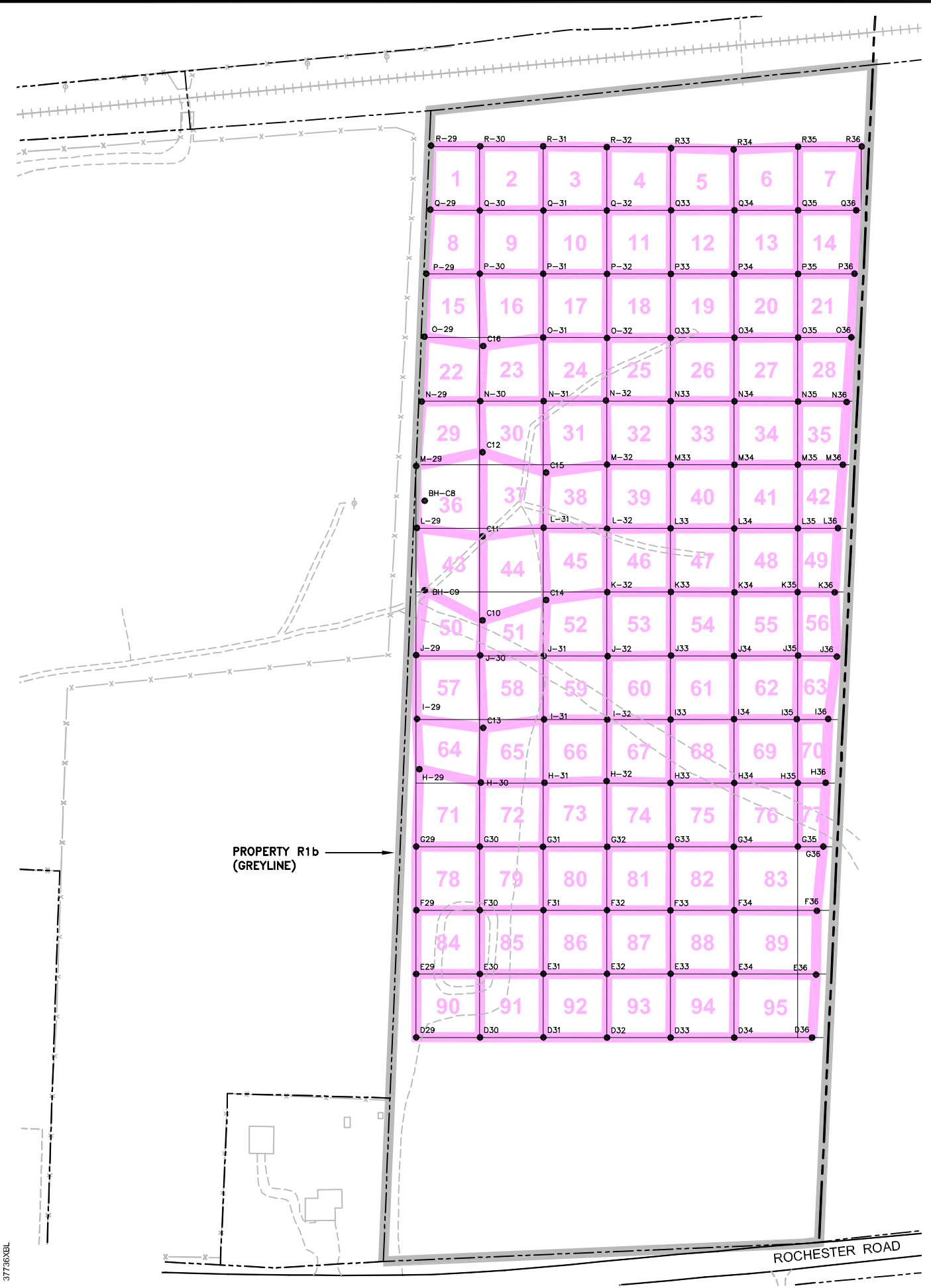


FMC CORPORATION - MIDDLEPORT, NEW YORK
CORRECTIVE MEASURES STUDY REPORT
SUSPECTED AIR DEPOSITION
AND CULVERT 105 STUDY AREAS

DATA AVERAGING AREAS
FOR PROPERTIES
R1a-NORTH AND R1a-SOUTH

FIGURE
H-9a

CITY: SYRACUSE GROUP: ENVCAD DB: P. LISTER LD: D. WRIGHT LYRON OFF: REF. FRZ
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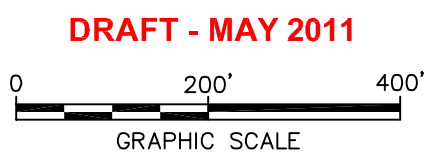
Soil Arsenic Averages		
Grid ID	Surface Average (mg/kg)	All Depths Average (mg/kg)
1	11	10
2	11	15
3	10	17
4	15	19
5	15	17
6	14	15
7	15	15
8	5	8
9	10	14
10	15	19
11	17	18
12	17	17
13	18	18
14	18	18
15	5	5
16	14	17
17	19	21
18	13	17
19	16	14
20	17	15
21	8	11
22	11	8
23	16	15
24	15	18
25	10	17
26	14	14
27	14	13
28	5	8
29	11	8
30	11	12
31	14	13
32	19	16
33	15	15
34	15	13
35	10	11
36	5	6
37	9	14
38	16	16
39	16	17
40	10	14
41	15	15
42	15	15
43	5	5
44	9	14
45	16	18
46	16	19
47	9	14
48	10	13
49	10	13
50	12	12
51	13	18
52	12	17
53	17	18
54	13	14
55	5	8
56	5	9
57	18	17
58	18	20
59	12	17
60	17	18
61	18	16
62	10	11
63	10	11
64	14	16
65	14	19
66	13	18
67	17	18
68	19	18
69	12	12
70	10	11
71	16	18
72	13	19
73	9	13
74	13	13
75	20	18
76	18	15
77	13	13
78	15	17
79	16	16
80	14	10
81	14	9
82	15	11
83	15	14
84	16	18
85	17	16
86	14	10
87	15	9
88	10	9
89	5	8
90	20	18
91	12	13
92	8	7
93	15	12
94	15	14
95	11	10

LEGEND:

- APPROXIMATE BOUNDARY OF STUDY AREA
- APPROXIMATE PROPERTY BOUNDARY
- EXISTING BUILDING
- SAMPLING LOCATION
- RAILROAD
- 100' x 100' DATA AVERAGING GRID LINES

DATA AVERAGING AREA

- NOTES:**
- BASEMAP OBTAINED FROM A FIGURE BY CONESTOGA-ROVERS AND ASSOCIATES TITLED "2003/2004 PROPOSED SAMPLING LOCATIONS" DATED OCTOBER 2003 AT A SCALE OF 1"=200'.
 - ALL LOCATIONS AND PROPERTY BOUNDARIES SHOWN ARE APPROXIMATE AND SUBJECT TO VERIFICATION.
 - AVERAGE CONCENTRATIONS ARE DEVELOPED FOR EACH OF THE 95 DATA AVERAGING AREAS BY INCLUDING ALL DATA WITHIN OR ALONG THE BOUNDARY OF THE DATA AVERAGING AREA.

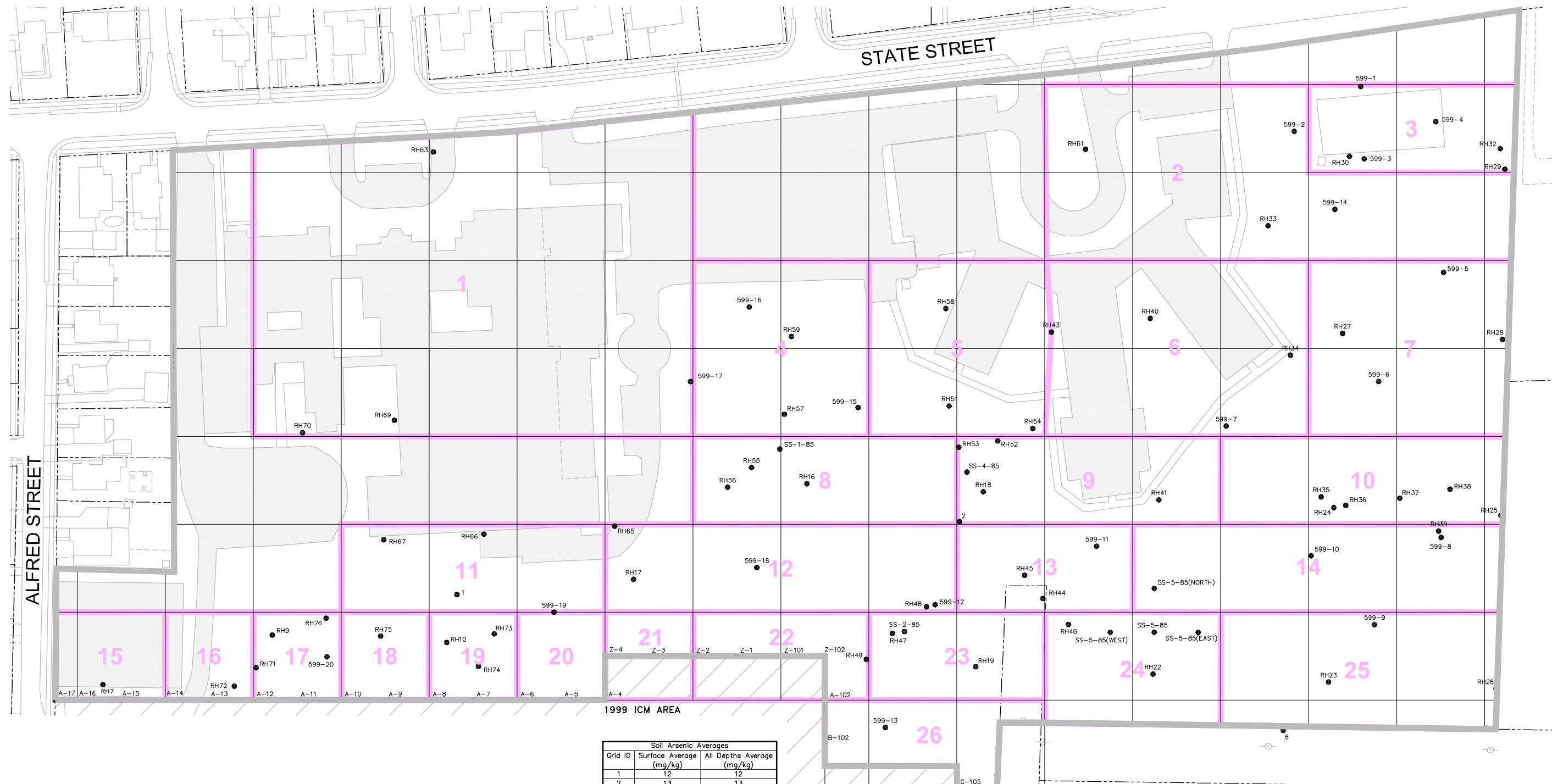


FMC CORPORATION - MIDDLEPORT, NEW YORK
 CORRECTIVE MEASURES STUDY REPORT
 SUSPECTED AIR DEPOSITION
 AND CULVERT 105 STUDY AREAS

**DATA AVERAGING AREAS
 FOR PROPERTY R1b**

FIGURE
H-9b

CITY: SYRACUSE GROUP: ENVCAD DB: P. LISTER LD: P. LISTER FN: D. WRIGHT LYRON OFF: REF: FRZ
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 XREFS: PROJECTNAME: --- IMAGES: ---



1999 ICM AREA

Soil Arsenic Averages		
Grid ID	Surface Average (mg/kg)	All Depths Average (mg/kg)
1	12	12
2	13	13
3	6	6
4	5	5
5	11	11
6	10	10
7	13	13
8	12	11
9	8	8
10	9	9
11	9	8
12	13	12
13	18	15
14	7	7
15	18	6
16	18	5
17	9	5
18	5	5
19	12	6
20	5	6
21	NA	6
22	18	5
23	10	10
24	9	9
25	12	12
26	5	5

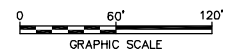
LEGEND:

- APPROXIMATE BOUNDARY OF STUDY AREA
- APPROXIMATE PROPERTY BOUNDARY
- EXISTING BUILDING
- SAMPLING LOCATION
- 100' x 100' DATA AVERAGING GRID LINES

DATA AVERAGING AREA

- NOTES:**
- BASEMAP OBTAINED FROM A FIGURE BY CONESTOGA-ROVERS AND ASSOCIATES TITLED "2003/2004 PROPOSED SAMPLING LOCATIONS" DATED OCTOBER 2003 AT A SCALE OF 1"=200'
 - ALL LOCATIONS ARE APPROXIMATE.
 - AVERAGE CONCENTRATIONS ARE DEVELOPED FOR EACH OF THE 26 DATA AVERAGING AREAS BY INCLUDING ALL DATA WITHIN OR ALONG THE BOUNDARY OF THE DATA AVERAGING AREA.
 - NA = NO SURFACE SAMPLES AVAILABLE IN THIS DATA AVERAGING AREA.

DRAFT - MAY 2011

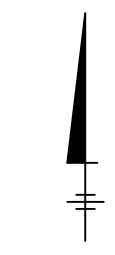
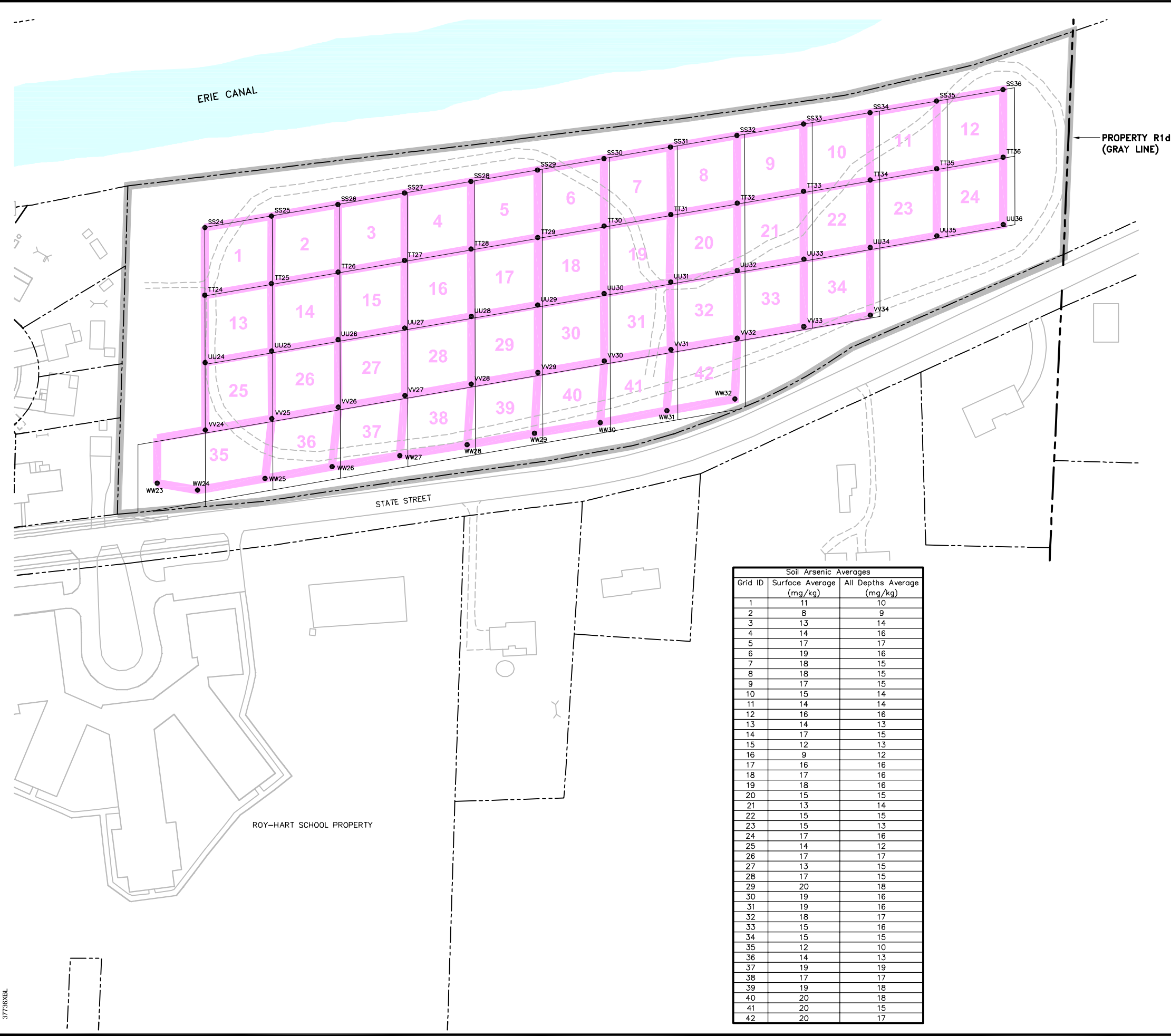


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CORRECTIVE MEASURES STUDY REPORT
SUSPECTED AIR DEPOSITION
AND CULVERT 105 STUDY AREAS
DATA AVERAGING AREAS FOR
ROY-HART SCHOOL PROPERTY
NON-ICM AREA



FIGURE
H-9c

CITY: SYRACUSE GROUP; ENVCAD DB: P. LISTER; LD: P. LISTER; PNC: D. WRIGHT; LYRON: OFF; REF: FRZ
 G:\ENVCAD\SYRACUSE\ACT\B0037236\0000000027\DWG\37736B37.DWG LAYOUT: H-9d SAVED: 4/28/2011 8:43 AM
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 XREFS: IMAGES: CATALOG: B0037665\0000\KREF



- LEGEND:**
- APPROXIMATE BOUNDARY STUDY AREA
 - APPROXIMATE PROPERTY BOUNDARY
 - EXISTING BUILDING
 - SAMPLING LOCATION
 - 100' x 100' DATA AVERAGING GRID LINES

DATA AVERAGING AREA

- NOTES:**
1. BASEMAP OBTAINED FROM A FIGURE BY CONESTOGA-ROVERS AND ASSOCIATES TITLED "2003/2004 PROPOSED SAMPLING LOCATIONS" DATED OCTOBER 2003 AT A SCALE OF 1"=200'.
 2. ALL LOCATIONS AND PROPERTY BOUNDARIES SHOWN ARE APPROXIMATE AND SUBJECT TO VERIFICATION.
 3. AVERAGE CONCENTRATIONS ARE DEVELOPED FOR EACH OF THE 42 DATA AVERAGING AREAS BY INCLUDING ALL DATA WITHIN OR ALONG THE BOUNDARY OF THE DATA AVERAGING AREA.

Soil Arsenic Averages		
Grid ID	Surface Average (mg/kg)	All Depths Average (mg/kg)
1	11	10
2	8	9
3	13	14
4	14	16
5	17	17
6	19	16
7	18	15
8	18	15
9	17	15
10	15	14
11	14	14
12	16	16
13	14	13
14	17	15
15	12	13
16	9	12
17	16	16
18	17	16
19	18	16
20	15	15
21	13	14
22	15	15
23	15	13
24	17	16
25	14	12
26	17	17
27	13	15
28	17	15
29	20	18
30	19	16
31	19	16
32	18	17
33	15	16
34	15	15
35	12	10
36	14	13
37	19	19
38	17	17
39	19	18
40	20	18
41	20	15
42	20	17

DRAFT - MAY 2011



FMC CORPORATION - MIDDLEPORT, NEW YORK
CORRECTIVE MEASURES STUDY REPORT
SUSPECTED AIR DEPOSITION
AND CULVERT 105 STUDY AREAS

DATA AVERAGING AREAS FOR
PROPERTY R1d

ARCADIS

FIGURE
H-9d

CITY: SYRACUSE GROUP; ENVCAD DB: P. LISTER LD: D. WRIGHT LYRON; OFF: REF. (FRZ)
 G:\ENVCAD\S\RACUSE\ACT\B003726\000000002\DWG\37736C13.DWG LAYOUT: H4E SAVED: 4/28/2011 8:30 AM
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 XREFS: IMAGES: CATALOG: B0037665000000REF



Soil Arsenic Averages		
Grid ID	Surface Average (mg/kg)	All Depths Average (mg/kg)
1	5	6
2	8	6
3	7	7
4	5	7
5	6	5
6	9	6
7	7	6
8	5	6
9	10	7
10	7	7
11	6	6
12	5	6
13	8	7
14	8	8
15	7	7
16	16	10
17	14	10
18	17	13
19	5	7
20	10	11
21	18	13
22	15	13
23	16	15
24	8	9
25	7	9
26	11	9
27	12	10
28	12	10
29	11	10
30	10	11
31	10	8

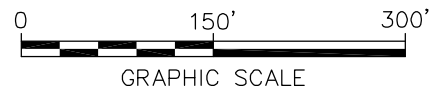
LEGEND:

- APPROXIMATE BOUNDARY OF STUDY AREA
- APPROXIMATE PROPERTY BOUNDARY
- EXISTING BUILDING
- SAMPLE LOCATION
- CULVERT 105 (OPEN DITCH PORTION)
- CULVERT 105 (UNDERGROUND PORTION)
- 100' x 100' DATA AVERAGING GRID LINES

DATA AVERAGING AREA

- NOTES:**
- BASEMAP OBTAINED FROM A FIGURE BY CONESTOGA-ROVERS AND ASSOCIATES TITLED "2003/2004 PROPOSED SAMPLING LOCATIONS" DATED OCTOBER 2003 AT A SCALE OF 1"=200'.
 - ADDITIONAL SURVEY INFORMATION PROVIDED BY McINTOSH AND McINTOSH, INC. SURVEYORS, WITH A HORIZONTAL DATUM OF NAD27 AND A VERTICAL DATUM OF NGVD29.
 - ALL LOCATIONS AND PROPERTY BOUNDARIES SHOWN ARE APPROXIMATE AND SUBJECT TO VERIFICATION.
 - AVERAGE CONCENTRATIONS ARE DEVELOPED FOR EACH OF THE 31 DATA AVERAGING AREAS BY INCLUDING ALL DATA WITHIN OR ALONG THE BOUNDARY OF THE DATA AVERAGING AREA.

DRAFT - MAY 2011



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**CORRECTIVE MEASURES STUDY REPORT
 SUSPECTED AIR DEPOSITION
 AND CULVERT 105 STUDY AREAS**

**DATA AVERAGING AREAS FOR
 PROPERTIES AD1, AE1, AND AF1**