

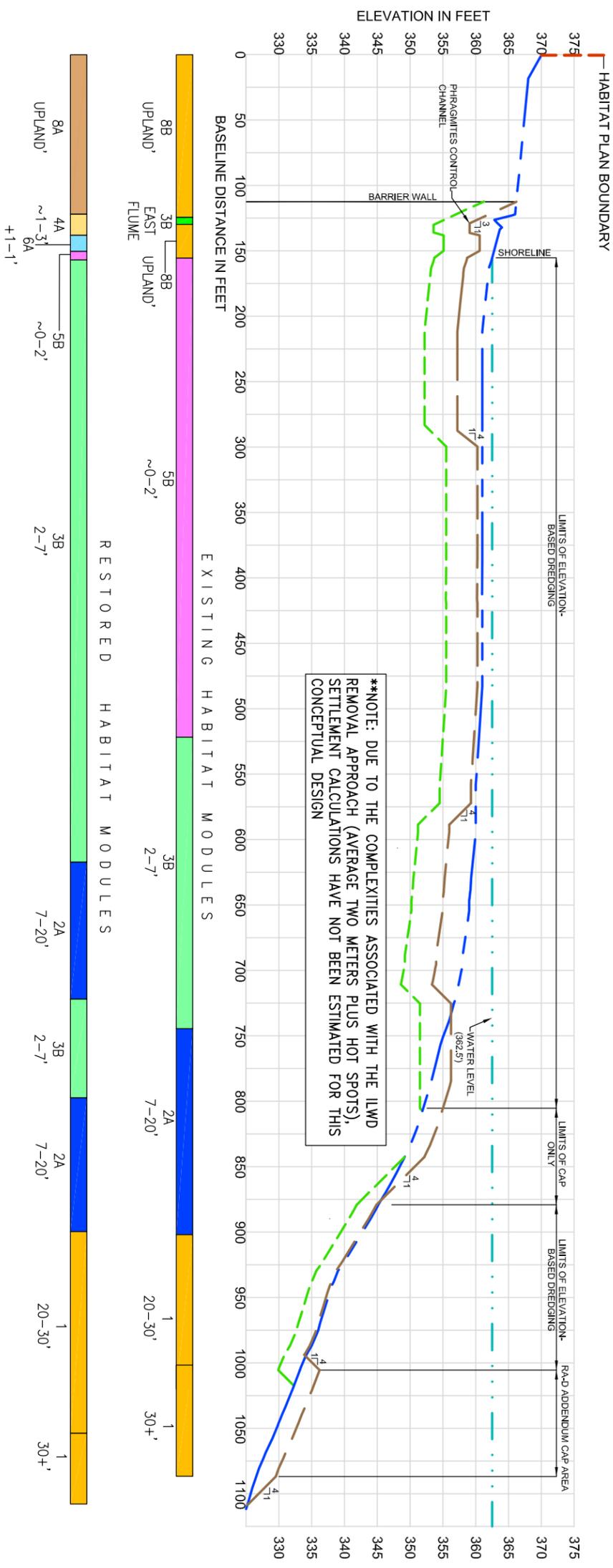
REMEDIATION AREA D – SECTION RAD-1
 Vertical: 1"=20'-0"
 Horizontal: 1"=100'-0"

****NOTE**
 1. DETAILED ASSUMPTIONS FOR CAP THICKNESS AND SETTLEMENT ARE CONSISTENT WITH THOSE SPECIFIED IN THE CAPPING AND DREDGE AREA AND DEPTH IDS

- LEGEND:
- . . - . . - WATERLINE (362.5 NAVD 88) (GROWING SEASON)
 - - - - - EXISTING GRADE
 - - - - - DREDGE GRADE
 - - - - - CAP GRADE

FIGURE 5.10

Honeywell
 CONCEPTUAL CROSS SECTION
 REMEDIATION AREA D (SMU 1)
 SECTION RAD-1



REMEDIATION AREA D – SECTION RAD-2

Vertical: 1"=20'-0"

Horizontal: 1"=100'-0"

- **NOTE**
1. DETAILED ASSUMPTIONS FOR CAP THICKNESS AND SETTLEMENT ARE CONSISTENT WITH THOSE SPECIFIED IN THE CAPPING AND DREDGE AREA AND DEPTH IDS
 2. CROSS SECTION IS CONSISTENT WITH SECTION 18/D-18 FROM CAPPING AND DREDGE AREA AND DEPTH IDS

FILE NAME: P:\HONEYWELL -SYR\444284 - HABITAT AND CPP \1\10 TECHNICAL CATEGORIES\10.1 CAD\FROM ANCHOR OEA\HABITAT 11-09 XSEC5.DWG
 PLOT DATE: 12/14/2009 9:23 AM PLOTTED BY: NEUMANN, JEREMY

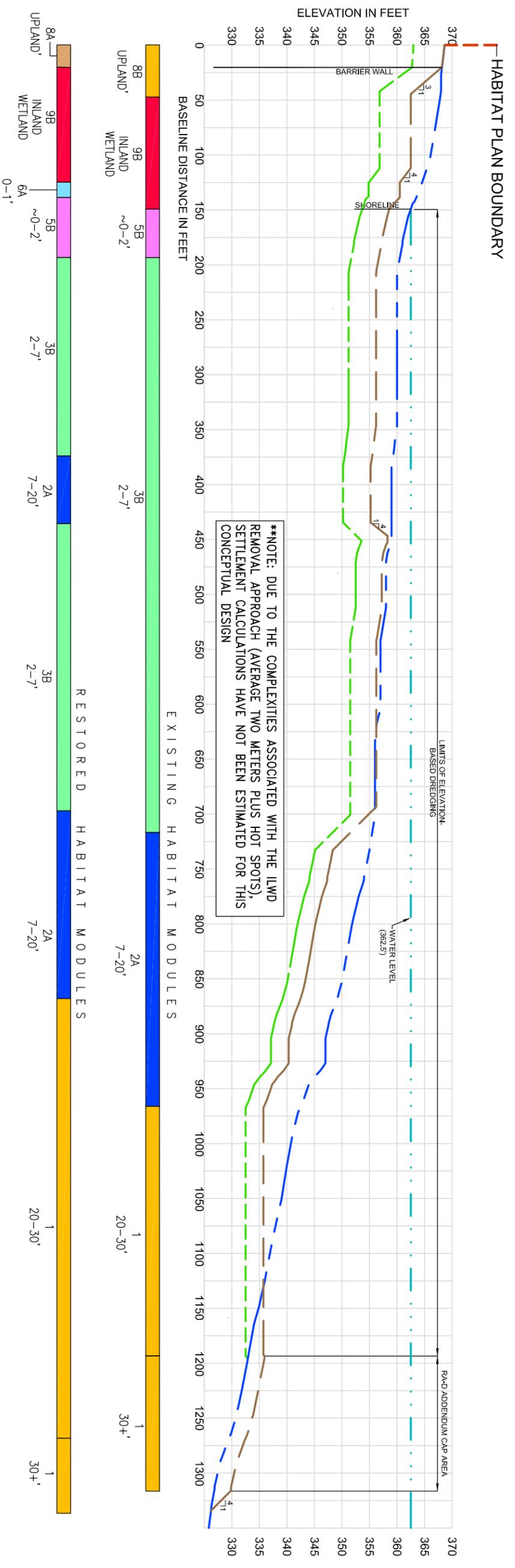
LEGEND:

- . . - . . - WATERLINE (362.5 NAVD 88) (GROWING SEASON)
- - - - - EXISTING GRADE
- - - - - DREDGE GRADE
- - - - - CAP GRADE

FIGURE 5.11

Honeywell

CONCEPTUAL CROSS SECTION
 REMEDIATION AREA D (SMU 1)
 SECTION RAD-2



REMEDIATION AREA D – SECTION RAD-3

Vertical: 1"=20'-0"

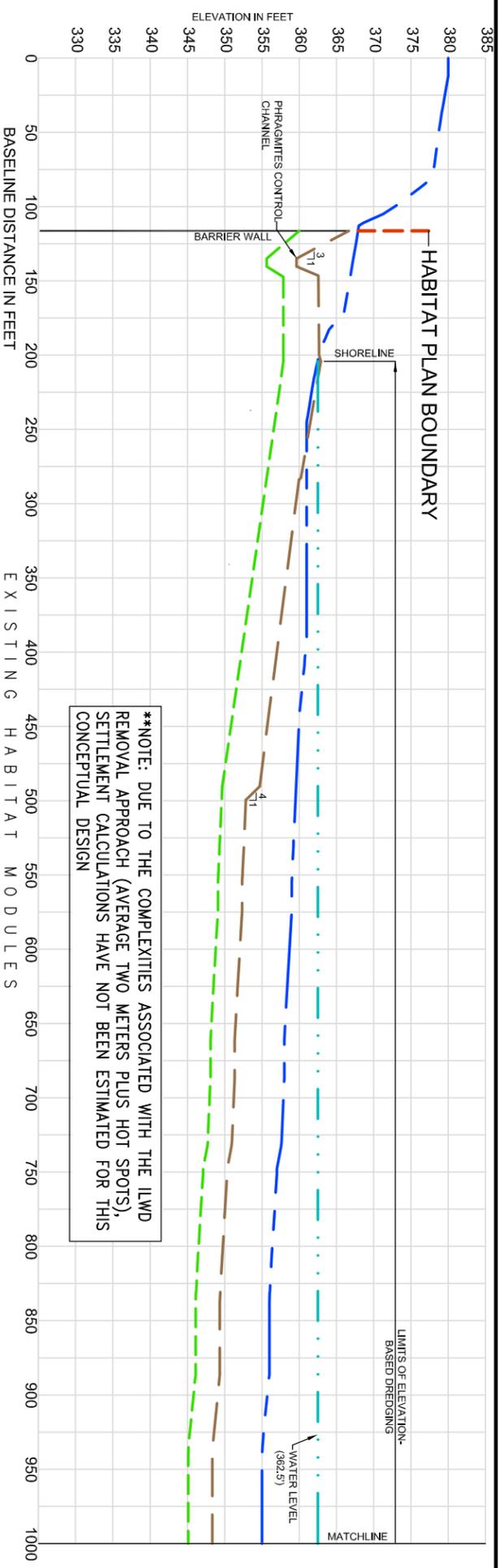
Horizontal: 1"=100'-0"

- **NOTE**
1. DETAILED ASSUMPTIONS FOR CAP THICKNESS AND SETTLEMENT ARE CONSISTENT WITH THOSE SPECIFIED IN THE CAPPING AND DREDGE AREA AND DEPTH IDS
 2. CROSS SECTION IS CONSISTENT WITH SECTION 19/D-19 FROM CAPPING AND DREDGE AREA AND DEPTH IDS

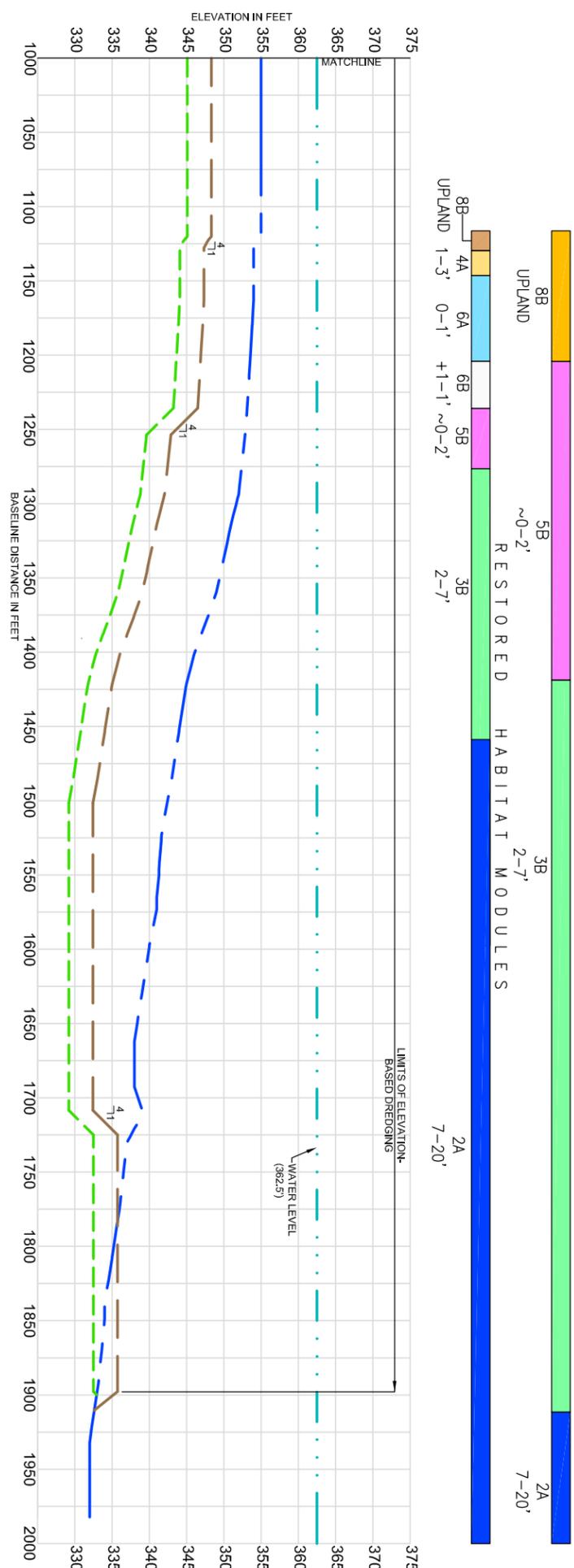
- LEGEND:**
- - - WATERLINE (362.5 NAVD 88) (GROWING SEASON)
 - - - EXISTING GRADE
 - - - DREDGE GRADE
 - - - CAP GRADE

FIGURE 5.12

Honeywell
 CONCEPTUAL CROSS SECTION
 REMEDIATION AREA D (SMU 1)
 SECTION RAD-3



****NOTE: DUE TO THE COMPLEXITIES ASSOCIATED WITH THE ILWD REMOVAL APPROACH (AVERAGE TWO METERS PLUS HOT SPOTS), SETTLEMENT CALCULATIONS HAVE NOT BEEN ESTIMATED FOR THIS CONCEPTUAL DESIGN**



- **NOTE**
1. DETAILED ASSUMPTIONS FOR CAP THICKNESS AND SETTLEMENT ARE CONSISTENT WITH THOSE SPECIFIED IN THE CAPPING AND DREDGE AREA AND DEPTH IDS
 2. CROSS SECTION IS CONSISTENT WITH SECTION 21/D-20 FROM CAPPING AND DREDGE AREA AND DEPTH IDS

REMEDIATION AREA D -- SECTION RAD-4

Vertical: 1" = 20'-0"

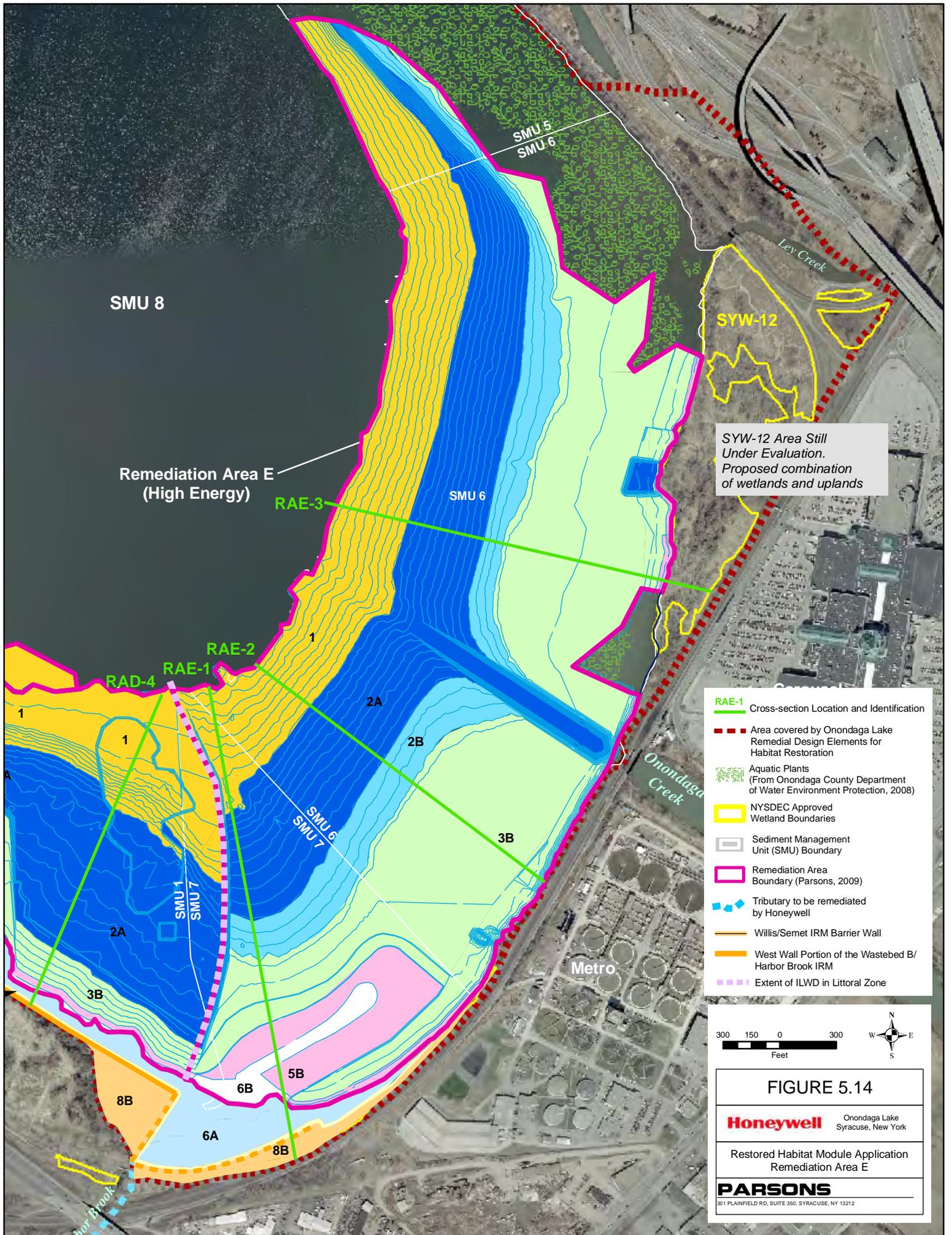
Horizontal: 1" = 100'-0"

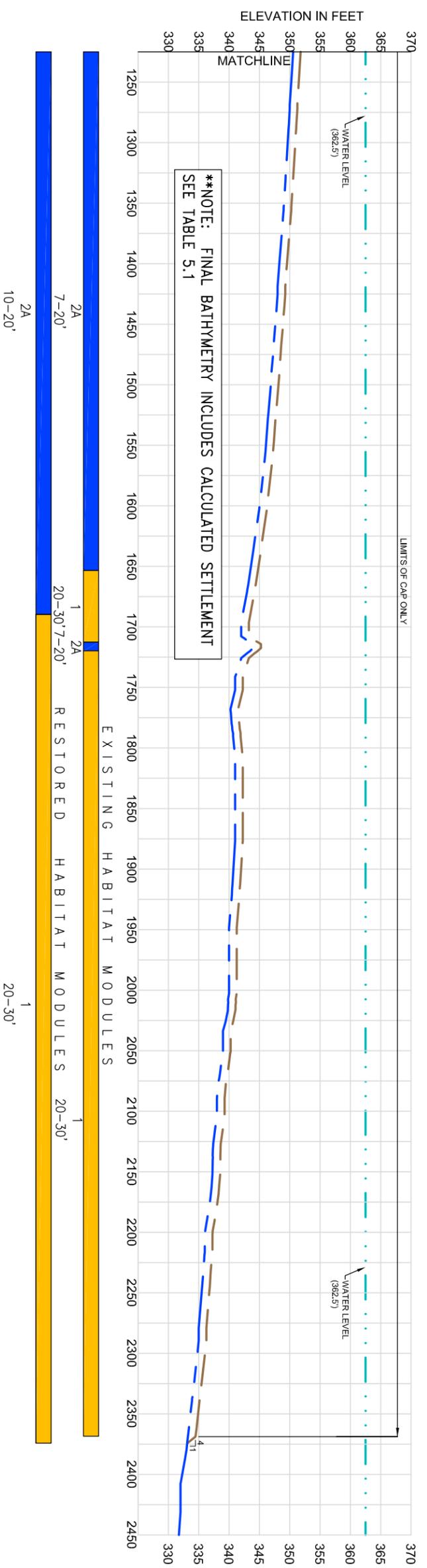
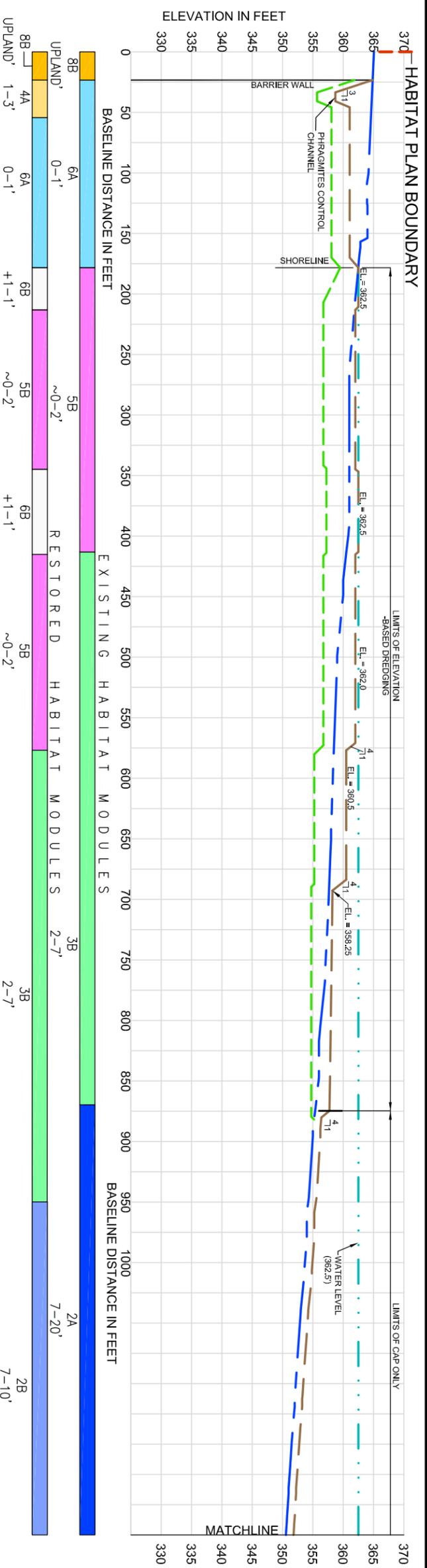
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Honeywell

CONCEPTUAL CROSS SECTION
 REMEDIATION AREA D (SMU 1)
 SECTION RAD-4





REMEDIATION AREA E - SECTION RAE-1

Vertical: 1" = 20'-0"

Horizontal: 1" = 100'-0"

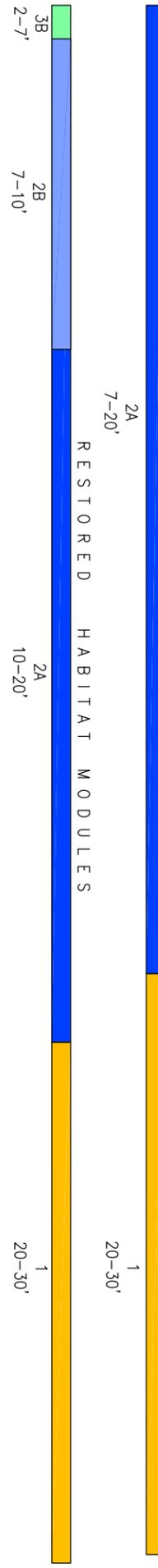
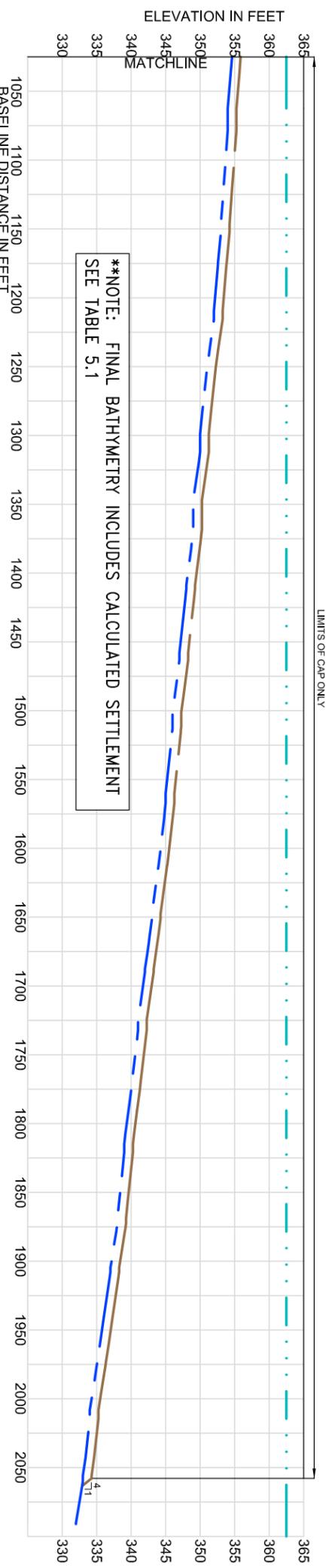
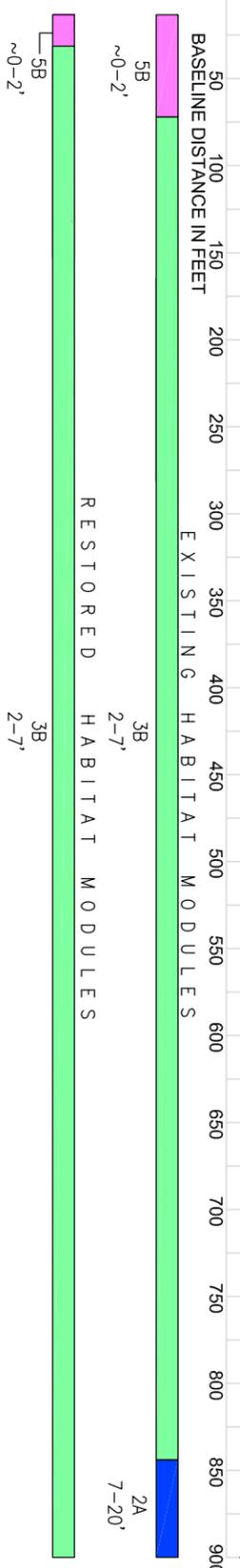
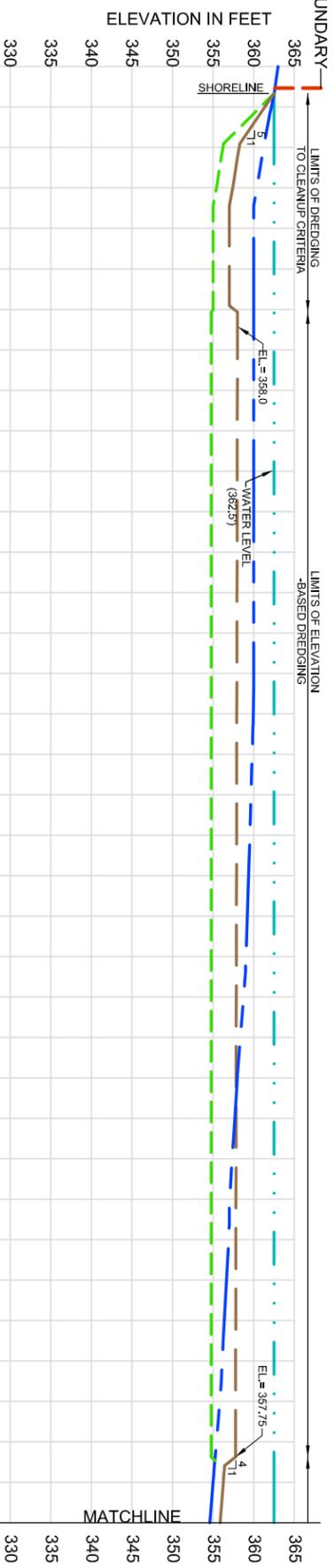
- **NOTE**
1. DETAILED ASSUMPTIONS FOR CAP THICKNESS AND SETTLEMENT ARE CONSISTENT WITH THOSE SPECIFIED IN THE CAPPING AND DREDGE AREA AND DEPTH IDS
 2. CROSS SECTION IS CONSISTENT WITH SECTION 23/D-21 FROM CAPPING AND DREDGE AREA AND DEPTH IDS

- LEGEND:**
- . - . WATERLINE (362.5 NAVD 88) (GROWING SEASON)
 - - - - EXISTING GRADE
 - - - - DREDGE GRADE
 - - - - CAP GRADE

FIGURE 5.15

Honeywell

CONCEPTUAL CROSS SECTION
REMEDIATION AREA E (SMU 7)
SECTION RAE-1



****NOTE: FINAL BATHYMETRY INCLUDES CALCULATED SETTLEMENT
SEE TABLE 5.1**

REMEDIATION AREA E -- SECTION RAE-2

Vertical: 1"=20'-0"
Horizontal: 1"=100'-0"

- **NOTE**
1. DETAILED ASSUMPTIONS FOR CAP THICKNESS AND SETTLEMENT ARE CONSISTENT WITH THOSE SPECIFIED IN THE CAPPING AND DREDGE AREA AND DEPTH IDS
 2. CROSS SECTION IS CONSISTENT WITH SECTION 27/D-23 FROM CAPPING AND DREDGE AREA AND DEPTH IDS

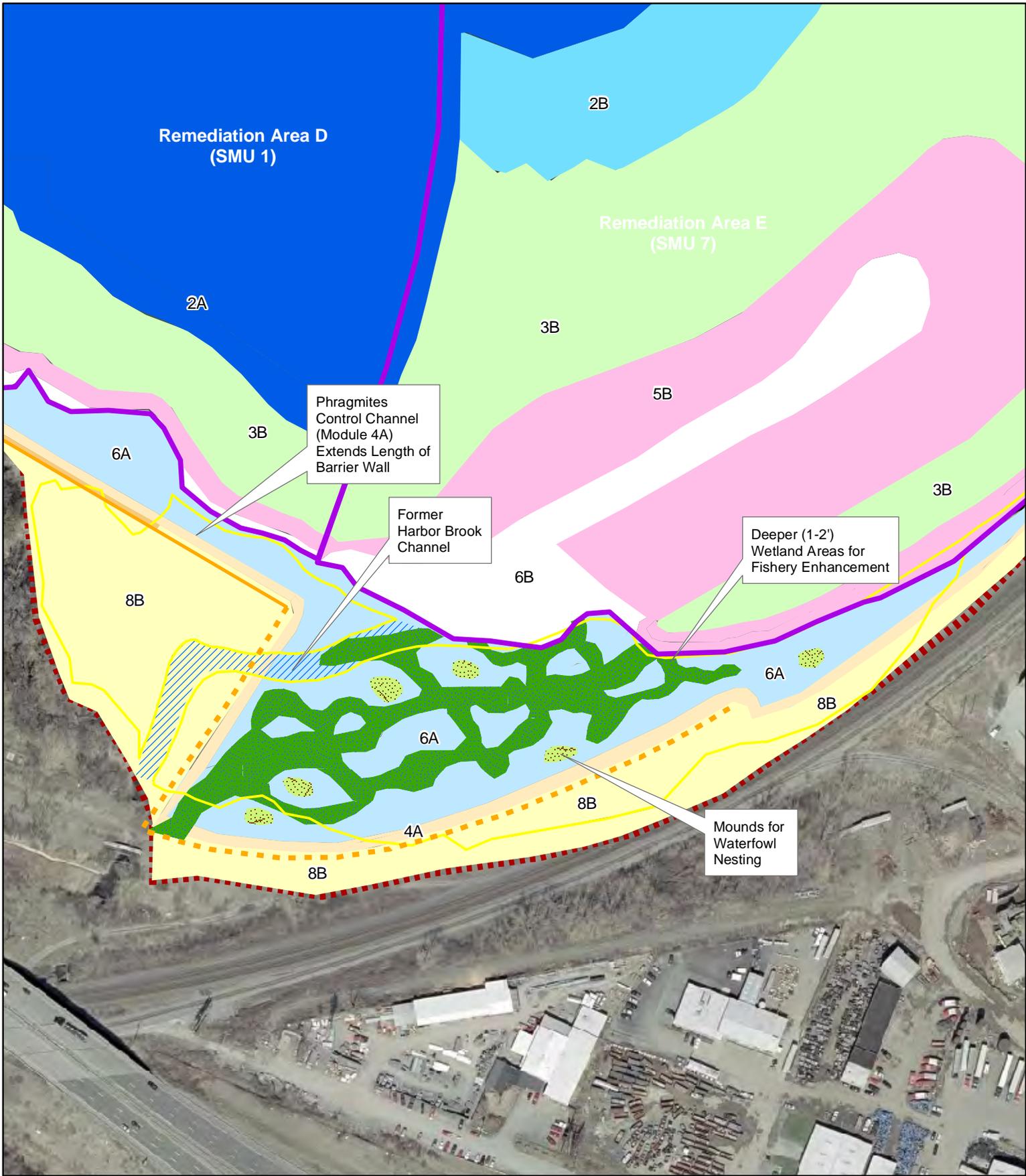
LEGEND:

- . - . - . WATERLINE (362.5 NAVD 88) (GROWING SEASON)
- - - - - EXISTING GRADE
- - - - - DREDGE GRADE
- - - - - CAP GRADE

FIGURE 5.16

Honeywell
CONCEPTUAL CROSS SECTION
REMEDIATION AREA E (SMU 6/7)
SECTION RAE-2

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-  NYSDEC Approved Wetland Boundaries
-  Sediment Management Unit (SMU) Boundary
-  Remediation Area Boundary (Parsons, 2009)

-  Area covered by Onondaga Lake Remedial Design Elements for Habitat Restoration
-  West Wall Portion of the WB-B/HB IRM
-  Approximate location of East Wall Portion of the WB-B/HB IRM

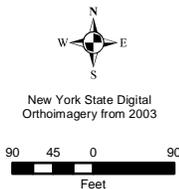


FIGURE 5.18

Honeywell Onondaga Lake
Syracuse, New York

Conceptual Plan for Lower Harbor Brook and Adjacent Wetland Areas

PARSONS
301 PLAINFIELD RD, SUITE 350, SYRACUSE, NY 13212

C:\GIS\GIS_Lake\HAB_PA\HAB_graphic.mxd 9/11/2008 -- 9:04:32 AM

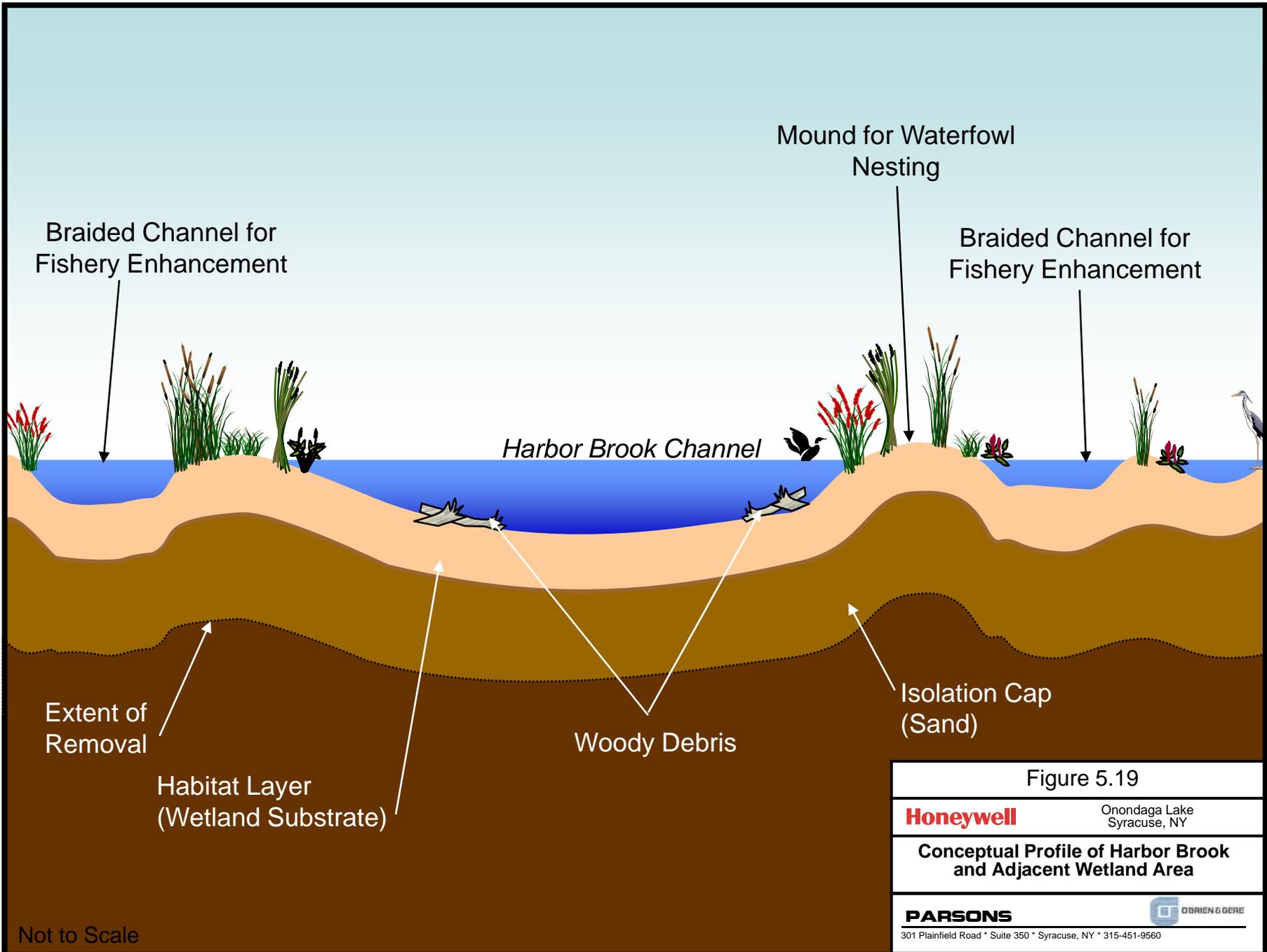
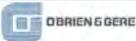
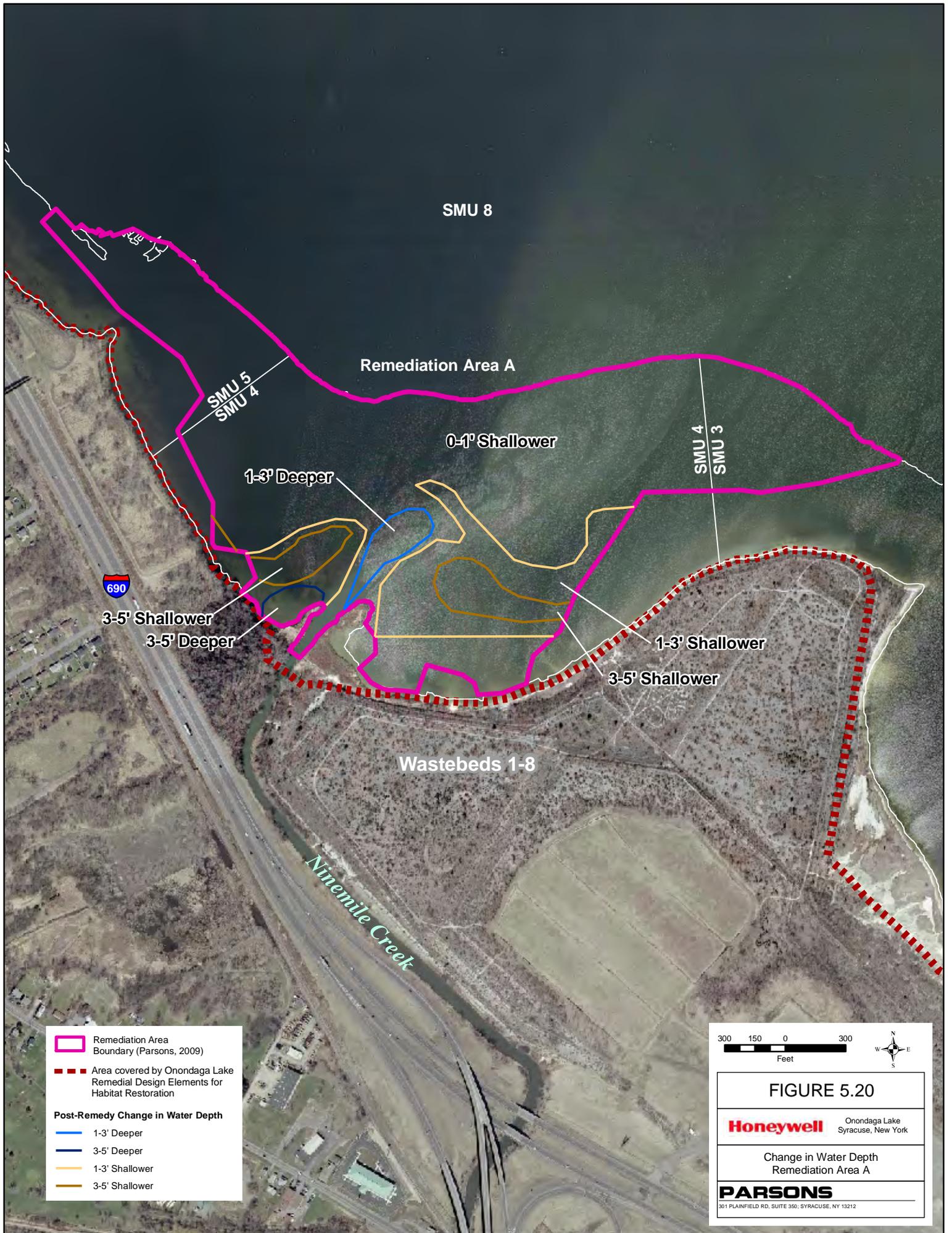


Figure 5.19

Honeywell Onondaga Lake
Syracuse, NY

**Conceptual Profile of Harbor Brook
and Adjacent Wetland Area**

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SMU 8

Remediation Area A

0-1' Shallower

1-3' Deeper

SMU 4
SMU 3

690

3-5' Shallower

3-5' Deeper

1-3' Shallower

3-5' Shallower

Wastebeds 1-8

Ninemile Creek

Remediation Area Boundary (Parsons, 2009)
 Area covered by Onondaga Lake Remedial Design Elements for Habitat Restoration
Post-Remedy Change in Water Depth
— 1-3' Deeper
— 3-5' Deeper
— 1-3' Shallower
— 3-5' Shallower

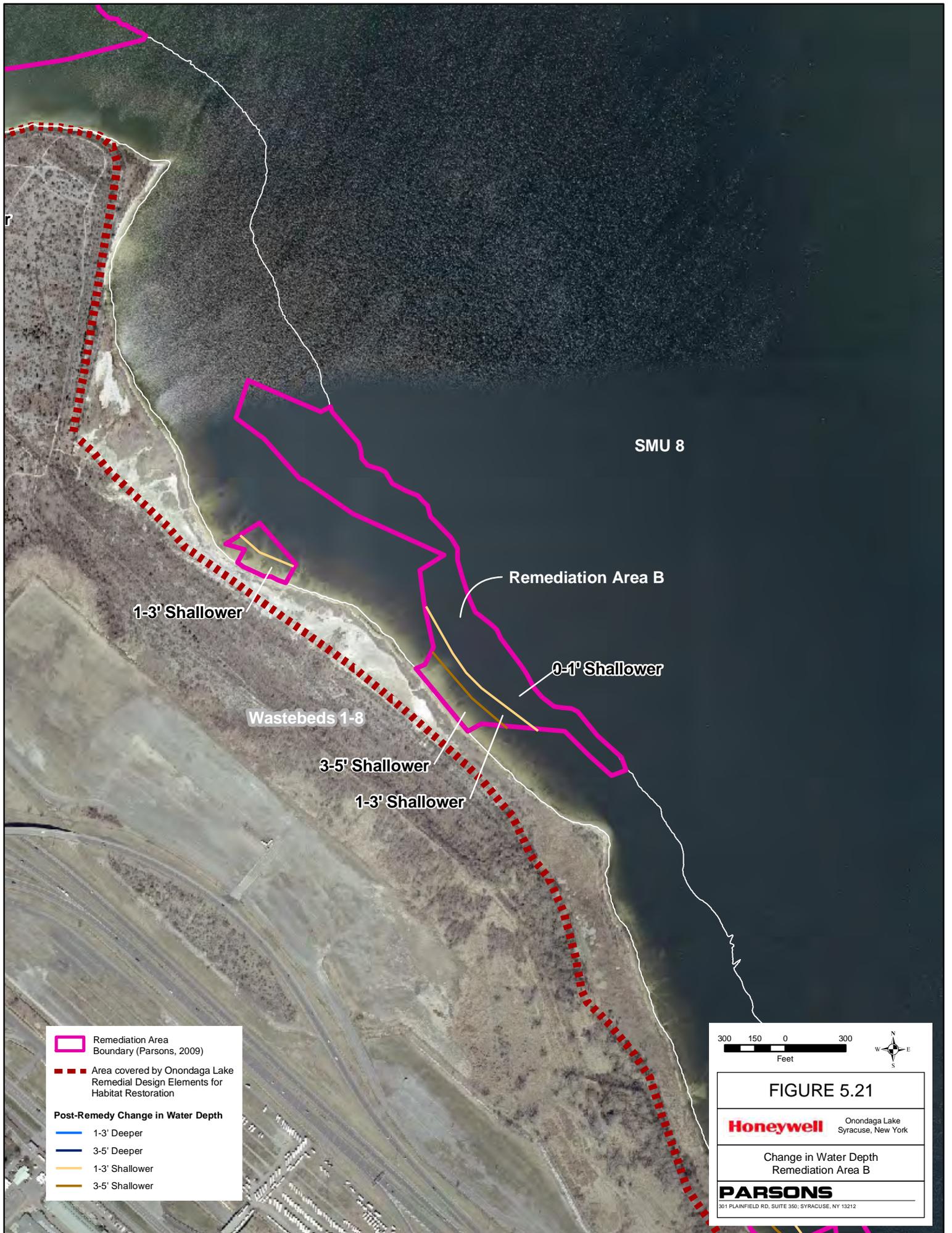
300 150 0 300
 Feet

FIGURE 5.20

Honeywell Onondaga Lake
Syracuse, New York

Change in Water Depth
Remediation Area A

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SMU 8

Remediation Area B

1-3' Shallower

0-1' Shallower

Wastebeds 1-8

3-5' Shallower

1-3' Shallower

Remediation Area Boundary (Parsons, 2009)
 Area covered by Onondaga Lake Remedial Design Elements for Habitat Restoration
Post-Remedy Change in Water Depth
 1-3' Deeper
 3-5' Deeper
 1-3' Shallower
 3-5' Shallower

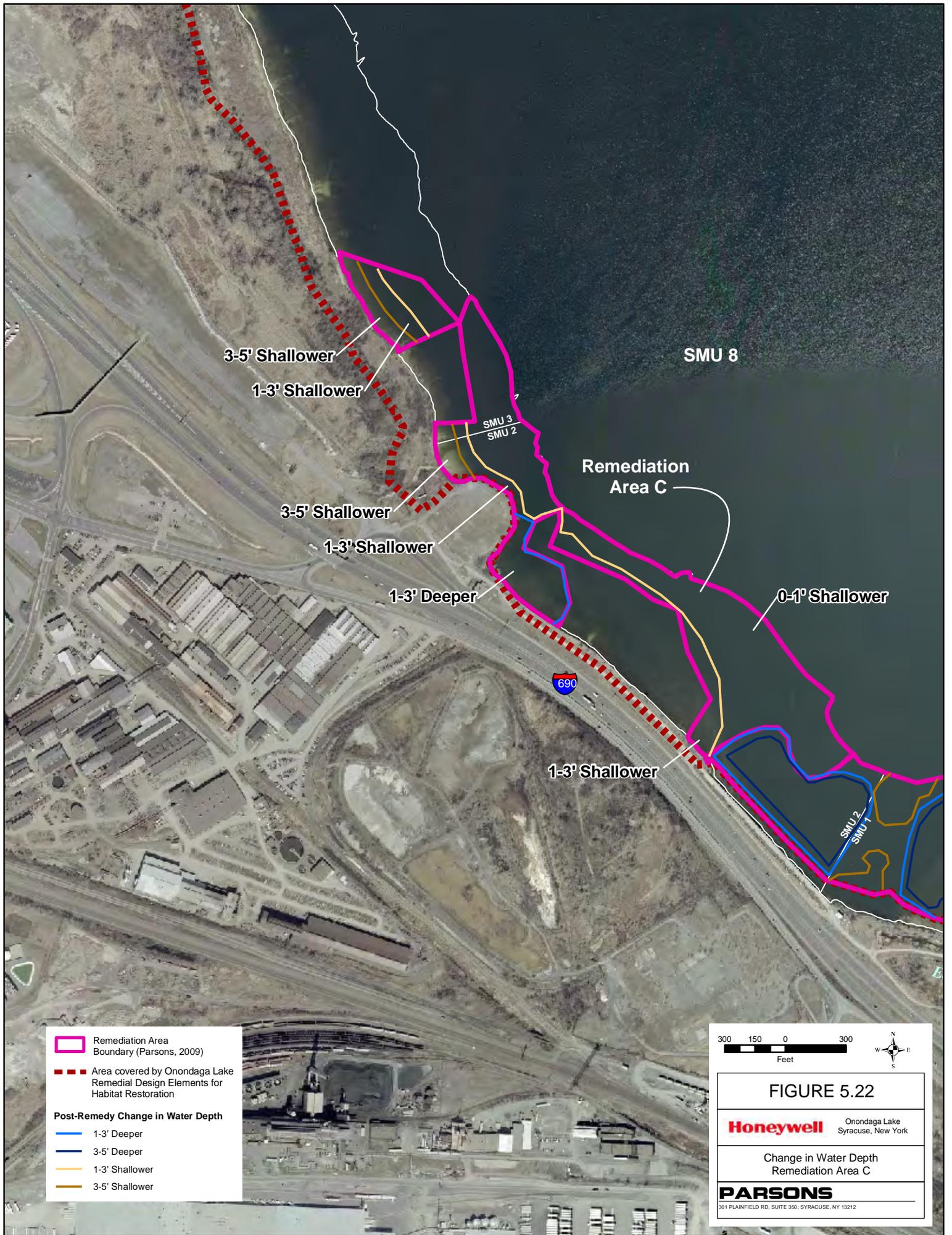
300 150 0 300
 Feet

FIGURE 5.21

Honeywell Onondaga Lake
 Syracuse, New York

Change in Water Depth
 Remediation Area B

PARSONS
301 PLAINFIELD RD, SUITE 350, SYRACUSE, NY 13212



Remediation Area Boundary (Parsons, 2009)
 Area covered by Onondaga Lake Remedial Design Elements for Habitat Restoration
Post-Remedy Change in Water Depth
 1-3' Deeper
 3-5' Deeper
 1-3' Shallower
 3-5' Shallower

300 150 0 300
 Feet

FIGURE 5.22

Honeywell Onondaga Lake
Syracuse, New York

Change in Water Depth
Remediation Area C

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Remediation Area C

SMU 8

Remediation Area D Addendum

Remediation Area D

3-5' Shallower

3-5' Deeper

1-3' Deeper

3-5' Shallower

3-5' Deeper

1-3' Deeper

3-5' Deeper

Wastebed B

SMU 2
SMU 1

SMU 7
SMU 1

Remediation Area Boundary (Parsons, 2009)

Area covered by Onondaga Lake Remedial Design Elements for Habitat Restoration

Post-Remedy Change in Water Depth

- 1-3' Deeper
- 3-5' Deeper
- 1-3' Shallower
- 3-5' Shallower

300 150 0 300
Feet

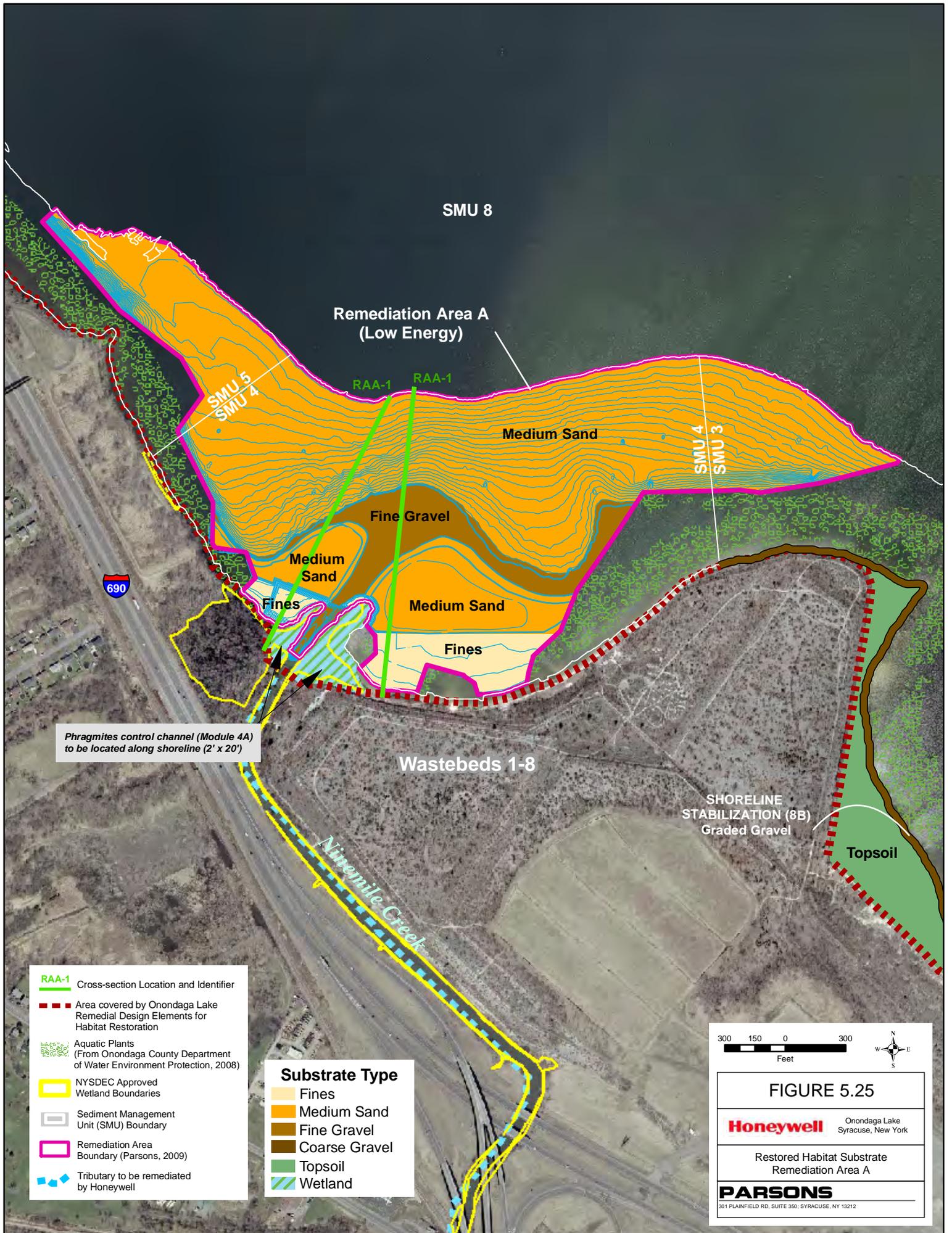
N
W E
S

FIGURE 5.23

Honeywell Onondaga Lake
Syracuse, New York

Change in Water Depth
Remediation Area D

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SMU 8

Remediation Area A
(Low Energy)

SMU 5
SMU 4

RAA-1 RAA-1

Medium Sand

SMU 4
SMU 3

Fine Gravel

Medium Sand

Medium Sand

Fines

Medium Sand

Fines

Phragmites control channel (Module 4A)
to be located along shoreline (2' x 20')

Wastebeds 1-8

SHORELINE
STABILIZATION (8B)
Graded Gravel

Topsoil

Ninemile Creek

RAA-1 Cross-section Location and Identifier

Area covered by Onondaga Lake Remedial Design Elements for Habitat Restoration

Aquatic Plants (From Onondaga County Department of Water Environment Protection, 2008)

NYSDEC Approved Wetland Boundaries

Sediment Management Unit (SMU) Boundary

Remediation Area Boundary (Parsons, 2009)

Tributary to be remediated by Honeywell

Substrate Type

- Fines
- Medium Sand
- Fine Gravel
- Coarse Gravel
- Topsoil
- Wetland

300 150 0 300
Feet

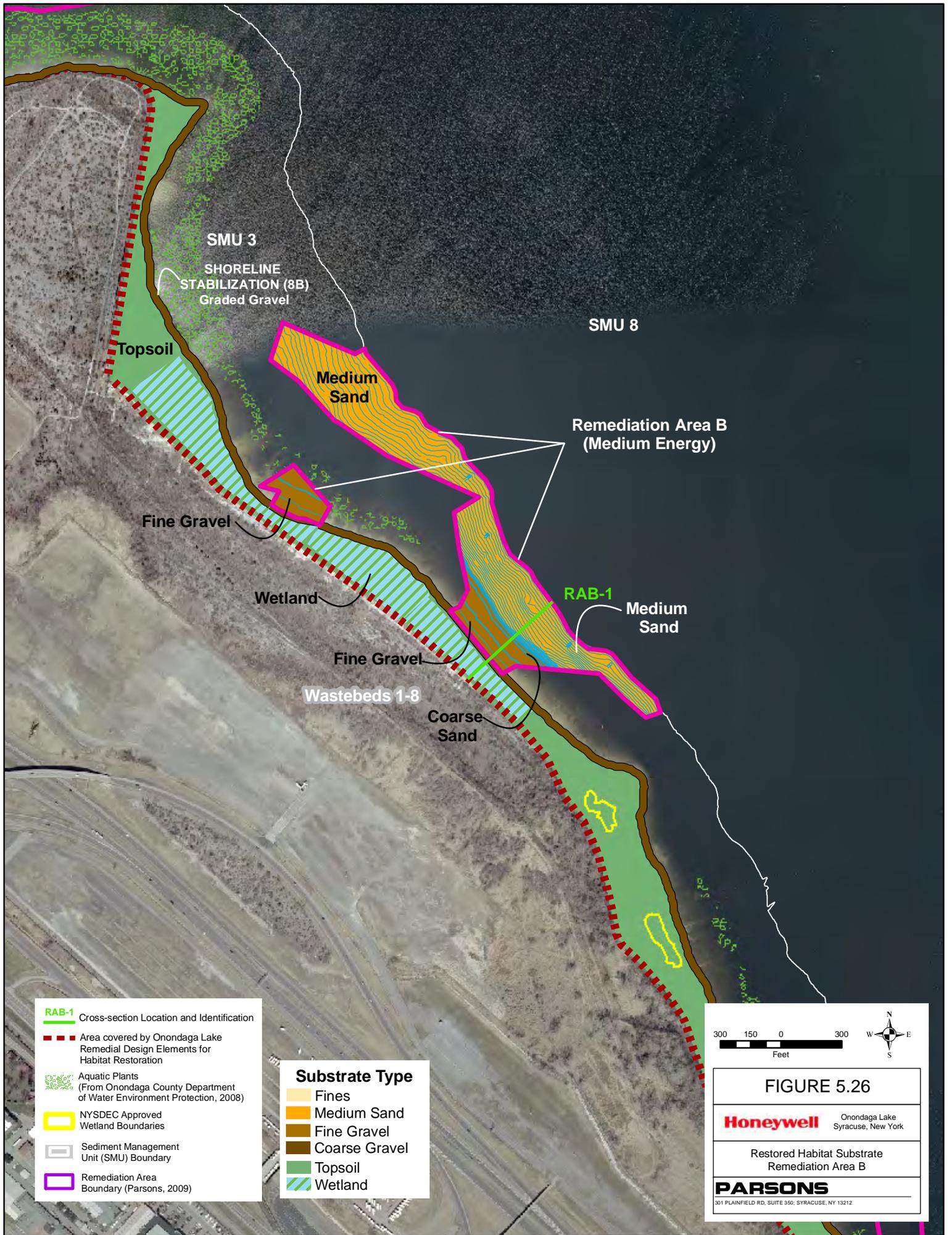


FIGURE 5.25

Honeywell Onondaga Lake
Syracuse, New York

Restored Habitat Substrate
Remediation Area A

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RAB-1 Cross-section Location and Identification

- - - Area covered by Onondaga Lake Remedial Design Elements for Habitat Restoration
- Aquatic Plants (From Onondaga County Department of Water Environment Protection, 2008)
- NYSDEC Approved Wetland Boundaries
- Sediment Management Unit (SMU) Boundary
- Remediation Area Boundary (Parsons, 2009)

Substrate Type

- Fines
- Medium Sand
- Fine Gravel
- Coarse Gravel
- Topsoil
- Wetland



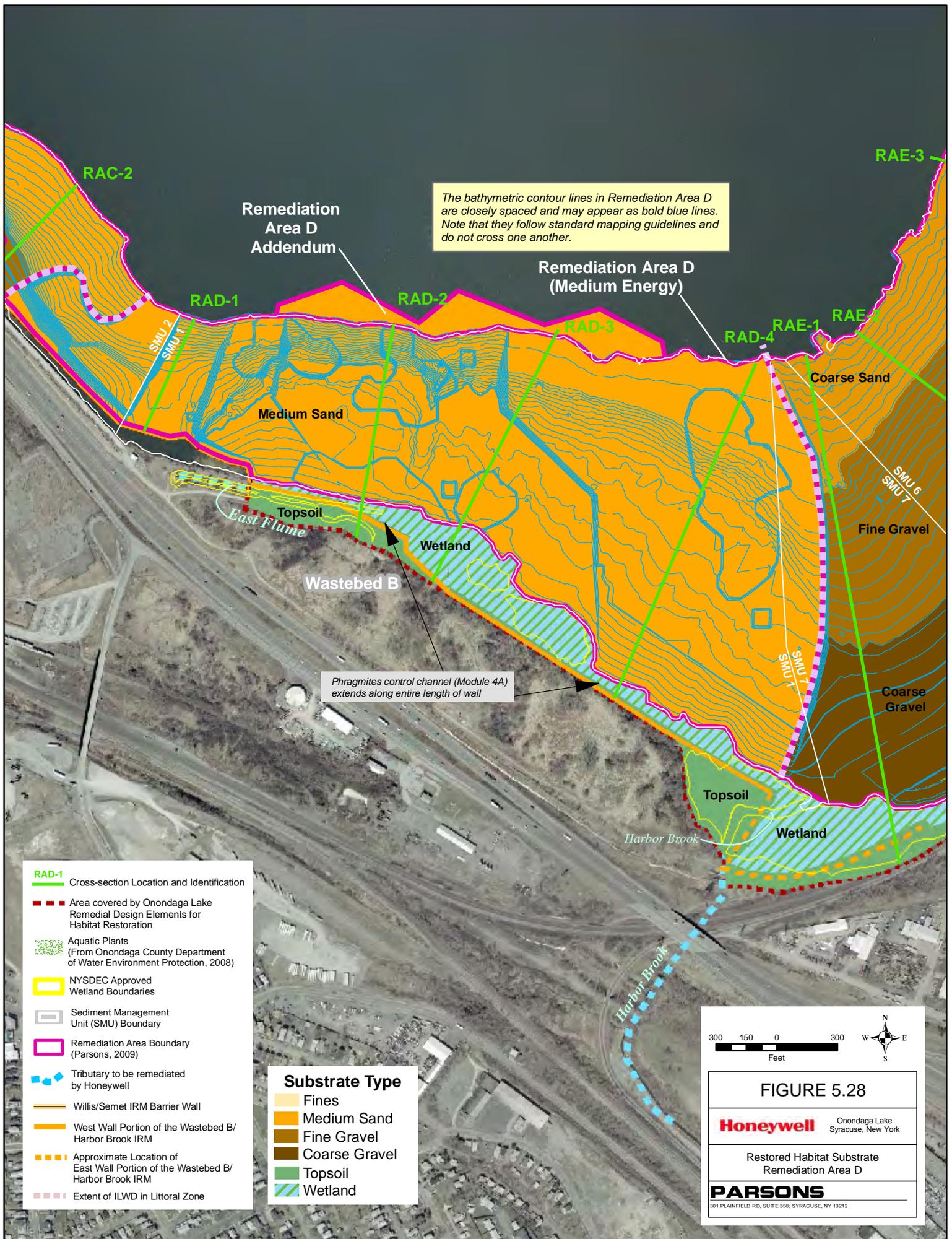
FIGURE 5.26

Honeywell Onondaga Lake
Syracuse, New York

Restored Habitat Substrate
Remediation Area B

PARSONS

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RAD-1 Cross-section Location and Identification

- Area covered by Onondaga Lake Remedial Design Elements for Habitat Restoration
- Aquatic Plants (From Onondaga County Department of Water Environment Protection, 2008)
- NYSDEC Approved Wetland Boundaries
- Sediment Management Unit (SMU) Boundary
- Remediation Area Boundary (Parsons, 2009)
- Tributary to be remediated by Honeywell
- Willis/Semet IRM Barrier Wall
- West Wall Portion of the Wastebed B/ Harbor Brook IRM
- Approximate Location of East Wall Portion of the Wastebed B/ Harbor Brook IRM
- Extent of ILWD in Littoral Zone

Substrate Type

- Fines
- Medium Sand
- Fine Gravel
- Coarse Gravel
- Topsoil
- Wetland



FIGURE 5.28

Honeywell Onondaga Lake
Syracuse, New York

Restored Habitat Substrate
Remediation Area D

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