Honeywell
301 Plainfield Road
Suite 330
Syracuse, NY 13212
315-552-9700
315-552-9780 Fax

May 12, 2011

Mr. Richard Mustico, P.E.
Project Manager
Division of Environmental Remediation
Remedial Bureau D
New York State Department of Environmental Conservation
625 Broadway – 12th Floor
Albany, New York 12233-7016

RE: LCP Bridge Street OU1 Site (Site # 7-34-049), Village of Solvay, Onondaga County, NY
Order on Consent: Index # D7-0001-00-12
LCP OU1 Proposed Soil Removal – West Ditch, Wetland A and Dredge Spoils Areas

Dear Mr. Mustico:

Based on Operation Maintenance & Monitoring (OM&M) sampling, elevated mercury concentrations were detected and delineated in site soils and sediments along the West Ditch, Wetland A and in the Dredge Spoils area (Figure 1). This letter provides the details of the proposed removal activities to address these areas. NYSDEC comments dated 3/23/11 have been addressed and are reflected in this letter.

All work shall be conducted in accordance with the Construction Health and Safety Plan (CHASP), Construction Quality Assurance Project Plan (CQAPP), and the Construction Sampling and Analysis Plan (CSAP) (Parsons, 2004). Erosion control features will be installed and maintained in accordance with the Geddes Brook IRM Storm Water Pollution Prevention Plan (SWPPP). Temporary facilities, such as trailers and utilities, will be installed to support the construction activities as required.

West Ditch

Site Preparation

Vegetation located in the proposed removal areas (grasses, small shrubs) will be handled with the excavated soil. A portion of the site security fence will be removed to facilitate soil removal; temporary fencing will be installed as appropriate to maintain site security.

Soil/Sediment Removal

The proposed removal along the West Ditch is divided into two areas. West Ditch Area 1, as indicated on Drawing C-002, extends from the west end of the HDPE culverts installed near the groundwater extraction system building to Wetland A. The proposed depth of excavation in this

area is 2 feet or to underlying clay with an estimated 2,276 cubic yards of material excavated and placed in the soil/sediment containment area. Following excavation, post-excavation samples will be collected in accordance with the CSAP and CQAPP. Based on the sample results, a decision will be made by Honeywell and the NYSDEC on the necessity of additional excavation. After excavation and post-excavation sampling are complete, the area will be restored to maintain positive drainage with bank run gravel, 6 inches of topsoil and seeded with the conservation seed mix specified in Table 1.

West Ditch Area 2, as indicated on Drawing C-002, extends from the eastern end of the HDPE culverts installed near the groundwater extraction system building past sample location LCP1-SED-103. The proposed depth of excavation in this area is 1 foot or to underlying clay with an estimated 386 cubic yards of material excavated and placed in the soil/sediment containment area. Following excavation, post excavation samples will be collected as indicated above for Area 1. After excavation and confirmatory sampling are complete, the area will be graded to maintain positive drainage and restored with six inches of topsoil and the Conservation Seed Mix specified in Table 1.

Wetland A

Site Preparation

Vegetation located in the proposed removal areas (grasses, small shrubs) will be handled with the excavated soil/sediment.

Soil/Sediment Removal

The proposed removal in and around the Wetland A basin is divided into two areas. Wetland A Area 1, as indicated on drawing C-003, is located immediately west of the former MW-26 excavation area between Wetlands A & B. The proposed depth of excavation in this area is 1 foot to address the residual contamination indentified in sample LCP1-SS-107. The estimated volume to be excavated and placed in the soil/sediment containment area is 326 cubic yards.

Following excavation, post-excavation samples will be collected in accordance with the CSAP and CQAPP indicated above. Based on the sample results, Honeywell and NYSDEC will decide on the necessity of additional excavation. After completion of excavation and post-excavation sampling, the area will be restored with 6 inches of topsoil and seeded with the conservation seed mix specified in Table 1.

Wetland A Area 2, as indicated on Drawing C-003, extends from the West Ditch discharge location into the Wetland A basin through sample location LCP1-SED-97. The proposed depth of excavation in this area is 1 foot with an estimated 377 yards of material excavated and placed in the soil/sediment containment area. Following excavation, post excavation samples will be collected as indicated above for Wetland A Area 1. The area will be restored with 6 inches of topsoil and seeded with the Wet Meadow seed mix specified in Table 2.

Dredge Spoils Area

Site Preparation

Prior to removals, a wetland delineation will be performed within the Dredge Spoils Area. This delineation will be conducted in accordance with the New York State Department of Environmental Conservation (NYSDEC)-approved Revised Final Work Plan, Wetlands/ Floodplain Assessment, Onondaga Lake (O'Brien and Gere/Parsons, 2004b). Field activities and reporting will focus on wetland delineation, assessment of values and functions, and characterization of flora and fauna, as well as floodplain delineation.

The vegetation located in the proposed removal areas includes grasses, small shrubs and trees. The grasses and small shrubs will be handled with the soils. The trees will be chipped up and managed in the soil/sediment containment area.

Removal

The proposed removal in the Dredge Spoils Area, as indicated on Drawing C-004, is divided into three areas. The depth of excavation for Dredge Spoils Area 1, located at the western end of the remedial area is 3 feet with an estimated 1,810 cubic yards of material excavated and placed in the soil/sediment containment area. Following excavation, post-excavation samples will be collected in accordance with the CSAP and CQAPP indicated above. Following excavation the area will be restored with a minimum of 6 inches of topsoil and the conservation seed mix specified in Table 1.

Dredge Spoils Area 2, as indicated on Drawing C-004, extends from Area 1 to the steam line crossing and associated access road. The proposed depth of excavation is to the underlying clay layer, with an average removal depth of 2 feet. The estimated volume of material to be excavated and placed in the soil/sediment containment area from Area 2 is 9,500 cubic yards. Following excavation, post-excavation samples will be collected in accordance with the CSAP and CQAPP indicated above. Following excavation, the area will be restored with 6 inches of topsoil and the conservation seed mix specified in Table 1.

Dredge Spoils Area 3, as indicated on construction drawing C-004, is a small drainage channel running in front of the wooded area to the east of the steam line. The proposed depth of excavation is to the underlying clay layer, with an average cut of 2 feet. The estimated volume of material to be excavated and placed in the soil/sediment containment area from Area 3 is 954 cubic yards. Following excavation, post-excavation samples will be collected in accordance with the CSAP and CQAPP indicated above. Following excavation the small channel will be restored with 6 inches of topsoil and the wet meadow seed mix specified in Table 2.

Restoration

Restoration of disturbed areas is shown on Figure C-005 through C-007. Topsoil will meet Specification 02990 and wetland plantings will be completed per Specification 02910 of the Final (100%) Design Report for the LCP Bridge St. OU-1 Site (Parsons, 2004a). The restoration seed mix presented in Tables 1 and 2 will supersede the seed mix(s) specified in the 100% design. Figure C-008 depicts a typical cross section and restoration for the West Ditch Area and Dredge Spoils Area. A 5 year invasive species control plan as specified for Wetlands A and B will also be conducted at all three excavation areas.

Soil/Sediment Containment Area Management

The estimated total volume of material to be brought to the soil/sediment containment area from the West Ditch, Wetland A, and Dredge Spoils areas is 15,629 cubic yards. A temporary stockpile area will be designated within the soil/sediment containment area based on the anticipated placement schedule of the Geddes Brook sediments. The temporary stockpile area will be managed in accordance with the Geddes Brook IRM SWPPP.

Schedule

The anticipated schedule for the completion of the work identified above is provided as Attachment C.

References

Parsons, 2004b. Final (100%) Design Report for the LCP Bridge Street Site (OU-1). March 2004. Revised September 2004.

O'Brien and Gere/Parsons, 2004a. Revised Final Work Plan Wetlands/Floodplain Assessment, Onondaga Lake. September 3, 2004.

Please contact me or Mike Broschart (315) 552-9678 if you have any questions or require additional information.

Sincerely,

A. J. Labuz

Alfred J. Labuz
Remediation Manager

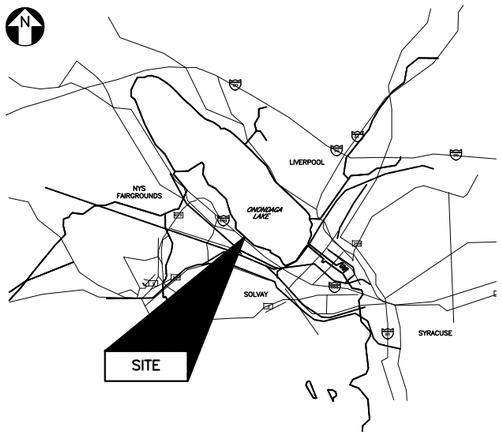
Attachments

cc: Argie Cirillo, Esq., USEPA (Cover Ltr Only)
Mark Granger, USEPA (4 hard copies)
Geoffrey Laccetti, NYSDOH (Cover Ltr Only)
Mark Sergott, NYSDOH (1 hard copy, 1 PDF)
Harry Warner, NYSDEC (1 hard copy)
Margaret Sheen, Esq., NYSDEC (Cover Ltr Only)
Joseph Heath, Esq.(ec Cover Ltr Only)
Jeanne Shenandoah, HETF/Onondaga Nation (1 hard copy plus ec Cover Ltr Only)
Thane Joyal, Onondaga Nation, (1 PDF)
Heidi Kuhl, Onondaga Nation (1 hard copy)
Curtis Waterman, Onondaga Nation (ec Cover Ltr Only)
Alma Lowry, Onondaga Nation (ec Cover Ltr Only)
Fred Kirschner, AESE, Inc. (1 PDF)
Brian Israel, Arnold & Porter (1 PDF)
Bill Hague, Honeywell (1 PDF)
Steve Miller, Parsons (1 PDF)
Michael Broschart, Parsons (1 hard copy)
Chris Calkins, OBG (1 hard copy)
Brian White, OBG (1 hard copy)

Attachment A

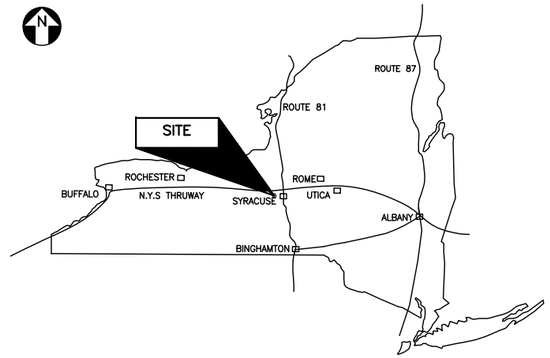
Figures/Drawings

LCP (FORMER LINDEN CHEMICAL PLANT)
OM&M REMOVALS



SITE LOCATION MAP
NOT TO SCALE

DRAWING INDEX



THE STATE OF NEW YORK
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NO.	DESCRIPTION	DATE	DRAWN	CHK'D	APP'D
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DRAWN BY: JR	DATE: 4/27/11	SEAL
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APPROVED BY: –	DATE: –	
PROJECT MGR.: –	DATE: –	

PARSONS
COMMERCIAL TECHNOLOGY GROUP

OFFICE
301 PLAINFIELD ROAD
SYRACUSE, NY 13212
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JOB: 446662
WBS: 05172

PROJECT TITLE
LCP OM&M REMOVALS 2011

LCP BRIDGE STREET SITE
SYRACUSE, NEW YORK

DRAWING TITLE
TITLE SHEET AND DRAWING INDEX

SCALE: NO SCALE (IF PRINTED ON 22x34 SHEET)

DRAWING NO.: 446662-G-001
REV.: A

FILE NAME: P:\HONEYWELL -SYR\446662 - LCP O&M SUPPORT\10.0 TECHNICAL CATEGORIES\10.3 CAD\DESIGN\LCP\GEN\446662-G-001.DWG
PLOT DATE: 5/12/2011 11:06 AM PLOTTED BY: RUSSO, JILL

PRELIMINARY DRAFT
SETTLEMENT CONFIDENTIAL
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CHECKED BY	DATE MM/DD/YY	
APPROVED BY	DATE MM/DD/YY	
PROJECT MGR.	DATE MM/DD/YY	

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WBS XXXXX

PROJECT TITLE
LCP OM&M REMOVALS 2011

LCP BRIDGE STREET SITE
SYRACUSE, NEW YORK

DRAWING TITLE
EXISTING SITE PLAN

SCALE
SCALE 1"=200'
(IF PRINTED ON 22x34 SHEET)

DRAWING NO. 446662-C-001 REV. A

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PLOT DATE: 5/12/2011 11:07 AM PLOTTED BY: RUSSO, JILL

LCP1-SS-112	
0–1'	2.7
1–2'	0.26

LCP1-SS-111	
0–1'	4.1
1–2'	0.65

LCP1-SS-164	
0–1'	2.2
1–2'	0.45

LCP1-SS-166	
0–1'	0.52
1–2'	2.1

LCP1-SS-165	
0–1'	0.75
1–2'	1.2

LCP1-SED-98	
0–0.2'	133
0.2–0.5	9.7

LCP1-SS-160	
0–1'	13.6
1–2'	2.7

LCP1-SS-159	
0–1'	39.1
1–2'	1

LCP1-SED-99	
0–0.2'	9.6
0.2–0.5'	0.13

LCP1-SS-115	
0–1'	0.22
1–2'	0.08

LCP1-SS-116	
0–1'	1.3
1–2'	1.1

LCP1-SS-161	
0–1'	3.2
1–2'	4.9

LCP1-SS-162	
0–1'	13.3
1–2'	3.5/6.9

LCP1-SS-163	
0–1'	4.2
1–1.4'	0.8

LCP1-SS-117	
0–1'	10.3
1–2'	9.8

LCP1-SS-118	
0–1'	20.4/18
1–2'	0.07

LCP1-SS-158	
0–1'	7.3
1–1.8'	4.7

LCP1-SS-157	
0–1'	4.5

LCP1-SED-100	
0–0.2'	2.5
0.2–0.5'	3.4

LCP1-SS-119	
0–0.5'	5.2

LCP1-SED-101	
0–0.2'	3.5
0.2–0.5'	9.7

LCP1-SED-102	
0–0.2'	1.3
0.2–0.5'	1.3

LCP1-SS-121	
0–0.5'	1.1

LCP1-SS-120	
0–0.5'	2.1

LCP1-SED-103	
0–0.2'	2.2/1.9
0.2–0.5'	2.4/2.7

LCP1-SS-122	
0–0.5'	0.29

WEST DITCH AREA 1

WEST DITCH AREA 2

2 x 24" HDPE Culverts

West Ditch - Area 1
2' REMOVAL OR TO UNDERLYING CLAY

Point	Northing	Easting
C1	1117441.61	916381.12
C2	1117499.51	916358.75
C3	1117548.34	916363.94
C4	1117621.72	916389.63
C5	1117789.10	916481.14
C6	1117864.13	916543.33
C7	1117847.99	916566.82
C8	1117917.95	916636.33
C9	1117918.93	916669.62
C10	1117904.25	916680.88
C11	1117891.53	916649.06
C12	1117852.39	916611.37
C13	1117787.81	916626.54
C14	1117643.79	916447.81
C15	1117571.23	916401.28
C16	1117446.96	916391.64

West Ditch - Area 2
1' REMOVAL OR TO UNDERLYING CLAY

Point	Northing	Easting
D1	1117340.53	916426.84
D2	1117280.77	916476.67
D3	1117186.40	916582.62
D4	1117072.44	916829.78
D5	1117034.52	916923.25
D6	1117049.05	916930.63
D7	1117151.64	916701.14
D8	1117205.40	916587.85
D9	1117288.39	916492.39
D10	1117346.30	916441.52

LEGEND

- O&M SAMPLE LOCATIONS
- MAY 2009 SEDIMENT SAMPLE
- OCTOBER 2009 SOIL SAMPLE
- OCTOBER 2010 SEDIMENT SAMPLE
- OCTOBER 2010 SOIL SAMPLE
- REMOVAL AREA
- REMOVED
- EXCAVATION CORNERS
- SECTION OF FENCE TO BE REMOVED

NOTES:

1. COLLECT POST–EXCAVATION CONFIRMATORY SAMPLES IN ACCORDANCE WITH THE CONSTRUCTION QUALITY ASSURANCE PROCEDURES PLAN (CQAPP PARSONS, 2004).
2. CONSTRUCTION WATER GENERATED SHALL BE DISPOSED OF IN THE ONSITE COLLECTION SYSTEM.
3. INSTALL EROSION CONTROL FEATURES AS IDENTIFIED IN THE GEDDES BROOK IRM SWPPP.
4. RESTORE WEST DITCH AREAS AS INDICATED IN THE WEST DITCH AND DREDGE SPOILS AREA WORK PLAN.

40 20 0 40 80

SCALE: 1"=40'

PRELIMINARY DRAFT
SETTLEMENT CONFIDENTIAL
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NO.	DESCRIPTION	DATE	DRAWN	CHK'D	APPV'D
A	ISSUED FOR COMMENT (IN PROGRESS)	MM/DD/YY			

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PROJECT MGR.	DATE	MM/DD/YY

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JOB 446662
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PROJECT TITLE
LCP OM&M REMOVALS 2011

LCP BRIDGE STREET SITE
SYRACUSE, NEW YORK

DRAWING TITLE
WEST DITCH SAMPLE RESULTS AND EXCAVATION PLAN

SCALE: SCALE 1"=40' (IF PRINTED ON 22x34 SHEET)

DRAWING NO. 446662-C-002

REV. A

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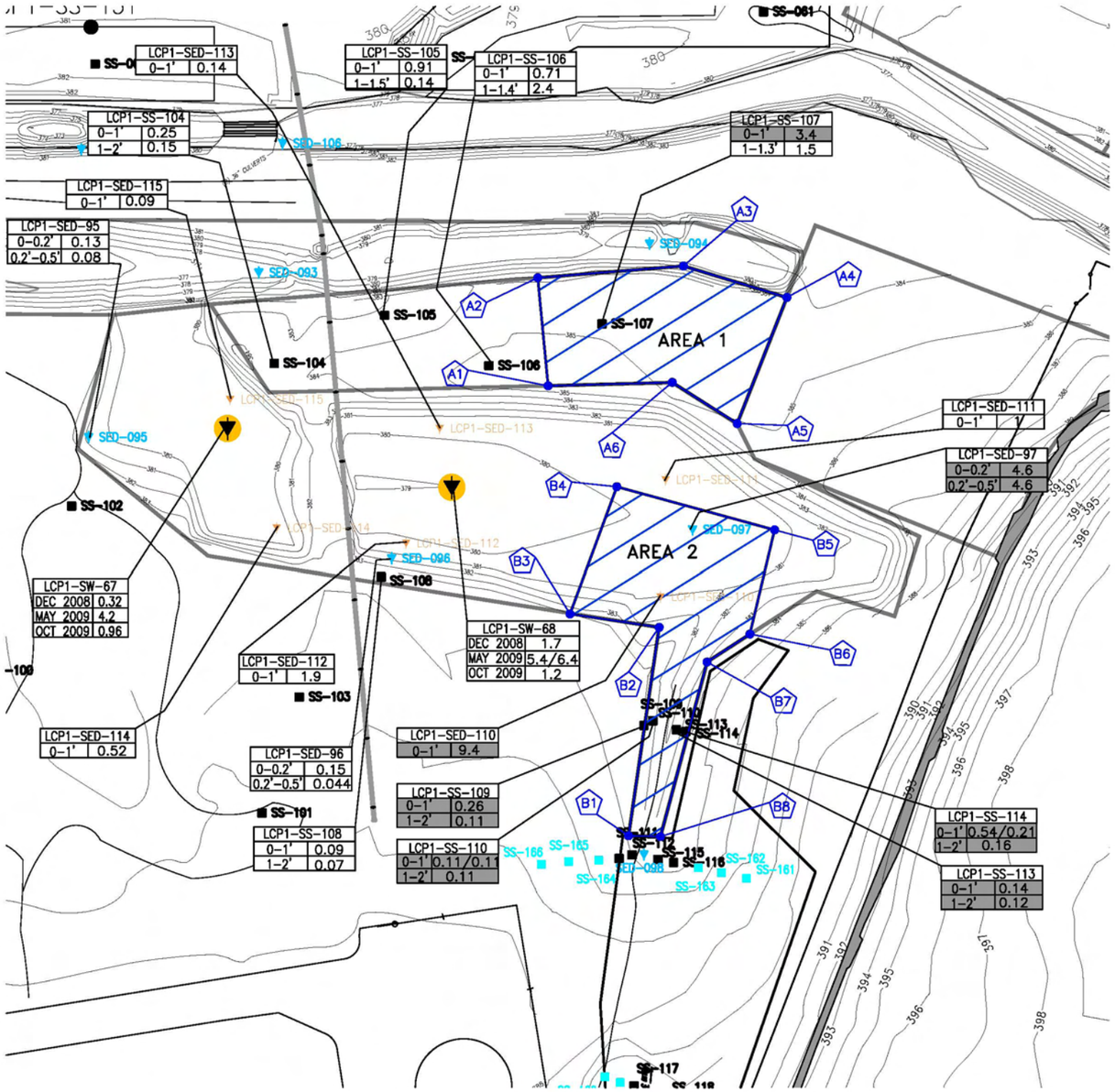

Wetland A - Area 1
1' REMOVAL

Point	Northing	Easting
A1	1118106.72	916644.13
A2	1118162.72	916672.02
A3	1118123.94	916746.87
A4	1118076.99	916787.75
A5	1118030.56	916725.00
A6	1118070.54	916705.81

Wetland A - Area 2
1' REMOVAL

Point	Northing	Easting
B1	1117862.54	916546.18
B2	1117955.06	916624.77
B3	1117988.80	916585.31
B4	1118036.44	916646.87
B5	1117967.20	916710.81
B6	1117924.04	916667.08
B7	1117923.47	916637.58
B8	1117852.39	916561.51

LEGEND

- O&M SAMPLE LOCATIONS
- MAY 2009 SEDIMENT SAMPLE
- OCTOBER 2009 SOIL SAMPLE
- OCTOBER 2010 SEDIMENT SAMPLE
- OCTOBER 2010 SOIL SAMPLE
- REMOVAL AREA
- REMOVED
- EXCAVATION CORNERS (A4)

NOTES:

1. COLLECT POST-EXCAVATION CONFIRMATORY SAMPLES IN ACCORDANCE WITH THE CONSTRUCTION QUALITY ASSURANCE PROCEDURES PLAN (CQAPP PARSONS, 2004).
2. CONSTRUCTION WATER GENERATED SHALL BE DISPOSED OF IN THE ONSITE COLLECTION SYSTEM.
3. INSTALL EROSION CONTROL FEATURES AS IDENTIFIED IN THE GEDDES BROOK IRM SWPPP.
4. RESTORE WETLAND A AREAS AS INDICATED IN THE WEST DITCH AND DREDGE SPOILS AREA WORK PLAN.

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SCALE: 1"=40'

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PROJECT MGR.	DATE	MM/DD/YY

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PROJECT TITLE
LCP OM&M REMOVALS
2011

LCP BRIDGE STREET SITE
SYRACUSE, NEW YORK

DRAWING TITLE
WETLAND A SAMPLE RESULTS AND EXCAVATION PLAN

SCALE
SCALE 1"=40'
(IF PRINTED ON 22x34 SHEET)

DRAWING NO. 446662-C-003
REV. A

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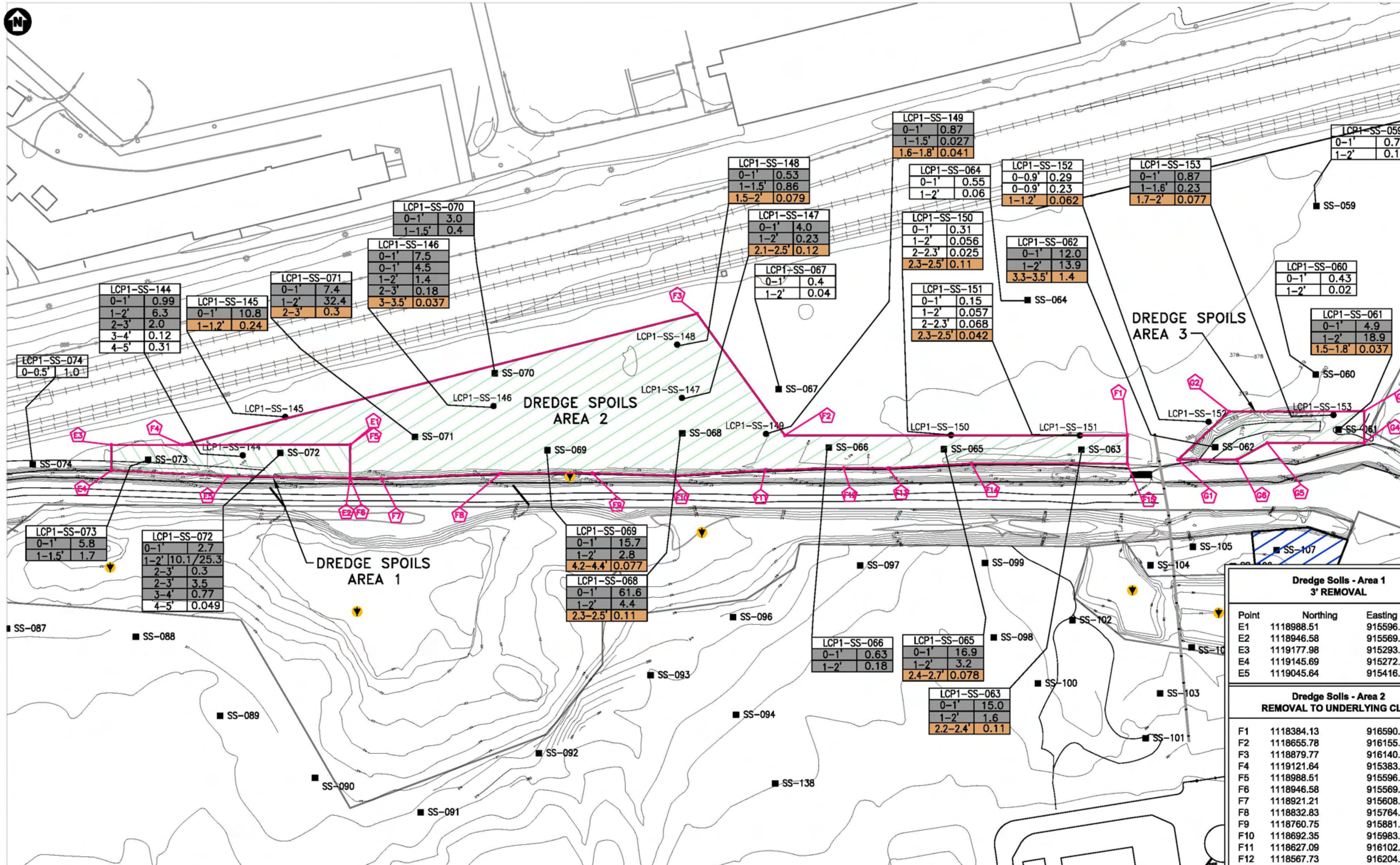
PLOT DATE: 6/13/2011 11:12 AM PLOTTED BY: RUSSO, ALL



LEGEND

- O&M SAMPLE LOCATIONS
- MAY 2009 SEDIMENT SAMPLE
- OCTOBER 2009 SOIL SAMPLE
- JUNE 2010 SOIL SAMPLE
- OCTOBER 2010 SEDIMENT SAMPLE
- OCTOBER 2010 SOIL SAMPLE
- REMOVAL
- REMOVED
- OBSERVED DEPTH OF CLAY
- EXCAVATION CORNERS

NOTES:

1. COLLECT POST-EXCAVATION CONFIRMATORY SAMPLES IN ACCORDANCE WITH THE CONSTRUCTION QUALITY ASSURANCE PROCEDURES PLAN (CQAPP PARSONS, 2004).
2. CONSTRUCTION WATER GENERATED SHALL BE DISPOSED OF IN THE ONSITE COLLECTION SYSTEM.
3. INSTALL EROSION CONTROL FEATURES AS IDENTIFIED IN THE GEDDES BROOK IRM SWPPP.
4. RESTORE DREDGE SPOILS AREAS AS INDICATED IN THE WEST DITCH AND DREDGE SPOILS AREA WORK PLAN.

PRELIMINARY

Dredge Soils - Area 1
3' REMOVAL

Point	Northing	Easting
E1	1118988.51	915596.58
E2	1118946.58	915569.83
E3	1119177.98	915293.02
E4	1119145.69	915272.85
E5	1119045.64	915416.20

Dredge Soils - Area 2
REMOVAL TO UNDERLYING CLAY

Point	Northing	Easting
F1	1118384.13	916590.49
F2	1118655.78	916155.78
F3	1118879.77	916140.79
F4	1119121.64	915383.34
F5	1118988.51	915596.58
F6	1118946.58	915569.83
F7	1118921.21	915608.83
F8	1118832.83	915764.33
F9	1118760.75	915881.16
F10	1118692.35	915983.20
F11	1118627.09	916102.47
F12	1118567.73	916204.51
F13	1118532.04	916260.51
F14	1118471.92	916370.40
F15	1118348.02	916567.93

Dredge Spoil - Area 3
REMOVAL TO UNDERLYING CLAY

Point	Northing	Easting
G1	1118312.87	916635.58
G2	1118333.34	916738.79
G3	1118226.75	916910.32
G4	1118186.45	916885.14
G5	1118263.40	916762.01
G6	1118266.00	916710.59

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CHECKED BY	DATE MM/DD/YY	
APPROVED BY	DATE MM/DD/YY	
PROJECT MGR.	DATE MM/DD/YY	

PARSONS
COMMERCIAL TECHNOLOGY GROUP

OFFICE 301 PLAINFIELD ROAD SYRACUSE, NY 13212 (315) 451-9560

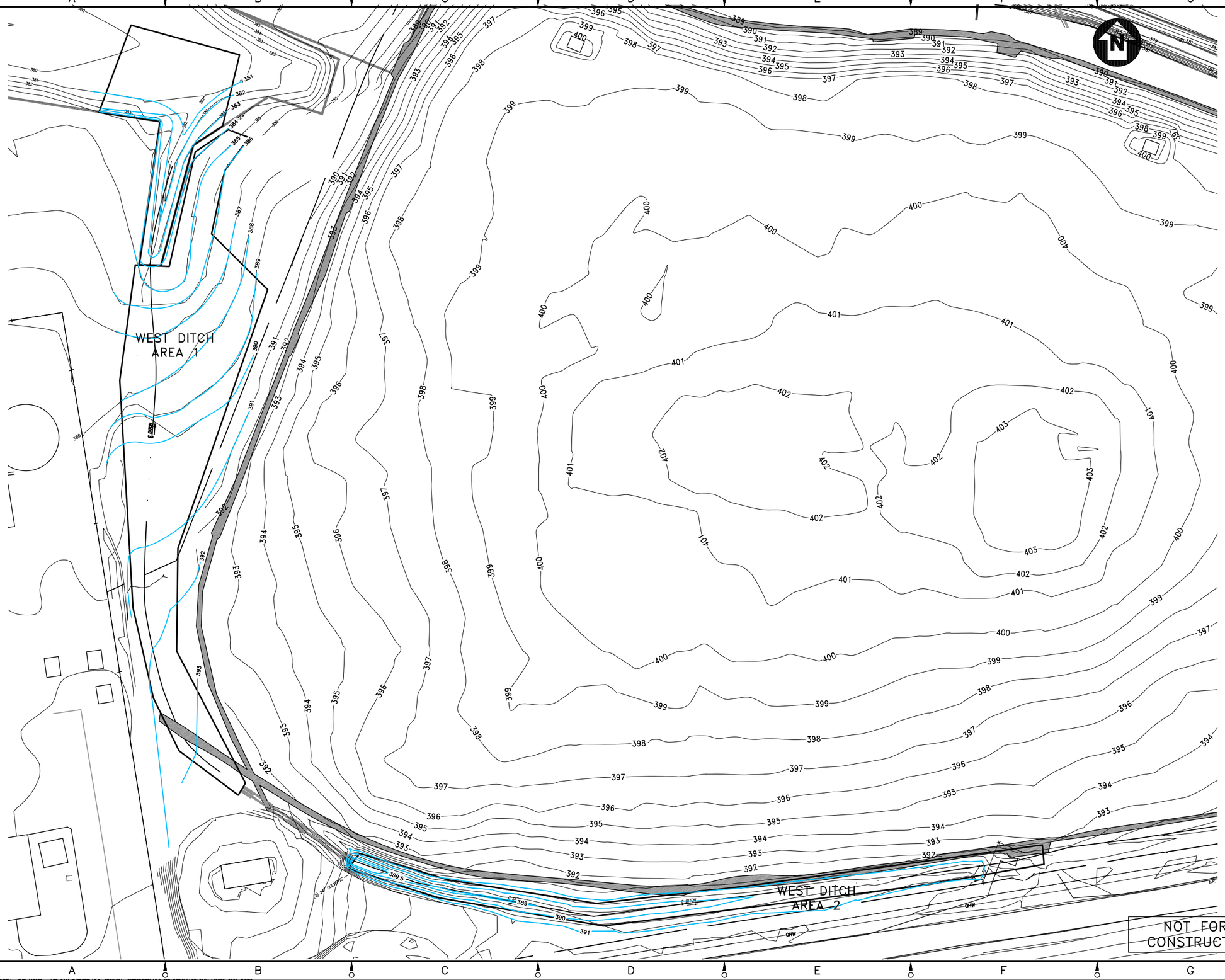
JOB 446662
WBS XXXXX

PROJECT TITLE
LCP OM&M REMOVALS 2011
LCP BRIDGE STREET SITE
SYRACUSE, NEW YORK

DRAWING TITLE
DREDGE SPOILS SAMPLE RESULTS AND EXCAVATION PLAN

SCALE 1"=80' (IF PRINTED ON 22x34 SHEET)

DRAWING NO. 446662-C-004 REV. A



LEGEND

EXISTING CONTOURS

RESTORATION CONTOURS

NOTES:

1. BACKFILL WILL BE INSTALLED, TO CREATE POSITIVE DRAINAGE AND COVERED WITH A MINIMUM 6" OF TOPSOIL. SEE TYPICAL DETAIL ON SHEET C005.

40 20 0 40 80

SCALE: 1"=40'

PRELIMINARY DRAFT
SETTLEMENT CONFIDENTIAL
NOT INTENDED FOR PUBLIC REVIEW

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PROJECT TITLE
LCP OM&M REMOVALS
2011

LCP BRIDGE STREET SITE
SYRACUSE, NEW YORK

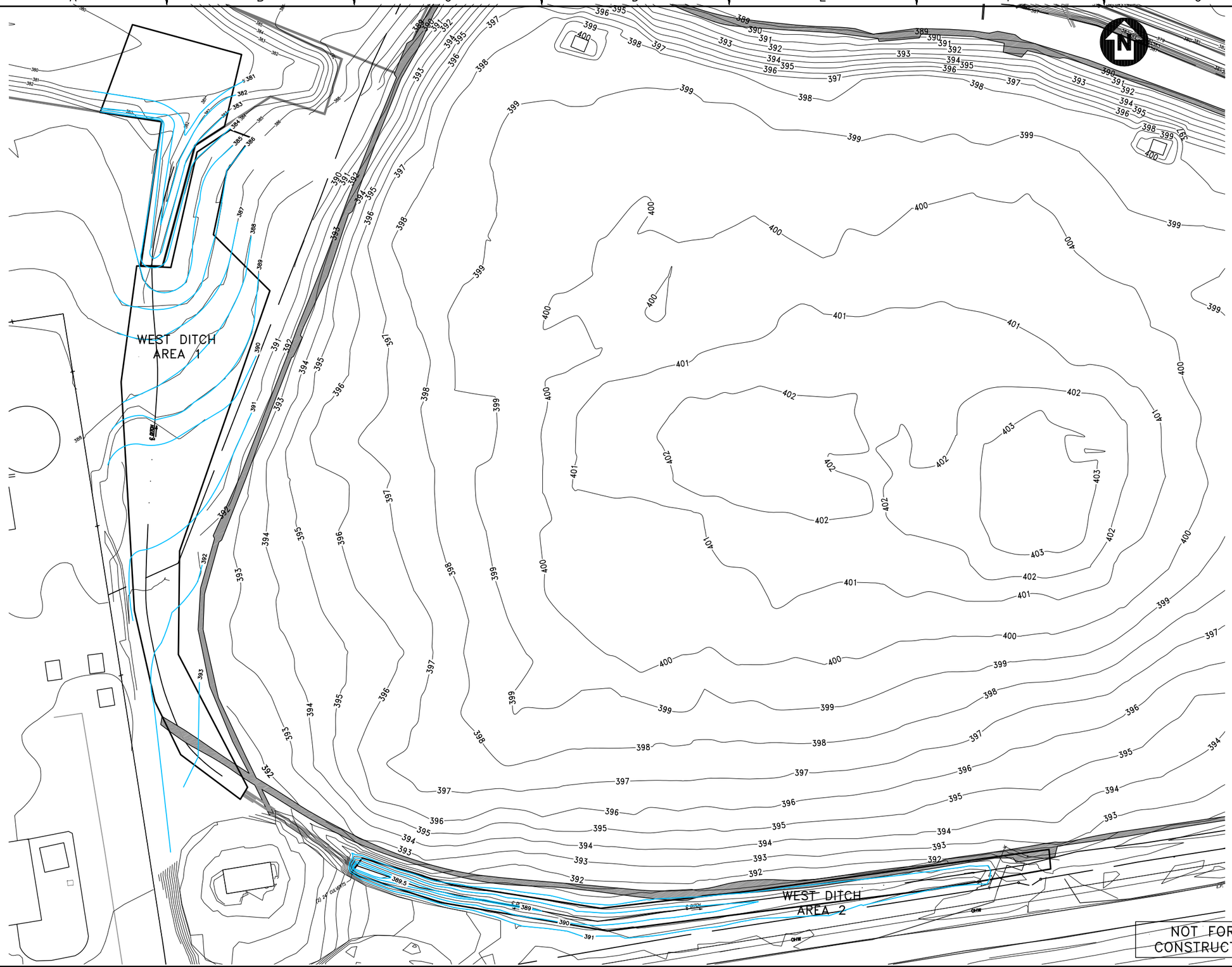
DRAWING TITLE
WEST DITCH
RESTORATION PLAN

SCALE SCALE 1"=40'
(IF PRINTED ON 22x34 SHEET)

DRAWING NO. 446662-C-005

REV. A

FILE NAME: P:\HONEYWELL -SYR\446662 - LCP O&M SUPPORT\10.0 TECHNICAL CATEGORIES\10.3 CAD\DESIGN\LCP\CIVIL\446662-C005-7.DWG
PLOT DATE: 5/12/2011 1:31 PM PLOTTED BY: RUSSO, JILL



LEGEND

EXISTING CONTOURS

RESTORATION CONTOURS

NOTES:

1. BACKFILL WILL BE INSTALLED, TO CREATE POSITIVE DRAINAGE AND COVERED WITH A MINIMUM 6" OF TOPSOIL. SEE TYPICAL DETAIL ON SHEET C005.

40 20 0 40 80

SCALE: 1"=40'

PRELIMINARY DRAFT
SETTLEMENT CONFIDENTIAL
NOT INTENDED FOR PUBLIC REVIEW

NO.	DESCRIPTION	DATE	DRAWN	CHK'D	APP'D
A	ISSUED FOR COMMENT (IN PROGRESS)	MM/DD/YY			

DRAWN BY	DATE	MM/DD/YY
CHECKED BY	DATE	MM/DD/YY
APPROVED BY	DATE	MM/DD/YY
PROJECT MGR.	DATE	MM/DD/YY

SEAL

PARSONS
COMMERCIAL TECHNOLOGY GROUP

OFFICE
301 PLAINFIELD ROAD
SYRACUSE, NY 13212
(315) 451-9560

JOB 446662

WBS XXXXX

PROJECT TITLE
LCP OM&M REMOVALS
2011

LCP BRIDGE STREET SITE
SYRACUSE, NEW YORK

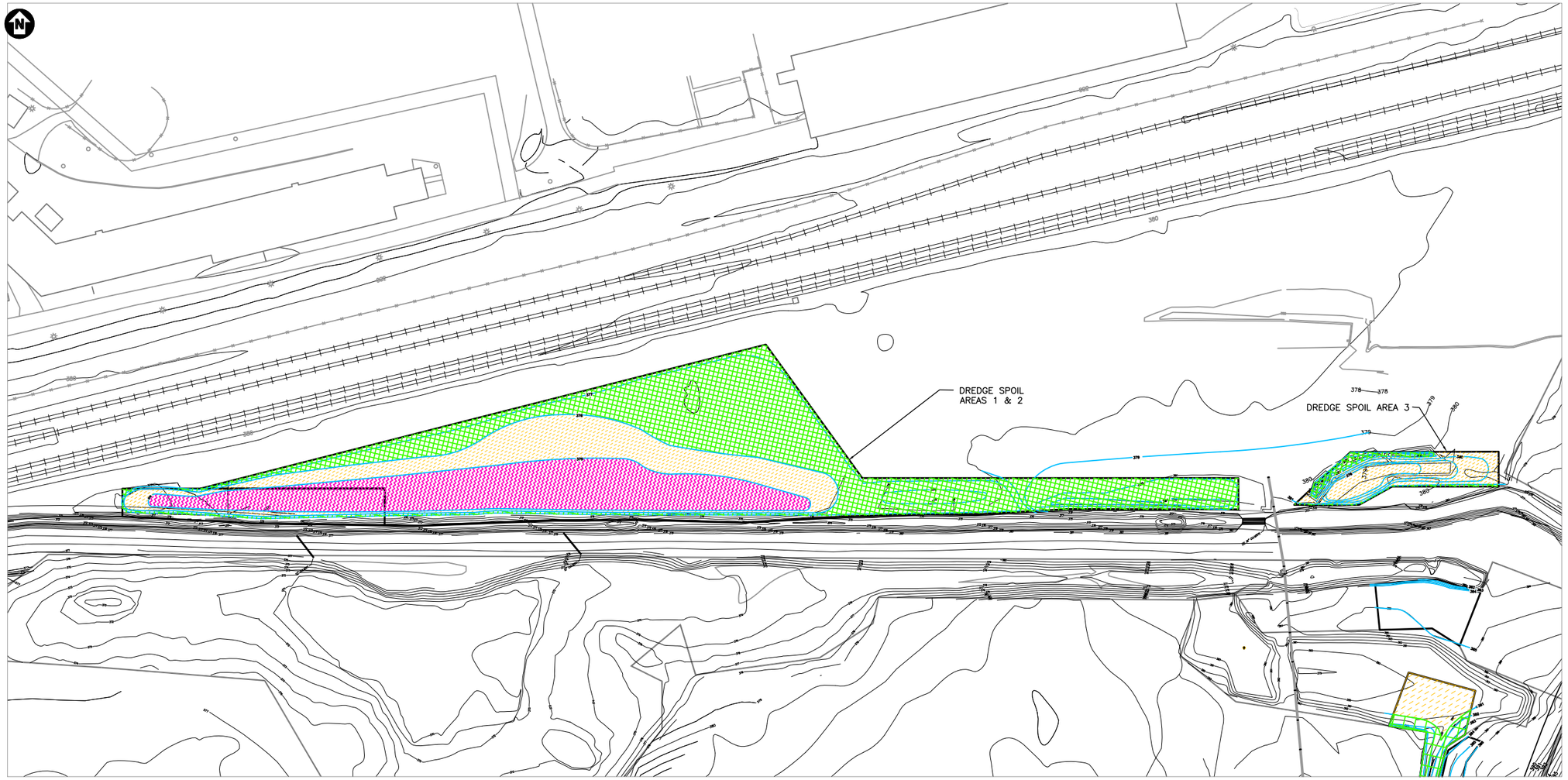
DRAWING TITLE
WEST DITCH
RESTORATION PLAN

SCALE: SCALE 1"=40'
(IF PRINTED ON 22x34 SHEET)

DRAWING NO. 446662-C-006

REV. A

FILE NAME: P:\HONEYWELL - SYR\446662 - LCP O&M SUPPORT\10.0 TECHNICAL CATEGORIES\10.3 CAD\DESIGN\LCP\CIVIL\446662-C005-7.DWG
PLOT DATE: 5/12/2011 11:45 AM PLOTTED BY: RUSSO, JILL



LEGEND

EXISTING CONTOURS

RESTORATION CONTOURS

NOTES:

1. PROJECTED WATER ELEVATIONS IN DREDGE SPOILS AREA IS 376.
2. CONSTRUCT LOW BERM ACROSS THE MOUTH OF DREDGE SPOILS AREA 3, USING UNCLASSIFIED FILL AND TOPSOIL. INSTALL PERMANENT EROSION CONTROL FABRIC (SI LANDLOK C2 OR EQUAL) OVER BERM TO A MINIMUM OF 10' PASS THE TOE OF SLOPE ON EITHER SIDE OF BERM.
3. GRADES SHOWN ARE FINAL GRADES AFTER APPLICATION OF 6 INCHES OF TOPSOIL.
4. DREDGE SPOILS AREAS SHALL BE RESTORED TO A MAXIMUM SLOPE OF 3 HORIZONTAL TO 1 VERTICAL (3:1).
5. VEGETATION PLANTINGS ARE SPECIFIED IN THE RESTORATION SECTION OF THE WORK PLAN.
6. TOPSOIL DETAILS ARE SPECIFIED IN THE RESTORATION SECTION OF THE WORK PLAN.

WETLAND GRADING/ PLANTING ZONES

ZONE A – WETLAND EDGES AND SIDE SLOPES
A–1: SIDE SLOPES
A–2: WETLAND EDGES

ZONE B – EMERGENT WETLAND

B–1: SHALLOW EMERGENT

B–2: DEEP EMERGENT

ELEVATIONS BETWEEN ZONES DREDGE SPOIL AREA 3	ELEVATIONS BETWEEN ZONES DREDGE SPOIL AREAS 1 & 2
ZONE A: A–1: 383+ A–2: 381–383'	ZONE A: A–1: 378+ A–2: 376–378'
ZONE B: B–1: 379–381' B–2: NA	ZONE B: B–1: 375–376' B–2: 374–375'

NOT FOR CONSTRUCTION

PRELIMINARY

NO.	DESCRIPTION	DATE	DRAWN	CHK'D	APPV'D
A	ISSUED FOR COMMENT (IN PROGRESS)	MM/DD/YY			

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PROJECT MGR.	DATE MM/DD/YY	

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PROJECT TITLE
LCP OM&M REMOVALS
2011

LCP BRIDGE STREET SITE
SYRACUSE, NEW YORK

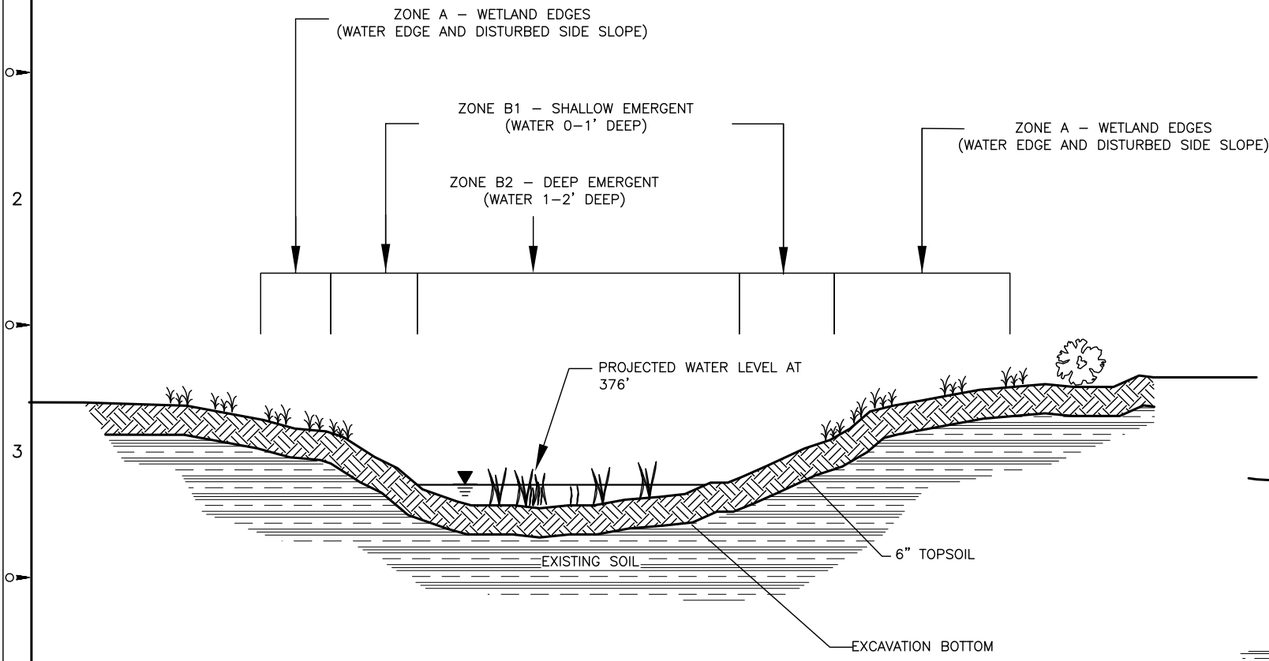
DRAWING TITLE
DREDGE SPOILS
RESTORATION PLAN

SCALE
SCALE 1"=80'
(IF PRINTED ON 22x34 SHEET)

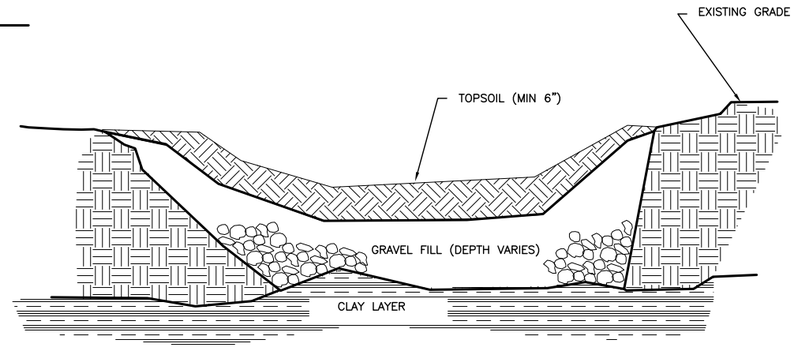
DRAWING NO. 446662–C–007

REV. A

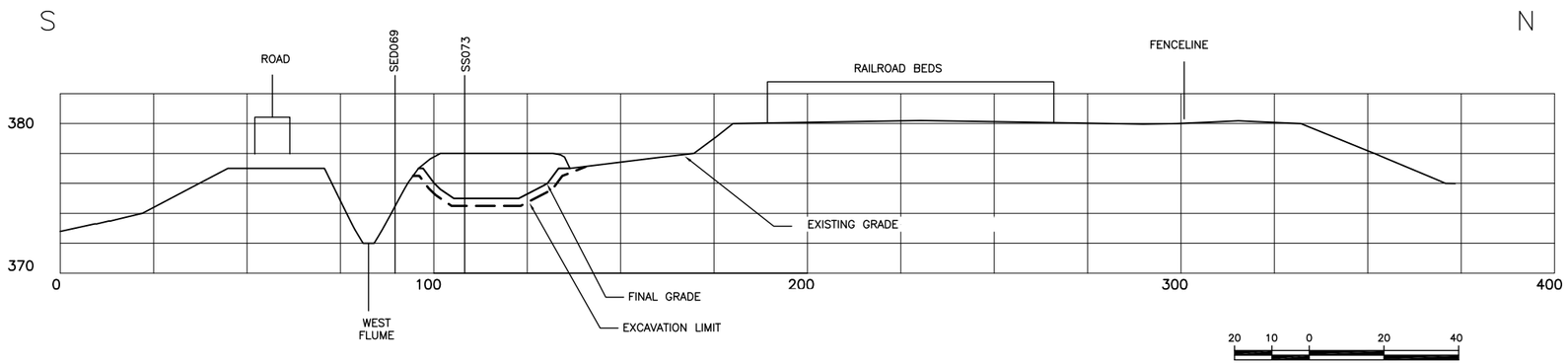
FILE NAME: P:\HONEYWELL -SYR\446662 - LCP O&M SUPPORT\10.0 TECHNICAL CATEGORIES\10.3 CAD\DESIGN\LCP\CIVIL\446662-C005-7.DWG
PLOT DATE: 5/12/2011 11:20 AM PLOTTED BY: RUSSO, JILL

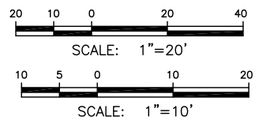


TYPICAL DREDGE SPOILS RESTORATION SECTION
NOT TO SCALE



TYPICAL WEST DITCH RESTORATION SECTION
NOT TO SCALE





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PRELIMINARY DRAFT
SETTLEMENT CONFIDENTIAL
NOT INTENDED FOR PUBLIC REVIEW

NO.	DESCRIPTION	DATE	DRAWN	CHK'D	APPV'D
A	ISSUED FOR COMMENT (IN PROGRESS)	MM/DD/YY			

DRAWN BY	DATE	MM/DD/YY
CHECKED BY	DATE	MM/DD/YY
APPROVED BY	DATE	MM/DD/YY
PROJECT MGR.	DATE	MM/DD/YY

SEAL

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WBS XXXXX

PROJECT TITLE
LCP OM&M REMOVALS
2011

LCP BRIDGE STREET SITE
SYRACUSE, NEW YORK

DRAWING TITLE
EXCAVATION AND RESTORATION DETAILS

SCALE: SCALE AS SHOWN (IF PRINTED ON 22x34 SHEET)

DRAWING NO. 446662-C-008
REV. A

FILE NAME: P:\HONEYWELL -SYR\446662 - LCP O&M SUPPORT\10.0 TECHNICAL CATEGORIES\10.3 CAD\DESIGN\LCP\CIVIL\446662-C008.DWG
PLOT DATE: 5/12/2011 12:36 PM PLOTTED BY: RUSSO, JILL

Attachment B

Tables

Table 1

Conservation Seed Mix

SPECIES	WEIGHT (lbs./acre)
White clover(a) (Trifolium repens)	5.0 lbs.
Birdsfoot trefoil[(a)](*Lotus corniculata*)	5.0 lbs.
Perennial ryegrass (*Lolium perenne*)	10.0 lbs.
Timothy grass (*Phleum pratense*)	10.0 lbs.
Orchard grass (*Dactylis glomerata*)	10.0 lbs.
Smooth bromegrass (*Bromus inermis*)	10.0 lbs.
Total lbs./acre	**50.0 lbs.**

(a) Legume requires addition of innoculant prior to seeding.

Notes:

1) Apply Conservation Seed Mix by hand or mechanical spreader to prepared surface at rate of 50 lbs./acre, lightly rake and roll into surface.
2) Apply mulch immediately after application of seed.

Table 2

Wet Meadow Seed Mix

SPECIES	WEIGHT (lbs./acre) (%)
Redtop (*Agrostis alba*)	4.0 lbs. (13.3%)
Cosmos sedge (*Carex comosa*)	4.0 lbs. (6.6%)
Fox sedge (*Carex vulpinoidea*)	4.0 lbs. (6.6%)
Lake sedge (*Carex lacustris*)	2.0 lbs. (3.3%)
Blunt broom sedge (*Carex scoparia*)	2.0 lbs. (6.6%)
Green bulrush (*Scirpus atrovirens*)	2.0 lbs. (6.6%)
Wool grass (*Scirpus cyperinus*)	3.0 lbs. (3.3%)
Broad-leaf cattail (*Typha latifolia*)	2.0 lbs. (6.6%)
Beggar-ticks (*Bidens cernua*)	2.0 lbs. (6.6%)
Fowl mannagrass (*Glyceria striata*)	2.0 lbs. (3.3%)
Pennsylvania smartweed (*Polygonum pensylvanicum*)	2.0 lbs. (3.3%)
Marsh smartweed (*Polygonum hydropiperoides*)	2.0 lbs. (6.6%)
Spikerush (*Eleocharis obtusa*)	1.0 lbs. (3.3%)
Soft rush (*Juncus effusus*)	2.0 lbs. (3.3%)
Eastern burreed (*Sparganium americanum*)	2.0 lbs.(6.6%)
Blue vervain (*Verbena hastata*)	2.0 lbs.(6.6%)
Rice cutgrass (*Leersia oryzoides*)	2.0 lbs.(6.6%)
Total lbs. per acre	**40.0 lbs.**
Annual rye (*Lolium multiflorum*)	10 lbs./acre

Notes:

1) Apply Wet Meadow Seed Mix by hand or mechanical spreader to prepared surface at rate of 40 lbs./acre.

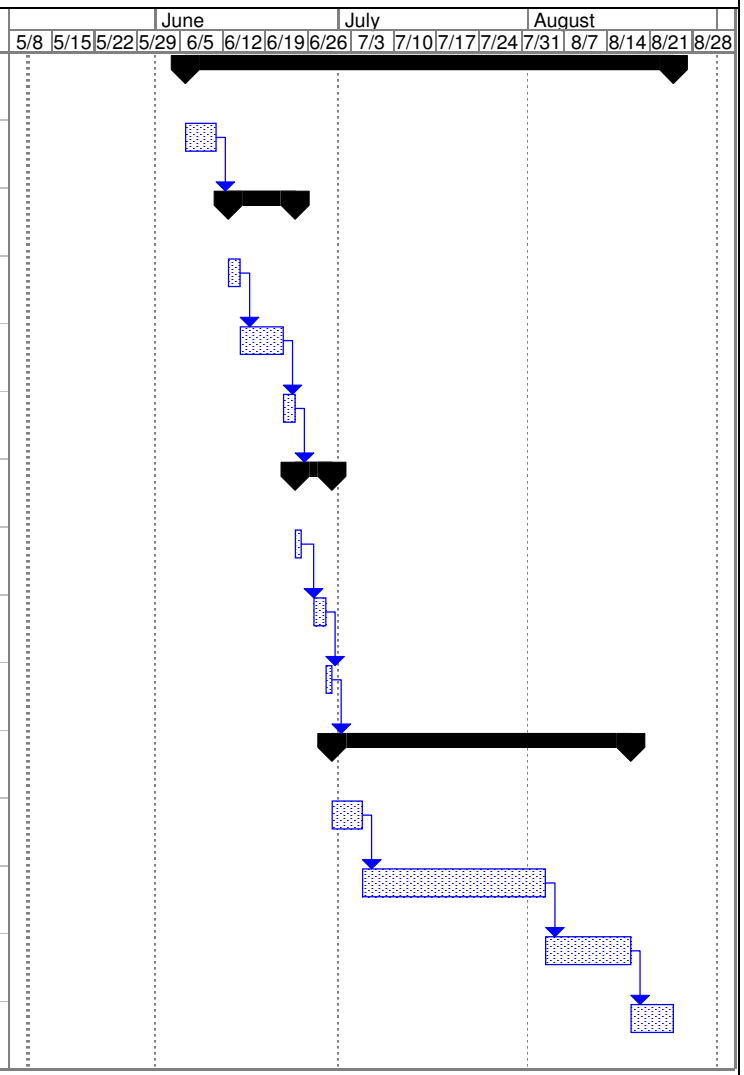
2) Apply annual rye cover crop at a rate of 10 lbs./acre immediately following Wet Meadow seed mix placement.

Attachment C

Schedule

Attachment C
LCP OU1
West Ditch, Wetland A, & Dredge Spoil Area Removal

ID	Task Name	Duration	Start	Finish
1	**LCP OU1 West Ditch, Wetland A, & Dredge Spoil Area Material R**	**58 days**	**Mon 6/6/11**	**Wed 8/24/11**
2	Mobilization	5 days	Mon 6/6/11	Fri 6/10/11
3	**West Ditch**	**9 days**	**Mon 6/13/11**	**Thu 6/23/11**
4	Site Preparartion	2 days	Mon 6/13/11	Tue 6/14/11
5	Soil/Sediment Removal	5 days	Wed 6/15/11	Tue 6/21/11
6	Restoration	2 days	Wed 6/22/11	Thu 6/23/11
7	**Wetland A**	**4 days**	**Fri 6/24/11**	**Wed 6/29/11**
8	Site Preparartion	1 day	Fri 6/24/11	Fri 6/24/11
9	Soil/Sediment Removal	2 days	Mon 6/27/11	Tue 6/28/11
10	Restoration	1 day	Wed 6/29/11	Wed 6/29/11
11	**Dredge Spoil Area**	**35 days**	**Thu 6/30/11**	**Wed 8/17/11**
12	Site Preparartion	3 days	Thu 6/30/11	Mon 7/4/11
13	Soil/Sediment Removal	22 days	Tue 7/5/11	Wed 8/3/11
14	Restoration	10 days	Thu 8/4/11	Wed 8/17/11
15	Demobilization	5 days	Thu 8/18/11	Wed 8/24/11



Project: Attachment C
Date: Wed 5/11/11

Task
Split
Progress
Milestone
Summary
Project Summary
External Tasks
External Milestone
Deadline