



ENVIRONMENTAL GROUP, INC.
ENGINEERING, ARCHITECTURE & SURVEYING, PC

SITES 8 AND 9 SOIL MANAGEMENT PLAN

DESTINY USA SYRACUSE, NEW YORK

Prepared for:

New York State Department of Environmental Conservation
Region 7
615 Erie Boulevard West
Syracuse, New York 13204

Prepared by:

Spectra Environmental Group, Inc.
Spectra Engineering, Architecture and Surveying, P.C.
19 British American Boulevard
Latham, New York 12110

MARCH 2014

**SITES 8 AND 9
SOIL MANAGEMENT PLAN
DESTINY USA, SYRACUSE, NEW YORK**

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- FIGURE 4** **SITES 8 AND 9 FINAL GRADE**

1.0 INTRODUCTION

DEC has approved a Beneficial Use Determination (BUD) for soil on Sites 8 and 9 to be used as grading material on Site 3 (see Figure 1 – Site Locations). There is a total of approximately 130,680 cubic yards stockpiled on Sites 8 and 9. NYSDEC has determined the majority of that soil (approximately 124,500 cubic yards) can be used as grading material on Site 3. Approximately 2,280 cubic yards will require management at an approved Solid Waste Management Facility and approximately 3,900 cubic yards is exempt material as defined in 6NYCRR Part 360. Exempt material will be managed on Site 4.

This Site Management Plan (SMP) outlines the loading, transport, and grading process to manage the material from Sites 8 and 9 to Sites 3 and/or 4. This work, the removal of the existing soil stockpiles from Sites 8 and 9 to Site 3 and/or 4 is not part of the Brownfield Cleanup Program.

2.0 PURPOSE

This SMP is intended to identify the actions necessary to remove stockpiled soil from Sites 8 and 9 (Figures 2 and 3), and place the majority of this soil on Site 3, the parcel of land southeast of Bear Street, owned by Destiny USA. Site 3 is generally bounded by Bear Street to the northwest, North Clinton Street to the northeast, Solar Street to the southwest, and Court Street to the southeast. This document will outline the activities necessary to load, transport, and place the material on Site 3. Site 8 and 9 soil not going to Site 3 includes soil previously designated for regulated disposal.

3.0 SITES 8 AND 9 BUD PROCESSING

Soil management will be conducted in two primary operations;

- a) Loading (includes primary source screening), and
- b) Transport

3.1 SITE PREPARATION

Measures for controlling potential nuisance conditions and offsite migration will be implemented prior to construction. These measures include air monitoring, stormwater controls, stockpile management, dust control, and traffic control. These measures are presented in greater detail in Section 4, below. Concerns about project activities to include, site conditions, transport to Sites 3 and 4, roadways, or traffic may be reported to David Aitken at 315-422-7000 for immediate resolution.

3.2 MATERIAL SEPARATION

The following screening protocol will be implemented to separate the material on Sites 8 and 9 into three (3) types:

- 1) Soil from the Sites 8 and 9 stockpiles deemed suitable by the Department based on existing laboratory data for use as grading material on Site 3 pursuant to the approved material specific BUD. This soil will require no additional treatment, and will exclude the material defined below. Based on this criteria, the quantity of soil destined for Site 3 is approximately 124,500 cubic yards.
- 2) Soil consisting of material that has been identified and approved by DEC for transport and disposal at a permitted landfill. The criteria for segregation are documented elevated levels of metals. The areas to be excavated are shown on Figure 2 (Plan View) and Figure 3 (Cross-Sections). Based on the documented laboratory data results, and an assumed confidence zone, Site 8 sampling locations containing elevated levels of metals will be excavated within a radius of 20 feet around the sampling locations through the depths indicated on Figures 2 and 3.

Based on the documented laboratory data results, and an assumed confidence zone, Site 9 sampling locations containing elevated levels of metals and/or PCBs will be excavated within a radius of 10 feet (20 feet for elevated PCBs) around the sampling locations through the depths indicated on Figures 2 and 3. Samples on Site 9 are composite samples from two locations within each sector. The quantity of disposable soil from both sites is estimated to be approximately 2,280 cubic yards. During segregation and removal, any additional material that does not meet the 6NYCRR Part 360 definition of exempt will be disposed at a permitted sanitary landfill.

- 3) Exempt material consists of material embedded in the Sites 8 and 9 stockpiles that meets the definition of exempt material under NYCRR Part 360, i.e., uncontaminated concrete, rebar, asphalt, brick, stone, etc. Should other material, not BUD approved or exempt, be found during segregation it is necessary for Destiny to characterize this material and properly dispose of it within 60 days. DEC will be notified within 24 hours of when such material is found. The quantity of exempt material is estimated to be approximately 3,900 cubic yards.

An environmental professional will be assigned to each excavator to monitor the segregation of excavated material and ensure that waste is hauled in accordance with regulatory requirements and this SMP.

3.3 SOIL LOADING AND TRANSPORT

As the soil is being loaded, exempt material (uncontaminated concrete, re-bar, asphalt, rock, soil and brick) suitable for use as aggregate amendment will be manually separated, accumulated and transported to Site 4 for processing. Waste will be accumulated in appropriate containers on Sites 8 and 9 for disposal at a permitted solid waste landfill. Should other material, not BUD approved or exempt, be found during segregation it is necessary for Destiny to characterize this material and properly dispose of it within 60 days. DEC will be notified within 24 hours of when such material is found.

Soil within the sample locations as depicted in Figures 2 and 3, and material that does not meet the definition of exempt material, will be isolated, i.e., placed in dump trucks, roll off boxes, or temporarily staged for transportation and disposal to a facility authorized to accept this soil within 60 days.

Soil approved by the BUD will be loaded by excavators or front-end loaders into dump trucks or roll off boxes, and transported directly to designated management areas on Site 3, following the haul routes described below.

3.3.1 Haul Routes

Depending on the Site 3 deposit area, vehicles transporting soil from Sites 8 and 9 will follow either of two predetermined routes and deposit material in areas on Site 3 as directed by the site contractor.

Route 1 – Trucks will drive south on Solar Street to Bear Street. They will turn left on Bear Street to North Clinton Street where they will then turn right on North Clinton Street and enter the site at the designated entrance.

Route 2 Trucks will drive south on Solar Street to Bear Street, cross Bear Street and turn left into the Solar Street entrance of Site 3.

Soils will be spread immediately in the designated management areas with appropriate erosion and sediment controls pursuant to the SWPPP and general stormwater permit.

4.0 SITE CONTROLS

4.1 COMMUNITY AIR MONITORING PLAN (CAMP)

Prior to excavation activities, a subcontractor will implement an air monitoring program consistent with the previously approved Destiny Brownfield Sites Community Air Monitoring Plan (CAMP). During working hours, air quality will be monitored at the excavation areas on Sites 8 and 9, and on Site 3. Air quality will be monitored continuously throughout the work

day. Monitoring will be conducted in accordance with the CAMP regulatory protocols. The ambient air data RAM monitor will be set at the current state action level for particulate matter of 150 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) and the PID monitor will be set at an appropriate level below the state action level of 5 ppm.

4.2 STORMWATER MANAGEMENT

Erosion, sediment controls and stormwater for Sites 8 and 9 will be managed in accordance with the approved Stormwater Pollution Prevention Plan for this work, which was prepared to obtain coverage under the State General Permit for stormwater associated with this activity. Stormwater control features and compliance with the approved Stormwater Pollution Prevention Plan will be maintained throughout the duration of the project on Sites 8 and 9, until final stabilization of disturbed soils has been established and NYSDEC has determined the Stormwater Pollution Prevention Plan is no longer applicable.

4.3 STOCKPILES

In addition to the routine SWPPP stockpile erosion and sediment controls, a plan for suppressing dust generated during soil removal will be put in place prior to commencing work. Dust suppression techniques will be implemented to ensure that compliance with fugitive dust protocols is maintained throughout the project. Options to address fugitive dust emissions from stockpiles include water or calcium chloride spray. If used, liquid sprays will be used at a rate sufficient to control fugitive dust that will also minimize impacts to operations. Dust suppression will not be implemented during precipitation events that achieve the equivalent dust suppression as the methods described below.

4.4 VEHICULAR DUST

The primary dust suppression techniques to be used on vehicles are water spray, reduced speed during transport, and covers on all loads. At the end of every work day, heavy equipment may be staged on site, reducing potential tracking of material offsite.

During the work day, there is a possibility of material being tracked onto the parking lots and roadways. An efficient method of decreasing the amount of tracked material will be to construct a gravel buffer zone between the piles and the parking lots or roadway. The trucks exiting the Sites will drive over the 1 to 2-inch stone surface removing the material packed into the tires. Sweeping of roadway and/or parking will also be employed if necessary. Concerns regarding tracking and dust may be reported to David Aitken at 315-422-7000 for immediate resolution.

5.0 TRAFFIC AND SAFETY

Throughout the duration of the excavation and relocation activities, all traffic and road safety protocols will be followed. The City of Syracuse will be notified prior to the commencement of work.

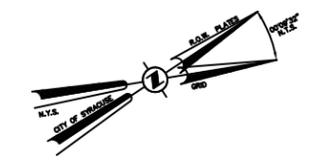
6.0 SCHEDULING

It is anticipated that the soil removal process will progress continuously until all material has been removed from Sites 8 and 9.

Loading and transport activities are expected to generally take place during work day hours. Depending on time of year, activities may be able to continue later into the evening. Activities may also take place on weekends.

After completion of soil removal the Sites will be prepared with final grade as shown in Figure 4 (Final Grade). Both area will be seeded and mulched after completion of final grade.

FIGURES



S8-G2			
Analyte:	Result 10-15	Result 15-20	
SW846 6010C (mg/kg)		851	
SW846 7471B (mg/kg)			
Mercury	1.93 GS1, D	1.82	GS1, D

S8-G3		
Analyte:	Result 0-5	Result 15-20
SW846 7471B (mg/kg)		
Mercury	2.12 GS1, D	1.55 GS1, D

S8-G3	
Analyte:	Result 15-19
SW846 7471B (mg/kg)	
Mercury	1.60 GS1, D

CITGO 8
(116.01-07.0, 2.70 ACRES)

SITE 8

ALASKAN 22
(116.02-07.0, 4.1 ACRES)

SITE 9

S8-G6	
Analyte:	Result 5-10
SW846 6010C (mg/kg)	
Lead	1260
SW846 7471B (mg/kg)	
Mercury	1.86 GS1, D

S8-G7	
Analyte:	Result 5-10
SW846 7471B (mg/kg)	
Mercury	1.58 GS1, D

S9-S9 (1-5) C2	
Analyte:	Result
SW846 6010C (mg/kg)	
Lead	550

S9-S10 (1-5) C2	
Analyte:	Result
SW846 6010C (mg/kg)	
Lead	471

S9-S11 (1-5) C2	
Analyte:	Result
SW846 6010C (mg/kg)	
Lead	766
SW846 8082A (mg/kg)	
Total PCBs	6.995

- LEGEND**
- FORMER TANKS
 - CURRENT PROPERTY BOUNDARIES
 - RI MONITORING WELL (TOTAL: 8)
 - 200' X 200' SAMPLE GRID
 - SECTOR
 - LIMITS OF 40,000 CUBIC YARDS BIO REMEDIATION PILE
 - LIMITS OF 88,000 CUBIC YARDS UNCHARACTERIZED SOILS PILE
 - TEST PIT 1-5 FEET (PILE)
 - TEST PIT 5-10 FEET (PILE)
 - SOIL BORING (NATIVE)
 - SOIL BORING (PILE) DOWN TO NATIVE SOIL
 - SOIL TO BE DISPOSED IN LANDFILL (10 FT RADIUS)
 - SOIL TO BE DISPOSED IN LANDFILL (20 FT RADIUS)
 - SOIL TO BE DISPOSED IN LANDFILL (20 FT RADIUS)

NOTE: SITE 9 COMPOSITE SAMPLES WERE A COMPOSITE TAKEN FROM TWO LOCATIONS FOR EACH SAMPLE (AS SHOWN).

UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

NO.	DATE	RECORD OF WORK	DRN	CKD	APPR

PROJECT	
PROJ. ENGR.:	FP
PROJ. NO.:	12129
PREPARED BY:	FP
DRAFTED BY:	REW
CHECKED BY:	FP
APPROVED BY:	
DATUM:	
CONTOUR INTERVAL:	

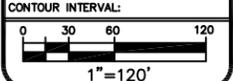
NYSDEC SITES 8 (C734136) AND 9 (C734137)
PLAN VIEW AREAS FOR DISPOSAL

DESTINY USA

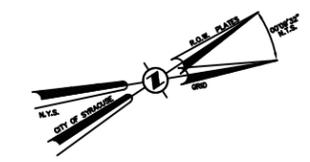
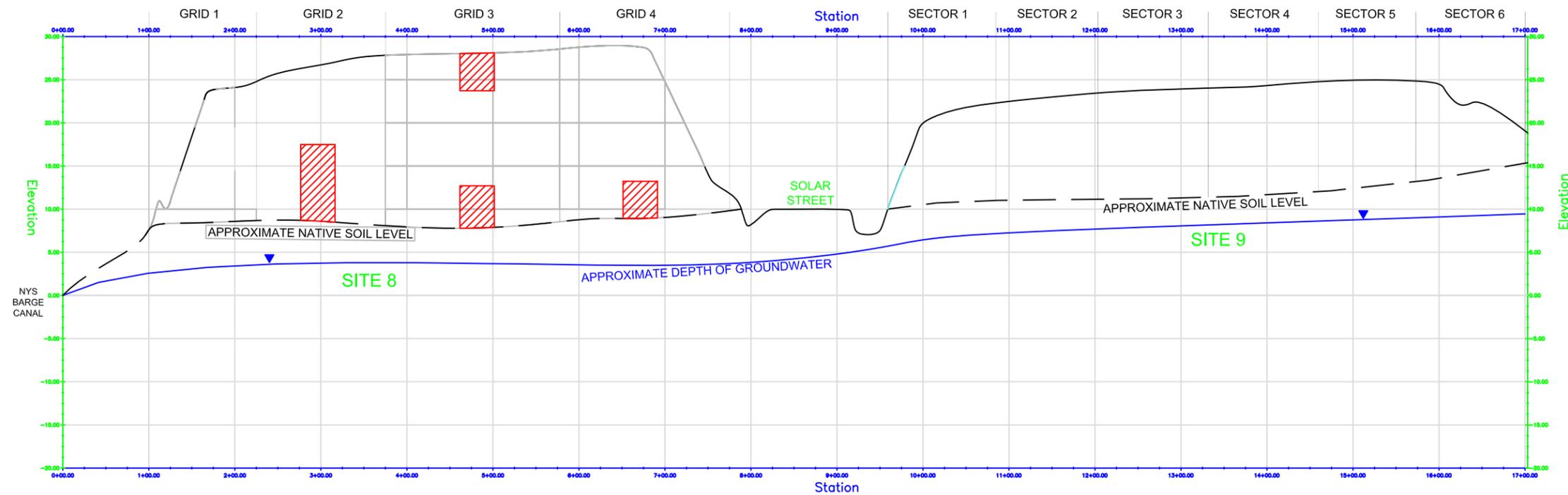
CITY OF SYRACUSE ONONDAGA COUNTY, N.Y.

SPECTRA ENVIRONMENTAL GROUP, INC.
19 British American Blvd.
Latham, NY 12110

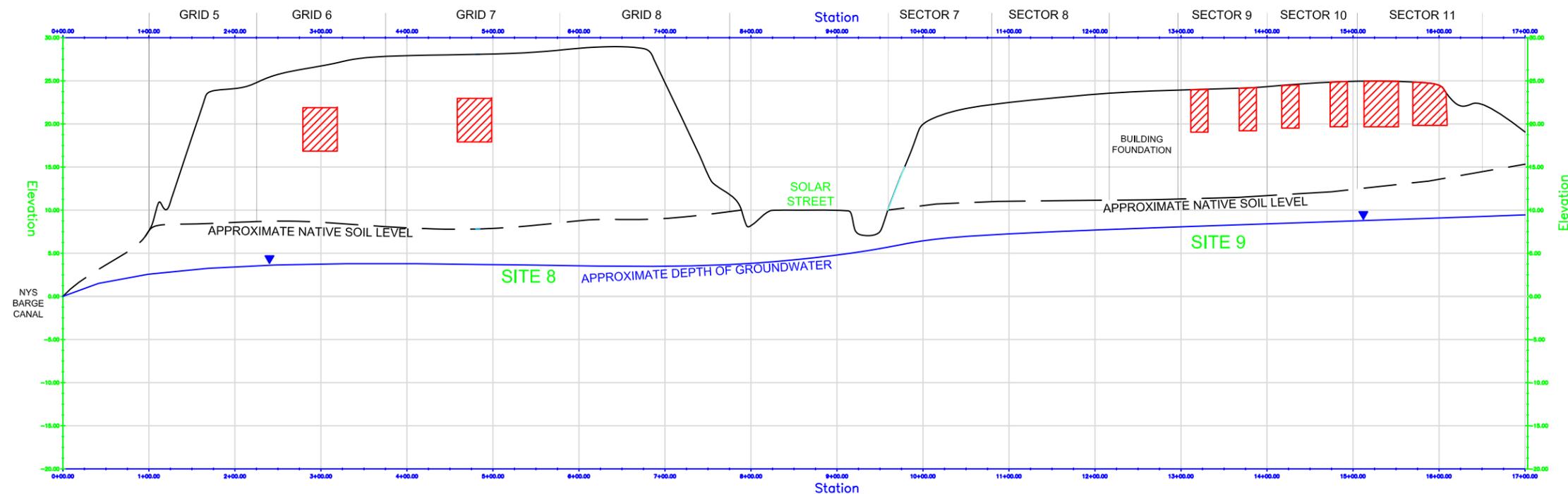
DATE: 02/06/14 SCALE: 1" = 120' DWG:12129 - RIR.DWG FIGURE 2



WESTERN PORTION



EASTERN PORTION



 Material to be disposed in regulated landfill

PROFILE SCALE:
HORZ: 1" = 150'
VERT: 1" = 15'

UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

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CHECKED BY:	FP
APPROVED BY:	
DATUM:	
CONTOUR INTERVAL:	
AS SHOWN	

NYSDEC SITES 8 (C734136) AND 9 (C734137)
 CROSS SECTION AREAS FOR DISPOSAL
DESTINY USA
 CITY OF SYRACUSE ONONDAGA COUNTY, N.Y.



SPECTRA ENVIRONMENTAL GROUP, INC.
 19 British American Blvd.
 Latham, NY 12110

DATE: 02/06/14 SCALE: AS SHOWN DWG:12129 - RIR.DWG FIGURE 3

CITGO 8
(116.-01-07.0, 2.70 ACRES)

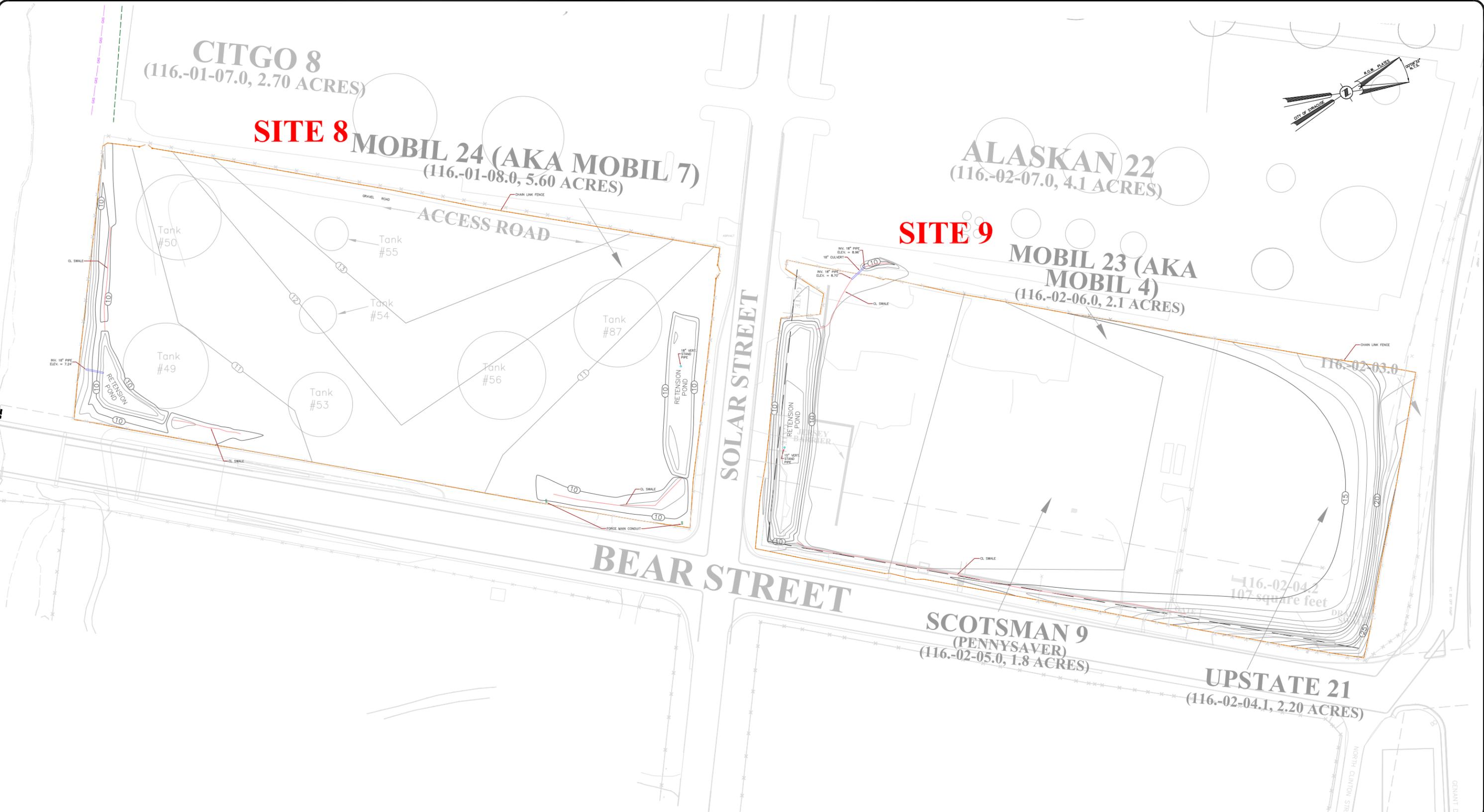
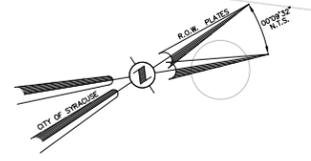
SITE 8 MOBIL 24 (AKA MOBIL 7)
(116.-01-08.0, 5.60 ACRES)

ALASKAN 22
(116.-02-07.0, 4.1 ACRES)

SITE 9 MOBIL 23 (AKA MOBIL 4)
(116.-02-06.0, 2.1 ACRES)

SCOTSMAN 9 (PENNYSAVER)
(116.-02-05.0, 1.8 ACRES)

UPSTATE 21
(116.-02-04.1, 2.20 ACRES)



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NO.	DATE	RECORD OF WORK	DRN	CKD	APPR

PROJECT	
PROJ. ENGR.:	FP
PROJ. NO.:	12129
PREPARED BY:	FP
DRAFTED BY:	REW
CHECKED BY:	FP
APPROVED BY:	
DATUM:	
CONTOUR INTERVAL:	
1" = 50'	

NYSDEC SITES 8 (C734136) AND 9 (C734137)

FINAL GRADE

DESTINY USA

CITY OF SYRACUSE ONONDAGA COUNTY, N.Y.

SPECTRA ENVIRONMENTAL GROUP, INC.
19 British American Blvd.
Latham, NY 12110

DATE: 1/30/2014 SCALE: 1" = 50' DWG:12129 - RIR.DWG FIGURE: 4