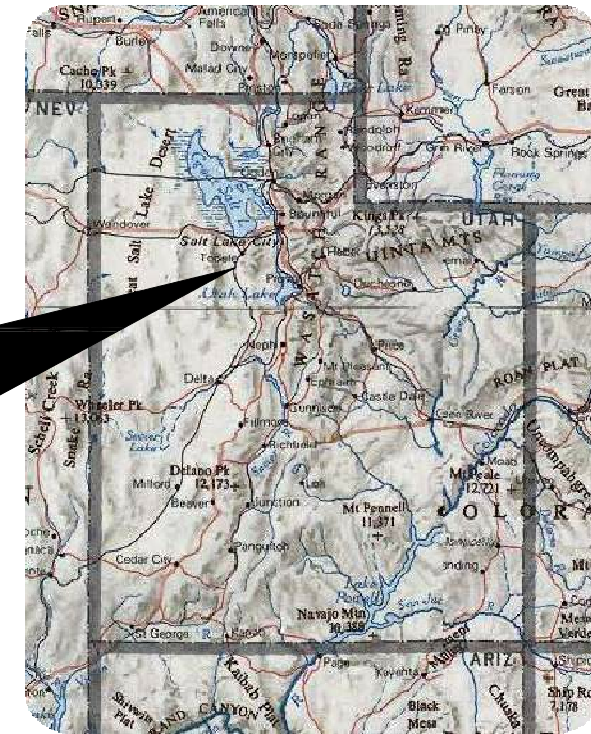
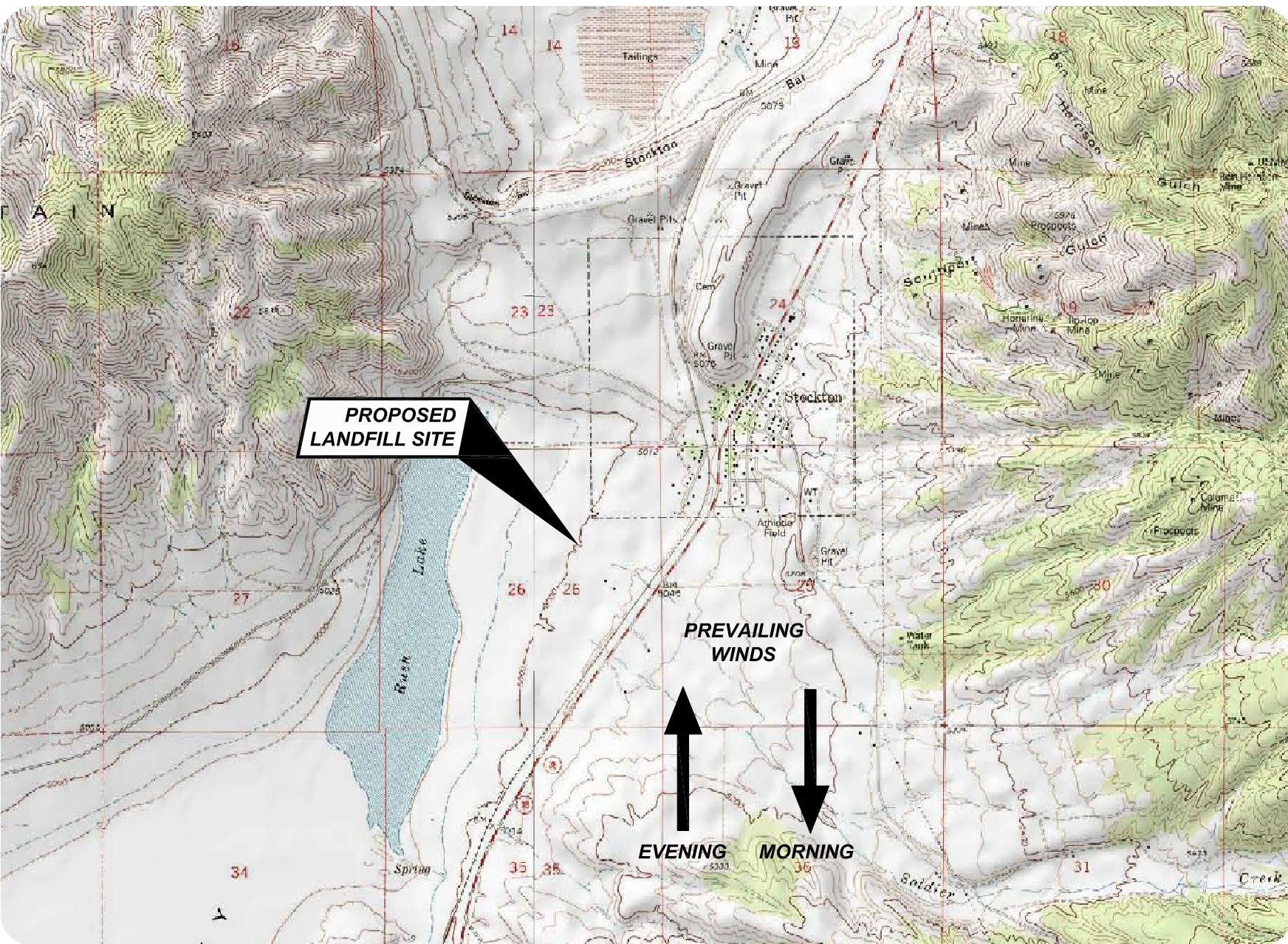


Attachment #1

Landfill Location  
And  
Design



General Notes

No.	Revision/Issue	Date

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INC.**

**ANDERSON**  
ENGINEERING COMPANY, INC.

DRAWN BY: SB

ENGINEER: SB

APPROVED:

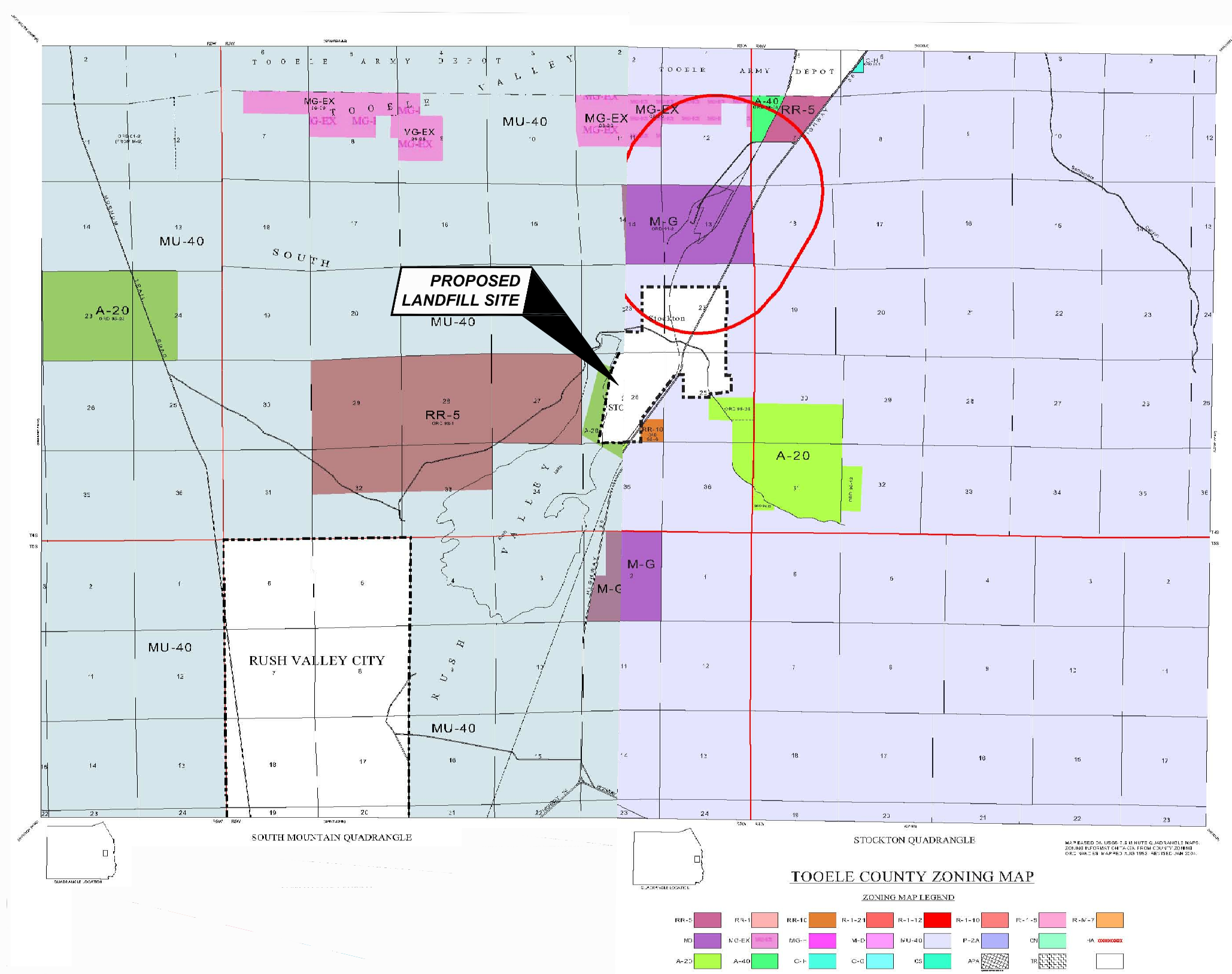
**LOCATION MAP**

**STOCKTON  
CLASS IIIB LANDFILL  
STOCKTON, UTAH**

Project	XX-XXX	Sheet
Date	13-OCT-2009	FIGURE <b>1</b>
Scale	AS SHOWN	

FIGURE

**1**



General Notes

No.	Revision/Issue	Date

**JOHANSEN  
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INC.**



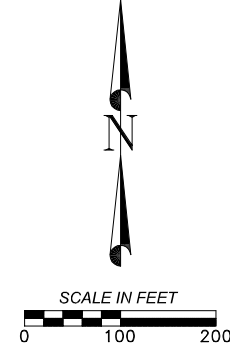
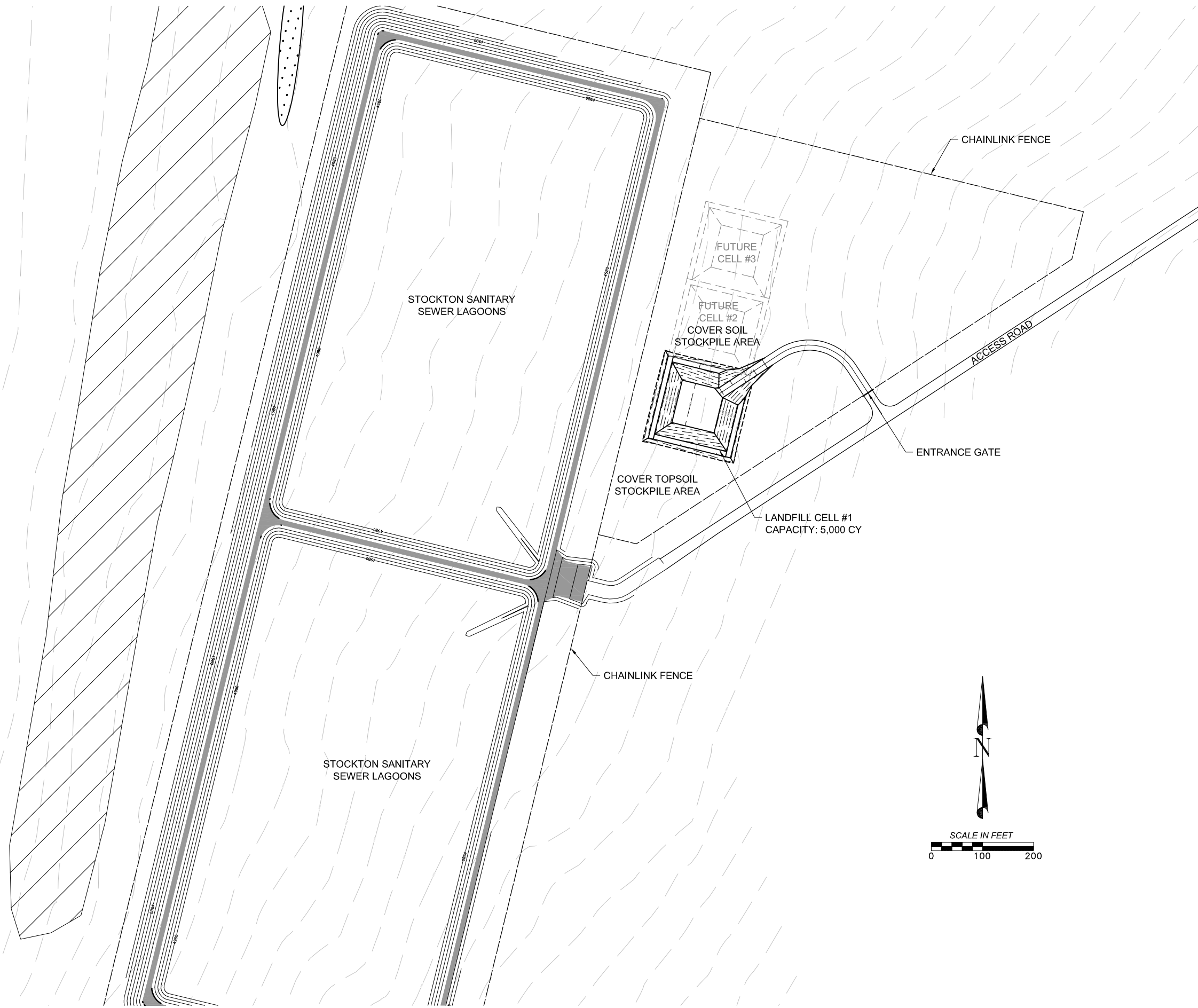
DRAWN BY: SB  
ENGINEER: SB  
APPROVED:

**COUNTY  
ZONING MAP**

**STOCKTON  
CLASS IIIB LANDFILL**  
STOCKTON, UTAH

Project	XX-XXX	Sheet	FIGURE <b>2</b>
Date	13-OCT-2009		
Scale	AS SHOWN		

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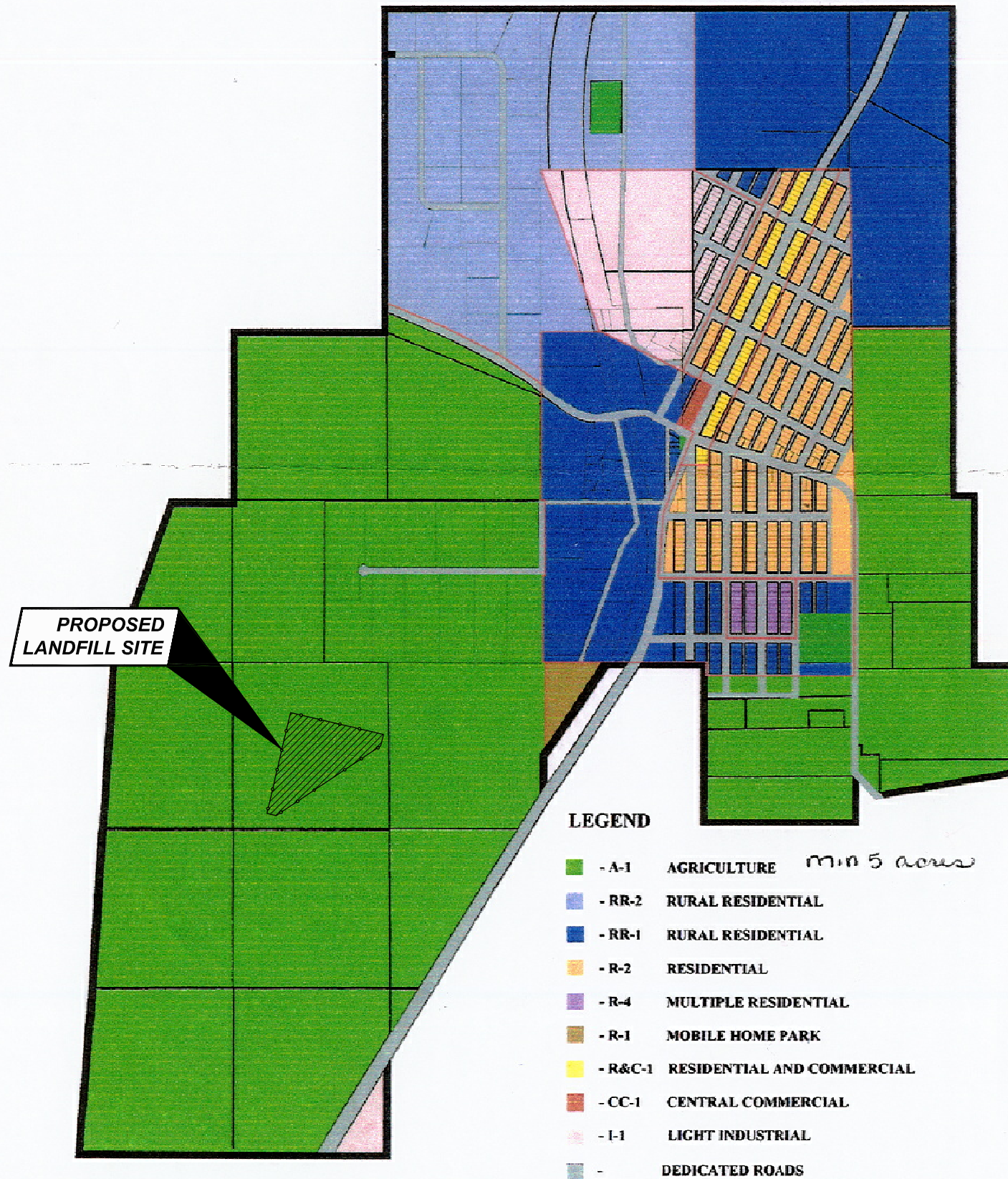
DRAWN BY: SB  
ENGINEER: SB  
APPROVED:

**SITE PLAN**  
**STOCKTON  
CLASS IIIB LANDFILL**  
STOCKTON, UTAH

Project	XX-XXX	Sheet	FIGURE <b>4</b>
Date	22-DEC-2009		
Scale	AS SHOWN		

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# TOWN OF STOCKTON ZONING MAP



General Notes

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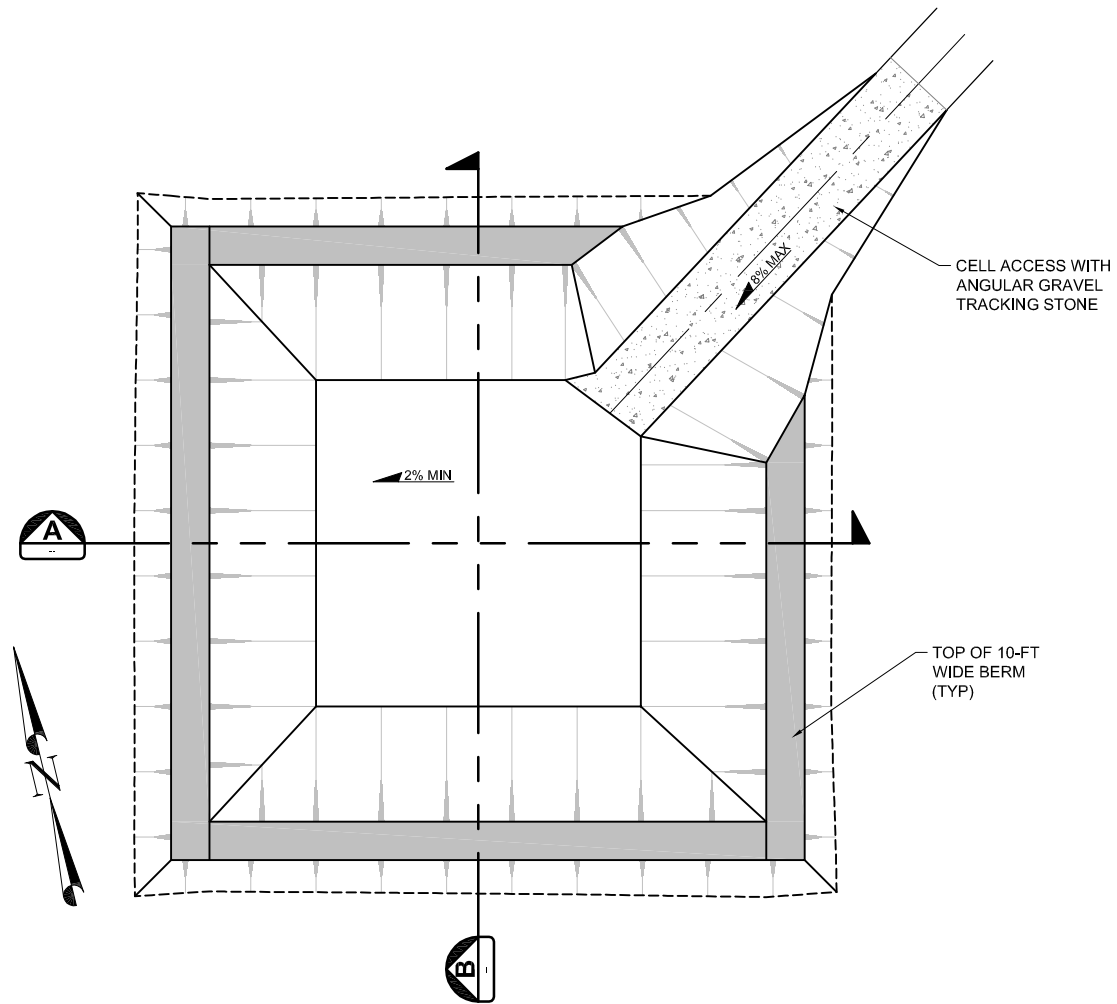
APPROVED:

**TOWN OF  
STOCKTON  
ZONING MAP**

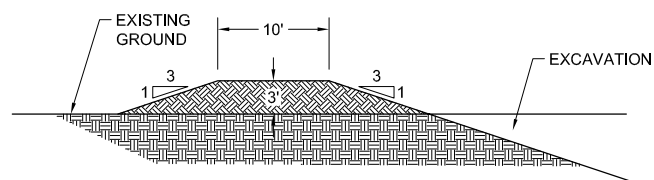
**STOCKTON  
CLASS IIIB LANDFILL**  
STOCKTON, UTAH

Project	XX-XXX
Date	13-OCT-2009
Scale	AS SHOWN

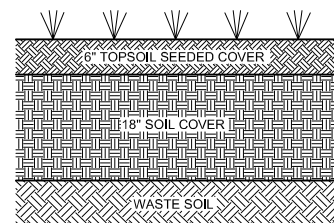
Sheet  
**FIGURE  
3**



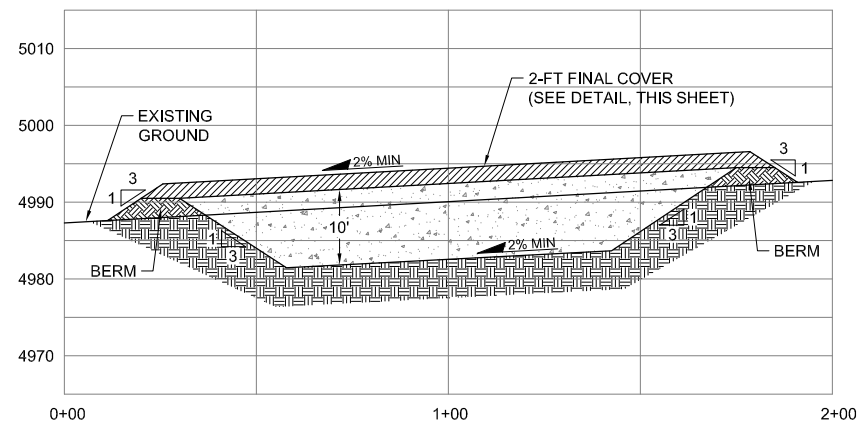
PLAN VIEW  
SCALE: 1" = 50'



TYPICAL BERM SECTION  
N.T.S.



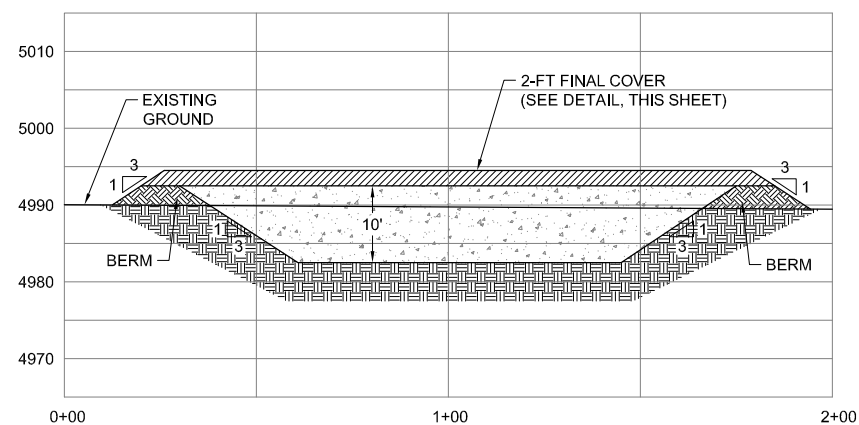
FINAL COVER  
N.T.S.



**A** SECTION  
SCALE: HOR. 1" = 50', VER. 1" = 25'

HORIZONTAL  
0 25 50

VERTICAL  
0 15 25



**B** SECTION  
SCALE: HOR. 1" = 50', VER. 1" = 25'

HORIZONTAL  
0 25 50

VERTICAL  
0 15 25

General Notes

No.	Revision/Issue	Date

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ENGINEERING COMPANY, INC.

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ENGINEER: SB

APPROVED:

**PLAN AND  
CROSS SECTIONS**

**STOCKTON  
CLASS IIIB LANDFILL**  
STOCKTON, UTAH

Project XX-XXX	Sheet
Date 22-DEC-2009	FIGURE <b>5</b>
Scale AS SHOWN	

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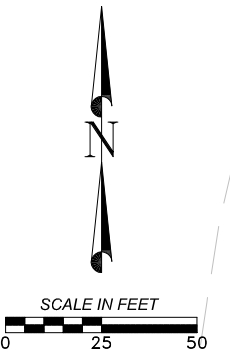
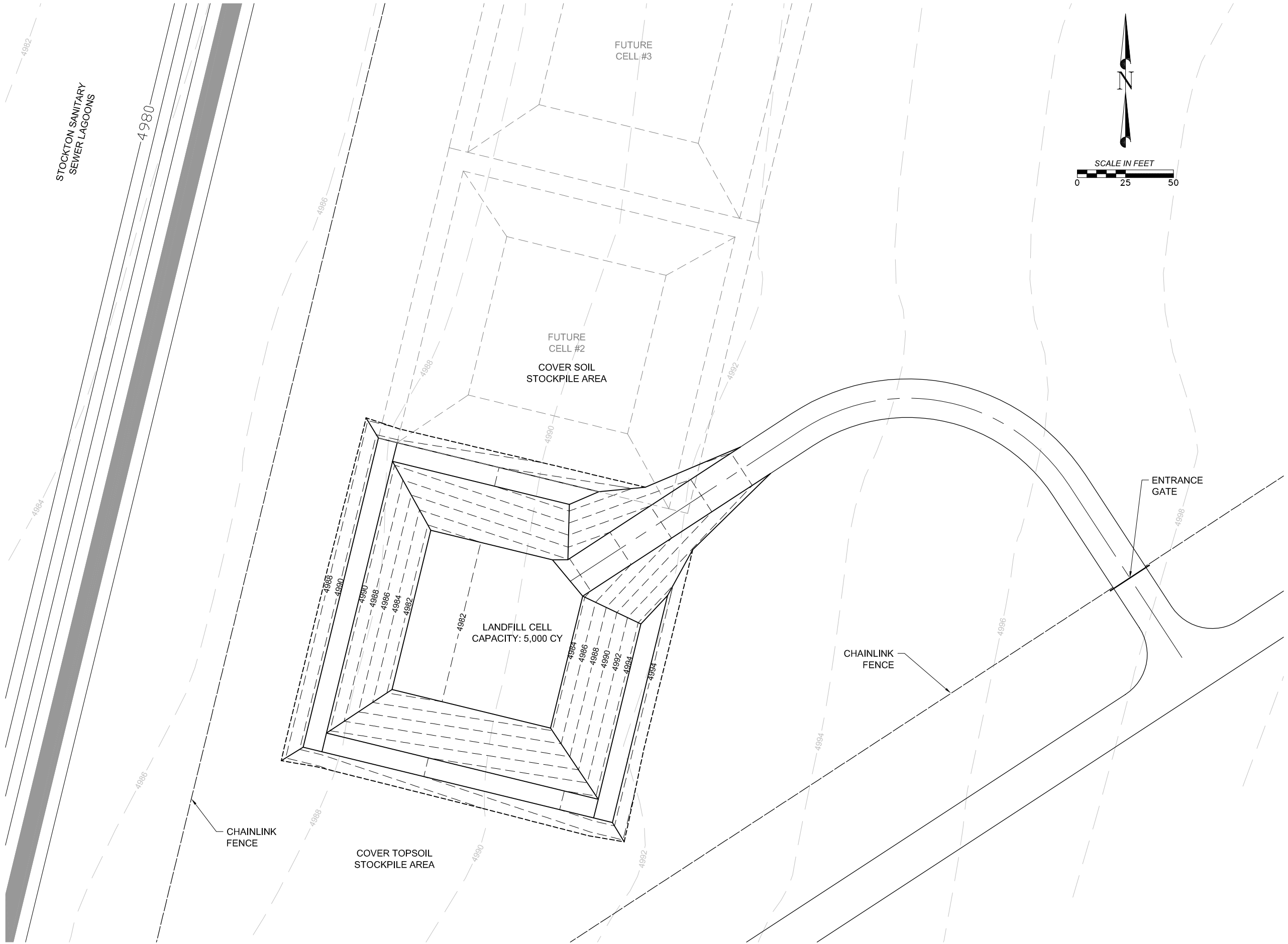
DRAWN BY: SB  
ENGINEER: SB  
APPROVED:

**AERIAL VIEW WITH  
OVERLAY**

**STOCKTON  
CLASS III B LANDFILL**  
STOCKTON, UTAH

Project	XX-XXX	Sheet	<b>FIGURE 6</b>
Date	22-DEC-2009		
Scale	AS SHOWN		

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ENGINEER: SB  
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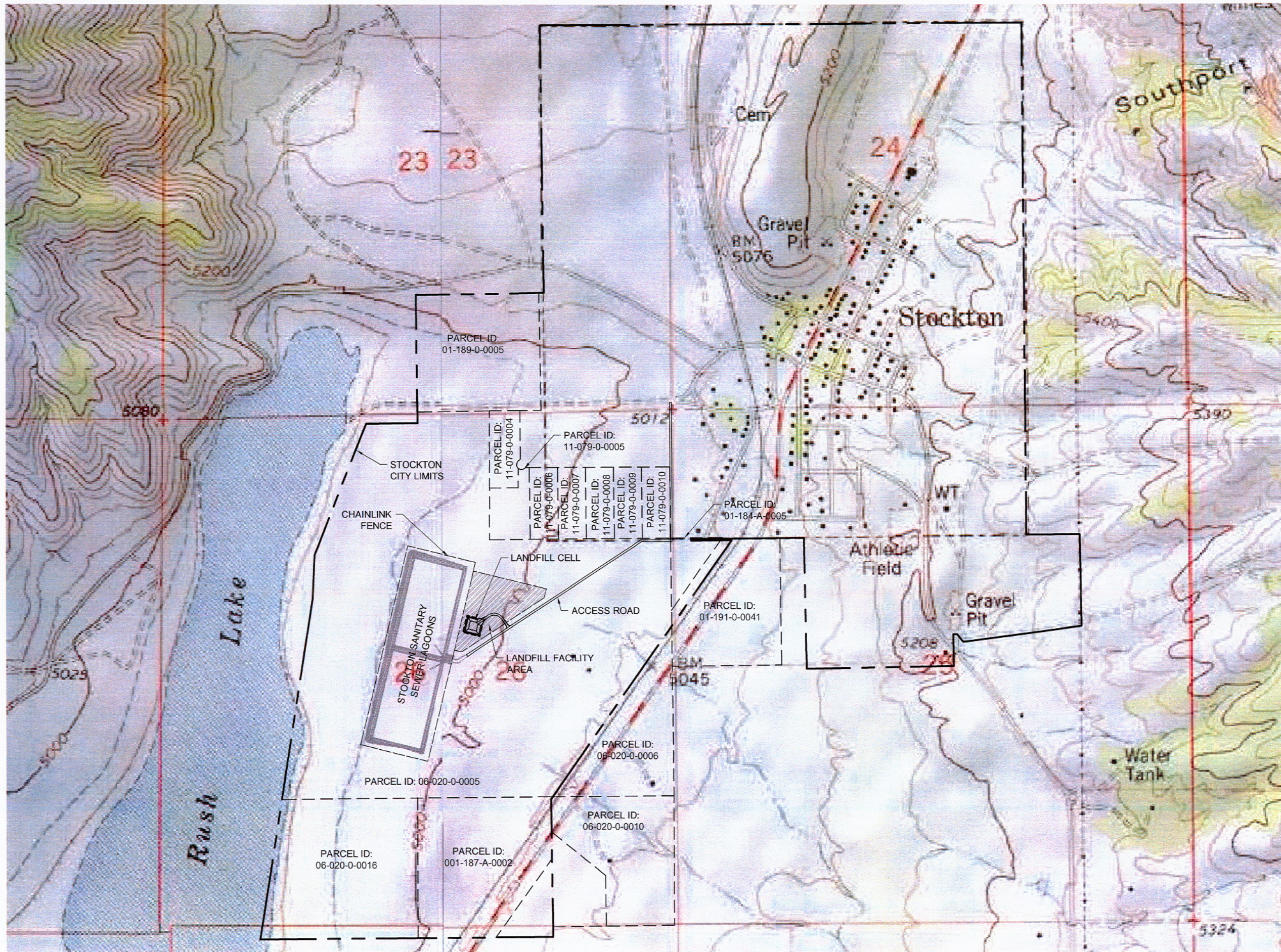
**INITIAL LANDFILL  
TOPOGRAPHY**

**STOCKTON  
CLASS IIIB LANDFILL  
STOCKTON, UTAH**

Project	XX-XXX	Sheet	FIGURE <b>7</b>
Date	22-DEC-2009		
Scale	AS SHOWN		

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General Notes



No.	Revision/Issue	Date

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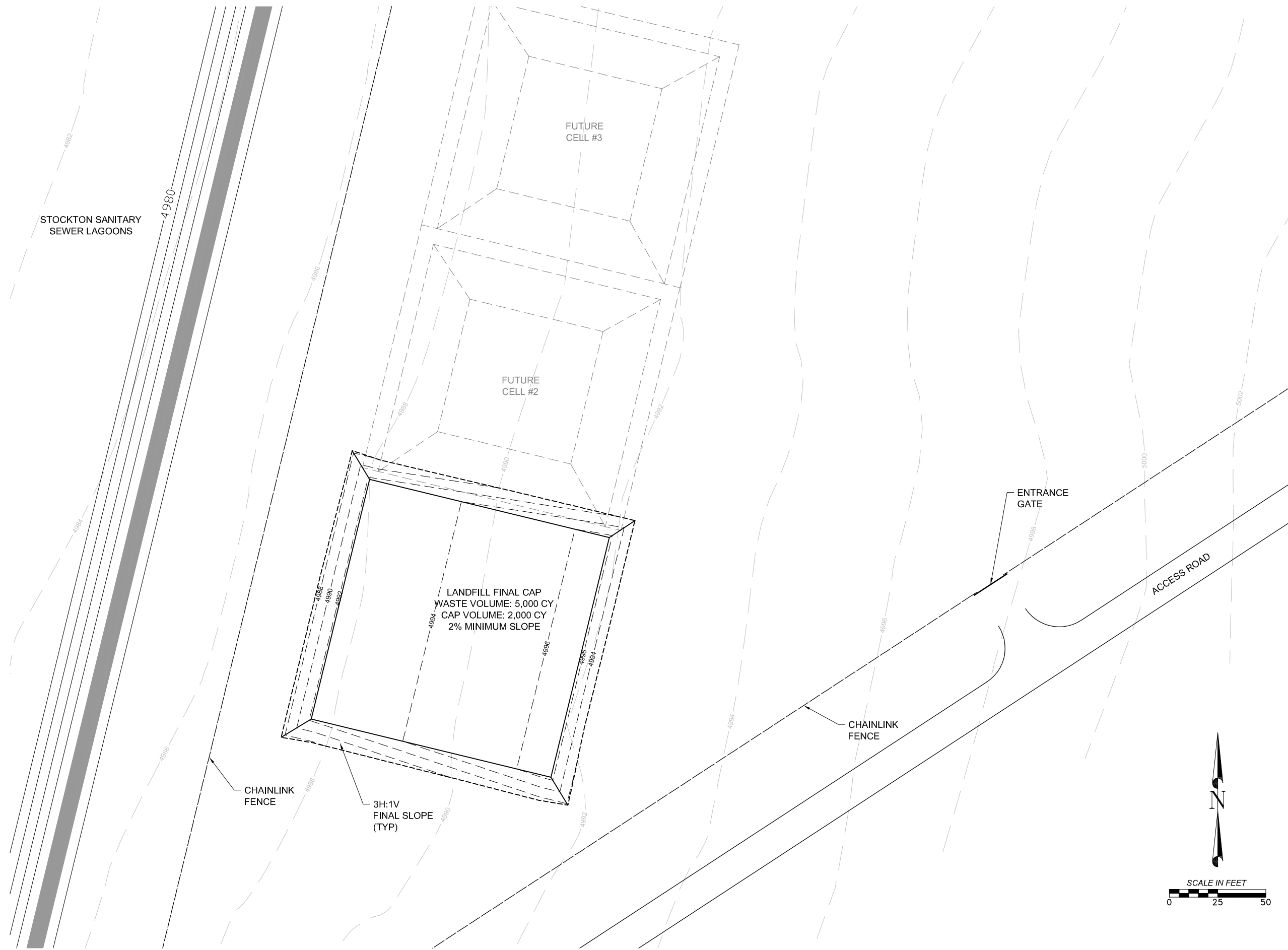


DRAWN BY: DBJ  
ENGINEER: SB  
APPROVED:

**USGS TOPOGRAPHIC  
MAP  
STOCKTON  
CLASS IIIB LANDFILL  
STOCKTON, UTAH**

Project	XX-XXX	Sheet	<b>FIGURE 8</b>
Date	22-DEC-2009		
Scale	AS SHOWN		

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General Notes

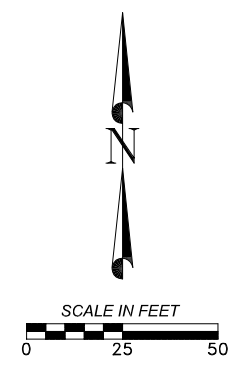
No.	Revision/Issue	Date

**JOHANSEN  
CONSTRUCTION,  
INC.**



DRAWN BY: SB  
ENGINEER: SB  
APPROVED:

**FINAL LANDFILL  
TOPOGRAPHY**  
  
**STOCKTON  
CLASS IIIB LANDFILL**  
STOCKTON, UTAH



Project	XX-XXX	Sheet	FIGURE <b>9</b>
Date	22-DEC-2009		
Scale	AS SHOWN		

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# Attachment #2

## Plan of Operation

## 1.7 Local Government with Jurisdiction

*(R315-310-3(2)(iii))*

The town of Stockton will is the local government entity with jurisdiction over the landfill facility.

## 1.8 Location Standards

*(R315-302-1(2)(c)(ii)*  
*(R315-304-4(2)(a)(i))*  
*(R315-302-1(2)(d))*  
*(R315-304-4(2)(a)(ii))*  
*(R315-304-4(2)(a)(iii))*

The proposed landfill will be located adjacent to the new wastewater treatment system lagoons to be constructed southwest of the town of Stockton. The landfill cell will be placed northeast of the new lagoons, above the high water mark of Rush Lake. The proposed location of the landfill cell is on the opposite side of the lagoons as Rush Lake.

Since it is situated above the high water mark of Rush Lake, and is not located near any streams, the cell is not located in any floodplain or wetland area.

Records for a private well located approximately 2,400 feet southeast of the landfill indicate the depth to water of 170 feet in 1980. While investigating the site for the future adjacent wastewater treatment lagoons a test hole was drilled which encountered water at a depth of between 50 and 60 feet. In addition, two Geoprobe borings were drilled to a depth of 25 feet at the landfill site and no water was encountered. The evidence indicates that the lowest level of the landfill cell will be greater than 10 feet above the historical high level of groundwater.

## 2.0 PLAN OF OPERATION

### 2.1 Waste Handling Procedures

*(R315-302-2(2)(b))*  
*(R315-310-3(1)(f))*

Landfill operations will be divided into three main phases. Each phase will correspond to a separate cell constructed for the purpose of providing disposal for that particular waste soil volume.

Only soil having a TCLP lead concentration less than the hazardous waste limit of 5 mg/L will be allowed in the landfill. Studies were conducted previously during earlier lead soil cleanup activities in Stockton, in order to develop a relationship between the TCLP values and the total lead concentrations (Pacifcorp, 2004, Classification of Metal Contaminated Soil, Town of Stockton –

OU1, as a Beville Waste). A summary of the study results is contained in Appendix G.

Based on the relationship between total lead and TCLP lead values at the site, a concentration of 3,000 mg/kg total lead is considered to be hazardous waste and shall be removed from the site to a hazardous waste disposal facility. This is consistent with the determination made during previous cleanup efforts to consider soil with lead concentrations greater than 3,000 mg/kg as hazardous waste. Soil with total lead concentrations greater than 500 mg/kg is considered to be impacted.

During the previous studies (Appendix G) a comparison was also made between the XRF lead values, total lead concentrations, and TCLP lead concentrations. The average ratio between XRF values and total lead concentrations was 81%. A ratio of 75% will be the criteria used to screen the soil coming into the landfill (with 5% of the samples being sent to the laboratory for verification analysis of total lead).

Therefore, soil not being replaced in the trenches or excavations, with total lead concentrations less than 3,000 mg/kg, or XRF values less than 2,250 ppm may be placed in the landfill.

Phase 1: During the installation of the wastewater treatment system main lines, the landfill will be used for disposal of the waste soil from the main sewer trenches.

Phase 2: During Phase 2, the landfill will be used for the disposal of impacted soils generated from the installation of the sewer laterals to individual residences.

Phase 3: After the wastewater treatment system is in place, the landfill will be used (as needed) for the disposal of impacted soils from miscellaneous homeowners' activities, including construction excavation, and any other activity which results in more than one cubic yard of contaminated soil (as per Stockton Ordinance #20004 – Excavation and Development within the Jacob Smelter).

During Phase 1, trucks carrying soil spoils from trenches during excavation of sewer lines, dispose of soil in landfill cell. Trucks will back into the landfill cell, keeping tires on the gravel track-in pad. Loads will be dumped at the edge of the pad and heavy equipment (such as a dozer or backhoe with loader bucket) will be used to spread the soil within the landfill cell. Trucks will not drive across the bottom of the landfill, over impacted soil, thus eliminating the potential to track impacted soil back onto city roads.

During Phase 2 and Phase 3 operations, the town of Stockton will operate the landfill on an as-needed basis. The gate will be opened to homeowners (or their designated contractors) on an appointment schedule to be determined. The homeowner will be responsible for providing the landfill operator with documentation stating that proper testing has been completed on the soil and that it meets the disposal criteria, and that it does not exceed hazardous waste limits. Residents will deposit the soil at the edge of the gravel track-in pad, after which the operator will spread the material across the landfill cell using a dozer.

During all three phases, a log will be kept identifying the waste placed in the landfill, including the date, waste type (documenting that no alternative waste is being placed), lead concentration, and volume of the load. A copy of the log form is included in Appendix D. The gate will remain locked at all times that the landfill is not actively receiving waste with the operator present.

The operator will be trained in the inspection of loads to ensure only proper material is placed in the landfill cell (see Section 2.9).

## 2.2 Inspections and Monitoring

*(R315-302-2(2)(c))*  
*(R315-302-2(5)(a))*  
*(R315-310-3(1)(g))*

The landfill will be inspected a minimum of quarterly. An inspection will also occur after a major storm event (greater than a 25 year 24 hour storm). The inspections are intended to provide assurance that the landfill is functioning as designed, with no erosion damage to the berms or cover. An inspection form is included in Appendix D. The completed inspection form shall be kept on file at the Stockton Town offices for a period of at least three years.

## 2.3 Fire/Explosion Contingency Plans

*(R315-302-2(2)(d))*

Only non-flammable soils will be disposed of in the landfill. No liquid or solid flammable or combustible waste will be accepted in the landfill.

## 2.4 Fugitive Dust Control

*(R315-302-2(2)(g))*

Soils will be brought to the landfill and dumped in a moistened condition. The disposed soils will be spread and compacted with a loader or dozer, minimizing the loose material subject to wind. The active area of the landfill surface will be lower in elevation than the surrounding berms, which will provide a wind break.

Fine materials that present a fugitive dust risk shall be covered with a minimum of six inches of earth at the end of the working day in which they are received. A six-inch earthen cover shall be placed at least once a month for all wastes received at the landfill. Cover material shall consist of native soils derived from the construction of the landfill cell and stockpiled to the side of the cell.

## 2.5 Litter Control

*(R315-302-(2)(h))*

No household or construction-demolition waste will be allowed in the landfill, so no litter is expected.

## 2.6 Procedure to Exclude Hazardous Waste

*(R315-302-2(2)(j))*

Soil having TCLP lead concentrations greater than 5 mg/L is considered hazardous waste and shall not be allowed in the landfill. As indicated in Section 2.1, and in the data presented in Appendix G, a relationship has been established between total lead concentrations, XRF lead values, and TCLP lead concentrations for soil in Stockton. Relying on this relationship, the concentration limits used as acceptance criteria for soil disposal will be 3,000 mg/kg total lead as determined by laboratory analysis (EPA SW-846 Method 3050B) or 2,250 ppm lead by XRF analysis. Analytical data shall accompany and be logged for each load entering the landfill.

The landfill operator will inspect each load entering the landfill to ensure that the waste type is in accordance with the allowed waste for this landfill, which includes excavated soil, along with incidental pipe and debris from the excavation. A log sheet will record all waste loads brought to the landfill.

## 2.7 Procedure to Control Disease Vectors

*(R315-302-2(2)(k))*

Since household, biological, or otherwise hazardous waste is excluded from the landfill, no material harboring disease vectors is expected to be present in the landfill. Waste soil will be graded to avoid water ponding in order to prevent mosquito larvae habitat.

## 2.8 Alternative Waste Handling

*(R315-302-2(2)(l))*

If there is a time when the landfill is not able to accept waste, material (approved for documented for disposal) may be stored in one of two stockpile areas located within the landfill facility fence. Material will be placed in the landfill cell as soon as practical following procedures listed in Section 2.1.

## 2.9 General Training and Safety Plan for Site Operators

*(R315-302-2(2)(o))*

All landfill operators will be trained in accordance with the General Training and Safety Plan presented in Appendix E.

## 2.10 Recycling Programs

*(R315-303-4(6))*

Because household solid waste is not accepted at the landfill, no recycling program is planned for the landfill.

# Attachment #3

## Log Forms







# Attachment #4

## Closure And Post-Closure Plan

## **STOCKTON CLASS IIIB LANDFILL CLOSURE AND POST-CLOSURE PLANS**

### **1.0 SCOPE OF CLOSURE PLAN**

This Closure Plan is intended to comply with R315-302-3. The landfill is required to be closed in a way to minimize the need for further maintenance and to minimize future risk to human health or the environment. The closure is also intended to prepare the landfill for the post closure period.

### **2.0 CLOSURE PROCEDURE**

#### **2.1 Closure Schedule**

The landfill owner (owner) shall notify the Executive Secretary of the intent to implement closure plan when the landfill waste is within 6 inches of reaching the design capacity elevation.

Within 30 days of attaining the final elevation, final closure will commence, and will be completed within 180 days.

No more than 60 days after closure, the owner shall submit plats and a statement of fact concerning the location of the disposal site to the county recorder, and shall submit proof of record of title filing to the Executive Secretary.

#### **2.2 Final Cover Design**

The final cover design shall consist of 18 inches of clean soil (set aside from the original excavation of the cell), overlain by 6 inches of topsoil. The surface of the cover shall be graded smooth, with a designed slope between 2% and 3% (following the natural contours of the native ground). The sides of the cell berms shall have a slope of 3 horizontal:1 vertical. The surface of the cover shall be seeded with native vegetation (using a suggested seed mixture for that area of Tooele County) at the rate of 20 lbs PLS/acre.

##### **2.2.2 Run-On Run-Off Control**

The constructed berm around the waste cell will prohibit surface water run-on into the cell. Within the cell, waste will be graded as it is received in order to promote evaporation and inhibit ponding as much as possible.

Run-off from the outside of the berms shall be diverted away from the landfill cell and routed via drainage swales into the ditch surrounding the wastewater treatment lagoon site.

### 2.2.3 Erosion Control

The surface of the cover shall be graded to promote drainage while minimizing erosion potential. Erosion shall be controlled by grading the top slopes to between 2% and 3% and side slopes to a maximum 3:1. The final surface shall be seeded with native vegetation to help prohibit wind or water erosion. The final surface shall be seeded with native vegetation to help prohibit wind or water erosion. The following seed will be planted at the rate of 20 lbs/acre:

- Crested wheatgrass (40%)
- Smooth brome (50 %)
- Russian wildrye (5 %)
- Yellow clover (5%).

## 3.0 POST CLOSURE CARE

Post-closure care, including inspections and necessary maintenance shall be on going for a period of 30 years, or as long as Executive Secretary determines is necessary for the facility to become stabilized and protect human health and the environment.

There is no planned future use of the property after closure. The facility is located adjacent to the wastewater treatment system lagoons for the Town of Stockton. The facility shall remain fenced and locked after closure.

### 3.1 Post-Closure Inspections

During the post-closure period, the closed landfill facility will be inspected bi-annually to assess the stability of the closure features (slope stability, vegetation growth, etc.). The inspector is required to fill out an inspection form after each inspection. A copy of the inspection form is attached.

### 3.2 Post Closure Maintenance

Maintenance will be performed as necessary to correct for erosion, or other issues which are seen as a potential risk to human health or the environment. Anticipated maintenance will likely include minor grading to repair erosion rills, and reseeded small areas.

## 4.0 PROJECTED CLOSURE/POST-CLOSURE COSTS

The estimated closure and post-closure costs are presented in the following table.

**Table 1**  
Estimated Closure and Post-Closure Costs

<b>Closure</b>				
<b>Task</b>	<b>Quantity</b>	<b>Units</b>	<b>Unit Cost</b>	<b>Task Cost</b>
Place and grade 18 inch cover soil	1,500	CY	\$5	\$7,500
Place and grade 6 inch topsoil	500	CY	\$5	\$2,500
Vegetation seeding	0.8	Acre	\$1000	\$800
Closure Cost				<b>\$10,800</b>
<b>Post-Closure (30 yr)</b>				
<b>Task</b>	<b>Quantity</b>	<b>Units</b>	<b>Unit Cost</b>	<b>Task Cost</b>
Inspection (per event)	8	Hr	\$40	\$320
Post-Closure Inspection Cost (2 inspections/year x 30 years)				<b>\$19,200</b>
Maintenance Contingency	1	LS	\$10,000	<b>\$10,000</b>
<b>Total Estimated Closure and Post-Closure Costs</b>				<b>\$40,000</b>

## 5.0 FINANCIAL ASSURANCE

It is proposed to use the mechanism of a Trust Fund, consisting of a Public Treasurer's Investment Fund (PTIF) account with the Utah State Treasurer's Office. The financial assurance shall be updated yearly as part of the required annual report for the facility.



# Attachment #5

## Fugitive Dust Control Plan



**SECTION 44 11 23**

**FUGITIVE DUST CONTROL**

**PART I - GENERAL**

**1.01 DESCRIPTION**

This work consists of various ambient air monitoring (to be performed by the Engineer) and fugitive dust control activities (to be performed by the Contractor) which are to be performed during the remedial action. The general purpose of these activities is to minimize air emissions associated with the remedial action, minimize public exposure to those emissions, and document mitigation measures used under various weather conditions.

**1.02 GENERAL REQUIREMENTS**

Control fugitive dust at the Site both during periods of work activity and during non-working hours. Fugitive dust emanating from the Site shall not exceed the following general requirements:

- A. A visual opacity measurement of 20%.
- B. A work space PM<sub>10</sub> concentration of 450 µg/m<sup>3</sup>, 8-hour Mini-RAM average during any shift immediately downwind of the workspace.
- C. A downwind property boundary PM<sub>10</sub> concentration of 150 µg/m<sup>3</sup>, 8-hour Mini-RAM average during any shift, a maximum distance of 200 feet downwind of the place of work.

Opacity is determined visually and recorded hourly during construction activities and routinely during non-working hours by the Engineer. The individual performing these measurements shall be trained and certified in the measurement of opacity by the State of Utah. Short-term work space PM<sub>10</sub> measurements will be made by the Engineer immediately downwind of the excavation area using a Mini-RAM portable particulate monitor. Property line Mini-RAM monitoring will be performed by the Engineer at the prevailing up-wind and down-wind property boundaries with a Mini-RAM portable particulate monitor.

Adjust the fugitive dust mitigation activities to ensure compliance with the above requirements.

Ambient PM<sub>10</sub> concentrations will be measured during construction by the Engineer using EPA reference methods.

The Contractor is responsible for providing all water necessary for fugitive dust control. No water is available at the Site.

### **1.03 IMPLEMENTATION REQUIREMENTS**

Select appropriate fugitive dust mitigation measures, timely implementation of those measures to ensure compliance with the general requirements, documentation of mitigation measures selected and rationale behind that selection, documentation of monitoring measures actually used and the dates during which methods were used.

Provide equipment on Site at all times, in operating order, to effectively implement fugitive dust mitigation measures as described in the Fugitive Dust Control Plan.

In the event that fugitive dust emissions exceed the established action level, implement additional dust mitigation actions immediately. Submit a Fugitive Dust Control Plan that specifies the mitigation methods to be used and the sequence of events resulting in the implementation of those methods.

### **1.04 SPECIFIC EMISSION LIMITATIONS**

In the event that ambient opacity upwind of the Sites and any off-site load-out areas is greater than 20% opacity, any air contaminated by dust leaving the work area limits shall not be greater than the ambient opacity. If opacity is not brought into compliance within two hours of opacity violation notice using other mitigation methods, reduce construction activities except those associated with dust control. If opacity is not brought into compliance within four hours of opacity violation notice using other mitigation methods and reduced activities, temporarily cease construction activities except those associated with dust control until the exceedance of the opacity standard has ended.

In the event that an air pollution alert is declared by the State of Utah for the Tooele County area, employ additional mitigation measures until the alert is terminated. In the event that an air pollution warning is declared by the State of Utah for the Tooele County area, employ additional mitigation measures or reduce construction activities except those associated with dust control until the warning is terminated. In the event that an air pollution emergency is declared by the State of Utah for the Tooele County area, temporarily cease construction activities except those associated with dust control until the emergency is terminated.

### **1.05 DOCUMENTATION REQUIREMENTS**

Generate a Fugitive Dust Control Plan in accordance with UAC R307-309, which will specify the mitigation measures to be used, how the use of those measures will be integrated with the short-term work area action level specified and the ambient air monitoring performed by others, and under what criteria specific measures will be terminated.

Maintain an active on-site log of the mitigation measures used at all times and the time that use of a specific measure is begun and terminated. That log shall include specific notes concerning the location and intensity (including equipment use) of removal activities and general observations of wind direction, wind speed and precipitation. That log shall also note the time of occurrence of any high wind alarms or State of Utah alert, warning or emergency, and the actions taken to mitigate fugitive dust emissions during those conditions.

### **1.06 FUGITIVE DUST CONTROL MEASURES**

In general terms, it is anticipated that fugitive dust controls shall consist of one or more of the following:

- A. Limiting the excavation working face.
- B. Application of a fine spray of water or mixture of water and surfactant to maintain a moist surface on active working faces of excavation and material load out areas during all excavation, transportation, embankment or temporary storage.
- C. Watering and misting of the haul roads.
- D. Covering of inactive spoils piles.
- E. Regular application of dust palliative(s) to open and disturbed areas subject to limited disturbance.
- F. Enclosure and dust collection of fugitive dust at transfer points.
- G. Possible use of wind-breaks upwind of some work areas.
- H. Reduction in or cessation of on-site excavation and transportation activities.

Implement controls as required based on the ambient air quality criteria delineated in this document. The extent of controls and the mix of measures used is to be determined by the Contractor, but shall be effective in reducing fugitive emissions, and shall be implemented in a timely and effective manner.

### **1.07 SUBMITTALS**

Submit to the Engineer for review and approval at the Pre-construction conference:

- A. Fugitive Dust Control Plan which will detail the emission control methods to be used, the general conditions under which the controls will be used, the rationale for selection of controls to be used under the various conditions and documentation to be generated of emission controls used.

### **PART II - PRODUCTS**

See Section 02115, Dust Palliative, for acceptable surfactants.

### **PART III - EXECUTION**

#### **3.01 REPORTING OF FUGITIVE DUST CONTROLS ACTIVITY**

Report to the State of Utah or its designated representative any changes in on-site emission control activity which may be necessary to minimize fugitive dust as required by this specification. Verbally report any such changes within 1 hour of their implementation. Submit a written summary of any changes implemented and the reason for implementation within 48 hours of that implementation.

**END OF SECTION**