WASATCH CIVIL
Consulting Engineering

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UTAH DIVISION OF
SOLID & HAZARDOUS WASTE
2011.01521

June 28, 2011

Mr. Scott Anderson, Director
Division of Solid and Hazardous Waste
Utah Department of Environmental Quality
P.O. Box 144880
Salt Lake City, UT 84114-4880

RE: Advanced Paving and Construction Landfill Permit Renewal Application

Dear Mr. Anderson;

At the direction of Advanced Paving and Construction we have prepared an application for permit renewal to operate a Class IVb landfill. The following documents are attached:

- Two (2) copies of the ADVANCED PAVING AND CONSTRUCTION APPLICATION FOR PERMIT RENEWAL TO OPERATE A CLASS IVB LANDFILL (June 2011)
- A check in the amount of $100.00 for the permit renewal application fee.

The signed application and completed checklist is provided in Part 1 of the bound document. If you have any questions, please feel free to call.

Sincerely,

Wasatch Civil Consulting Engineering, Inc.

John Bjerregaard

John Bjerregaard, P.E.
Project Engineer

cc Wilbert van der Stappen, Advanced Paving and Construction Inc.

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SOLID & HAZARDOUS WASTE
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ADVANCED PAVING AND CONSTRUCTION

APPLICATION FOR PERMIT RENEWAL TO OPERATE A CLASS IVB LANDFILL

WASATCH CIVIL
Consulting Engineering
5320 South 1950 West, Suite 1
Roy City, UT 84067

ADVANCED PAVING
AND CONSTRUCTION

APPLICATION FOR PERMIT RENEWAL
TO OPERATE A CLASS IVB LANDFILL
June 2011

Wasatch Civil Consulting Engineering
5320 South 1950 West
Roy City, Utah 84067
(801) 775-9191

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Utah Division of Solid and Hazardous Waste
Solid Waste Management Program

Mailing Address
P.O. Box 144880
Salt Lake City, Utah 84114-4880

Office Location
195 North 1950 West
Salt Lake City, Utah 84116

Phone (801) 536-0200
Fax (801) 536-0222
www.deq.utah.gov

APPLICATION FOR A PERMIT TO OPERATE A CLASS IV OR VI LANDFILL

Please read the instructions that are found in the document, INSTRUCTIONS FOR APPLICATION FOR A PERMIT TO OPERATE A CLASS IV or VI LANDFILL. This application form shall be used for all Class IV or VI solid waste disposal facility permits and modifications. Part I, GENERAL INFORMATION, must accompany a permit application. Part II, APPLICATION CHECKLIST, is provided to assist applicants and, if included with the application, will assist review. **Please note** the version date of this form found on the lower right of the page; if you have received this form more than six months after this date it is recommended you contact our office at (801) 536-0200 to determine if this form is still current. When completed, please return this form and support documents, forms, drawings, and maps to:

Scott T. Anderson, Director
Division of Solid and Hazardous Waste
Utah Department of Environmental Quality
PO Box 144880
Salt Lake City, Utah 84114-4880

(Note: When the application is determined to be complete, submittal of two copies of the complete application will be required.)

Utah Class IV and VI Landfill Permit Application Form

Part I General Information APPLICANT: PLEASE COMPLETE ALL SECTIONS.

I. Landfill Type	☐ Class IVa ☒ Class IVb ☐ Class VI	**II. Application Type**	☐ New Application ☒ Renewal Application ☐ Facility Expansion ☐ Modification

For Renewal Applications, Facility Expansion Applications and Modifications Enter Current Permit Number 9810R1

III. Facility Name and Location

Legal Name of Facility
Advanced Paving and Construction, Inc.

Site Address (street or directions to site)				County
Approx. 1650 West 1650 South				Weber
City Odgen			Zip Code 84401	Telephone 801-731-7882
Township 6 N	Range 2 W	Section(s) 24	Quarter/Quarter Section SW4	Quarter Section
Main Gate Latitude degrees 41	minutes 14	seconds 24	Longitude degrees 112	minutes 1 seconds 9

IV. Facility Owner(s) Information

Legal Name of Facility Owner
Weber Properties L.L.C.

Address (mailing)
P.O. Box 12847

City	State	Zip Code	Telephone
Ogden	UT	84412	801-731-7882

V. Facility Operator(s) Information

Legal Name of Facility Operator
Advanced Paving and Construction, Inc.

Address (mailing)
P.O. Box 12847

City	State	Zip Code	Telephone
Ogden	UT	84412	801-731-7882

VI. Property Owner(s) Information

Legal Name of Property Owner
Weber Properties L.L.C

Address (mailing)
P.O. Box 12847

City	State	Zip Code	Telephone
Ogden	UT	84412	801-731-7882

VII. Contact Information

Owner Contact	Title
Wilbert van der Stappen	President

Address (mailing)
P.O. Box 12847

City	State	Zip Code	Telephone
Ogden	UT	84412	801-731-7882

Email Address	Alternative Telephone (cell or other)
wil@advancedpaving.net	

Operator Contact	Title

Address (mailing)

City	State	Zip Code	Telephone

Email Address	Alternative Telephone (cell or other)

Property Owner Contact	Title

Address (mailing)

City	State	Zip Code	Telephone

Email Address	Alternative Telephone (cell or other)

Utah Class IV and VI Landfill Permit Application Form

Part I General Information (Continued)

VIII. Waste Types (check all that apply)

☐ Landfill will accept all wastes allowed in Class IV or VI landfills **Or** landfill will accept only the following wastes

Waste Type	Combined Disposal Unit	Monofill Unit
☒ Construction & Demolition	☒	☐
☐ Tires	☐	☐
☐ Yard Waste	☐	☐
☐ Animals	☐	☐
☐ Contaminated Soil	☐	☐
☐ Other _____	☐	☐

Note: Disposal of dead animals must be approved by the Executive Secretary

IX. Facility Area

Facility Area	21	acres
Disposal Area	12	acres
Design Capacity		
Years	20	
Cubic Yards	300,000	
Tons	540,000	

X. Fee and Application Documents

ndicate Documents Attached To This Application

☒ Application Fee: Amount $100.00

☒ Facility Map or Maps ☒ Facility Legal Description ☒ Plan of Operation ☒ Waste Description
☐ Ground Water Report ☒ Closure Design ☒ Cost Estimates ☒ Financial Assurance

Class VI Special Requirements

☐ Documents required by UCA 19-6-108(9) and (10)

I HEREBY CERTIFY THAT THIS INFORMATION AND ALL ATTACHED PAGES ARE CORRECT AND COMPLETE.

Signature of Authorized Owner Representative _____ _____ Name typed or printed	Title	Date
	Address	
Signature of Authorized Land Owner Representative (if applicable) _____ _____ Name typed or printed	Title	Date
	Address	
Signature of Authorized Operator Representative (if applicable) _____ Wilbert van der Stappen Name typed or printed	Title President	Date June 28, 2011
	Address P.O. Box 12847 Ogden, UT 84412	

Utah Class IV and VI Landfill Permit Application Checklist

Important Note: The following checklist is for the permit application and addresses only the requirements of the Division of Solid and Hazardous Waste. Other federal, state, or local agencies may have requirements that the facility must meet. The applicant is responsible to be informed of, and meet, any applicable requirements. Examples of these requirements may include obtaining a conditional use permit, a business license, or a storm water permit. The applicant is reminded that obtaining a permit under the *Solid Waste Permitting and Management Rules* does not exempt the facility from these other requirements.

An application for a permit to construct and operate a landfill is the documentation that the landfill will be located, designed, constructed, and operated to meet the requirements of Rules R315-305 of the *Utah Solid Waste Permitting and Management Rules* and the *Utah Solid and Hazardous Waste Act* (UCA 19-6-101 through 123). The application should be written to be understandable by regulatory agencies, landfill operators, and the general public. The application should also be written so that the landfill operator, after reading it, will be able to operate the landfill according to the requirements with a minimum of additional training.

Copies of the *Solid Waste Permitting and Management Rules*, the *Utah Solid and Hazardous Waste Act*, along with many other useful guidance documents can be obtained by contacting the Division of Solid and Hazardous Waste at 801-536-0200. Most of these documents are available on the Division's web page at www.hazardouswaste.utah.gov. Guidance documents can be found at the solid waste section portion of the web page.

When the application is determined to be complete, the original complete application and one copy of the complete application are required along with an electronic copy.

Part II **Application Checklist**

I. **Facility General Information**	
Description of Item	Location In Document
Ia. General Information - All Facilities	
Completed Part I General information form above	Before Pg. 1
General description of the facility (R315-310-3(1)(b))	Pg. 1 - 4
Legal description of property (R315-310-3(1)(c))	Pg. 4
Proof of ownership, lease agreement, or other mechanism (R315-310-3(1)(c))	Pg. 5
If the permit application is for a Class IV landfill, a demonstration that the landfill is not a commercial facility	Pg. 5
Waste type and anticipated daily volume (R315-310-3(1)(d))	Pg. 6
Intended schedule of construction (R315-302-2(2)(a))	N/A
Ib. General Information - New Or Laterally Expanding Facilities	
Documentation that the Historical Survey requirements of R315-302-1(2)(f) have been met (R315-305-4(1)(b)(vi))	N/A
Name and address of all property owners within 1000 feet of the facility boundary (R315-310-3(2)(i))	N/A
Documentation that a notice of intent to apply for a permit has been sent to all property owners listed above (R315-310-3(2)(ii))	N/A

I. **Facility General Information**	
Description of Item	Location In Document
Name of the local government with jurisdiction over the facility site (R315-310-3(2)(iii))	Pg. 2
Ic. Location Standards - New Or Laterally Expanding Class IVa Landfills (R315-305-4(1)(a))	
Land use compatibility	N/A
Maps showing the existing land use, topography, residences, parks, monuments, recreation areas or wilderness areas within 1000 feet of the site boundary	N/A
Certifications that no ecologically or scientifically significant areas or endangered species are present in site area	N/A
Maps showing the location of dwellings, residential areas, other structures, and historic structures.	N/A
List of airports within five miles of facility and distance to each	N/A
Geology	N/A
Geologic maps showing significant geologic features, faults, and unstable areas	N/A
Maps showing site soils	N/A
Surface water	N/A
Magnitude of 24 hour 25 year and 100 year storm events	N/A
Average annual rainfall	N/A
Maximum elevation of flood waters proximate to the facility	N/A
Maximum elevation of flood water from 100 year flood for waters proximate to the facility	N/A
Wetlands	N/A
Ground water	N/A
Id. Location Standards - New Or Laterally Expanding Class IVb and VI Landfills	
Floodplains as specified in R315-302-1(2)(c)(ii) (R315-305-4(1)(b)(i))	N/A
Wetlands as specified in R315-302-1(2)(d) (R315-305-4(1)(b)(ii))	N/A
The landfill is located so that the lowest level of waste is at least ten feet above the historical high level of ground water (R315-305-4(1)(b)(iii))	N/A
Geology as specified in R315-302-1(2)(b)(i) and (iv) (R315-305-4(1)(b)(iv))	N/A
Ie. Additional Location Standards - New Or Laterally Expanding Class IVb and VI Landfills Or Landfills Requesting That Dead Animals Be Added As A New Waste Stream (R315-305-4(1)(a)(v))	
Maps showing the existing land use, topography, residences, parks, monuments, recreation areas or wilderness areas within 1000 feet of the site boundary	N/A

***I.* Facility General Information**	
Description of Item	Location In Document
Certifications that no ecologically or scientifically significant areas or endangered species are present in site area	N/A
Maps showing the location of dwellings, residential areas, other structures, and historic structures.	N/A
List of airports within five miles of facility and distance to each	N/A
If. Plan Of Operations - All Facilities (R315-310-3(1)(e) and R315-302-2(2))	
Description of on-site waste handling procedures and an example of the form that will be used to record the weights or volumes of waste received (R315-302-2(2)(b) And R315-310-3(1)(f))	Pg. 6 Appendix C
Schedule for conducting inspections and monitoring, and examples of the forms that will be used to record the results of the inspections and monitoring (R315-302-2(2)(c), R315-302-2(5)(a), and R315-310-3(1)(g))	Pg. 7
Contingency plans in the event of a fire or explosion (R315-302-2(2)(d))	Pg.7
Plan to control fugitive dust generated from roads, construction, general operations, and covering the waste (R315-302-2(2)(g))	Pg. 8
Plan for litter control and collection (R315-302-2(2)(h))	Pg. 8
Procedures for excluding the receipt of prohibited hazardous or PCB containing waste (R315-302-2(2)(j))	Pg. 9
Procedures for controlling disease vectors (R315-302-2(2)(k))	Pg. 9
A plan for alternative waste handling (R315-302-2(2)(l))	Pg. 9
A general training plan for site operations (R315-302-2(2)(o))	Pg. 10
Any recycling programs planned at the facility (R315-303-4(6))	Pg. 10
Any other site specific information pertaining to the plan of operation required by the Executive Secretary (R315-302-2(2)(p))	N/A
Ig. Additional Plan Of Operation Requirements - Class IVa Facilities	
Corrective action programs to be initiated if ground water is contaminated (R315-302-2(2)(e))	N/A
***II* Facility Technical Information**	
IIa. Maps - All Facilities	
Topographic map drawn to the required scale with contours showing the boundaries of the landfill unit, ground water monitoring well locations, gas monitoring points, and the borrow and fill areas (R315-310-4(2)(a)(i))	Appendix A
Most recent U.S. Geological Survey topographic map, 7-1/2 minute series, showing the waste facility boundary; the property boundary; surface drainage channels; any existing utilities and structures within one-fourth mile of the site; and the direction of the prevailing winds (R315-310-4(2)(a)(ii))	Appendix A

***I.* Facility General Information**	
Description of Item	Location In Document
IIb. Geohydrological Assessment - Class IVa Landfills (R315-310-4(2)(b))	
Local and regional geology and hydrology including faults, unstable slopes and subsidence areas on site (R315-310-4(2)(b)(i))	N/A
Evaluation of bedrock and soil types and properties including permeability rates (R315-310-4(2)(b)(ii))	N/A
Depth to ground water (R315-310-4(2)(b)(iii))	N/A
Quantity, location, and construction of any private or public wells on-site or within 2,000 feet of the facility boundary (R315-310-4(2)(b)(v))	N/A
Tabulation of all water rights for ground water and surface water on-site and within 2,000 feet of the facility boundary (R315-310-4(2)(b)(vi))	N/A
Identification and description of all surface waters on-site and within one mile of the facility boundary (R315-310-4(2)(b)(vii))	N/A
For an existing facility, identification of impacts upon the ground water and surface water from leachate discharges (R315-310-4(2)(b)(viii))	N/A
Calculation of site water balance (R315-310-4(2)(b)(ix))	N/A
IIc. Engineering Report, Plans, Specifications, And Calculations - All Facilities	
Unit design to include cover design; fill methods; and elevation of final cover including plans and drawings signed and sealed by a professional engineer registered in the State of Utah, when required (R315-310-3(1)(b) and R315-310-4(2)(c)(iii))	Pg. 11
Design and location of run-on and run-off control systems (R315-310-4(2)(c)(viii))	Pg. 11
Anticipated facility life and the basis for calculating the facility's life (R315-310-4(2)(c)(ii))	Pg. 12
Engineering reports required to meet the location standards of R315-305-4 including documentation of any demonstration or exemption made for any location standard (R315-310-4(2)(c)(i))	N/A
Identification of borrow sources for final cover (R315-310-4(2)(c)(iv))	Pg. 13
Run-off collection, treatment, and disposal and documentation to show that any treatment system is being or has been reviewed by the Division of Water Quality (R315-310-4(2)(c)(v) and R315-310-3(1)(i))	N/A
IId. Closure Requirements - All Facilities	
CLOSURE PLAN (R315-310-3(1)(h))	Pg. 13 Appendix A
Closure schedule (R315-310-4(2)(d)(i))	Pg. 12
Design of final cover (R315-310-4(2)(c)(iii))	Pg. 13

***I.* Facility General Information**	
Description of Item	Location In Document
Capacity of site in volume and tonnage (R315-310-4(2)(d)(ii))	Pg. 13
Final inspection by regulatory agencies (R315-310-4(2)(d)(iii))	Pg. 13
IIe. Post-Closure Requirements- All Facilities	
POST-CLOSURE CARE PLAN (R315-310-3(1)(h))	Pg. 14
Changes to record of title, land use, and zoning restrictions (R315-310-4(2)(e)(v))	Pg. 14
Maintenance activities to maintain cover and run-on/run-off control systems (R315-310-4(2)(e)(iii))	Pg. 14
List the name, address, and telephone number of the person or office to contact about the facility during the post-closure care period (R315-310-4(2)(e)(vi))	Pg. 14
IIf. Financial Assurance - All Facilities (R315-310-3(1)(j))	
Identification of closure costs including cost calculations (R315-310-4(2)(d)(iv))	Pg. 15
Identification of post-closure care costs including cost calculations (R315-310-4(2)(e)(iv))	Pg. 15
Identification of the financial assurance mechanism that meets the requirements of Rule R315-309 and the date that the mechanism will become effective (R315-309-1(1) and R315-310-3(1)(j))	Pg. 16

PART I - GENERAL DATA

This report (which includes the permit application, general data, general report, technical report, and appendices) is intended to meet the permit renewal requirements for a Class IVb Landfill operated by Advanced Paving and Construction in Marriott-Slaterville, Weber County, Utah. This report is submitted to:

Scott T. Anderson, Director
Division of Solid and Hazardous Waste
Utah Department of Environmental Quality
P.O. Box 144880
Salt Lake City, UT 84114-4880

GENERAL DATA

NAME OF FACILITY:	Advanced Paving and Construction Landfill
SITE LOCATION:	SW 1/4 , section 24, T6N, R2W
FACILITY OWNER:	Weber Properties, L.L.C.
PROPERTY OWNER:	Weber Properties, L.L.C.
FACILITY OPERATOR:	Advanced Paving and Construction
CONTACT PERSON:	Wilbert van der Stappen
Address:	1723 West 1350 South Ogden, UT 84401
Telephone	(801) 731-7882

TYPE OF FACILITY:

XX Non-Commercial	____ Initial Application
_____ Commercial	XX Permit Renewal
	Original Permit Number 9810

PROPERTY OWNERSHIP:

_____ Presently owned by applicant
_____ To be purchased by applicant
XX To be leased by applicant

Property owner:

Name:	Weber Properties, L.L.C.
Address:	P.O. Box 12847
	Ogden, UT 84412
Telephone:	(801) 731-7882

Local Government Authority:

Name:	Marriott Slaterville City
Address:	1570 West 400 North,
	Ogden, UT 84404-3698
Telephone:	(801) 627-1919

CERTIFICATION OF SUBMITTED INFORMATION

Official: Wilbert van der Stappen
Title: President, Advanced Paving and Construction

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violation.

Signature: _____ Date: June 28, 2011

SUBSCRIBED AND SWORN to before this 28th day of June, 2011.

My commission expires on the 29th day of May, 2013.

_____
Notary Public in and for

Weber County, Utah

(SEAL)

HEATHER SIMMONS
NOTARY PUBLIC • STATE of UTAH
COMMISSION NO. 578942
COMM. EXP. 05-29-2013

PART II - GENERAL REPORT

1.0 INTRODUCTION

1.1 GENERAL DESCRIPTION OF FACILITY (R315-310- 3(1)(b))

The landfill facility is designed to accommodate construction/demolition waste, yard waste, and inert waste generated during operation of Advanced Paving and Construction's construction projects. The facility is used for both storage of recyclable materials and disposal of non-recyclable materials. The disposal site is divided into areas for stockpiling of recyclable materials, disposal of clean fill materials, and disposal of non-recyclable materials. See the attached maps and facility plans in Appendix A for an overview of the facility layout.

An area along the north side of the disposal area has been designated as a stockpile area for recyclable materials. Stockpiles have been established to allow the re-use of topsoil and asphalt paving material. The asphalt material is stored until needed and then crushed for use on construction projects.

Concrete and other clean fill (soil and rock) are used to fill the depression located near the center of the disposal area. This depression, which is currently partially filled with water, is a man-made feature that was created by past gravel mining operations on the site. As this area is filled and leveled, the stockpile area will be expanded southward.

An area near the northwest corner of the disposal area is designated for disposal of non-recyclable material. This area receives waste that is not appropriate for re-use as roadway construction materials. Such materials may include but are not limited to: asphalt mixed with concrete, trees, signs, fencing material, etc.. This area is graded and covered with soil on an as-needed basis. Soil for cover material is obtained from stockpiles.

1.2 LEGAL DESCRIPTION OF THE FACILITY (R315-310- 3(1)(c))

Property Serial Number: 15-064-0041
Size: 21.25 acres

Legal Description dated 5/26/98:

Part of the southwest quarter of Section 24, Township 6 North, Range 2 West, Salt Lake Base and Meridian, U.S. Survey: beginning at a point 17.61 chains north and 231.84 feet west from the southeast corner of said quarter section, running thence north 326.5 feet; thence North 32d30' West 513.51 feet; thence West 509.25 feet, thence South 26d30' West 33 feet, more or less, thence North 88d22' 38" West 701.53 feet; thence South 11d03' 39" East 659.08 feet, more or less, thence South 75d39'39" East 216.64 feet; thence South 71d09'39" East 80.40 feet; thence South 85d41'39" East 110.9 feet; thence North 89d34' 21" East 131.75 feet; thence east to the point of beginning. Together with right-of-way (1427-483)

1.3 LAND USE AGREEMENT (R315-310- 3(1)(c))

The landfill property is owned by Weber Properties, L.L.C.. Advanced Paving and Construction has been granted use of the property for a landfill by an agreement with Weber Properties, L.L.C.. Under the terms of this agreement, Advanced Paving and Construction has sole responsibility for the maintenance and operation of this facility. A copy of the agreement between Advanced Paving and Construction and Weber Properties, L.L.C. is included in Appendix B.

1.4 DEMONSTRATION THAT THE LANDFILL IS NOT A COMMERCIAL FACILITY

Advanced Paving and Construction uses this facility for its own use and does not intend to run this facility as a commercial landfill. Access to the facility is controlled through two (2) locked gates. These gates are only open when Advanced Paving and Construction employees are present and access to the landfill area is required. Entry is further controlled by visual inspection, as vehicles must pass in front of the Advanced Paving and Construction office building to access the landfill area.

1.5 WASTE TYPE AND VOLUME (R315-310- 3(1)(d))

Waste stored and disposed of at this facility is construction/demolition waste, yard waste, and inert waste generated during the course of business for Advanced Paving and Construction. Accepted waste materials comply with R315-301-2(7) and may include, but are not limited to, soil, concrete, asphalt, fencing, building demolition, and metal (i.e.: rebar, steel beams, general building debris). The amount of waste delivered to the landfill in the year 2010 was 6,300 cubic yards which is equivalent to approximately 11,300 tons of waste material. It is anticipated that the amount of waste delivered to the site will increase in the future. Nearly all of the waste disposed in this landfill is generated from construction projects located within a 30-mile radius of the landfill site.

1.6 LOCATION STANDARDS (R315-310- 4(1))

This landfill is an existing facility and is not subject to the location standards given in R315-305-4 and R315-302-1.

2.0 PLAN OF OPERATION

2.1 SCHEDULE OF CONSTRUCTION (R315-302- 2(2)(a))

The landfill is an existing facility and all basic components of the facility have been constructed.

2.2 DESCRIPTION OF ON-SITE WASTE HANDLING PROCEDURES (R315-302- 2(2)(b) and R315-310- 3(1)(f))

This facility is open only to Advanced Paving and Construction employees and on-site waste handling is controlled through employee meetings. All employees are informed about which waste materials are acceptable for disposal and areas of the landfill are to receive specific types of waste material. Additionally, management personnel visit the landfill area on a regular basis to observe that proper storage and disposal procedures are being followed.

The volume of materials delivered to the landfill is tracked by means of a daily load count. A copy of the daily load count form is provided in Appendix C. Daily load count records are maintained for inspection at the office of Advanced Paving and Construction.

2.3 SCHEDULE OF INSPECTIONS AND MONITORING (R315-302-2(2)(c) and R315-310-3(1)(g))

Inspections of the landfill facility are conducted not less than quarterly. The form used for recording observations made during inspection is provided in Appendix C. In addition to the quarterly inspections, management personnel regularly observe the facility to ensure that proper procedures are being followed. Any deviations from proper procedures are immediately corrected.

2.4 CONTINGENCY PLANS IN THE EVENT OF FIRE OR EXPLOSION (R315-302-2(2)(d))

Risk of a fire or explosion at this landfill is minimized by not allowing decomposable waste such as household, restaurant, food processing, and commercial waste. Advanced Paving and Construction employees are prepared to provide immediate fire suppression in the event of a waste fire. Fire suppression will be accomplished by means of earth moving equipment when possible. If necessary, water may also be used to extinguish fires. The on-site pond is equipped with a portable 6-inch diameter pump that may be used to provide water for fire suppression. In the event of an uncontrolled fire or a fire that cannot be managed by on-site personnel, the Weber County Fire Department will be contacted. The Fire Department is located approximately 4 miles from the facility; estimated response time is 10 minutes. On arrival at the facility, Fire Department personnel will assume responsibility for fire abatement activities.

2.5 CORRECTIVE ACTION PROGRAMS FOR GROUND WATER CONTAMINATION (R315-302-2(2)(e))

The possibility of ground water contamination is minimal because disposal of hazardous materials is not permitted at this facility. In the unlikely event that ground water does become contaminated, Advanced Paving and Construction will retain a qualified professional to define the extent of the problem, develop a plan for corrective action, and implement the plan. The Utah Division of Solid and Hazardous Waste will be notified if ground water contamination is observed or suspected.

2.6 CONTINGENCY PLANS FOR OTHER RELEASES (R315-302- 2(2)(f))

The possibility of releasing explosive gases from the landfill is minimal because disposal of decomposable waste is not permitted at this facility, and the materials that are accepted have very low potential for generating explosive gases. Failure of the runoff containment system is not a significant possibility because the site is graded to direct runoff towards the low point at the center of the facility. The low point of the facility is much lower than the surrounding area and this low area creates a storage volume that is many times the potential runoff volume for the facility.

Waste materials that are likely to be transported by the wind will be covered the day they are delivered to the site. The site will be frequently monitored for litter, and any litter that is observed will be collected and covered.

2.7 PLAN TO CONTROL FUGITIVE DUST AND COVERING OF WASTE (R315-302-2(2)(F))

Travel on the access road to the waste disposal site has the highest potential for generating fugitive dust. To minimize dust, the road has been covered with roto-milled asphalt (1" minus asphalt, recycled from existing roadways). Roto-milled asphalt material covers the roadway and eliminates problems associated with dust. The roadway surface has also been covered with a chip and seal coat to further protect the road surface. Within the landfill area, water trucks are used to prevent dust problems by wetting the ground surface.

Waste piles are regularly pushed off with a bulldozer and covered with soil. As excavated soil is the most common type of material disposed of within this facility, material for covering the waste is readily available. Additionally, topsoil is being stockpiled which may be used in the future to cover the site for final closure. If necessary, dust control as waste piles are pushed off is accomplished using a water truck.

2.8 DESCRIPTION OF MAINTENANCE OF INSTALLED EQUIPMENT (R315-302- 2(2)h))

This facility does not contain a leachate collection system, gas collection system, groundwater monitoring equipment, or any other installed equipment.

2.9 PROCEDURES FOR EXCLUDING THE RECEIPT OF HAZARDOUS OR PCB WASTE (R315-302- 2(2)(I))

Hazardous materials or materials containing PCB's are excluded from this facility by limiting facility access for waste delivery to only Advanced Paving and Construction employees and allowing only materials from Advanced Paving and Construction's construction sites. Acceptable materials for disposal at the landfill facility are identified at the construction site. If any hazardous or otherwise unacceptable waste materials are identified on a construction site, they are properly disposed at a facility that is permitted to receive this waste. Hazardous waste materials identified on an Advanced Paving and Construction job site must be handled and delivered for disposal by either another contractor or the site owner. Advanced Paving and Construction does not have the certifications necessary to handle and haul hazardous wastes.

2.10 PROCEDURES FOR CONTROLLING DISEASE VECTORS (R315-302- 2(2)(j))

Controlling disease vectors is accomplished by eliminating the habitat attractive to rodents and by eliminating shallow pools of stagnant water that could serve as breeding grounds for insects. Non-recyclable wastes are regularly covered to eliminate potential nesting areas for rodents or other undesirable types of animal life. If areas of stagnant water are observed, these areas are graded to promote drainage. The pond used to contain runoff near the center of the facility is relatively deep and has not caused insect problems in the past.

2.11 PLAN FOR ALTERNATIVE WASTE HANDLING (R315-302- 2(2)(k))

Conditions that would prevent this facility from accepting waste are unlikely because there is no permanent equipment on-site. Equipment necessary for grading, covering, and processing waste material is brought to the site as needed. This equipment could be rented from a number of sources if breakdowns were to occur. If a condition preventing the facility from accepting waste does occur, waste would be taken to another acceptable facility. Weber County C & D Landfill, which is located approximately 11 miles away, is a potential alternate location for waste disposal.

2.12 GENERAL TRAINING AND SAFETY PLAN FOR OPERATIONS (R315-302- 2(2)(n))

Safety and operation of this facility is covered under the Safety Plan of Advanced Paving and Construction. Training for Advanced Paving and Construction employees will also include the contents of this document.

2.13 RECYCLING PROGRAM (R315-302- 2(2)(n))

The facility is used for both storage of recyclable materials and disposal of non-recyclable materials. Recyclable materials delivered to the site include soil and asphalt paving materials. An area along the north side of the disposal area has been designated as a stockpile area for recyclable materials. The asphalt material is stored until needed and then crushed for use as roadway construction material.

PART III TECHNICAL REPORT

3.0 MAPS

See the attached maps in Appendix A.

4.0 ENGINEERING REPORT

4.1 CELL DESIGN AND FILL METHODS (R315-310- 3(1)(b))

This facility is located on property parcel that is just over 21 acres. The waste disposal site occupies approximately 12 acres of the parcel. The disposal site is divided into areas for stockpiling of recyclable materials, disposal of clean fill materials, and disposal of non-recyclable materials. See the attached drawings and facility plans for an overview of the facility layout.

An area along the north side of the disposal area has been designated as a stockpile area for recyclable materials. Stockpiles have been established to allow the re-use of topsoil and asphalt paving material. The asphalt material is stored until needed and then crushed for use on construction projects.

Concrete and other clean fill (soil and rock) are used to fill the depression located near the center of the disposal area. This depression, which is currently partially filled with water, is a man-made feature that was created by past gravel mining operations on the site. As this area is filled and leveled, the stockpile area will be expanded southward.

4.2 DESIGN AND LOCATION OF RUN-ON AND RUN-OFF CONTROL SYSTEMS (R315-310- 5(2)(b))

The landfill is located on a site that was previously mined for gravel. Prior to mining operations, the natural ground surface for most of the site was higher than the surrounding area. Gravel mining operations excavated a large depression near the center of the property. The resulting topography prohibits run-on drainage to the site and directs nearly all of the on-site drainage to the

depression near the center of the facility. With the exception of the undisturbed area along the Weber River at the south and west edges of the property, the drainage for the entire site is directed toward the depression near the center of the landfill site. This depression functions as a storm water retention area. The existing drainage pattern will be maintained by grading as waste materials are placed at the site. Drainage ditches and channels will be created if necessary to maintain the desired drainage pattern.

A potential runoff volume of 1.3 acre-feet for the 25-year, 24-hour storm event was calculated using the National Resource Conservation Service (NRCS) curve number methodology for the area tributary to storm water retention area. Calculations are provided in Appendix D. The existing storm water retention area has storage volume greater than 2 acre-feet. As the existing depression is filled, the landfill area will be graded so a storm water retention volume of at least 1.3 acre-feet is maintained. When the landfill approaches capacity the storm water retention area will be moved to the north and east edges of the disposal site. The required retention volume will decrease to 0.25 acre-feet for the 25-year, 24-hour storm event when the final closure is constructed and vegetation is established on the landfill area.

5.0 CLOSURE PLAN

5.1 CLOSURE SCHEDULE (R315-310- 4(2)(d)(i))

It is anticipated that with proper management and continued recycling of asphalt material, this landfill may be operated in excess of 20 years. The disposal area of the landfill is approximately 12 acres. At a final elevation that is an average of approximately 15 feet above the existing ground surface, this site could receive approximately 300,000 cubic yards of material. At this time the landfill is approximately 25% full, leaving approximately 225,000 cubic yards of available capacity. In the year 2010, the landfill received approximately 6,300 cubic yards or approximately 11,300 tons of waste material. If delivery of waste material to the site continues at this rate, the landfill will require over 35 years to fill. However, it is likely that Advanced Paving and Construction's business will continue to grow and the rate of material coming into the site will increase. If the amount of material brought to the site for disposal increases to an average of 10,000 cubic yards per year or approximately 18,000 tons per year, the landfill will approach its design capacity in approximately 20 years.

5.2 DESIGN OF FINAL CLOSURE (R315-310- 4(2)(c)(iii) and R315-305-5(5))

At final closure, the landfill will be closed as per applicable requirements with the State of Utah, Weber County, and Marriott-Slaterville City. Prior to placing the final cover layer, the site will be graded and leveled to create a smoothly contoured area. The landfill cover will consist of a layer of clean soil at least 2 feet thick over the top of the waste. Excess soil excavated from Advanced Paving and Construction's construction projects is a large portion of the material delivered to this landfill, and the cover material will be obtained from the soil delivered to the landfill. The 2-foot thick layer will include an upper layer of topsoil at least 6 inches thick. Topsoil will be stockpiled on site for future use during closure. The final cover will be seeded with shallow rooted vegetation and a seed mix similar to native grasses. The proposed seed mix is shown on the attached drawing.

Final grading contours and a typical cross section are shown on the attached drawing. The elevation of the final cover is an average of approximately 15 feet above the existing ground surface.

Advanced Paving and Construction is planning to use the landfill area for a future facility after landfill closure. The proposed facility will process roadway construction materials. A conceptual level design for this future facility is shown on the attached drawings.

5.3 CAPACITY OF SITE IN VOLUME AND TONNAGE (R315-310-4(2)(d)(ii))

The waste disposal area for the landfill is approximately 12 acres. At a final elevation averaging a little more than 15 feet above the existing ground elevation, the landfill could accommodate approximately 300,000 cubic yards of material. At an average weight of 1.8 tons per cubic yard, 300,000 cubic yards equates to 540,000 tons. It is estimated that the landfill is currently 25% filled, which leaves 225,000 cubic yards or 405,000 tons of available capacity.

5.4 FINAL INSPECTION BY REGULATORY AGENCIES (R315-310-4(2)(d)(iii))

Final closure of facility will be conducted as per regulation R315-302-3(4)). This will include notification to the Executive Secretary that closure of this facility is intended as well as notification and appropriate documentation that closure has been completed. Notification will also be given to any other agency entity as may be directed (i.e. Weber County Environmental Health Department, Marriott-Slaterville City).

6.0 POST-CLOSURE CARE PLAN (R315-310-3(1)(h))

6.1 SITE MONITORING (R315-310- 4(2)(e))

Groundwater and surface water monitoring and site monitoring for landfill gases are not required for a Class IVb landfill. Site monitoring associated with maintenance of cover material, vegetation, and runoff control facilities are discussed in Section 6.3.

6.2 CHANGES TO RECORD OF TITLE, LAND USE, AND ZONING RESTRICTIONS (R315-310- 4(2)(e)(ii))

Upon closure, "plats and a statement of fact" concerning this facility will be recorded as a part of the record of title with the Weber County Recorder. At the time of closure a determination will be made if changes to the title, land use and zoning are required. If such action is deemed necessary, steps will be taken to assure proper compliance with appropriate regulations.

6.3 MAINTENANCE ACTIVITIES TO MAINTAIN COVER AND RUN-ON/RUN-OFF CONTROL SYSTEMS (R315-310- 4(2)(e)(iii))

Maintenance activities to maintain the cover and runoff control systems will include semi-annual inspections to assess the condition of the landfill cover material, vegetation, and runoff control facilities. Any areas of erosion or significant settlement will be repaired and the area re-seeded. Maintenance of the runoff control facilities may include cleaning out the retention areas to maintain sufficient storage volume. Due to the topography of the site, run-on control facilities are not needed.

6.4 POST CLOSURE CARE – CONTACT PERSON OR OFFICE (R315-310-4(2)(e)(iv))

Any questions or concern during the post-closure care period should be directed to:

Advanced Paving and Construction
1723 West 1350 South
P.O. Box 12847
Ogden, Utah 84412
Telephone (801) 731-7882

7.0 FINANCIAL ASSURANCE

7.1 CLOSURE COSTS (R315-310- 4(2)(d)(iv))

Closure costs for this facility have been estimated to be $ 25,160.00. This cost includes the cost to complete necessary engineering requirements, place topsoil, and seed the landfill area. Closure costs are guaranteed by means of a surety bond.

TABLE 7-1. COST ESTIMATE FOR CLOSURE CONSTRUCTION ADVANCED PAVING AND CONSTRUCTION CLASS IV LANDFILL

Item	Unit	$/Unit	#Units	Cost
1. Topographic Survey	L.S.	$ 2,400.00	1	$ 2,400.00
2. Contract Admin., Bidding/Award	L.S.	$ 1,600.00	1	$ 1,600.00
3. Project Management/CQA	L.S.	$ 1,100.00	1	$ 1,100.00
Engineering Subtotal				$ 5,100.00
4. Topsoil Placement	Cu.Yd.	$ 1.10	6,000	$ 6,600.00
5. Revegetation	Acre	$ 850.00	8	$ 6,800.00
Construction Subtotal				$13,400.00
6. 10% Contingency Fee		10% Total		$1,850.00
7. 1% Performance Bond		1% Total		$ 185.00
8. Legal Fees		25% Total		$4,625.00
Legal and Contingency Subtotal				$6,600.00
TOTAL				**$25,160.00**

7.2 POST-CLOSURE CARE COSTS (R315-310- 4(2)(e)(iv))

Post-closure care for this facility will include a semi-annual inspection of the facility for the duration of the post-closure period (30 years). The semi-annual inspection will be used to identify any areas of defiency, which may need correction. Correction activities may include, but are not limited to, filling significant areas of settlement, fence/gate repair, maintenance of run-on/run-off control facilities.

TABLE 7-2. POST-CLOSURE CARE
ADVANCED PAVING AND CONSTRUCTION CLASS IVB LANDFILL

Item	Unit	$/Unit	#Units	Cost
Semi-Annual Inspection	Hr	$ 31.00	40	$ 1,240.00
Furnish/place Topsoil	Cu.Yd.	$ 11.00	100	$ 1,100.00
TOTAL				**$ 2,340.00**

Post-closure care costs will be included in the surety bonding for closure costs.

7.3 FINANCIAL ASSURANCE (R315-309-1(1))

Advanced Paving and Construction has obtained a Solid Waste Permitting and Management Bond as approved by the Utah Division of Solid and Hazardous Waste. Safeco Insurance Company of America is the underwriter of this bond. A copy of the bond is included in Appendix C.

ADVANCED PAVING AND CONSTRUCTION
CLASS IVB LANDFILL

INSPECTION REPORT

DATE: _____

INSPECTOR: _____

	Satisfactory	Unsatisfactory
· Water Run-on/Run-off:	_____	_____
· Fence Lines/Gates	_____	_____
· Waste Handling	_____	_____

Corrective Action(s) Required:

_____

_____

_____

_____

Date Corrective Action Completed: _____

Comments:

_____

_____

_____

_____

_____

Signature: _____

RIVERSIDE INDUSTRIAL PARK

UNION PACIFIC RIGHT-OF-WAY

EXIST BUILDING

EXIST BUILDING

EXIST BUILDING

EXIST BUILDING

EXIST BUILDING

EXIST BUILDING

EXIST BUILDING

SOUTH STREET

1350

1500 WEST STREET (SR-126)

ADVANCED PAVING & CONSTRUCTION

WEBER RIVER

OTTER CREEK

PREVAILING WIND DIRECTION

WEBER PROPERTIES, LLC
CLASS IVb LANDFILL

(4252)
(4253)
(4254)
(4255)
(4256)
(4258)
(4259)
(4260)
(4262)
(4264)
(4265)
(4266)
(4268)

(4262)
(4260)
(4258)
(4256)
(4255)
(4254)

TOTAL APPROXIMATELY 19 ACRES
TOTAL LAND AREA APPROXIMATELY 17.5 ACRES

WEBER RIVER

LEGEND

- STOCKPILE AREAS FOR RECYCLABLE WASTE
- STOCKPILE AREAS FOR SOIL COVER
- DISPOSAL AREA FOR CLEAN FILL
- DISPOSAL AREA FOR NON-RECYCLABLE WASTE
- STORM WATER RETENTION AREA
- EXISTING ASPHALT
- WEBER RIVER
- 4850 PROPOSED CONTOUR
- (4850) EXISTING CONTOUR
- PROPOSED STORM DRAIN
- EXISTING FENCE
- EASEMENT

NOTE:

BOUNDARIES OF STOCKPILE AREAS AND THE ACTIVE WASTE DISPOSAL AREAS WILL BE ADJUSTED AS NECESSARY TO ACCOMMODATE LANDFILL OPERATIONS.

LOCATION MAP

PROJECT ENGINEER STAMP
LICENSED PROFESSIONAL ENGINEER
NO. 182608
MARK T. MILLER
STATE OF UTAH

WASATCH CIVIL
Consulting Engineering
5320 SOUTH 1950 WEST, SUITE 1
ROY CITY, UTAH 84067 (801) 775-9191

REV.	DATE	APPR.

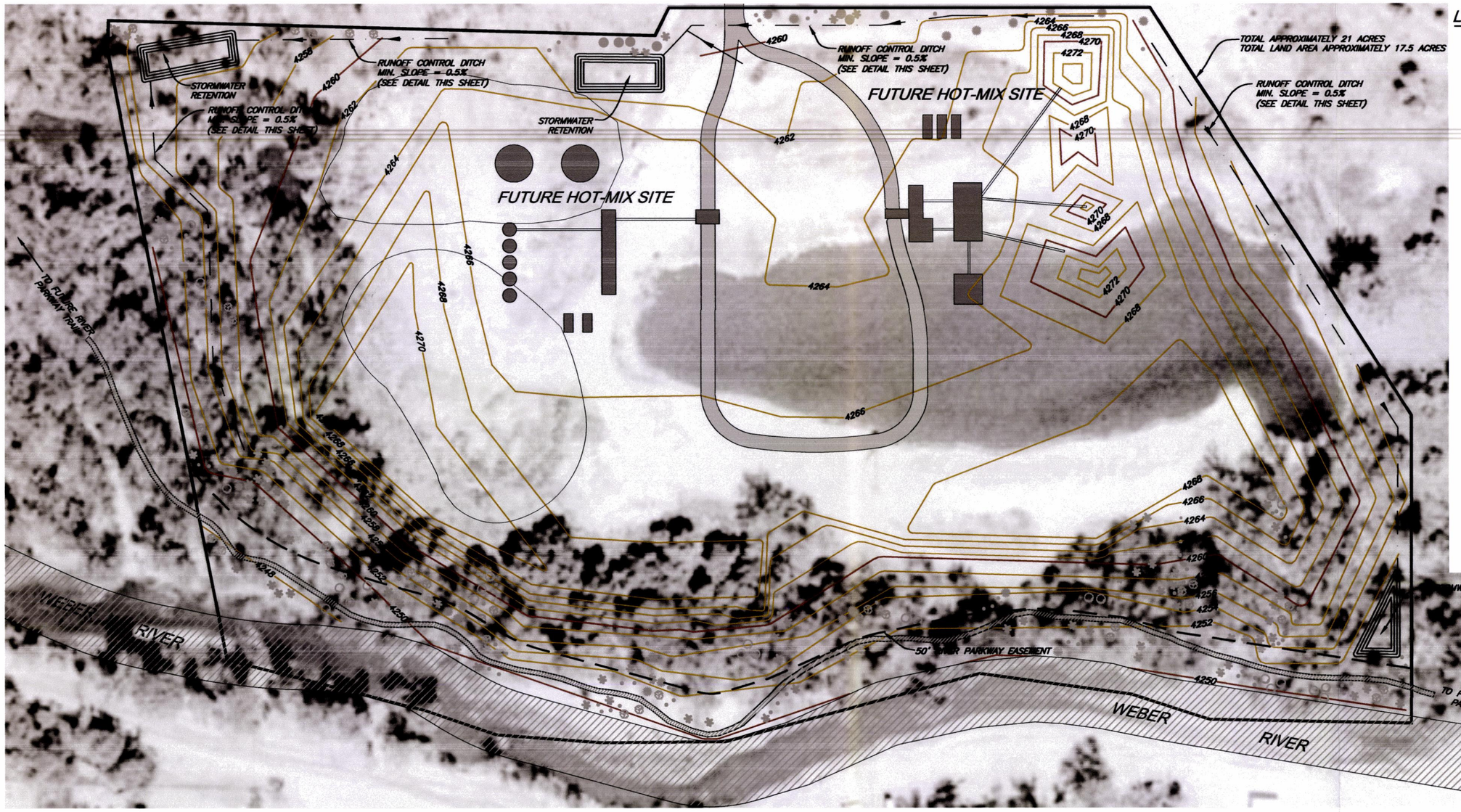
DESIGNED M.M. DATE JUNE. 09, 2011
DRAWN C.A.A SCALE: HORIZ. 1" = 240'
CHECKED J.D.B.

ADVANCED PAVING & CONSTRUCTION

SITE PLAN & LAND USE

SHEET: 1 OF 2 SHEETS

WC-CAD\05-MISC\07-MISC\ACP LANDFILL\DWG\BASE.DWG



LEGEND

- STOCKPILE AREAS FOR RECYCLABLE WASTE
- STOCKPILE AREAS FOR SOIL COVER
- DISPOSAL AREA FOR CLEAN FILL
- DISPOSAL AREA FOR NON-RECYCLABLE WASTE
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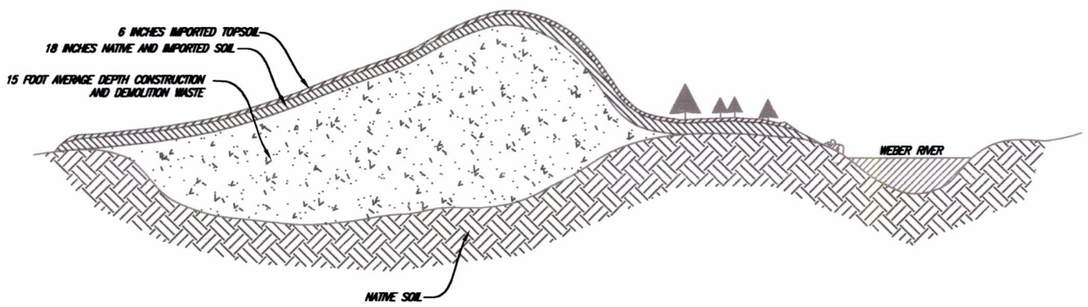
- (4850) EXISTING CONTOUR
- PROPOSED STORM DRAIN
- X EXISTING FENCE
- EASEMENT

NOTE:

BOUNDARIES OF STOCKPILE AREAS AND THE ACTIVE WASTE DISPOSAL AREAS WILL BE ADJUSTED AS NECESSARY TO ACCOMMODATE LANDFILL OPERATIONS.

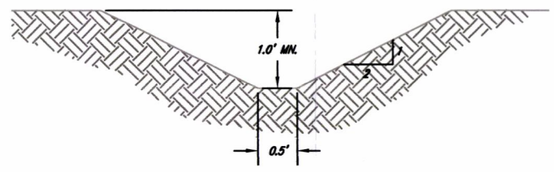
GENERAL NOTES

1. AN EASEMENT WILL BE GRANTED TO MARRIOT-SLATERVILLE FOR USE AS A PARKWAY WITHIN A 50 FOOT STRIP ALONG THE WEBER RIVER.
2. THE GRAVEL CRUSHING AND RECYCLING OPERATIONS WILL BE MOVED FROM TIME TO TIME TO ACCOMMODATE THE AREAS OF EXCAVATION OF GRAVEL AS IT IS REMOVED.
3. ANY RUNOFF GENERATED BY THE SITE WILL BE COLLECTED AND STORED ON SITE. THE FINAL ELEVATIONS DO NOT ALLOW RUN-ON FROM ADJACENT PROPERTIES.
4. THE FINAL 6 INCHES OF TOPSOIL WILL BE SEEDED WITH A SEED MIX SIMILAR TO NATIVE GRASSES AND MAY INCLUDE THE FOLLOWING: INDIAN RICEGRASS, FAIRWAY CRESTED WHEATGRASS, THICKSPIKE WHEATEGRASS, ROSANA WESTERN WHEATGRASS, NORTHERN SAND DROPSEED, ESKI SAINFOIN, ROCKY MOUNTAIN BEEPLANT, BLANKETFLOWER, APPAR BLUEFLAX, CALIFORNIA POPPY NORTHERN FOUR WING SALTBUSH. THE SEED MIXTURE WILL BE APPLIED AT A RATE OF 14 LBS PURE LIVE SEED PER ACRE.
5. AT AN AVERAGE DEPTH OF FILL OF 15 FEET OVER THE DESIGNATED FILL AREA, THE FINAL CAPACITY IS APPROXIMATELY 300,000 CUBIC YARDS.



TYPICAL CROSS SECTION

SCALE: 1" = 2'



RUNOFF CONTROL DITCH CROSS SECTION

SCALE: 1" = 2'

LICENSED PROFESSIONAL ENGINEER
NO. 182608
MARK T. MILLER
STATE OF UTAH
PROJECT ENGINEER STAMP

WASATCH CIVIL
Consulting Engineering
5320 SOUTH 1950 WEST, SUITE 1
ROY CITY, UTAH 84067 (801) 775-9191

REV.	DATE	APPR.	

DESIGNED M.M. DATE JUNE 09, 2011
DRAWN C.A.A SCALE: HORIZ. 1" = 120'
CHECKED J.D.B.

ADVANCED PAVING & CONSTRUCTION

FINAL CLOSURE

SHEET: 2 OF 2 SHEETS

DWG FILE: C:\DWG\ADVANCED PAVING\LANDFILL\CLOSURE-FINAL-05-01.dwg

UTAH SOLID AND HAZARDOUS WASTE CONTROL BOARD

SOLID WASTE PERMIT

CLASS IVb LANDFILL

Pursuant to the provisions of the *Utah Solid and Hazardous Waste Act*, Title 19, Chapter 6, Utah Code Annotated (UCA) 1953, as amended (the Act) and the *Utah Solid Waste Permitting and Management Rules*, Utah Administrative Code (UAC) R315-301 through 320 (the Solid Waste Rules) adopted thereunder,

Advanced Paving and Construction

is hereby authorized to operate the **Advanced Paving and Construction Class IVb Landfill** in the Southwest 1/4 of Section 24, Township 6 North, Range 2 West, Salt Lake Base and Meridian, West Haven, Weber County, Utah as specifically described and shown in the permit application.

The operation of the landfill is subject to the condition that Advanced Paving and Construction (the Permittee) meet the requirements set forth herein.

All references to UAC R315-301 through 320 are to regulations that are in effect on the date that this permit becomes effective.

This permit shall become effective 1 December 1998.

This permit shall expire at midnight 30 November 2003.

Signed this 12 day of November, 1998.

Dennis R. Downs, Executive Secretary
Utah Solid and Hazardous Waste Control Board

March 23, 1995

Weber Properties, L.L.C.
P O Box 12847
Ogden, Utah 84412-2847

Advanced Paving and Construction
1723 W 1350 S
Ogden, Utah 84401

Subject: Letter agreement

The purpose of this letter is to reduce to writing the agreement between Weber Properties, a Utah L.L.C., and Advanced Paving and Construction, Inc., a Corporation doing business in Utah.

It is understood and acknowledged that Weber Properties owns a material pit, located in Ogden City. Weber Properties does herewith grant to Advanced Paving and Construction exclusive rights to use this material pit, both to withdraw material from the pit and to fill areas of the pit with materials as a dump. The use of the pit is done in accordance with the laws of the state of Utah, as the pit has been designated as an acceptable area for dumping cement, asphalt materials and earth materials.

Advanced Paving and Construction, Inc. does hereby warrant the use of the pit and surroundings are in accordance with local, state and federal laws and will hold Weber Properties, L.L.C. harmless of any claims arising from their use of this property. For their use of this property, Advanced Paving and Construction, Inc. agrees to pay to Weber Properties L.L.C. a royalty of 2.00 per cubic yard of material withdrawn from the pit and will pay a royalty of 25.00 per load dumped into the pit.

The terms of this agreement are from October 1, 1994, for a period of ten years, to October 1, 2004, with the understanding that the royalty rate will be re-negotiated annually and will be arrived at a mutual agreement of both parties. If this royalty agreement is not mutually agreed upon, it will constitute cancellation of the agreement.

Weber Properties, L.L.C.

Advanced Paving and Construction

Platted ☐ Verified ☐
Entered ☐ Microfilmed ☐ (DO NOT WRITE ABOVE THIS LINE)

QUIT CLAIM DEED

DON S. JOHNSON, KENNETH M. NIMORI DBA JOHNSON AND NIMORI PROPERTIES GRANTOR(S)
of OGDEN, UTAH County of WEBER State of Utah
hereby QUIT CLAIMS to

WEBER PROPERTIES L.C.

GRANTEE(S)
of OGDEN, UTAH County of WEBER State of Utah,
for the sum of TEN DOLLARS AND OTHER VALUABLE CONSIDERATION------ Dollars ($10.00)
the following described tract(s) of land in Weber County, State of Utah:

PART OF THE SOUTHWEST QUARTER OF SECTION 24, T6N, R2 W, SLB & M, U.S. SURVEY: BEGINNING AT A POINT 17.61 CHAINS NORTH AND 3.24 CHAINS WEST FROM THE SOUTHEAST CORNER OF SAID QUARTER SECTION, AND RUNNING THENCE NORTH 5 CHAINS, THENCE NORTH 32 1/2D WEST 8.68 CHAINS, THENCE WEST .75 CHAIN (IN SECTION) THENCE NORTH 12 1/2D WEST 6.94 CHAINS, THENCE WEST 4.40 CHAINS, THENCE SOUTH 1D 4.39 CHAINS, THENCE SOUTH 3 CHAINS, THENCH NORTH 79 1/2D EAST 3.10 CHAINS, THENCE SOUTH 50D EAST 2.7 CHAINS, THENCE SOUTH 6 CHAINS, THENCE SOUTH 8 1/2D EAST 5 CHAINS, THENCE EAST 5.76 CHAINS TO THE PLACE OF BEGINNING.

CONTAINS 12.59 ACRES, MORE OR LESS

WITNESS the hands of said Grantors this day of A. D. 19

Gary Evans
Robert Van Der Sloot
Don S. Johnson
Kenneth Nimori

(NOTARY SEAL)

State of Utah
County of Weber } ss. On the 23rd day of November A. D. 19 94

personally appeared before me Kenneth Nimori
Don S. Johnson

the signer(s) of the above instrument who duly acknowledged to me that he executed the same.

NOTARY PUBLIC
CATHERINE M. JACHIM
1723 West 150 South
Ogden, UT 84404
My Commission Expires 01/12/97
State of Utah

Catherine M. Jachim (NOTARY PUBLIC)

Residing at:

My commission expires:

MAIL DEED TO: PLATTED ☐ VERIFIED ☐
ENTERED ☐ MICROFILMED ☐ same
15-064-0041 (15-064-0029)
15-064-0004 -CLAIMS-

MAIL TAX NOTICE TO:

E# 1328623 BK 1743 PG 2437
DOUG CROFTS, WEBER COUNTY RECORDER
12-JAN-95 903 AM FEE $10.00 DEP MH
REC FOR: DON S. JOHNSON

15

Platted ☐ Verified ☐
Entered ☐ Microfilmed ☐ (DO NOT WRITE ABOVE THIS LINE)

QUIT CLAIM DEED

DON S. JOHNSON, KENNETH M. NIMORI DBA JOHNSON AND NIMORI PROPERTIES GRANTOR(S)
of OGDEN, UTAH County of WEBER State of Utah
hereby QUIT CLAIMS to

WEBER PROPERTIES L.C.

GRANTEE(S)
of OGDEN, UTAH County of WEBER State of Utah,
for the sum of TEN DOLLARS AND OTHER VALUABLE CONSIDERATION------ Dollars ($ 10.00)
the following described tract(s) of land in Weber County, State of Utah:

A PART OF THE SOUTHWEST QUARTER OF SECTION 24, TOWNSHIP 6 NORTH, RANGE 2 WEST, SALT LAKE BASE AND MERIDIAN, U.S. SURVEY:
BEGINNING AT A POINT 2553.73 FEET SOUTH 1°10'21" WEST (STATE PLANE GRID BEARING) AND 1698 FEET NORTH 89°14'19" EAST A LONG THE QUARTER SECTION LINE AND 742.44 FEET SOUTH FROM THE NORTHWEST CORNER OF SAID SECTION 24; RUNNING THENCE SOUTH 79°56'21" WEST 59.40 FEET; THENCE SOUTH 26°46' 21" WEST 66.00 FEET; THENCE SOUTH 11°26' 21" WEST 330.00 FEET; THENCE SOUTH 35°33'39" EAST 239.58 FEET; THENCE SOUTH 13°26'21" WEST 118.80 FEET; THENCE SOUTH 22°56'21" WEST 11.66 FEET TO A POINT GIVEN AS THE SOUTHWEST CORNER OF THE WESLEY DEVRIES AND WIFE PROPERTY; THENCE SOUTH 89°34'21" WEST 131.75 FEET; THENCE NORTH 85°41'39" WEST 110.90 FEET; THENCE NORTH 71°09'39" WEST 80.40 FEET; THENCE NORTH 75°39'39" WEST 216.64 FEET; THENCE NORTH 11°03'39" WEST 659.08 FEET MORE OR LESS; THENCE SOUTH 88°22'38" EAST 701.53 FEET TO THE POINT OF BEGINNING.

CONTAINS 8.66 ACRES, MORE OR LESS

WITNESS the hands of said Grantors this day of A. D. 19

Don S. Johnson

Kenneth Nimori

(NOTARY SEAL)

State of Utah
County of Weber } ss. On the 23 day of November A. D. 1994

personally appeared before me Kenneth Nimori
Don S Johnson

the signer(s) of the above instrument who duly acknowledged to me that he executed the same

NOTARY PUBLIC
CATHERINE N. JACHIM
1723 West 1350 South
Ogden, UT 84401
My Commission Expires: 07/23/97
State of Utah

Residing at: NOTARY PUBLIC
My Commission expires:

MAIL DEED TO: PLATTED ☐ VERIFIED ☐
ENTERED ☐ MICROFILMED ☐
15-064-0040

MAIL TAX NOTICE TO: same

1328624 BK1743 PG2438
DOUG CROFTS, WEBER COUNTY RECORDER
12-JAN-95 904 AM FEE $10.00 DEP MH
REC FOR: DON.S..JOHNSON

15

Weber County, Utah
2380 Washington Blvd Ogden, UT 84401

Parcel Information

Serial Number 15 -064 -0041

Ownership Information

Owner WEBER PROPERTIES L C *

Property Address

Mailing Address P O BOX 12847
OGDEN UT 84412

Tax Unit 361

Description	Year Built	Size
Land		21.25 Acres

Tax Information

Tax Year 2003

BE AWARE: The tax information on this page, including the "Balance" due amount reflects the status of this land serial number at the end of the tax year listed above. Each tax year's information is kept the same or "frozen" to help illustrate what the status of the taxes were at the end of that particular tax year. Payments on any "balance" due or delinquency amounts will show on the delinquency screens. *Ownership info is also shown for the tax year listed above, to view current owner information please use the Geo-Gizmo.

NOTICE: All tax information for the current year will be completely posted by mid-October. Before mid-October though, the current year tax page will reflect some tax information as it becomes available during the year.

Loan Company: None Today's Date: 11/7/2003

Market	Taxable	Rate
$531,250.00	$531,250.00	x 0.011803
	Net Assessment Charge	$6,270.34
	Total Direct	$0.00
	Penalty Charge	$0.00
	Sub Total	$6,270.34

Total Payments	$0.00
Balance	$6,270.34

Property Values

Clsf	Property Type	Taxable	Market
030	COMMERCIAL LAND	$531,250.00	$531,250.00
	Total Values:	**$531,250.00**	**$531,250.00**

Direct Charges

Type	Description	Amount

Payments

Pay Date	Ein	Run	Rec#	L#	Received From	Amount	Status

Legal Description

Description Date/Year: 5/26/1998 1998

PART OF THE SOUTHWEST QUARTER OF SECTION 24, TOWNSHIP 6 NORTH, RANGE 2 WEST, SALT LAKE BASE AND MERIDIAN, U.S. SURVEY: BEGINNING AT A POINT 17.61 CHAINS NORTH AND 231.84 FEET WEST FROM THE SOUTHEAST CORNER OF SAID QUARTER SECTION, RUNNING THENCE NORTH 326.5 FEET; THENCE NORTH 32D30' WEST 513.51 FEET; THENCE WEST 509.25 FEET; THENCE SOUTH 26D30' WEST 33 FEET, MORE OR LESS, THENCE NORTH 88D22'38" WEST 701.53 FEET; THENCE SOUTH 11D03'39" EAST 659.08 FEET, MORE OR LESS, THENCE SOUTH 75D39'39" EAST 216.64 FEET; THENCE SOUTH 71D09'39" EAST 80.40 FEET; THENCE SOUTH 85D41'39" EAST 110.90 FEET; THENCE NORTH 89D34'21" EAST 131.75 FEET; THENCE EAST TO THE POINT OF BEGINNING.

TOGETHER WITH RIGHT OF WAY (1427-483)

ADVANCED
PAVING AND
CONSTRUCTION

P.O. Box 12847 • Ogden, UT 84412 • 1723 West 1350 South, Ogden, UT 84401 • (801) 731-7882 • Fax # 731-7885

SW151
Division of
Solid and Hazardous Waste

OCT 30 2012

2013-001225

October 26, 2012

Scott T . Anderson
Department of Enviromental Quality
Division of Solid and Hazardous Waste
P.O. Box 144880
Salt Lake City, UT 84114

RE: Permit Renwal, #9810R1

Dear Mr. Anderson,

As requested, enclosed please find updated closure and post-closure bond.

Let me know if you have any questions, thank you.

Sincerely,

Wilbert van der Stappen
Advanced Paving and Construction

cc: file

Division of
Solid and Hazardous Waste

OCT 30 2012

Solid Waste Permitting and Management
Closure and Post-Closure Care Bond
Utah Administrative Code R315-309-5

Bond Amount $ 30,250.00** Bond No. 09097380

KNOWN BY THESE PRESENTS:

That we, Advanced Paving & Construction, Inc. (PRINCIPAL) of the County of Weber State of Utah as PRINCIPAL and Fidelity & Deposit Company of Maryland (SURETY) as a corporation, duly organized and doing business under and by virtue of the laws of the State of Maryland and authorized to do business in the State of Utah, and duly licensed for the purpose of making, guaranteeing, and becoming sole surety upon bonds required or authorized by the laws of the State of Utah, as surety, and held and firmly bound unto the Director, Utah Division of Solid and Hazardous Waste, P. O. Box 144880, Salt Lake City, Utah 84114-4880, in the sum of Thirty Thousand Two Hundred Fifty and No/100**, lawful money of the United States of America, for the payment whereof well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

The Condition of the foregoing obligation is such that,

WHEREAS, the above named PRINCIPAL has made application to the Director for the issuance of a permit to operate a Class IVb Landfill under the authority of the State of Utah Solid and Hazardous Waste Act, and

WHEREAS, the SOLID AND HAZARDOUS WASTE CONTROL BOARD, with authority, has promulgated rules, Utah Administrative Code (UAC) R315-301 through 320 (the "RULES"), regulating the operation of landfills,

WHEREAS, under the terms of said RULES a cash or corporate surety bond in the penal sum of Thirty Thousand Two Hundred Fifty & No/100** is required of said PRINCIPAL and a responsible surety as financial assurance for closure and post-closure care costs of said landfill payable to a Standby Trust as specified hereafter. Said bond is conditioned upon the faithful and proper compliance with all of the terms, conditions, provisions, requirements, and specifications of landfill closure and post-closure care contained in said landfill permit, UAC R315-302-2, and UAC R315-5(5), not to exceed the bond penalty amount hereof,

Now, therefore, if the above bound PRINCIPAL shall fully comply with the above stated provisions for closure and post-closure care of said Class IVb Landfill, then this obligation shall be null and void, otherwise to remain in full force and effect.

This bond may be increased by rider or other means as necessary to equal the amount as established by the annual up-date of the cost estimate for closure and post-closure care as required by UAC R315-309-2(3) and (4) for said Class IVb Landfill.

The duration of this bond shall be from the time same is filed with the Director until such time as the Director may cancel the same or release the SURETY from all liability.

The SURETY may cancel this bond by giving the Director 120 days written notice addressed to the Director, Utah Division of Solid and Hazardous Waste. Upon cancellation of this bond, the Director shall release the SURETY from all liability.

In the event of default by the PRINCIPAL of any of the prior stated provisions and conditions of closure and post-closure care of said Class IVb Landfill, the SURETY shall conduct or cause to be conducted the closure and post-closure activities as required in permit # 9810R1. Upon the completion of the required activities, not to exceed the penal sum of this bond, this obligation of the SURETY shall terminate.

Signed and Sealed this 4th day of November, 2012.

Witness:

Bart LaRose
(Print Name)

Advanced Paving & Construction, Inc.

Wilbert van der Stappen, President
(Print Name)

Witness:

Rayne Harris
(Print Name)

Fidelity & Deposit Company of Maryland

Michael H. Gale, Attorney-In-Fact
(Print Name)

ZURICH AMERICAN INSURANCE COMPANY
COLONIAL AMERICAN CASUALTY AND SURETY COMPANY
FIDELITY AND DEPOSIT COMPANY OF MARYLAND
POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That the ZURICH AMERICAN INSURANCE COMPANY, a corporation of the State of New York, the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, a corporation of the State of Maryland, and the FIDELITY AND DEPOSIT COMPANY OF MARYLAND a corporation of the State of Maryland (herein collectively called the "Companies"), by **THOMAS O. MCCLELLEN, Vice President,** in pursuance of authority granted by Article V, Section 8, of the By-Laws of said Companies, which are set forth on the reverse side hereof and are hereby certified to be in full force and effect on the date hereof, do hereby nominate, constitute, and appoint **Michael H. GALE, Brett NILSSON, Georgia TORRES, Rayne HARRIS, Michelle PHELPS and Julie MARTINDALE, all of Ogden, Utah, EACH** its true and lawful agent and Attorney-in-Fact, to make, execute, seal and deliver, for, and on its behalf as surety, and as its act and deed: **any and all bonds and undertakings,** and the execution of such bonds or undertakings in pursuance of these presents, shall be as binding upon said Companies, as fully and amply, to all intents and purposes, as if they had been duly executed and acknowledged by the regularly elected officers of the ZURICH AMERICAN INSURANCE COMPANY at its office in New York, New York., the regularly elected officers of the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY at its office in Owings Mills, Maryland., and the regularly elected officers of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND at its office in Owings Mills, Maryland., in their own proper persons.

The said Vice President does hereby certify that the extract set forth on the reverse side hereof is a true copy of Article V, Section 8, of the By-Laws of said Companies, and is now in force.

IN WITNESS WHEREOF, the said Vice-President has hereunto subscribed his/her names and affixed the Corporate Seals of the said **ZURICH AMERICAN INSURANCE COMPANY, COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, and FIDELITY AND DEPOSIT COMPANY OF MARYLAND,** this 12th day of April, A.D. 2012.

ATTEST:

ZURICH AMERICAN INSURANCE COMPANY
COLONIAL AMERICAN CASUALTY AND SURETY COMPANY
FIDELITY AND DEPOSIT COMPANY OF MARYLAND

By: _____
Assistant Secretary
Eric D. Barnes

_____
Vice President
Thomas O. McClellen

State of Maryland
City of Baltimore

On this 12th day of April, A.D. 2012, before the subscriber, a Notary Public of the State of Maryland, duly commissioned and qualified, **THOMAS O. MCCLELLEN, Vice President, and ERIC D. BARNES, Assistant Secretary,** of the Companies, to me personally known to be the individuals and officers described in and who executed the preceding instrument, and acknowledged the execution of same, and being by me duly sworn, deposeth and saith, that he/she is the said officer of the Company aforesaid, and that the seals affixed to the preceding instrument are the Corporate Seals of said Companies, and that the said Corporate Seals and the signature as such officer were duly affixed and subscribed to the said instrument by the authority and direction of the said Corporations.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my Official Seal the day and year first above written.

_____
Maria D. Adamski, Notary Public
My Commission Expires: July 8, 2015

POA-F 020-8008C

EXTRACT FROM BY-LAWS OF THE COMPANIES

"Article V, Section 8, Attorneys-in-Fact. The Chief Executive Officer, the President, or any Executive Vice President or Vice President may, by written instrument under the attested corporate seal, appoint attorneys-in-fact with authority to execute bonds, policies, recognizances, stipulations, undertakings, or other like instruments on behalf of the Company, and may authorize any officer or any such attorney-in-fact to affix the corporate seal thereto; and may with or without cause modify of revoke any such appointment or authority at any time."

CERTIFICATE

I, the undersigned, Vice President of the ZURICH AMERICAN INSURANCE COMPANY, the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, and the FIDELITY AND DEPOSIT COMPANY OF MARYLAND, do hereby certify that the foregoing Power of Attorney is still in full force and effect on the date of this certificate; and I do further certify that Article V, Section 8, of the By-Laws of the Companies is still in force.

This Power of Attorney and Certificate may be signed by facsimile under and by authority of the following resolution of the Board of Directors of the ZURICH AMERICAN INSURANCE COMPANY at a meeting duly called and held on the 15th day of December 1998.

RESOLVED: "That the signature of the President or a Vice President and the attesting signature of a Secretary or an Assistant Secretary and the Seal of the Company may be affixed by facsimile on any Power of Attorney...Any such Power or any certificate thereof bearing such facsimile signature and seal shall be valid and binding on the Company."

This Power of Attorney and Certificate may be signed by facsimile under and by authority of the following resolution of the Board of Directors of the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY at a meeting duly called and held on the 5th day of May, 1994, and the following resolution of the Board of Directors of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND at a meeting duly called and held on the 10th day of May, 1990.

RESOLVED: "That the facsimile or mechanically reproduced seal of the company and facsimile or mechanically reproduced signature of any Vice-President, Secretary, or Assistant Secretary of the Company, whether made heretofore or hereafter, wherever appearing upon a certified copy of any power of attorney issued by the Company, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed the corporate seals of the said Companies, this 4th day of November, 20 12.

Geoffrey Delisio

Geoffrey Delisio, Vice President

ZURICH

RIDER TO GENERAL AGREEMENT OF INDEMNITY - *("PLACE IN FUNDS, CHANGE IN CONTROL")*

Division of Solid and Hazardous Waste
OCT 30 2012

This Rider ("Rider") is made and entered into this ***23rd*** day of ***October, 2012***, and is incorporated into, and forms a part of, the General Agreement(s) of Indemnity, including but not limited to the Agreement of Indemnity dated March 12, 2008 (as amended, supplemented or otherwise modified from time to time), all such Agreements of Indemnity herein collectively referred to as the "GIA".

As an inducement to Surety's consideration of certain additional Bonds, Contractor and Indemnitors agree that the GIA shall be amended as follows:

1. **Additional Provisions**: The following provisions shall be added to the GIA:

TWENTY-Second: PLACE IN FUNDS: Contractor and/or Indemnitors shall, upon demand, place Surety in funds (a) by reason of the factors in Paragraph SECOND or (b) any Change in Control of any Contractor or Indemnitor or (c) upon determination by Surety, in its sole and absolute discretion, that potential liability exists under any Bond. Contractor and/or Indemnitors shall place Surety in funds by depositing cash or other collateral acceptable to Surety in an amount determined by Surety in its sole discretion to be sufficient to discharge any potential liability of Surety. Contractor's and Indemnitors' obligation to place Surety in funds in the amount demanded applies regardless of whether liability has been established or whether Surety, Contractor and/or Indemnitors may have defenses to all or any portion of any claim or potential claim asserted under any Bond. Surety shall not be required to post a reserve prior to or as a condition of Contractor and Indemnitors' obligation to place Surety in funds.

TWENTY-Third: CHANGE IN CONTROL: Any Change in Control that occurs without the Surety's prior written consent shall be deemed an event of default under this Agreement. ***"Change in Control"*** is defined as the occurrence of any of the following with respect to any Contractor or Indemnitor, without Surety's prior written consent: (a) the sale, lease, transfer, conveyance, merger, consolidation or other disposition of all or substantially all of its assets in one or more transactions with any person, entity or group; (b) a change in the beneficial ownership, directly or indirectly, of twenty-five (25%) percent or more of its voting stock in one or more transactions with any person or entity (measured by voting power rather than number of shares, as compared to the voting power existing on of the date of this Rider); (c) any financial institution, lender, or creditor taking any foreclosure action with respect to any stock or other equity interest in it, including but not limited to issuing any notice of or intent to foreclose or otherwise exercising any rights that such person or entity may have to vote, sell, or otherwise exercise any rights with respect to such stock or equity interest; or (d) ceasing or threatening to cease to carry on business, or having any resolution passed or order made for its winding-up, liquidation or dissolution.

2. **No other Modification:** The terms and conditions of the GIA shall remain unchanged, subject only to the amendments in this Rider.

3. **Counterparts/Facsimile**. This Rider may be executed in counterparts (and by the different Contractors and/ or Indemnitors on different counterparts), each of which shall constitute an original but all of which when taken together shall constitute a single instrument. Delivery of an executed signature page to this Rider by facsimile transmission or other electronic means (including pdf) shall be as effective as delivery of a manually signed counterpart of this Rider.

IN WITNESS WHEREOF, Contractor and Indemnitors have executed this Rider as of the date set forth above.

SIGNATURE PAGE FOR CONTRACTOR (AS CONTRACTOR AND INDEMNITOR)

Each of the undersigned hereby affirms to the Surety that he or she is a secretary or a duly authorized officer, manager, trustee or official of the business entity for which he or she executes the foregoing Rider as a Contractor and Indemnitor. In such capacity the undersigned is familiar with all of the documents which establish the rights which govern the affairs, power and authority of such entity including, to the extent applicable, the (1) certificate or articles of incorporation, (2) bylaws, (3) corporate resolutions, (4) trust agreements and (5) partnership, and operating or limited liability agreements of such business entity. Having reviewed all such applicable documents and instruments and such other facts as deemed appropriate, the undersigned hereby affirms that such entity has the power and authority to enter into such Rider and that he or she is duly authorized to do so.

CONTRACTOR AND INDEMNITOR
(Advanced Paving and Construction, Inc./BY:
Wilbert W. Van Der Stappen)

(SEAL)

Wilbert W. Van Der Stappen, President

Member

(Witness Name and Title)

ACKNOWLEDGEMENT

STATE OF: Utah County of: Weber

On this 26th day of October, 2012, before me personally appeared:

Wilbert W. Van Der Stappen known or proven to me to be the President of the entity above executing the foregoing instrument ("Entity") and

Bart LaRose known or proven to me to be the Member of the Entity and they acknowledge said instrument to be the free and voluntary act and deed of said Entity, for the uses and purposes therein mentioned and on oath stated that the seal affixed is the seal of said Entity and that it was affixed and that they executed said instrument by authority of the Entity.

IN WITNESS WHEREOF, I have set my hand and affixed my OFFICIAL SEAL the day and year above written.

HEATHER SIMMONS
NOTARY PUBLIC • STATE of UTAH
COMMISSION NO. 578942
COMM. EXP. 05-29-2013

Notary Public:

My Commission Expires: 05-29-2013

Notary Registration No.: 578942

SIGNATURES CONTINUED NEXT PAGE

(The remainder of this page is intentionally left blank)

SIGNATURE PAGE FOR INDEMNITOR

Each of the undersigned hereby affirms to the Surety that he or she is a secretary or a duly authorized officer, manager, trustee or official of the business entity for which he or she executes the foregoing Rider as an Indemnitor. In such capacity the undersigned is familiar with all of the documents which establish the rights which govern the affairs, power and authority of such entity including, to the extent applicable, the (1) certificate or articles of incorporation, (2) bylaws, (3) corporate resolutions, (4) trust agreements and (5) partnership, and operating or limited liability agreements of such business entity. Having reviewed all such applicable documents and instruments and such other facts as deemed appropriate, the undersigned hereby affirms that such entity has the power and authority to enter into such Rider and that he or she is duly authorized to do so.

INDEMNITOR
(Wilbert W. Van Der Stappen)

BY: _____ (SEAL)
Wilbert W. Van Der Stappen, President

Bart LaRose - Member
(Witness Name and Title)

ACKNOWLEDGEMENT

STATE OF: __Utah_____ County of: _Weber_____

On this 26th day of October, 20 12, before me personally appeared:

_ Wilbert W. Van Der Stappen ___ known or proven to me to be the __President__ of the entity above executing the foregoing instrument ("Entity") and

Bart LaRose known or proven to me to be the Member of the Entity and they acknowledge said instrument to be the free and voluntary act and deed of said Entity, for the uses and purposes therein mentioned and on oath stated that the seal affixed is the seal of said Entity and that it was affixed and that they executed said instrument by authority of the Entity.

IN WITNESS WHEREOF, I have set my hand and affixed my OFFICIAL SEAL the day and year above written.

HEATHER SIMMONS
NOTARY PUBLIC • STATE of UTAH
COMMISSION NO. 578942
COMM. EXP. 05-29-2013

Notary Public: Heather Simmons

My Commission Expires: 05-29-2013

Notary Registration No.: 578942

(The remainder of this page is intentionally left blank)

ADVANCED PAVING AND CONSTRUCTION CLASS IVB LANDFILL

INSPECTION REPORT

DATE:_____ INSPECTOR:_____

	Satisfactory	Unsatisfactory
• Water Run-on/Run-off:	_____	_____
• Fencelines/Gates	_____	_____
• Waste Handling	_____	_____

Corrective Action Required:

_____
_____
_____
_____

Date Corrective Action Completed:_____

Comments:

_____
_____
_____
_____

Signature: _____

ADVANCED PAVING AND CONSTRUCTION
LANDFILL LOAD COUNT

Week Ending	Dump	Pit Run		Week Ending	Dump	Pit Run
Total				Total		

WASATCH CIVIL
Consulting Engineering

PROJECT Advanced Paving SHEET NO. 1 OF 3

DESCRIPTION Landfill Permit PROJECT NO.

CALC. BY JDB DATE 11/11/03 CHKD. BY DATE

- Calculate the runoff volume for the 25-year and 100-year 24-hour storm event using the NRCS Curve Number Methodology

Precipitation: Reference: Estimated Return Periods for Short-Duration Precipitation in Utah, Utah State 1971

25-yr, 24 hr ⇒ P = 2.59 inches

100-yr, 24 hr ⇒ P = 3.25 inches

Curve Number:

Reference: Urban Hydrology for Small Watersheds, TR-55, NRCS, June 1986.

- Native Soil at the landfill is Hydrologic Soil Group (HSG) A
- Soils brought to the site as waste will likely be HSG A and HSG B because these soils are the most commonly used soils for roadway construction

Use HSG B for the site

- Assume bare soil conditions for the active landfill

Active Landfill ⇒ CN = 86

- Assume "Good" cover for the final cover (grass & weeds)

Final Cover ⇒ CN = 62

WASATCH CIVIL
Consulting Engineering

PROJECT Advanced Paving SHEET NO. 2 OF 3

DESCRIPTION Landfill Permit PROJECT NO. _____

CALC. BY JDB DATE 11/11/03 CHKD. BY _____ DATE _____

NRCS Curve No. Method

$$Q = \frac{(P - 0.2S)^2}{(P + 0.8S)} \qquad S = \frac{1000}{CN} - 10$$

where P = rainfall (in)

Q = runoff (in)

S = potential maximum retention after runoff begins (in)

Runoff for Active Landfill

$CN = 86 \qquad S = \frac{1000}{86} - 10 = 1.628$

25-yr $\Rightarrow$ $Q = \frac{(2.59 - 0.2(1.628))^2}{(2.59 + 0.8(1.628))} = 1.32$ in

100-yr $\Rightarrow$ $Q = \frac{(3.25 - 0.2(1.628))^2}{(3.25 + 0.8(1.628))} = 1.88$ in

25-year $\Rightarrow$ Volume = (12 acres)$\left(\frac{1.32}{12}\text{ ft}\right)$ = 1.32 ac-ft

100-year $\Rightarrow$ Volume = (12 acres)$\left(\frac{1.88}{12}\text{ ft}\right)$ = 1.88 ac-ft