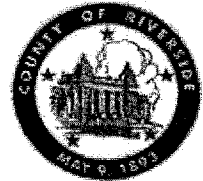


SUBMITTAL TO THE BOARD OF SUPERVISORS
COUNTY OF RIVERSIDE, STATE OF CALIFORNIA

236



FROM: Waste Management Department

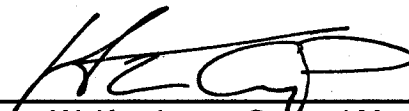
SUBMITTAL DATE:
September 14, 2011

SUBJECT: Approval of Contract Documents for the Construction of Surface Drainage and Access Road Improvements at the Badlands and Lamb Canyon Sanitary Landfills

RECOMMENDED MOTION: The Board:

1. Approve the Contract Documents for the Surface Drainage and Access Road Improvement Projects at the Badlands and Lamb Canyon Sanitary Landfills; and
2. Authorize the General Manager-Chief Engineer of the Riverside County Waste Management Department to advertise for bids.

BACKGROUND: The project covered by this contract is certain construction work affecting the site landfill access road and drainage at the Badlands and Lamb Canyon Landfills.
(cont'd)


Hans W. Kernkamp, General Manager-Chief Engineer

FINANCIAL DATA	Current F.Y. Total Cost:	\$ 322,000	In Current Year Budget:	YES
	Current F.Y. Net County Cost:	\$ 0	Budget Adjustment:	NO
	Annual Net County Cost:	\$ 0	For Fiscal Year:	2011/12

SOURCE OF FUNDS: Waste Management Enterprise Fund	Positions To Be Deleted Per A-30	<input type="checkbox"/>
	Requires 4/5 Vote	<input type="checkbox"/>

C.E.O. RECOMMENDATION:

APPROVE

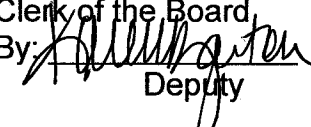
BY: 
Michael R. Shetler

County Executive Office Signature

MINUTES OF THE BOARD OF SUPERVISORS

On motion of Supervisor Ashley, seconded by Supervisor Tavaglione and duly carried, IT WAS ORDERED that the above matter is approved as recommended.

Ayes: Buster, Tavaglione and Ashley
Nays: None
Absent: Stone and Benoit
Date: September 27, 2011
xc: Waste

Kecia Harper-Ihem
Clerk of the Board
By: 
Deputy

Prev. Agn. Ref.:

District: 5

Agenda Number:

ATTACHMENTS FILED
WITH THE CLERK OF THE BOARD

12.1

F11 – Construction of Surface Drainage and Access Road Improvements at the Badlands and Lamb Canyon Landfills
September 14, 2011
Page 2

The contract represents an integral part of the Riverside County Waste Management Department's (Department) efforts to reduce the introduction of pollutants which affect the quality of storm water discharges associated with landfill operations at the Badlands and Lamb Canyon Landfills. As part of the National Pollutant Discharge and Elimination System (NPDES) statewide general permit to regulate industrial storm water discharges, the Department has Storm Water Pollution Prevention Plans (SWPPP) for the Badlands and Lamb Canyon Landfills. Under these SWPPPs, the Department is responsible for the installation and maintenance of Best Management Practices (BMPs), including drainage structures that collect and channel runoff from the landfill. Every year, the Department installs several temporary BMPs (such as sandbags checkdams, straw bale barriers, earthen diversion berms, sediment traps), and surface drainage structures at both Badlands and Lamb Canyon Landfills to comply with NPDES requirements.

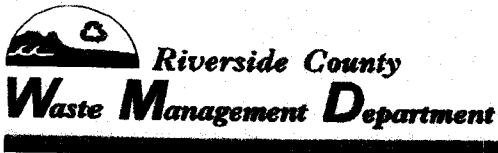
Based on the performance of the existing BMPs, and in response to State regulatory inspections, the Department believes more permanent structures are needed to adequately and properly provide for effective drainage and erosion control at both landfills. The project consists of installation of an access road and drainage structures such as cobble trenches, metal flume down drains, asphalt concrete drainage structures, 20 mil Low Density Polyethylene (LDPE) drainage swale, grouted rip-rap, earthen diversion berms, and straw bale check dams. In addition to complying with the necessary NPDES requirements, these more permanent structures will reduce the frequency and severity of erosion problems and reduce labor and equipment costs associated with erosion repairs and regular site maintenance.

The Department recommends that the Board approve the Contract Documents for the Construction of the Surface Drainage and Access Road Improvements at the Badlands and Lamb Canyon Landfills, and authorize the General Manager-Chief Engineer to advertise for bids.

The Engineer's estimate for this project is \$322,000. Funds are available in the current year budget in Fund 40200, Department ID - 4500100000.

EC/SW:ec/sw

PD# 106909-v1



CONTRACT DOCUMENTS

FOR

SURFACE DRAINAGE AND ACCESS ROAD

IMPROVEMENT PROJECTS

AT THE

BADLANDS SANITARY LANDFILL

AND

LAMB CANYON SANITARY LANDFILL

SEPTEMBER 2011

RIVERSIDE COUNTY WASTE MANAGEMENT DEPARTMENT

PD #106904-v2

SEP 27 2011

12.1 p25

FORM APPROVED BY COUNTY COUNSEL 11/14/11
BY: NEAL F. KIPNIS DATE

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GENERAL PROVISIONS

SPECIAL PROVISIONS

APPENDICES (All appendices are included on the enclosed compact disc)

Appendix A – SCAQMD Form 403-N Standard Conditions

Appendix B – SWPPPs for the Badlands and Lamb Canyon Sanitary Landfills

Appendix C – SWPPP Inspections Forms

Appendix D – Project Drawings (Reduced Size 11 x 17)

(Hard Copy of Appendix D is also included with these Contract Documents)

NOTICE TO CONTRACTORS

The Riverside County Waste Management Department, hereinafter called "County," invites sealed bids for

**THE SURFACE DRAINAGE AND ACCESS ROAD
IMPROVEMENT PROJECTS
AT THE BADLANDS SANITARY LANDFILL AND LAMB CANYON
SANITARY LANDFILL**

Contract Documents may be examined at the County's office located at 14310 Frederick Street, Moreno Valley, California, and may be obtained at the County office for \$35 per set, or \$50 if mailed by U.S. mail (mailing cost does not apply when using recipient's mailing account number). No refund will be made.

The Project Drawings are also available on a compact disc (CD) in digital PDF or Microstation (.dgn) format. This CD may be obtained at the County office for \$10 per CD, or \$15 if mailed by U.S. mail. No refund will be made. This digital data was created using Microstation software, and will be made available only in the Microstation (.dgn) format. This digital data is to be used at the Contractor's own discretion. The County is not responsible for the manner in which the Contractor chooses to use the digital data. The County is not responsible for how this digital data might be converted by the Contractor to another format. The Contractor is solely responsible for its use of this digital data.

Each proposal must be accompanied by a certified or cashier's check or bid bond equal to ten percent (10%) of the amount bid, payable to the County of Riverside as a guarantee that the Contractor will, if awarded the contract, execute a satisfactory contract and furnish the required bonds and provide the required certificates of insurance.

Proposals must be placed in a sealed envelope clearly marked "Contractor's Proposal". Proposals must be in accordance with the instructions and filed with the County by 11:00 am on Thursday, October 13, 2011 at 14310 Frederick Street, Moreno Valley, CA 92553 which time and place are fixed for the public opening of bids. A non-mandatory pre-bid site review will be conducted at the landfills on Thursday, October 06, 2011, beginning at the Badlands Landfill at 9:00am and proceed to the Lamb Canyon Landfill. The Badlands Sanitary Landfill site is located at 31125 Ironwood Ave., Moreno Valley, CA and the Lamb Canyon Sanitary Landfill is located at 16411 Lamb Canyon Rd., Beaumont, CA.

General prevailing rate of per diem wages and general prevailing rate of per diem wages for holiday and overtime work, including employer payments for health and welfare, pension, vacation, apprentices and similar purposes for each craft, classification or type of workman needed for execution of contracts under the jurisdiction of the County have been obtained by the County from the Director of Industrial Relations of the State of California for the area where the work is to be done. These are on file at the County's office, and will be made available to any interested person upon request.

Contractors submitting proposals for this project shall have a Class A Contractors license from the State of California in order to be considered eligible for the contract award.

BIDDER QUALIFICATIONS:

A bidder must satisfy the following requirements to bid on this project:

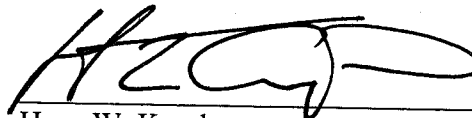
1. The Contractor and/or subcontractor shall have successfully completed an earthwork construction project with at least 50,000 CY of engineered fill including soil material processing, placement, compaction, and grading per plan.
2. The Contractor and/or subcontractor shall have successfully completed a construction project requiring the installation of at least 5,000 linear feet of trenching.
3. The Contractor and/or subcontractor shall have successfully completed a construction project requiring the installation of at least 1,000 linear feet of asphalt drainage structures.
4. The Contractor and/or subcontractor shall have successfully completed a construction project requiring the installation of at least 1,000 square feet of grouted rip rap pads.

SUBMITTAL REQUIREMENTS:

With the submittal of the Proposal, the Contractor shall submit for approval by the County documented evidence of satisfaction of all of the Bidder Qualifications listed above, including the name and experience of the superintendent and senior personnel that will be responsible for earthwork, asphalt placement, trenching, metal flume installation, asphalt placement, and rip-rap construction. As part of this submittal, a project reference list shall be provided indicating at a minimum, the name, address, and phone number of the project owner and owner's representative, the location of the project, the amount of material installed, and completion date.

Dated: 9/27/11

RIVERSIDE COUNTY
WASTE MANAGEMENT DEPARTMENT



Hans W. Kernkamp
General Manager - Chief Engineer

INSTRUCTIONS TO BIDDERS

QUANTITIES: The amount of work to be done or materials to be handled under the Contract as noted in the proposal are but estimates and are not to be taken as an expressed or implied statement that the actual amount of work or materials will correspond to the estimate. The County reserves the right to increase or decrease or to entirely eliminate certain items from the work or materials if found desirable or expedient. The Contractor will be allowed no claims for anticipated profits, loss of profits or for any damages of any sort because of any difference between the estimated and the actual amounts of work done, or materials furnished or used in the completed project. The Contractor is cautioned against unbalancing of his bid by including his overhead into one or two items only when there are a number of items on the schedule. The overhead and indirect charges should be prorated on all items in the schedule.

DISCREPANCIES AND OMISSIONS: Discrepancies, omissions, ambiguities, or requirements likely to cause disputes shall be immediately brought to the attention of the County. When appropriate, Addenda will be issued by the County. No communication by anyone as to such matters except by an Addendum affects the meaning or requirements of the Contract Documents. If at any time (before or after submittal of its bid) the Contractor is of the opinion that there is or may be a discrepancy or inconsistency in the plans, drawings, specifications or other Contract Documents, it shall immediately report this in writing to the County and shall not proceed with any related work until ordered so to do.

WITHDRAWAL OF PROPOSALS: Any proposal may be withdrawn at any time prior to the hour fixed in the Notice to Contractors for the opening of proposals, provided that a request in writing, executed by the bidder or his duly authorized representative, for the withdrawal of such proposal, is filed with the County. The withdrawal of a proposal shall not prejudice the right of a bidder to file a new proposal.

AGREEMENT OF FIGURES: If the unit prices and the total amounts named by the bidder in the proposal do not agree, the unit prices alone will be considered as representing the bidder's intention.

INVALID PROPOSALS: Proposals submitted by fax or telegraph and those which fail to reach the place fixed for opening of proposals prior to the date and hour set for opening same will not be considered.

INSPECTION OF SITES AND UNDERSTANDING OF CONTRACT PROVISIONS: Prior to submission of a bid, bidders must have examined the sites and fully acquainted themselves with all conditions affecting the work. Information derived from maps, plans or specifications, from the County will not relieve the successful bidder from properly carrying out all the terms of the contract. By the submittal of a proposal, the bidder will be held to have personally examined the site and the drawings, to have carefully read all of the specifications and other Contract Documents, and to have satisfied himself as to his ability to meet all the difficulties attending the execution of the work. The bidder agrees that if he is awarded the contract he will make no claim against the County based on ignorance or misunderstanding of the contract provisions; and that the bidder fully understands the payment method for the work.

QUALIFICATIONS OF BIDDERS: No proposal will be accepted from a Contractor who is

not licensed under laws of California, as evidenced by the submittal of the Statement of Licensure. No award will be made to any bidder who cannot give satisfactory assurance to the County as to his ability to carry out the contract, both from his financial standing and by reason of his previous experience as a Contractor on work of the nature contemplated in the contract.

VENDOR REGISTRATION: Contractors must be registered with the County in order to be considered eligible for the Contract award. To register, Contractors may utilize "Vendor Self-Registration" web site at <http://www.purchasing.co.riverside.ca.us> and complete the on-line registration form.

Information needed in order to register:

1. User name (This person will be responsible for original registration and any future change.)
2. User Password
3. Company information including:
 - a. All Addresses (Corporate, Remit to, Sales, etc)
 - b. Company type (Corporation, partnership, sole proprietorship, etc)
 - c. Tax Identification Number (or social security number for individuals)
 - d. Status (women, minority, Disabled Veteran owned, etc)
 - e. Qualification as a local Riverside County business
 - f. Banking Information for future electronic payment processes
4. Contact Information including:
 - a. Names
 - b. Titles/Positions
 - c. Contact Numbers (Phone, Fax, Cell phone, etc
 - d. E-Mail address for future correspondences
5. List of items/services you wish to provide to the County.

PROPOSAL FORMS: Attention of all bidders is called to the proposal affidavit forms attached hereto and bidders are cautioned that all proposals submitted must be accompanied by the proper affidavit, properly executed. Proposals must be made on the form furnished by the County.

REJECTION OF PROPOSALS CONTAINING ALTERATIONS, ERASURES OR IRREGULARITIES: Proposals may be rejected if they show any alterations of form, additions not called for, conditional proposals, incomplete proposals, erasures, or irregularities of any kind. Erasures or interlineations in the proposal must be explained or noted over the signature of the bidder.

PUBLIC OPENING OF PROPOSALS: Proposals will be opened and read publicly at the time and place indicated in the Notice to Contractors. Bidders or their authorized agents are invited to be present.

DISQUALIFICATION OF BIDDERS: More than one proposal from an individual, a firm or partnership, a corporation or an association under the same or different names will not be considered. Reasonable ground for believing that any bidder is interested in more than one proposal for the work contemplated will cause the rejection of all proposals in which such bidder

is interested. If there is any reason for believing that collusion exists among the bidders, none of the participants in such collusion will be considered in awarding the contract. Proposals in which the prices appear to be unbalanced may be rejected.

ADDENDA: County reserves the right to issue Addenda to the Contract Documents at any time prior to the time set to open bids. Each potential bidder shall leave with the County its name, address, and fax number for the purpose of receiving Addenda. To be considered, a Contractor's proposal must list and take into account all issued Addenda.

AWARD OF CONTRACT: The County reserves the right to reject any and all proposals or to waive technical defects as the best interests of the County may require. Prior to award of the contract, and if requested by County, the Contractor agrees to meet with the County to review the details and calculations of the Contractor's proposal and the Contractor's understanding of any aspect of the work. The award of the Contract, if it be awarded, will be to the lowest responsible and qualified bidder on all bid items, including optional Bid Items No. 21, 22 and 23. Only one Contractor will be awarded the work for both Lamb Canyon and Badlands sites. The award, if made, will be made within approximately seven (7) to fourteen (14) days after the opening of the proposals.

BIDDERS'S CHECK OR BOND: Each proposal must be accompanied by a certified or cashier's check, or by a bid bond only on the form supplied by the County, drawn in favor of the County in an amount not less than ten percent (10%) of the total bid. This check or bond shall be given as a guarantee that the bidder, if awarded the contract, will execute and deliver the Contract, the required Payment and Performance Bonds, and the required certificates of insurance in accordance with his bid accepted by the County. In default of execution of the Contract upon award and/or delivery of said Payment and Performance Bonds and certificates of insurance, such Bid Bond or check shall be held subject to payment to the County for the difference in money between the amount of the contract with another party to perform the work, together with the cost to the County of redrafting, redrawing and publishing documents and papers necessary to obtain new bids on said work. The check or bond shall, in addition, be held subject to all other actual damages suffered by the County. The check or bond will be returned upon execution of the Contract. NO BONDS WILL BE ACCEPTED UNLESS SUBMITTED ON THE FORM SUPPLIED BY THE COUNTY.

FORFEITURE FOR FAILURE TO POST SECURITY AND EXECUTE CONTRACT: In the event the bidder, to whom an award is made, fails or refuses to post the required bonds and provide the required certificates of insurance and fails to return executed copies of the Agreement within five (5) calendar days after the prescribed forms are presented to him for signature, the County may award the work to the next best bidder, or may call for new bids.

RETURN OF PROPOSAL GUARANTEES: Within ten (10) business days after the award of the contract, the County will return the proposal guarantees accompanying those proposals that are not considered in making the award. All other proposal guarantees will be held until the contract has been fully executed and the required bonds and certificates of insurance have been provided, after which they will be returned to the respective bidders whose proposal they accompany.

CONTRACT BONDS: The Contractor shall furnish two (2) surety bonds in duplicate, one as a security for the faithful performance of the contract in the amount equal to one hundred percent (100%) of the contract price, and one as security for the payment of all persons performing labor and furnishing materials in connection with the contract. All bonds must be submitted on forms provided by the County. Bonds submitted in any other form will not be accepted. Should any surety on the Payment Bond or Performance Bond be deemed unsatisfactory by the County, Contractor shall upon notice promptly substitute new bonds satisfactory to the County. All bonds must be issued by sureties which are licensed by the State of California to issue such bonds.

SUBLETTING AND SUBCONTRACTING: Bidders are required, pursuant to the Subletting and Subcontracting Fair Practices Act (commencing with Section 4100 of the Public Contract Code), to list in their proposal the name and location of place of business of each subcontractor who will perform work or labor or render services in or about the construction of the work or improvement or a subcontractor who specially fabricates and installs a portion of the work or improvement, in excess of one-half ($\frac{1}{2}$) of one percent (1%) of the prime Contractor's total bid. Failure to list a subcontractor for a portion of the work means that the prime contractor will do that portion of the work.

"OR EQUAL": Pursuant to Division 2, Chapter 3, Article 5, commencing at Section 3400 of the Public Contract Code, all specifications shall be deemed to include the words "or equal," provided, however, that permissible exceptions shall be specifically noted in the specifications. Any "equal" proposed by the Contractor must be described in the Contractor's Proposal.

ANTI-DISCRIMINATION: It is the policy of the County that in connection with all work performed under this Contract, there be no discrimination against any prospective or active employee engaged in the work because of race, color, ancestry, national origin, religious creed, sex, age, marital status, or sexual preference. The Contractor agrees to comply with applicable Federal and California laws including, but not limited to, the California Fair Employment Practice Act, beginning with Labor Code Section 1410, and Labor Code Section 1735. In addition, the Contractor agrees to require like compliance by any subcontractors employed on the work.

CONTRACTOR'S PROPOSAL

TO THE BOARD OF SUPERVISORS OF THE COUNTY OF RIVERSIDE:

The undersigned hereby declares:

- (a) That the only persons or parties interested in this proposal as principals are the following:

(If the Contractor is a corporation, give the name of the corporation and the name of its president, secretary, treasurer, and manager. If a co-partnership, give the name under which the co-partnership does business, and the names and addresses of all copartners. If an individual, state the name and address under which the contract is to be drawn.)

- (b) That this proposal is made without collusion with any other person, firm or corporation.
- (c) That he has carefully examined the locations of the proposed work, and has familiarized himself with all of the physical, climatic or other conditions related to the work.
- (d) That he has carefully examined the attached specifications, plans, and other Contract Documents, and makes this proposal in accordance therewith.
- (e) That, if this proposal is accepted, he will enter into a written contract with the County of Riverside.
- (f) That he proposes to enter into such contract and to accept in full payment for the work actually done the prices stated in this proposal. It is understood that final payment will be based on actual quantities of material removed.

Accompanying this proposal is a certified or cashier's check or bid bond payable to the order of the County of Riverside in the sum of

_____ Dollars (\$_____)

THE REQUIRED REFERENCES AND OTHER REQUIRED DOCUMENTS MUST BE
ATTACHED TO THIS PROPOSAL

Contractor bids as follows for the Surface Drainage and Access Road Improvement Projects at the Badlands Sanitary Landfill and Lamb Canyon Sanitary Landfill located in Moreno Valley and Beaumont, Riverside County, California:

Drainage and Access Road Improvement Bid Items at the Badlands Landfill:

ITEM NO.	ITEM OF WORK	UNIT	QUANTITY	UNIT COST	TOTAL COST
1	Mobilization & Demobilization	LS	1		
2	Prepare, Implement, and Maintain SWPPP	LS	1		
3	Construct Quarry Rock Trench	LF	3,020		
4	Over-Excavation Quarry Rock Trench (if necessary)	LF	700		
5	Roadway Engineered Fill	CY	5,200		
6	Construct Asphalt Access Roadway	LF	150		
7	Asphalt Roadway Striping	LS	1		
8	Construct Quarry Rock/Base Roadway	SF	4,500		
9	Supply and Install K-Rails	EA	10		
				Total Cost	

Drainage Improvements Bid Items at the Lamb Canyon Landfill:

ITEM NO.	ITEM OF WORK	UNIT	QUANTITY	UNIT COST	TOTAL COST
10	Mobilization & Demobilization	LS	1		
11	Prepare, Implement, and Maintain SWPPP	LS	1		
12	Supply & Install 24" Wide Metal Flume Down Drains	LF	690		
13	Supply & Install 24" Wide Metal Flume Inlets	EA	7		
14	Asphalt Drainage Structures	SF	6,900		
15	Saw Cut and Replace Damaged AC	SF	700		
16	Construct 20mil LDPE Drainage Swale	LF	485		
17	Supply and Install Gravel Bags	EA	500		
18	Partial Grouted ¼ Ton Rip-Rap	SF	300		
19	Construct Earthen Diversion Berms	LF	300		
20	Supply and Install Straw Bale Check Dam	EA	20		
				Total Cost	

Drainage Improvements Bid Items at the Lamb Canyon Landfill:

OPTIONAL ITEM NO.	ITEM OF WORK	UNIT	QUANTITY	UNIT COST	TOTAL COST
21	Construct 4x1.5 Asphalt V-Ditch	LF	1,500		
22	Supply & Install 24" Wide Metal Flume Down Drains	LF	260		
23	Supply & Install 24" Wide Metal Flume Inlet	EA	2		
				Total Cost	

Total Cost for Both Sites (including Optional Items) \$ _____

Contractor acknowledges receipt of Addenda No _____.

Name of Contractor: _____

Address: _____

Telephone: _____

Contractor's License No. and Classification: _____

Signature: _____

Name: _____

Title: _____

Dated: _____

LIST OF SUBCONTRACTORS

The name and the location of the place of business of each subcontractor who will perform work or labor or render service to the Prime Contractor in or about the construction of the work or improvement, or a subcontractor who specially fabricates and installs a portion of the work or improvement, in an amount in excess of one-half ($\frac{1}{2}$) of one percent (1%) of the Prime Contractor's total bid and the portion of the work which will be done by each such subcontractor is as follows:

Item No. (s): _____

Name of Subcontractor: _____

Phone and Fax Numbers _____

Address: _____

Item No. (s): _____

Name of Subcontractor: _____

Phone and Fax Numbers _____

Address: _____

Item No. (s): _____

Name of Subcontractor: _____

Phone and Fax Numbers _____

Address: _____

Item No. (s): _____

Name of Subcontractor: _____

Phone and Fax Numbers _____

Address: _____

Item No. (s): _____

Name of Subcontractor: _____

Phone and Fax Numbers _____

Address: _____

STATEMENT OF LICENSURE

Pursuant to California Public Contract Code (commencing with Section 3300), the undersigned does certify as follows:

1. That the pocket license/certificate of licensure I have presented to County as of this date is my own license, being State of California Contractors License No. _____;
2. That said Contractors License is current and valid; and
3. That said Contractors License is of a classification appropriate to the work to be undertaken for County, a Class _____ license.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

Dated: _____

Signature: _____

Name: _____

Title: _____

AFFIDAVIT FOR INDIVIDUAL CONTRACTORS

STATE OF CALIFORNIA)

SS

COUNTY OF RIVERSIDE)

_____, being first duly sworn, deposes and says:

That he or she is the party making the foregoing proposal or bid; that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the Riverside County Waste Management Department or anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

Subscribed and sworn to before me

this ____ day of _____ 20____.

Signature of officer administering oath

**AFFIDAVIT FOR JOINT VENTURE OR COPARTNERSHIP
CONTRACTOR**

STATE OF CALIFORNIA)

SS

COUNTY OF RIVERSIDE)

_____, being first duly sworn, deposes and says:

That he or she is a member of the joint venture or co-partnership firm designated as _____ which is the party making the foregoing proposal or bid; that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the Riverside County Waste Management Department or anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

That he has been and is duly vested with authority to make and sign instruments for the joint venture or co-partnership by _____

who constitute the other members of the joint venture or co-partnership.

Subscribed and sworn to before me

this ____ day of _____ 20____.

Signature of officer administering oath

AFFIDAVIT FOR CORPORATE CONTRACTOR

STATE OF CALIFORNIA)

SS

COUNTY OF RIVERSIDE)

_____, being first duly sworn, deposes
and says:

That he or she is _____
of _____

a corporation which is the party making the foregoing proposal or bid; that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the Riverside County Waste Management Department or anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

Subscribed and sworn to before me

this ____ day of _____ 20____

Signature of officer administering oath

BID BOND

Recitals:

1. _____ (Contractor) has submitted its Contractor's Proposal to the County of Riverside, by and for the Waste Management Department, for the construction of the public work known as the Surface Drainage and Access Road Improvement Projects at the Badlands Sanitary Landfill and Lamb Canyon Sanitary Landfill in accordance with a Notice to Contractors dated _____.
2. _____ a _____ corporation, hereafter called Surety, is the surety on this Bond.

Agreement: We, Contractor as principal and Surety as surety, jointly and severally agree and state as follows:

1. The amount of the obligation of this Bond is 10% of the amount of the Contractor's Proposal and inures to the benefit of County.
2. This Bond is exonerated by (1) County rejecting said Proposal or, in the alternate, (2) if said Proposal is accepted, Contractor executes the Agreement and furnishes the Bonds and certificates of insurance as agreed to in its Proposal, otherwise it remains in full force and effect for the recovery of loss, damage and expense of County resulting from failure of Contractor to act as agreed to in its Proposal.
3. Surety, for value received, stipulates and agrees that its obligations hereunder shall in no way be impaired or affected by any extension of time within which County may accept the Proposal and waives notice of any such extension.
4. This Bond is binding on our heirs, executors, administrators, successors and assigns.

Dated: _____

By: _____

By: _____

Title: _____
(Surety)

Title: _____
(Contractor)

NOTE: This Bond must be executed by both parties with corporate seal affixed. All signatures must be acknowledge by a notary (attach acknowledgments).

AGREEMENT

THIS AGREEMENT is made as of _____ and is between the COUNTY OF RIVERSIDE (County) and THE NAME OF THE LOWEST BIDDER GOES HERE_(Contractor).

IT IS AGREED BY THE PARTIES AS FOLLOWS:

1. The Work. Contractor shall furnish all tools, equipment, apparatus, facilities, labor and material necessary to perform the work for the Surface Drainage and Access Road Improvement Projects, at the Badlands Sanitary Landfill and Lamb Canyon Sanitary Landfill in exact conformity with the Contract Documents, subject to such inspection as County deems appropriate.
2. Contract Documents. The Contract Documents for the project are:
 - (a) Notice to Contractors
 - (b) Instructions To Bidders
 - (c) Contractor's Proposal
 - (d) Agreement
 - (e) Bid Bond
 - (f) Performance Bond
 - (g) Payment Bond
 - (h) General Provisions
 - (i) Special Provisions
 - (j) Appendix A – SCAQMD Form 403-N Standard Conditions
 - (k) Appendix B – SWPPP's for the Badlands and Lamb Canyon Sanitary Landfills
 - (l) Appendix C – SWPPP Inspection Forms
 - (m) Appendix D – Project Drawings
 - (n) Any other documents included in or incorporated into the Contract Documents or in the County's bid package;
 - (o) Addenda Nos.

Each of the above-mentioned documents presently in existence are by this reference incorporated into this Agreement and each of these documents not now in existence are incorporated herein as of the time of their issuance.

3. Contract Price - Payment. **Exhibit A** is attached to and incorporated into this Agreement and states the basis for full payment for this project. Contractor represents that it fully understands the payment method for the work.

//
//
//
//
//

RIVERSIDE COUNTY WASTE
MANAGEMENT DEPARTMENT
14310 Frederick Street
Moreno Valley, CA 92553

By: _____
Hans W. Kernkamp
General Manager - Chief Engineer
COUNTY OF RIVERSIDE

By: _____
Chairman, Board of Supervisors

ATTEST:

By: _____
Nancy Romero, Clerk of the Board

By: _____
Deputy

(Seal)

Contractor

By: _____

Name: _____

Title: _____
(If corporation, attach corporate seal)

EXHIBIT A

(To Agreement for the Riverside County Waste Management Department Project, Surface Drainage and Access Road Improvement Projects at the Badlands Sanitary Landfill and Lamb Canyon Sanitary Landfill, located in Moreno Valley and Beaumont, Riverside County, California.)

It is understood that the quantities listed (except for those shown as "Lump Sum, [L.S]") are but estimates only and final payment will be based on actual quantities, whatever they may be, subject to such adjustments and alterations as elsewhere provided for in the Contract Documents.

Drainage and Access Road Improvement Bid Items at the Badlands Landfill:

ITEM NO.	ITEM OF WORK	UNIT	QUANTITY	UNIT COST	TOTAL COST
1	Mobilization & Demobilization	LS	1		
2	Prepare, Implement, and Maintain SWPPP	LS	1		
3	Construct Quarry Rock Trench	LF	3,020		
4	Over-Excavation Quarry Rock Trench (if necessary)	LF	700		
5	Roadway Engineered Fill	CY	5,200		
6	Construct Asphalt Access Roadway	LF	150		
7	Asphalt Roadway Striping	LS	1		
8	Construct Quarry Rock/Base Roadway	SF	4,500		
9	Supply and Install K-Rails	EA	10		
				Total Cost	

Drainage Improvements Bid Items at the Lamb Canyon Landfill:

ITEM NO.	ITEM OF WORK	UNIT	QUANTITY	UNIT COST	TOTAL COST
10	Mobilization & Demobilization	LS	1		
11	Prepare, Implement, and Maintain SWPPP	LS	1		
12	Supply & Install 24" Wide Metal Flume Down Drains	LF	690		
13	Supply & Install 24" Wide Metal Flume Inlets	EA	7		
14	Asphalt Drainage Structures	SF	6,900		
15	Saw Cut and Replace Damaged AC	SF	700		
16	Construct 20mil LDPE Drainage Swale	LF	485		

17	Supply and Install Gravel Bags	EA	500		
18	Partial Grouted ¼ Ton Rip-Rap	SF	300		
19	Construct Earthen Diversion Berms	LF	300		
20	Supply and Install Straw Bale Check Dam	EA	20		
				Total Cost	

OPTIONAL ITEM NO.	ITEM OF WORK	UNIT	QUANTITY	UNIT COST	TOTAL COST
21	Construct 4x1.5 Asphalt V-Ditch	LF	1,500		
22	Supply & Install 24" Wide Metal Flume Down Drains	LF	260		
23	Supply & Install 24" Wide Metal Flume Inlet	EA	2		
				Total Cost	

Total Cost for Both Sites (including Optional Items) \$ _____

PERFORMANCE BOND

Recitals:

1. _____ (Contractor)
has entered into an Agreement dated _____ with the COUNTY
OF RIVERSIDE (County) for construction of the public work known as Surface
Drainage and Access Road Improvement Projects at the Badlands Sanitary Landfill and
Lamb Canyon Sanitary Landfill (Project).
2. _____, a corporation (Surety), is the surety under this Bond.

Agreement: We, Contractor as principal, and Surety as surety, jointly and severally agree, state, and are bound unto County, as obligee, as follows:

1. The amount of the obligation of this Bond is 100% of the estimated contract price for the Project of \$ _____ and inures to the benefit of the County.
2. This Bond is exonerated by Contractor doing all things to be kept and performed by it in strict conformance with the Contract Documents for the Project, otherwise it remains in full force and effect for the recovery of loss, damage and expense of County resulting from failure of Contractor to so act. All of said Contract Documents are incorporated herein.
3. This obligation is binding on our successors and assigns.
4. For value received, Surety stipulates and agrees that no change, time extension, prepayment to Contractor, alteration or addition to the terms and requirements of the Contract Documents or the work to be performed there under shall affect its obligations hereunder and waives notice as to such matters, except the total contract price cannot be increased by more than 25% without approval of Surety. (If the total contract price is inadvertently increased by more than 25% without approval of Surety, this performance bond will remain in effect for that portion of the contract existent prior to the 25% exceedance).

THIS BOND is executed as of _____.

By: _____

By: _____

Title: _____

Title: _____

(Surety)

(Contractor)

NOTE: This Bond must be executed by both parties with corporate seal affixed. All signatures must be acknowledge by a notary (attach acknowledgments).

PAYMENT BOND

(Public Work - Civil Code, Section 3247 et seq.)

The makers of this Bond are _____ as
Principal and Original Contractor and _____ a
corporation, authorized to issue surety bonds in California, as Surety, and this bond is issued in
conjunction with that certain public works contract dated _____, between
Principal and the COUNTY OF RIVERSIDE (County), a public entity, for
\$ _____, the total amount payable. Said contract is for the public work
generally consisting of Surface Drainage and Access Road Improvement Projects at the Badlands
Sanitary Landfill and Lamb Canyon Sanitary Landfill. The beneficiaries of this Bond are as is
stated in Section 3248 of the Civil Code and Sections 3248, 3249, 3250 and 3252 of said Code.
Without notice, Surety consents to extension of time for performance, change in requirements,
amount of compensation, or prepayment under said contract.

Dated: _____

By: _____

By: _____

Title: _____
(Surety)

Title: _____
(Contractor)

NOTE: This Bond must be executed by both parties with corporate seal affixed. All signatures
must be acknowledge by a notary (attach acknowledgments).



GENERAL PROVISIONS

FOR

SURFACE DRAINAGE AND ACCESS ROAD

IMPROVEMENT PROJECTS

AT THE

BADLANDS SANITARY LANDFILL

AND

LAMB CANYON SANITARY LANDFILL

SEPTEMBER 2011

RIVERSIDE COUNTY WASTE MANAGEMENT DEPARTMENT

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1. SECTION 1 - DEFINITION OF TERMS

1.1. TERMS

Whenever in these specifications, or in any documents or instruments where these specifications govern, the following terms or pronouns in place of them are used, the intent and meaning shall be interpreted as follows:

- a) **AGENCY:** Whenever used in the Standard Specifications shall refer to County.
- b) **BOARD OF SUPERVISORS:** The Board of Supervisors of the County, also sometimes referred to as the Board.
- c) **DEPARTMENT, COUNTY, OR OWNER:** The County of Riverside, by and for the Waste Management Department.
- d) **ENGINEER:** The General Manager - Chief Engineer of the Riverside County Waste Management Department, acting either directly or through properly authorized agents, such agents acting within the scope of the particular duties entrusted to them.
- e) **LABORATORY:** The laboratories authorized by the County to test materials and work involved in the contract.
- f) **BIDDER:** Any individual, firm or corporation submitting a proposal for the work contemplated, acting directly or through a duly authorized representative.
- g) **CONTRACTOR:** The person or persons, co-partnership or corporation, private or municipal, who have entered into the Agreement with the County, or his or their legal representatives.
- h) **SUPERINTENDENT:** The executive representative of the Contractor, present on the work at all times during progress, authorized to receive and execute instruction from the County.
- i) **PLANS or PROJECT DRAWINGS:** The official plans, profiles, typical cross sections, general cross sections, working drawings, and supplemental drawings, or exact reproductions thereof, approved by the County, which show the location, character, dimension and details of the work to be done, and which are to be considered a part of the Contract Documents.
- j) **SPECIFICATIONS:** The directions, provisions, and requirements contained in the Contract Documents as to the method and manner of performing the work or to the quantities and qualities of materials to be furnished under the contract.
- k) **CONTRACT:** The written Agreement covering the work.
- l) **CONTRACT PRICE:** Shall mean either the lump sum, unit price, or unit prices named in the Agreement, or the total of all payments under the contract at the lump sum, unit price, or unit prices, as the case may be.
- m) **SURETY OR SURETIES:** The bondsmen or party or parties, approved by the County, who may guarantee the fulfillment of the contract by bond, and whose signatures are attached to said bond.

- n) **RIGHT OF WAY:** The whole right of way which is reserved for and secured for use in constructing the improvement.
- o) **THE WORK:** All the work specified in the Contract Documents.

1.2. SIMILARITY OF WORDS

Wherever in the specifications or upon the plans the words directed, required, permitted, ordered, designated, prescribed, or words of like import are used, it will be understood that the direction, requirements, permission, order, designation, or prescription of the County is intended, and similarly the words approved, acceptable, satisfactory, or works of like import, shall mean approved by, or acceptable to, or satisfactory to, the County, unless otherwise expressly stated.

2. SECTION 2 - SCOPE OF WORK

2.1. WORK TO BE DONE

The Contractor shall provide all labor, power, light, water, materials, equipment, tools, scaffolding, machinery, transportation, insurance, permits, bonds, temporary protection, watchmen, and superintendence necessary to construct and complete all work, and to furnish all materials included in the contract, except those furnished by the County as specifically stated in the Contract Documents.

The Contract Documents are complementary, and the work called for by any one shall be as binding as if called for by all.

2.2. CONSTRUCTION SCHEDULE

The Contractor shall submit to the County at least Monthly, or at such times as may be requested by the County, a schedule which shall show the order and dates in which the Contractor proposes to carry on the various parts of the work, including estimated completion dates. The County's receipt of such schedule(s) shall not indicate any concurrence by the County in the items or dates described in the schedule(s).

2.3. DRAWINGS AND SPECIFICATIONS ON THE WORK

The Contractor shall keep one copy of all drawings and specifications on the work, in good order, available to the County and its representatives.

2.4. ESTIMATE OF QUANTITIES

It is understood that the quantities listed (except for those shown as "Final" or "Lump Sum") are but estimates only and final payment will be based on actual quantities for the work whatever they may be, subject to such adjustments and alterations as elsewhere provided for in the Contract Documents. The County is not to be held responsible for the accuracy of the estimate of quantities. The Contractor shall judge for himself, after considering all circumstances and conditions, the costs and quantities of materials involved in the work.

The Contractor shall not at any time assert that there was any misunderstanding in regard to the nature of the work or the kind or amount of materials to be furnished for the work. The Contractor shall not ask, demand, sue for, or seek to recover compensation in excess of the costs or charges for the work as stated in the Agreement.

2.5. PROTESTS

If the Contractor considers any work demanded of it to be outside of the requirements of the contract, the Contractor shall immediately and before the start of such work state this in writing to the County. In such writing, the Contractor shall clearly and in detail state the basis of its protest. Except for such protests as are made of record in the manner herein specified, the records, rulings, instruction, or decisions of the County shall be final and conclusive. Written protest by the Contractor shall not in any way relieve the Contractor from proceeding with the work as directed by the County.

2.6. ALTERATIONS

The Contractor agrees that reasonable alterations and modifications may be made by the County and that this may be done without notice to the sureties on the Contractor's bonds. If such changes result in increased or decreased quantities under the items specified in the Agreement, the Contractor will be paid on the basis of actual quantities as measured by the County; and such changes shall not affect the unit prices bid by the Contractor.

2.7. EXTRA WORK

2.7.1. General

The County reserves and shall have the right to revise the details of the contemplated work, or to add work of a different character or function, and have the Contractor perform such revised or added work as "Extra Work", when such extra work is considered by the County to be appurtenant to the satisfactory completion of the project. "Extra Work" is defined as added work of a different character or function and for which no basis for payment is prescribed; or that work which is indeterminate at the time of advertising and is specifically designated as extra work. The signing of the contract by the Contractor will be deemed to be an agreement on his part to perform extra work, as and when ordered by the County. If required extra work results in delay to the work, the Contractor will be given an appropriate extension of time.

The General Manager – Chief Engineer shall have the authority to approve changes or additions in the work in accordance with Public Contract Code 20142 without Board of Supervisors approval.

2.7.2. Procedure for Extra Work

Extra work may not be done by the Contractor without prior request and proper written approval by the County. Upon decision of the County to have extra work performed, the County will so inform the Contractor, acquainting it with the details of the new work. The Contractor shall thereupon present in writing a price for said work to the County, whose written approval shall be secured before work is started; except that the County may order the Contractor to proceed with extra work in advance of the submission of such prices provided that preliminary estimates show that the cost will not exceed \$1,000.

Prices for extra work shall be prepared by the Contractor on one or both of the following methods, as requested by the County, and submitted to the County for approval:

For a stated unit price or lump sum amount based upon current prevailing fair prices for materials, labor, plant, overhead and profit.

On a cost plus 15 percent basis (force account by the Contractor). The cost of all work done by the Contractor on a cost plus 15 percent basis will be computed in the manner described in Section 7, and the compensation thus provided shall be full payment to the Contractor related to the extra work.

Upon receipt of the Contractor's price, the County will make an analysis thereof and in its discretion adopt one of the following procedures:

Accept the Contractor's price for lump sum or unit price amount in the original or amended form and direct it to proceed with the work; or direct it to perform the work on a cost plus 15 percent basis.

Have the work performed by County's forces or by separate contract.

Direct the Contractor to proceed with the work and accept payment therefore in the amount as adjudicated later in a court of law.

The price agreed to by the Contractor for the extra work shall be full compensation to the Contractor for all labor, materials, equipment or other costs related to the extra work.

2.8. PAYMENT FOR EXTRA WORK

At the end of each month the Contractor shall make and deliver to the County a statement of the cost of the extra work completed during the current month, itemized and in a form satisfactory to the County. Payment for extra work shall be added to the monthly partial payment made in accordance with Section 7.5 of the General Provisions.

2.9. RIGHTS OF WAY

The County shall provide the rights of way as specifically described in the Contract Documents upon which the work under this contract is to be done, except that the Contractor shall provide land required for the erection of temporary construction facilities and storage of his material, together with right of access to same.

2.10. CLEANING UP

The Contractor shall, as directed by the County, remove from the County's right of way and from all public and private property, at its own expense, all temporary structures, rubbish and waste materials resulting from its operations.

3. CONTROL OF THE WORK

3.1. AUTHORITY OF THE COUNTY

The County shall have general supervision of the contract under authority of the Board of Supervisors. The County has the authority to stop the work whenever such stoppage may be necessary to ensure the proper execution of the contract. The County shall decide all questions which may arise as to the quality or acceptability of materials furnished, work performed, and rate or progress of the work; all questions which may arise as to the interpretation of the plans and specifications; all questions as to the acceptable fulfillment of the contract on the part of the Contractor; and all questions as to compensation. The County's determination and decision thereon shall be final and conclusive.

3.2. DETAIL DRAWINGS

The approved plans shall be supplemented by such working drawings as are necessary to control the work adequately. All authorized alterations affecting the requirement and information given on the approved plans shall be in writing. No changes shall be made to any plan or drawing after the same has been approved by the County, except by its written direction.

Approval by the County of the Contractor's working drawings (or other documents) does not relieve the Contractor of responsibility for accuracy of dimensions, details or other requirements of the Contract Documents. It is mutually agreed that the Contractor shall be responsible for agreement and conformity of his working drawings with the approved plans and specifications. Full compensation for furnishing all working drawings shall be considered as included in the prices paid for the various contract items of work, and no additional allowance will be made therefore.

3.3. CONFORMITY WITH PLANS AND ALL ALLOWABLE DEVIATIONS

Except as otherwise specifically stated in the Contract Documents, finished surfaces in all cases shall conform exactly with the elevations, lines, grades, cross-sections, and dimensions shown or described in the Contract Documents. Any deviations must be authorized in advance in writing by the County.

3.4. INTERPRETATION OF PLANS AND SPECIFICATIONS

Should it appear that the work to be done is not sufficiently detailed or explained in the Contract Documents, the Contractor must bring this to the County's attention in writing prior to submittal of the Contractor's Proposal.

In the event of any discrepancy between any drawings and the figures written thereon, the figures shall be taken as correct. The Contractor will not be allowed to take advantage of errors and omissions in the drawings and specifications. When errors or omissions are found, they shall immediately be brought to the attention of the other party in writing.

3.5. SUPERINTENDENCE

The Contractor shall keep on his work, continually during its progress, a competent Superintendent responsible for the construction of the work, as well as any necessary assistants. All such persons shall be acceptable to the County continuously throughout the duration of the

project. The Superintendent shall represent the Contractor in his absence and all directions given to him shall be as binding as if given to the Contractor.

3.6. LINES AND GRADES

The Contractor shall provide opportunities and facilities for setting points and making measurements as requested by the County or otherwise as reasonably required. The Contractor shall not proceed until it has made timely demand upon the County for, and has received from the County, such lines and grades as may be necessary as the work progresses. The work shall be done in strict conformity with such lines and grades.

The Contractor shall carefully preserve benchmarks, reference points and stakes, and in case of willful or careless destruction, the Contractor shall be charged with the resulting expense and shall be responsible for any mistakes that may be caused by their loss or disturbance.

3.7. INSPECTION OF WORK

The County and its representatives shall at all times have access to the work and shall be furnished with every reasonable opportunity for ascertaining that the materials and workmanship are in accordance with the requirements of the Contract Documents. All work done and all materials furnished shall be subject to the County's inspection and approval.

The inspection of the work by any County representatives shall not relieve the Contractor of any of its obligations to fulfill the requirements of the Contract Documents. Defective work or unsuitable materials may be rejected, notwithstanding that such work or materials may have been previously overlooked by County representatives, accepted, or estimated for payment.

3.8. REMOVAL OF DEFECTIVE AND UNAUTHORIZED WORK

All work which has been rejected shall be remedied or removed and replaced by the Contractor in an acceptable manner; and no compensation will be allowed for such removal or replacement. Any work done beyond the lines and grades as described by the Contract Documents, or any extra work done without proper written authority, will be considered as unauthorized and will not be paid for. Work so done may be ordered removed at the Contractor's expense. Upon failure on the part of the Contractor to comply, the County shall have authority to cause defective or unauthorized work to be remedied, or removed and replaced, and to deduct the costs for this work from any monies due or to become due the Contractor.

3.9. EQUIPMENT AND PLANT

Equipment not suitable to produce the quality of work required will not be permitted to operate on the project. Plants shall be designed and constructed in accordance with general practice for such equipment and shall be of sufficient material to carry the work to completion within the time limit. The Contractor shall provide adequate and suitable equipment and plant to meet these requirements and, when ordered by the County, shall immediately remove unsuitable equipment from the work and discontinue the operation of unsatisfactory plants. No worn or obsolete equipment shall be used, and in no case shall the maker's rating of the capacity for any equipment be exceeded. All vehicles used to haul materials over existing highways shall be equipped with pneumatic tires.

3.10. FINAL INSPECTION

The County will not make the final inspection until all the work provided for and contemplated by the contract has been fully completed and the final clean up has been performed.

4. CONTROL OF MATERIAL

4.1. COUNTY FURNISHED MATERIALS

The Contractor shall furnish all materials required to complete the work, except those specified in the Contract Documents to be furnished by the County. Any materials furnished by the County will be delivered to the Contractor at the points specified in the Contract Documents. The Contractor will be held responsible for all materials so delivered to him, and deductions will be made from any monies due Contractor to make good any shortages and deficiencies, from any cause whatsoever, which may occur after such delivery, or for any demurrage charges due to delinquency in unloading.

4.2. SOURCE OF SUPPLY AND QUALITY OF MATERIALS

At the option of the County the source of supply of any materials shall be approved by the County before the delivery is started. Only materials conforming to the exact requirements of the Contract Documents and approved by the County shall be used in the work. All materials proposed for use may be inspected or tested by the County at any time during their preparation and use. If it is found that sources of supply which have been approved do not furnish a uniform product, or if the product from any source proves unacceptable at any time, the Contractor shall furnish approved material from other approved sources. No material which, after approval, subsequently becomes unfit for use shall be used in the work.

Wherever the name, or brand, or manufacturer of an item is specified, it is used as a measure of quality and utility or a standard. Except in those instances where the product is designated to match others presently in use, or as otherwise stated in the Contract Documents, specifications calling for a designated material, product, thing or service by specific brand or trade name shall be deemed to be followed by the words "or equal" so that the Contractor may propose in the Contractor's bid any equal material, product, thing or service. If the Contractor desires to use any other brand or manufacturer of equal quality or utility to that specified, he shall list definite particulars of that which it considers equivalent to the specified item in its bid. The County will then determine whether or not the proposed name brand or article is equal in quality and utility to that specified, and the County's determination in that regard shall be final and binding upon the Contractor.

4.3. SAMPLES AND TESTS

All tests of materials furnished by the Contractor shall be made by the County in accordance with commonly recognized standards of national organizations for this type of landfill project, and such special methods and tests as are in use at the County's approved laboratory or otherwise determined by the County to be needed. The County shall determine what testing is needed.

Field tests of materials will be made by the County or its representative when deemed necessary as determined by the County; and these tests shall be made in accordance with standard practices of the County or as otherwise needed.

The Contractor shall furnish samples of all materials as requested by the County without charge. No material shall be used until it has been approved by the County. Samples will be secured and tested whenever necessary as determined by the County to determine the quality of the material.

Promptly after the approval of the contract, the Contractor shall notify the County of the proposed sources of supply of all materials to be furnished by it, using a form which will be supplied by the County upon request.

Whenever reference is made to standard tests or requirements of the County, the American Society for Testing Materials, the American Railway Engineering Association or the American Association of State Highway Officials, the reference shall be construed to mean the standards that are in effect at the date the Agreement is signed with subsequent amendments, changes, or additions as thereafter adopted and published by the organization referred to.

None of the provisions stated in this section shall relieve the Contractor of its obligations as stated elsewhere in the Contract Documents.

4.4. STORAGE OF MATERIALS

Materials shall be so stored as to ensure the preservation of their quality and fitness for the work. When considered necessary by the County, they shall be placed on wooden platforms or other hard, clean surfaces and not on the ground. They shall be placed under cover when so directed by the County. Stored materials shall be so located as to facilitate prompt inspection.

4.5. DEFECTIVE MATERIALS

All materials not conforming to the exact requirements of the Contract Documents shall be considered as defective; and all such materials, whether in place or not, shall be rejected and shall be removed immediately from the site of the work. No rejected materials, the defects of which have been subsequently corrected, shall be used until approval in writing has been given by the County. Upon failure on the part of the Contractor to comply forthwith with any order of the County made under the provisions of this article, the County shall have authority to remove and replace defective material and to deduct the cost of removal and replacement from any monies due or to become due the Contractor.

4.6. ASSIGNMENT OF CLAIMS

In submitting a bid on this public works project, or any subcontractor agreeing to supply goods, services, or materials, and entering a contract pursuant thereto, the Contractor and/or subcontractors do offer and agree to assign to the County all rights, title, and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 U.S.C. Section 15) or under the Cartwright Act (Chapter 2 (commencing with Section 16700) of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, services, or materials pursuant to the public works contract or the subcontract. This assignment shall be made and become effective at the time the awarding body tenders final payment to the Contractor, without further acknowledgment by the parties.

5. LEGAL RELATIONS AND RESPONSIBILITY

5.1. LAWS TO BE OBSERVED

5.1.1. Compliance with Applicable Law

Reference to and/or incorporation into the Contract Documents of a particular law, statute, ordinance, rule or regulation is not, nor is it intended to be, a definitive statement of the law applicable to the Contract Documents and the accomplishment of the work. Contractor must keep informed as to all such applicable laws - Federal, State, County, Municipal - as they affect the conduct of the work and comply with such law, including, but not limited to, having requisite licenses, obtaining necessary permits, paying necessary fees and taxes, posting notices and installing, operating and maintaining safety precautions and facilities. It is likewise Contractor's responsibility to see to it that its subcontractors also fully comply with such applicable laws. Contractor shall protect and defend County, its officers, agents, employees and contractors against any claim or liability arising from or based upon any alleged violation of such applicable law.

5.1.2. Labor Code

The Contractor shall comply with all applicable requirements of the California Labor Code including but not limited to Labor Code, Chapter 2, Subchapter 1, Article 10, Required Apprentices on Public Works Contracts. Reference is made to Chapter 1, Part 7, Division 2 of the California Labor Code (commencing with Section 1720). By this reference said Chapter 1 is incorporated herein with like effect as if it were here set forth in full. The parties recognize that said Chapter 1 deals with, among other things, discrimination, penalties and forfeitures, their disposition and enforcement, wages, working hours and securing workers' compensation insurance and directly affect the method of prosecution of the work by Contractor and subject it under certain conditions to penalties and forfeitures. Execution of the Agreement by the parties constitutes their agreement to abide by said Chapter 1. Their stipulation as to all matters which they are required to stipulate to by the provisions of said Chapter 1, constitutes Contractor's certification that he is aware of the provisions of said Chapter 1 and will comply with them and further constitutes Contractor's certification as follows: "I am aware of the provisions of Section 3700 of the California Labor Code which requires every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that Code, and I will comply with such provisions before commencing the performance of the work of this contract." Contractor and his subcontractors shall comply with the provisions of the Labor Code regarding apprentices. Contractor shall post at each job site during the course of the work a copy of County's "Determination of Prevailing Wage Rate". Copies of this Determination are available from County for this purpose.

5.1.3. Equal Employment Opportunity

The Contractor shall comply with all applicable non-discrimination and equal employment laws. The Contractor shall not discriminate in his recruiting, hiring, promotion, demotion or termination practices on the basis of race, religious creed, color, national origin, ancestry, sex, age or physical handicap in the performance of this contract

and shall comply with the provisions of the California Fair Employment Practice Act (commencing with S1410 of the Labor Code), the Federal Civil Rights Act of 1964 (P.L. 88-352) and all amendments thereto, Executive Order No. 11246 (30 Federal Register 12319), as amended, and all administrative rules and regulations issued pursuant to said Acts and Order. See particularly 41 Code of Federal Regulation (CFR) Chapter 60.

Contractor shall require each of its subcontractors to comply with the preceding paragraph and shall include in each subcontract language similar to the preceding paragraph.

Contractor shall permit access to its records of employment, employment advertisement, application forms and other pertinent data and records (including but not limited to certified payroll information) by County and any state or federal agency having jurisdiction for the purpose of investigation to ascertain compliance with this Section.

County may assign an affirmative action representative to monitor Contractor and his subcontractor(s) conduct required by this section, including the right of entry to the construction site for the purpose of obtaining information from persons performing work on the project providing such inspection does not interfere with the progress of the work.

Elsewhere in the Contract Documents more specific requirements may be contained covering the same subject matter of this Section. If so, such more specific requirements prevail over this section in case of conflict.

Transactions of \$10,000 or under - Contracts and subcontracts not exceeding \$10,000 are exempt from the requirements of this section. No Contractor or subcontractor shall procure supplies and/or services in less than usual quantities to avoid applicability of this section. With respect to contract and subcontracts for indefinite quantities, this section applies unless the amount required in any one year under such contract will reasonably be expected not to exceed \$10,000.

Transactions in Excess of \$10,000, but less than \$50,000 - At County's request, Contractor shall certify that he has in effect an affirmative action plan and agrees to comply with all state and federal laws and regulations regarding Fair Employment Practices. Contractor shall maintain a written copy of his affirmative action plan and furnish County a copy of the Plan upon request. County may require Contractor to complete an Affirmative Action Compliance Report, on a form furnished by County, setting forth definite goals during the term of this contract.

Transactions of \$50,000 or more - If Contractor has 50 or more employees and a contract for \$50,000 or more, he shall develop and submit to County within 30 days after award, a written affirmative action compliance program providing in detail specific steps to guarantee equal employment opportunity. Contractor shall include in his affirmative action program a table of job classifications, which table shall include but need not be limited to job titles, duties and rates of pay.

Contractor shall in each subcontract let to do a portion of the work covered hereunder, where the subcontractor involved has 50 or more employees and the subcontract is for \$50,000 or more, impose in the subcontract the above requirements.

For the purpose of determining the number of employees, the average of the Contractor's or his subcontractor's employees from the 12 month period immediately prior to award, or the total number of employees contractor or its subcontractor will have when performing this contract, whichever is higher, shall be used.

Federally Assisted Construction - If this project is a federally assisted construction project, then the contract provisions contained 41 CFR S60-1.4(b) are incorporated herein and Contractor shall likewise incorporate said provisions in each subcontract entered into by Contractor to perform the work. Federally assisted construction is identified as such in the Notice Inviting Bids.

5.1.4. Registration of Contractors

In order to be considered, a prospective bidder must be licensed in accordance with Division 3, Chapter 9 (commencing with Section 7000) of the Business and Professions Code.

5.1.5. Accident Prevention

Particular attention shall be given to relevant Division of Industrial Safety Construction and Electrical Safety Orders. Said Orders are contained in Title 8 of the California Code of Regulations, Chapter 4, Subchapters 4 and 5. Specific attention shall be taken of the California Occupational Safety and Health Act of 1973 (commencing with Section 6300 of the Labor Code) and the Federal Occupational Safety and Health Act of 1970 (P.L. 91-596) and rules and regulations issued pursuant to said Acts. Specific reference is made to Article 6 of said Construction Safety Orders. Contractor shall submit to County, in advance of excavation a detailed plan showing the design of shoring, bracing, sloping of the sides of trenches, or other provisions to be made for protection of personnel during earthwork operations. In event the Contractor's plan does not conform to the shoring system requirement of Article 6, the contractor's proposed shoring design shall be prepared and signed by a civil or structural engineer registered in the State of California. The Contractor shall also impose these requirements on all subcontractors involved and enforce compliance therewith. The duties here set forth are nondelegable by Contractor.

5.2. CONTRACTOR'S RESPONSIBILITY

Contractor is under the absolute duty in fulfilling his contractual obligations hereunder to proceed, and cause his subcontractors to proceed, in a safe, workmanlike manner, with adequate safeguards for the protection of the public, the workmen and persons from time to time inspecting the work. If at any time Contractor finds any of his subcontractors are allowing work to proceed in an unsafe manner or contrary to the terms of the Contract Documents, Contractor shall immediately cause such action to stop and immediately take all action necessary to protect workmen, inspectors and the general public and cause the work to proceed in a safe manner or in accordance with the terms of the Contract Documents.

5.3. CONTRACTOR'S RESPONSIBILITY FOR WORK

Until the formal final acceptance of the completed work by the County, the Contractor shall have the charge and care of the work and shall bear the risk of injury or damage to any part of the work by the action of the weather or from any other cause, whether or not arising from the execution of the work. The Contractor shall rebuild, repair, restore, and make good all injuries or damages to any portion of the work.

5.4. PROPERTY RIGHTS IN MATERIALS

Nothing in the contract shall be construed as vesting in the Contractor any right of property in the materials used after they have been attached or affixed to the work or the soil. All such materials shall become the property of the County upon being so attached or affixed.

5.5. PERMITS AND LICENSES

The Contractor shall procure all permits and licenses (including but not limited to: National Pollution Discharge Elimination System (NPDES) and South Coast Air Quality Management District (AQMD) permit requirements), pay all charges and fees, and give all notices necessary and incident to prosecution of the work.

5.6. ROYALTIES AND PATENTS

The Contractor shall assume all costs arising from the use of patented materials, equipment, devices, or processes used on or incorporated in the work, and agrees to indemnify and save harmless the County and its duly authorized representatives, from all suits at law, or actions of every nature for, or on account of, the use of any patented materials, equipment, devices, or processes.

5.7. SANITARY PROVISIONS

Necessary conveniences, properly secluded from public observation, shall be provided by the Contractor where needed for the use of laborers on the work. Their location, construction and maintenance shall be subject to the approval of the County. The Contractor shall obey and enforce such sanitary regulations as may be prescribed by the State Department of Health or other authorities having jurisdiction.

5.8. PUBLIC SAFETY

The Contractor at its own expense shall furnish, erect, and maintain such fences, barriers, lights, and signs as are necessary to give adequate warning to the public at all times that the work is under construction; and the Contractor shall erect such warning and directional signs and employ such flagmen as are required and shall maintain same throughout the construction period. Full compensation for the work involved in carrying out the precautionary measures above specified shall be considered as included in the prices paid for the various contract items of work and no additional payment will be made therefore.

5.9. USE OF EXPLOSIVES

When the use of explosives is necessary for the prosecution of the work, the Contractor shall use the utmost care not to endanger life or property. All explosives shall be stored in accordance with the provisions of Division II Part I, Chapter 3, of the Health and Safety Code of the State of California and other applicable laws or regulations.

5.10. PROVISIONS FOR EMERGENCIES

Unusual conditions may arise on the work which will require that immediate and unusual provisions be made to protect the public from danger or loss or damage to life or property, and it is part of the service required of the Contractor to make such provisions and to furnish such protection.

The Contractor shall use such foresight and shall take such steps and precautions as its operations make necessary to protect the public from danger or damage, or loss of life or property.

Whenever work is undertaken pursuant to this Section, Contractor shall promptly file with County a verified report setting forth the nature of the emergency and the action taken by the Contractor by reason of the emergency.

Whenever, in the opinion of the County, an emergency exists against which the Contractor has not taken sufficient precaution for the safety of the public or the protection of utilities or of adjacent structures or property which may be injured or damaged because of the Contractor's work; and, in the opinion of the County, immediate action shall be considered necessary in order to protect public or private, personal or real property interests, or prevent likely loss of human life or damage; then the County may provide suitable protection to said interests by causing such work to be done and material to be furnished as, in the opinion of the County, may seem reasonable and necessary. The cost and expense of all such emergency work shall be borne by the Contractor, and if he shall not pay said cost and expense upon presentation of the bills therefore, duly certified by the County, then said cost and expense will be paid by the County and shall thereafter be deducted from any amounts due or which may become due said Contractor. Failure of the County, however, to take such precautionary measures, shall not relieve the Contractor of its full responsibility for public safety.

5.11. UNFORESEEN DIFFICULTIES

The risk of all loss or damage, except as noted in Section 8.4, arising out of the work, or from any unforeseen obstructions or difficulties which may be encountered during the progress of the work, or from the action of the weather, or from encumbrances in the line of work, shall be the responsibility of the Contractor.

5.12. ACCESS TO THE WORK

Unless provided for in the Special Provisions, access to the work from existing roads shall be provided by the Contractor at its expense and maintained in a manner so as not to create a public nuisance. The County assumes no responsibility for the condition or maintenance of any existing road or structure thereon that may be used by the Contractor for performing the work or for traveling to and from the site of the work. No additional payment will be made to the Contractor for constructing any temporary road used for construction operations or for improving, repairing, or maintaining any existing road or structure thereon that may be used by the Contractor for performance of the work under these specifications. The cost of all work described in this paragraph shall be included in the prices bid in the schedule for other items of construction work.

5.13. GUARANTEE OF WORK

All work shall be guaranteed by Contractor for a period of two (2) years from the recordation of the Notice of Completion against any defects, including but not limited to those resulting from the use of inferior materials, equipment, or workmanship. Upon notice from County, Contractor shall promptly remedy such defects at its expense, including payment to County of its expenses in connection with such defects; otherwise County shall proceed to remedy such defects and Contractor shall reimburse County for its expenses.

This guarantee is in addition to any specific guarantee(s) provided for elsewhere in the Contract Documents or provided by manufacturers or suppliers.

5.14. SURETY OF GUARANTEE

The performance of guarantee and conditions specified in Section 5.13., shall be secured by a surety bond which shall be delivered by the Contractor to the County prior to the date on which final payment is made to the Contractor. Said bond shall be in an approved form and executed by a surety company or companies satisfactory to the County, in the amount of 10 percent of the final contract price. Said bond shall remain in force for the duration of the guarantee period specified in Section 5.13. Instead of providing such a bond as described above, the Contractor may, at its option, provide for the performance bond furnished under the contract to remain in force for said amount until the expiration of said guarantee period; and the amount of said performance bond may be reduced to 10 percent of the final contract price beginning at the time of recordation of the Notice of Completion.

5.15. DAMAGES BY ACT OF GOD

If the construction of the project herein is damaged, which damage is determined to have been proximately caused by an act of God, in excess of 5% of the contract amount, provided that the work damaged is built in accordance with applicable building standards and the plans and specifications, then the County may, without prejudice to any other right or remedy, terminate the contract.

6. PROSECUTION AND PROGRESS

6.1. PROGRESS OF THE WORK

The Contractor shall begin the work within ten (10) calendar days after the date of receipt by Contractor of notice to proceed from the County and shall diligently and continuously prosecute the same to completion within the time limit provided in the Special Provisions.

6.2. OVERTIME WORK AND WORK AT NIGHT

The Contractor shall conduct the work on a five (5) day, forty (40) hour work week with no work on legal holidays (as further described in the Special Provisions). If the Contractor feels it is necessary to work more than the normal 40 hour work week, he will make a written request for permission from the County, outlining the reasons for such request. The decision of granting permission for overtime work shall be in the sole discretion of the County; and the decision of the County shall be final. If granted, a condition will be imposed requiring the Contractor to pay the County the cost incurred at overtime rates for additional inspection and engineering time required in connection with the overtime work.

When any work is performed at night, only such classes of work shall be done as can be properly inspected. Adequate light must be provided for the safety of the workers and for proper inspection.

6.3. SUBCONTRACTING

Reference is made to the Subletting and Subcontracting Fair Practice Act contained in the California Public Contract Code (commencing with Section 4100). By this reference, said Act is incorporated herein with like effect as if it were here set forth in full and the parties shall abide by its terms and substitution shall be only as allowed by that Act. County reserves the right to approve all subcontractors whether or not they are required to be listed in the Contractor's Proposal.

Contractor shall be responsible for the acts and omissions of its subcontractors and shall make certain that at all times its subcontractors comply with the terms of the Contract Documents and applicable law. Where a portion of the work which has been subcontracted by the Contractor is not being prosecuted in a manner satisfactory to the County, the subcontractor shall be removed immediately on the request of the County and shall not again be employed on the work.

The Contractor shall give its personal attention to the fulfillment of the contract and shall keep the work under its control. The Contractor shall perform with its own organization work of a value amounting to not less than 50 percent of the remainder obtained by subtracting from the total original contract value the sum of any item designated herein or in the Special Provisions as Specialty Items. The furnishing and placing of reinforcing steel, when placing is performed by the supplier, will be considered as a Specialty Item for this purpose; however, he shall be designated in the list of subcontractors. The value of the work subcontracted will be based on the contract item bid price, if any subdivision of a contract unit is subcontracted, the entire unit shall be considered as subcontracted.

6.4. CHARACTER OF WORKMEN

If any subcontractor or person employed by the Contractor shall fail or refuse to carry out the directions of the County or shall appear to the County to be incompetent or to act in a disorderly or improper manner, he/she shall be discharged immediately upon the request of the County and such person shall not again be employed on this work.

6.5. TEMPORARY SUSPENSION OF THE WORK

The County shall have the authority to suspend the work wholly or in part, for such period as the County may deem necessary, due to unsuitable weather, or to such other conditions as are considered unfavorable for the suitable prosecution of the work, or for such time as the County may deem necessary due to the failure on the part of the Contractor to properly perform the work. The Contractor shall immediately comply with the order of the County to suspend the work wholly or in part. The work shall be resumed when conditions are favorable or methods are corrected, as ordered or approved by the County.

6.6. TIME FOR COMPLETION AND LIQUIDATED DAMAGES

The Contractor shall complete the work called for under the contract in all parts and requirements within the number of working days specified in the Special Provisions. Liquidated damages shall apply as stated in the Special Provisions.

A working day is hereby defined as any day (except Saturdays, Sundays, legal holidays, and days on which the Contractor is specifically required by the Special Provisions to suspend construction operations) on which the Contractor is not prevented by inclement weather or resulting conditions from proceeding with at least 60 percent of the normal labor and equipment force engaged in the controlling operation or operations for at least five hours.

The County will furnish the Contractor a weekly statement showing the number of working days charged to the contract for the preceding week, the number of working days specified for completion of the contract, and the number of working days remaining to complete the contract. The Contractor will be allowed one week in which to file a written protest setting forth in what respects the weekly statement is incorrect, otherwise the statement shall be deemed to have been accepted by the Contractor as correct.

The following holidays will be considered as legal holidays: New Year's Day; Martin Luther King Jr. Birthday, Lincoln's Birthday; Washington's Birthday (observed); Memorial Day; Independence Day; Labor Day; Columbus Day; Veteran's Day; Thanksgiving Day; Christmas; and such other days as are declared County holidays by ordinance passed by the Board of Supervisors. Please refer to specific holiday dates listed in the Special Provisions.

Contractor acknowledges that failure to perform in strict accordance with the Contract Documents and within the time limits specified in the Special Provisions will cause County to suffer special damages in addition to cost of completion of the work in accordance with the provisions of the Contract Documents. Such special damage could include, but is not limited to, lease and rental cost, additional salaries and overhead, interest during construction, attorney expense, additional engineering, inspection expense, cost of maintaining or constructing alternate facilities, and injury to the property of the County or others. Such special damage could also

include penalties assessed against the County by other governmental agencies for failure to have the project completed in a timely manner or as required by law. The County may withhold from any money due or that may become due the Contractor under the contract such amount as the County may elect to offset the damages incurred. Any withholding or failure to withhold shall not in any way limit recovery for damages actually incurred.

It is further agreed that in case the work called for under the contract is not finished and completed in all parts and requirements within the time specified, the County (in its sole discretion) shall have the right to extend the time for completion or not. If the County decides to extend the time limit for the completion of the contract, the County shall further have the right to charge to the Contractor and to deduct from the Contractor's payment all or any part of the actual cost of engineering, inspection, superintendence, and other related expenses caused by the Contractor's failure to complete the project as required. Liquidated damages shall apply as stated in the Special Provisions.

6.7. DELAYS AND EXTENSION OF TIME

If delays are caused by unforeseen causes beyond the control of either the Contractor or the County, such as war, strikes, fire, floods, or other action of the elements, such delays will entitle the Contractor to an equivalent extension of time for the completion of the contract but not damages or additional payments over the contract price. Furthermore, if the Contractor suffers any delay caused by the failure of the County to furnish the necessary right of way or materials agreed to be furnished by it, or by failure to supply necessary plans or instructions concerning the work to be done after written request therefore has been made, the Contractor shall be entitled to an extension of time equivalent to the time lost for any of the above-mentioned reasons but shall not be entitled to any damages for such delay.

6.8. ASSIGNMENT

The contract may be assigned only upon prior written consent of the County. Such written consent to sublet, assign or otherwise dispose of any portion of the contract, shall not be construed to relieve the Contractor of any responsibility for the fulfillment of the contract.

6.9. TERMINATION OF CONTRACT

If the Contractor fails to begin delivery of material and equipment or to commence work within the time specified herein, or to maintain the rates of delivery of materials, or to execute the work in the proper manner, written notice by the County may be served upon the Contractor demanding compliance with the contract. If the Contractor refuses or neglects to comply with such notice within five (5) working days after receipt of the notice, then the County may take possession of the work, together with all material and equipment thereon, and may complete the work itself in the manner the County determines to be appropriate. The cost of the completion of the work shall be charged against the Contractor and its surety and may be deducted from any money due to the Contractor; and if the sums due under the contract are insufficient, the Contractor and/or its surety shall pay to the County within five (5) working days after the completion of the work all of such cost in excess of the contract price.

7. PAYMENT

7.1. SCOPE OF PAYMENTS

The compensation described in the Agreement shall be complete and full payment to the Contractor for furnishing all materials, labor, tools, equipment and related items necessary to complete the work; and for all obligations imposed upon the Contractor pursuant to the Contract Documents. Neither the payment of any estimate nor of any retained percentage shall relieve the Contractor of any obligation to make good any defective work or material.

7.1.1. Measurement and Computation of Quantities

Unless otherwise stated, all items of the work to be paid for at a contract price per unit of measurement will be measured by the County in accordance with United States Standard Measures. A ton shall mean 2,000 pounds, avoirdupois. Except as otherwise expressly provided in the specifications, the methods of measurement and computation of quantities will be determined by the County.

The weights of metalwork, and other metal parts to be paid for by weight will be determined by the County on the basis of handbook weights, scale weights, or manufacturer's catalog weights, or in the absence of any of the foregoing, on the basis of estimated weights; provided, that weights of nonmetallic coatings will be excluded.

7.1.2. Payment at Contract Prices

The contract price for an item of the work shall include full compensation for all costs of that item, including the costs of any work, materials and equipment incidental to the item but not specifically shown or described in the Contract Documents.

The contract prices shall include full compensation for all costs of any work, materials, and equipment required by the Contract Documents, but not covered by a contract price or otherwise expressly made the subject of direct payment.

7.2. PAYMENT AND COMPENSATION FOR ALTERED QUANTITIES

When alterations in plans or quantities of work are ordered and performed, the Contractor agrees to accept payment in full at the contract unit price for the actual quantities of work done; and no additional payment will be made for anticipated profits.

7.3. FORCE ACCOUNT PAYMENT

When extra work is to be paid for on a force account basis, compensation will be determined as follows:

7.3.1. Work Performed by Contractor

The Contractor will be paid for labor, materials, and equipment rental as hereinafter provided, except where agreement has been reached to pay in accordance with Section 7.3.2. Only materials incorporated in the work will be paid for.

To the total computed as provided in Section 7.3.1.1, 7.3.1.2 and 7.3.1.3 will be added the following percentages:

Labor -- 24 percent
Materials -- 15 percent
Equipment Rental -- 15 percent

It is understood labor, materials, and equipment may be furnished by the Contractor or by the subcontractor or by others on behalf of the Contractor.

When extra work paid for on a force account basis is performed by forces other than the Contractor's organization, the Contractor shall reach agreement with such other forces as to the distribution of the payment made by the County for such work and no additional payment therefore will be made by the County.

7.3.1.1. Labor

The Contractor will be paid the cost of labor for the workmen (including foremen when authorized by the County), used in the actual and direct performance of the work. The cost of labor, whether the employer is the Contractor, subcontractor, or other forces, will be the sum of the following:

7.3.1.1.1. Actual Wages

The actual wages paid shall include any employer payments to or on behalf of the workmen for health and welfare, pension, vacation, and similar purposes.

7.3.1.1.2. Labor Surcharge

To the actual wages as defined in Section 7.3.1.1.1., will be added a labor surcharge set forth in the Special Provisions, which labor surcharge shall constitute full compensation for all payments imposed by State and Federal laws and for all other payments made to, or on behalf of, the workmen, other than actual wages as defined in Section 7.3.1.1.1 and subsistence and travel allowance as specified in Section 7.3.1.1.3.

7.3.1.1.3. Subsistence and Travel Allowance

Subsistence and travel allowance paid to such workmen as required by collective bargaining agreements.

7.3.1.2. Materials

The cost of materials incorporated in the work will be the cost to the purchaser, whether Contractor, subcontractor or other forces, from the supplier thereof, except as the following are applicable:

- (a) If a cash or trade discount by the actual supplier is offered or available to the purchaser, it shall be credited to the County notwithstanding the fact that such discount may not have been taken.

- (b) If the materials are procured by the purchaser by any method which is not a direct purchase from and a direct billing by the actual supplier to such purchaser, the cost of such materials shall be deemed to be the price paid to the actual supplier as determined by the County. No markup except for actual costs incurred in the handling of such materials will be permitted.
- (c) If the materials are obtained from a supply or source owned wholly or in part by the purchaser, payment therefore will not exceed the price paid by the purchaser for similar materials furnished from said source on contract items or on the current wholesale price for such materials delivered to the job site whichever price is lower.
- (d) If the cost of such materials is, in the opinion of the County, excessive, then the cost of such materials shall be deemed to be the lowest current wholesale price at which such materials are available in the quantities concerned delivered to the job site, less any discounts as provided in Section 7.3.1.2(a).
- (e) If the Contractor does not furnish satisfactory evidence of the cost of such materials from the actual supplier thereof, the cost shall then be determined in accordance with Section 7.3.1.2(d).

The County reserves the right to furnish such materials as it deems advisable, and the Contractor shall have no claims for costs and profit on such materials.

7.3.1.3. Equipment Rental

The Contractor will be paid for the use of equipment at the rental rates listed for such equipment in the Special Provisions regardless of ownership and any rental or other agreement, if such may exist, for the use of such equipment entered into by the Contractor. If it is deemed necessary by the County to use equipment not listed in the Special Provisions, a suitable rental rate for such equipment will be established by the County. The Contractor may furnish any cost data which might assist the County in the establishment of such rental rate.

The rental rates paid as above provided shall include the cost of fuel, oil, lubrication, supplies, necessary attachments, repairs and maintenance of any kind, depreciation, storage, insurance, and all incidentals.

Operators of rented equipment will be paid for as provided under Section 7.3.1.1

All equipment shall, in the opinion of the County, be in good working condition and suitable for the purpose for which the equipment is to be used.

Unless otherwise specified, manufacturer's ratings and manufacturer approved modifications shall be used to classify equipment for the determination of applicable rental rates. Equipment which has no direct power unit shall be powered by a unit of at least the minimum rating recommended by the manufacturer.

Individual pieces of equipment or tools having a replacement value of \$25.00 or less, whether or not consumed by use, shall be considered to be small tools and no payment will be made therefore.

Rental time will not be allowed while equipment is inoperative due to breakdowns.

In computing the rental time of equipment, less than 30 minutes shall be considered ½ hour.

7.3.1.3.1. Equipment on the Work

The rental time to be paid for equipment on the work shall be the time the equipment is in operation on the extra work being performed, and in addition, shall include the time required to move the equipment to location of the extra work and return it to the original location or to another location requiring no more time than that required to return it to its original location, except that moving time will not be paid for if the equipment is used at the site of the extra work on other than such extra work. Loading and transporting costs will be allowed, in lieu of moving time, when the equipment is moved by means other than its own power, except that no payment will be made if the equipment is used at the site of the extra work on other than such extra work.

7.3.1.3.2. Equipment not on the Work

For the use of equipment moved in on the work and used exclusively for extra work paid for on a force account basis, the Contractor will be paid the rental rates listed in the Special Provisions or as agreed to as provided in Section 7.3.1.3 and for the cost of transporting the equipment to the location of the work and its return to its original locations, all in accordance with the following provisions:

- (i) The original location of the equipment to be hauled to the location of the work shall be agreed to by the County in advance.
- (ii) The County will pay the costs of loading and unloading such equipment.
- (iii) The cost of transporting equipment on low bed trailers shall not exceed the hourly rates charged by established haulers.
- (iv) The cost of transporting equipment shall not exceed the applicable minimum established rates of the Public Utilities Commission.
- (v) The rental period shall begin at the time the equipment is unloaded at the site of the extra work, shall include each day that the equipment is at the site of the extra work, excluding Saturdays, Sundays, and legal holidays unless the extra work is performed on such days, and shall terminate at the end of the day on which the County directs the Contractor to discontinue the use of such equipment. The rental time to be paid per day will be in accordance with the following:

Hours In	Hours to be Paid
0	4
0.5	4.25
1	4.5
1.5	4.75
2	5
2.5	5.25
3	5.5
3.5	5.75
4	6
4.5	6.25
5	6.5
5.5	6.75
6	7
6.5	7.25
7	7.75
8	8
Over 8	Hours in operation

When hourly rates are listed, less than 30 minutes of operation shall be considered to be ½ hour of operation.

When daily rates are listed, payment for ½ day will be made if the equipment is not used. If the equipment is used, payment will be made for one day.

The minimum rental time to be paid for the entire rental period on an hourly basis shall not be less than 8 hours or if on a daily basis shall not be less than one day.

- (i) Should the Contractor desire the return of the equipment to a location other than its original location, the County will pay the cost of transportation in accordance with the above provisions, provided such payment shall not exceed the cost of moving the equipment to the work.
- (ii) Payment for transporting, loading and unloading equipment, as above provided, will not be made if the equipment is used on the work in any other way than upon extra work paid for on a force account basis.

7.3.2. Work Performed by Special Forces or Other Special Services

When the County and the Contractor, by advance agreement, determine that a special service or an item of extra work cannot be performed by the forces of the Contractor or those of any of his subcontractors, such service or extra work item may be performed by a specialist. Invoices for such service or item of extra work on the basis of the current market price thereof may be accepted without complete itemization of labor, material, and equipment rental costs when it is impracticable and not in accordance with the established practice of the special service industry to provide such complete itemization.

In those instances wherein a Contractor is required to perform extra work necessitating a fabrication or machining process in a fabrication or machine shop facility away from the job site, the charges for that portion of the extra work performed in such facility may, by agreement, be accepted as a specialist billing.

To the specialist invoice price, less a credit to the County for any cash or trade discount offered or available, whether or not such discount may have been taken, will be added 15 percent in lieu of the percentages provided in Section 7.3.1.

7.3.3. Records

The Contractor shall maintain his records in such manner as to provide a clear distinction between the direct costs of extra work paid for on a force account basis and the costs of other operations.

The Contractor shall furnish the County (on a form provided by the County) report sheets in duplicate of each day's extra work paid for on a force account basis no later than the working day following the performance of said work. The daily report sheets shall itemize the materials used, and shall cover the direct costs of labor and the charges for equipment rental, whether furnished by the Contractor, subcontractor, or other forces, except for charges described in Section 7.3.2. The daily report sheets shall provide names or identifications and classifications of workmen, the hourly rate of pay and hours worked, and also the size, type and identification number of equipment, and hours operated.

Materials charges shall be substantiated by valid copies of vendor's invoices. Such invoices shall be submitted with the daily report sheets, or if not available, they shall be submitted with subsequent daily report sheets. Should said vendor's invoices not be submitted within 15 days after acceptance of the work, the County reserves the right to establish the cost of such materials at the lowest current wholesale prices at which said materials are available in the quantities concerned delivered to the location or the work, less any discounts provided in Section 7.3.1.2(a).

Daily report sheets shall be signed by the Contractor or its authorized agent.

The County will compare its records with the daily report sheets furnished by the Contractor, make any necessary adjustments, and compile the costs of work paid for on a force account basis on daily extra work report forms furnished by the County. When these daily extra work reports are agreed upon and signed by both parties, they shall become the basis of payment for the work performed, but shall not preclude subsequent adjustment based on a later audit.

The Contractor's cost records pertaining to work paid for on a force account basis shall be open to inspection or audit by representatives of the County, during the life of the contract and for a period of not less than 18 months after the date of acceptance thereof, and the Contractor shall retain such records for that period. Where payment for materials or labor is based on the cost thereof to forces other than the Contractor, the Contractor expressly guarantees that the cost records of such other forces shall be open to inspection

and audit by representatives of the County on the same terms and conditions as the cost records of the Contractor. If an audit is to be commenced more than 60 days after the acceptance date of the contract, the Contractor will be given a reasonable notice of the time when such audit is to begin.

7.3.4. Payment

Payment as provided above in Sections 7.3.1 and 7.3.2 shall constitute full compensation to the Contractor for performance of work paid for on a force account basis and no additional compensation will be allowed therefore.

7.4. ACCEPTANCE

The work shall be inspected for final acceptance by the County promptly upon receipt of notice in writing from the Contractor that the completed work is ready for such inspection.

7.5. PARTIAL PAYMENTS

On or about the last day of each month, the County shall make an estimate in writing of the total amount of work done by the Contractor to the time of such estimate and the value thereof. The County shall retain 10 percent (10%) of such estimated value of the work or partial payment for the fulfillment of the contract by the Contractor. The County may reduce the retention from 10% to 5% if, the project is more than 50% completed, no stop notices have been received, the project is proceeding as scheduled, and the County has accepted the work.

After deducting all previous payments and all sums to be kept or retained under the provisions of the contract or applicable law, the County shall make monthly progress payments to the Contractor. No such estimate or payment shall be required to be made when, in the judgment of the County, the work is not proceeding properly. No payment shall be required to be made by the County unless and until all required submittals have been delivered to the County, including but not limited to the following: certified payroll information (at a frequency specified in the Special Provisions, if project is a prevailing wage contract), construction schedule updates as listed in Section 2.2, and National Pollution Discharge and Elimination System permit requirements and frequencies as stated in Special Provisions.

In accordance with Public Contract Code Section 22300 and other applicable law, the Contractor may substitute securities for any monies withheld to ensure performance under the contract. Such substitution shall be made only upon a separate agreement between the County Board of Supervisors and the Contractor which contains terms and conditions in compliance with all laws applicable to monies withheld under the contract.

7.6. DELAYED PAYMENTS

All the monies due the Contractor under the contract will be paid by the Treasurer of the County of Riverside, prepared and approved as required by law; and it is understood that any delay in the preparation, approval and payment of these demands will not constitute a breach of the County's obligations.

7.7. FINAL PAYMENT

The County, after completion of the work, and submittal of any final documents or reports required by the Special Provisions, shall make a final estimate in writing to the County Board of Supervisors of the amount of work done and the value of such work; and pursuant to order of the Board of Supervisors the County shall pay the sum found to be due after deducting therefrom all previous payments and all amounts to be kept and retained under the provisions of the contract or applicable law. All prior partial estimates and payments shall be subject to correction in the final estimate and payment. The withheld retention funds shall not be due and payable to the Contractor until the expiration of thirty-five (35) days after the date of approval by the Board of Supervisors and recordation of the notice of completion.

The Contractor agrees that no certificate given or payments made under the contract except the final payment and approval by the Board of Supervisors shall be conclusive evidence of the performance of the contract. No payment shall be construed to be an acceptance of any defective work or improper materials.

The Contractor agrees that payment of the final amount due under the contract will be withheld until the guarantee of work as required in Section 5.14 herein is accepted by the County in approved form.

The Contractor's agreement to the final payment shall release the County, including its officers, employees, agents and contractors, from any and all claims from the Contractor for further or additional compensation related to the work.

7.8. CLAIMS RESOLUTION

In accordance with Public Contract Code Section 20104 - 20104.8 and other applicable law, public works claims of \$375,000 or less which arise between the Contractor and the County shall be resolved following the statutory procedure unless the County has elected to resolve the dispute pursuant to Public Contract Code 10240 et seq.

7.8.1. Submission of Claims

All claims shall be submitted in writing and accompanied by substantiating documentation. Claims must be filed before processing of the final payment unless other notice requirements are provided in the contract. "Claim" means a separate demand by the claimant for (1) a time extension, (2) payment of money or damages arising from work done by or on behalf of the claimant and payment of which is not otherwise expressly provided for or the claimant is not otherwise entitled, or (3) an amount the payment of which is disputed by the County.

7.8.1.1. Claims Under \$50,000.00

The County shall respond in writing to the claim within 45 days of receipt of the claim, or, the County may request, in writing, within 30 days of receipt of the claim, any additional documentation supporting the claim or relating to defenses or claims the County may have. If additional information is needed thereafter, it shall be provided upon mutual agreement of the County and the claimant. The County's written response shall be submitted 15 days after receiving the additional

documentation, or within the same period of time taken by the claimant to produce the additional information, whichever is greater.

7.8.1.2. Claims over \$50,000.00 but less than or equal to \$375,000.00

The County shall respond in writing within 60 days of receipt, or, may request in writing within 30 days of receipt of the claim, any additional documents supporting the claim or relating to defenses or claims the County may have against the claimant. If additional information is needed thereafter, it shall be provided pursuant to mutual agreement between the County and the claimant. The County's response shall be submitted within 30 days after receipt of the further documents, or within the same period of time taken by the claimant to produce the additional information or documents, whichever is greater.

7.8.2. Meet and Confer

If the claimant disputes the County's response, or if the County fails to respond within the statutory time period, the claimant may so notify the County within 15 days of the receipt of the response or the failure to respond, and demand an informal conference to meet and confer for settlement. Upon such demand, the County shall schedule a meet and confer conference within 30 days.

7.8.3. Filing of Claims

If following the meet and confer conference, the claim or any portion thereof remains in dispute, the claimant may file a claim pursuant to Government Code 900 et seq. and Government Code 910 et seq.

7.8.4. Mediation and Judicial Arbitration

If a civil action is filed to resolve any claim, the provisions of Public Contract Code 20104.4 shall be followed providing for nonbinding mediation and judicial arbitration.

7.8.5. Location for Filing of Claims, Jurisdiction

Any legal action related to the performance of the work or the terms of the Contract Documents shall be filed only in the Superior Court of the State of California located in Riverside, California.

8. GENERAL

8.1. COOPERATION BETWEEN CONTRACTORS

The Contractor shall fully cooperate and coordinate its work with all utility and public agency representatives engaged in construction, relocation, altering or otherwise rearranging any facilities interfering with the progress of the work, and with any other contractors working at or near the project site. Full compensation for any delay or inconvenience to the Contractor's operation due to such operations shall be considered included in the prices for the other items of work and no additional allowance will be made therefore.

8.2. HOLD HARMLESS / INDEMNIFICATION

CONTRACTOR shall indemnify and hold harmless the County of Riverside, its Agencies, Districts, Special Districts and Departments, their respective directors, officers, Board of Supervisors, elected and appointed officials, employees, agents and representatives from any liability claim, action, or damages whatsoever, based or asserted upon any services of CONTRACTOR, its officers, employees, subcontractors, agents or representatives arising out of or in any way relating to this Agreement, including but not limited to property damage, bodily injury, or death or any other element of any kind or nature whatsoever arising from the performance of CONTRACTOR, its officers, agents, employees, subcontractors, agents or representatives relating to this Agreement. CONTRACTOR shall defend, at its sole expense and pay all costs and fees including, but not limited to attorney fees cost of investigation, defense and settlements or awards, the County of Riverside, its Agencies, Districts, Special Districts and Departments, their respective directors, officers, Board of Supervisors, elected and appointed officials, employees, agents and representatives in any claim or action to which this indemnification and hold harmless obligation applies.

With respect to any action or claim subject to indemnification herein by CONTRACTOR, CONTRACTOR shall, at their sole cost, have the right to use counsel of their own choice and shall have the right to adjust, settle, or compromise any such action or claim without the prior consent of COUNTY; provided, however, that any such adjustment, settlement or compromise in no manner whatsoever limits or circumscribes CONTRACTOR'S indemnification to COUNTY as set forth herein.

CONTRACTOR'S obligation hereunder shall be satisfied when CONTRACTOR has provided to COUNTY the appropriate form of dismissal relieving COUNTY from any liability for the action or claim involved.

The specified insurance limits required in this Agreement shall in no way limit or circumscribe CONTRACTOR'S obligations to indemnify and hold harmless the COUNTY herein from third party claims.

In the event there is conflict between this clause and California Civil Code Section 2782, this clause shall be interpreted to comply with Civil Code 2782. Such interpretation shall not relieve the CONTRACTOR from indemnifying the COUNTY to the fullest extent allowed by law.

8.3. INSURANCE

Without limiting or diminishing the CONTRACTOR'S obligation to indemnify or hold the COUNTY harmless, CONTRACTOR shall procure and maintain or cause to be maintained, at its sole cost and expense, the following insurance coverage's during the term of this Agreement.

8.3.1. Workers' Compensation:

If the CONTRACTOR has employees as defined by the State of California, the CONTRACTOR shall maintain statutory Workers' Compensation Insurance (Coverage A) as prescribed by the laws of the State of California. Policy shall include Employers' Liability (Coverage B) including Occupational Disease with limits not less than \$1,000,000 per person per accident. The policy shall be endorsed to waive subrogation in favor of The County of Riverside, and, if applicable, to provide a Borrowed Servant/Alternate Employer Endorsement.

8.3.2. Commercial General Liability:

Commercial General Liability insurance coverage, including but not limited to, premises liability, contractual liability, products and completed operations liability, personal and advertising injury, cross liability coverage and employment practices liability, covering claims which may arise from or out of CONTRACTOR'S performance of its obligations hereunder. Policy shall name the County of Riverside, its Agencies, Districts, Special Districts, and Departments, their respective directors, officers, Board of Supervisors, employees, elected or appointed officials, agents or representatives as Additional Insureds. Policy's limit of liability shall not be less than \$1,000,000 per occurrence combined single limit and \$2,000,000 annual aggregate. If such insurance contains a general aggregate limit, it shall apply separately to this agreement or be no less than two (2) times the occurrence limit.

8.3.3. Vehicle Liability:

If CONTRACTOR'S vehicles or mobile equipment are used in the performance of the obligations under this Agreement, then CONTRACTOR shall maintain liability insurance for all owned, non-owned or hired vehicles so used in an amount not less than \$1,000,000 per occurrence combined single limit. If such insurance contains a general aggregate limit, it shall apply separately to this agreement or be no less than two (2) times the occurrence limit. Policy shall name the County of Riverside, its Agencies, Districts, Special Districts, and Departments, their respective directors, officers, Board of Supervisors, employees, elected or appointed officials, agents or representatives as Additional Insureds.

8.3.4. Environmental Impairment Insurance:

Contractor shall maintain Environmental Impairment Insurance providing coverage for the Contractor's performance of work included within this Agreement, with a limit of liability of not less than \$1,000,000 per occurrence and \$1,000,000 annual aggregate.

8.3.5. General Insurance Provisions - All lines:

Any insurance carrier providing insurance coverage hereunder shall be admitted to the State of California and have an A M BEST rating of not less than A: VIII (A:8) unless

such requirements are waived, in writing, by the County Risk Manager. If the County's Risk Manager waives a requirement for a particular insurer such waiver is only valid for that specific insurer and only for one policy term.

The CONTRACTOR'S insurance carrier(s) must declare its insurance deductibles or self-insured retentions. If such deductibles or self-insured retentions exceed \$500,000 per occurrence such deductibles and/or retentions shall have the prior written consent of the County Risk Manager before the commencement of operations under this Agreement. Upon notification of deductibles or self insured retention's unacceptable to the COUNTY, and at the election of the Country's Risk Manager, CONTRACTOR'S carriers shall either; 1) reduce or eliminate such deductibles or self-insured retention's as respects this Agreement with the COUNTY, or 2) procure a bond which guarantees payment of losses and related investigations, claims administration, and defense costs and expenses.

CONTRACTOR shall cause CONTRACTOR'S insurance carrier(s) to furnish the County of Riverside with either 1) a properly executed original Certificate(s) of Insurance and certified original copies of Endorsements effecting coverage as required herein, and 2) if requested to do so orally or in writing by the County Risk Manager, provide original Certified copies of policies including all Endorsements and all attachments thereto, showing such insurance is in full force and effect. Further, said Certificate(s) and policies of insurance shall contain the covenant of the insurance carrier(s) that thirty (30) days written notice shall be given to the County of Riverside prior to any material modification, cancellation, expiration or reduction in coverage of such insurance. In the event of a material modification, cancellation, expiration, or reduction in coverage, this Agreement shall terminate forthwith, unless the County of Riverside receives, prior to such effective date, another properly executed original Certificate of Insurance and original copies of endorsements or certified original policies, including all endorsements and attachments thereto evidencing coverage's set forth herein and the insurance required herein is in full force and effect. ***CONTRACTOR shall not commence operations until the COUNTY has been furnished original Certificate (s) of Insurance and certified original copies of endorsements and if requested, certified original policies of insurance including all endorsements and any and all other attachments as required in this Section. An individual authorized by the insurance carrier to do so on its behalf shall sign the original endorsements for each policy and the Certificate of Insurance.***

It is understood and agreed to by the parties hereto and the insurance company(s), that the Certificate(s) of Insurance and policies shall so covenant and shall be construed as primary insurance, and the COUNTY'S insurance and/or deductibles and/or self-insured retention's or self-insured programs shall not be construed as contributory.

The COUNTY'S Reserved Rights--Insurance. If, during the term of this Agreement or any extension thereof, there is a material change in the scope of services; or, there is a material change in the equipment to be used in the performance of the scope of work which will add to additional exposures (such as the use of aircraft, watercraft, cranes, etc.); or, the term of this Agreement including any extensions thereof exceeds five (5) years the COUNTY reserves the right to adjust the types of insurance required under this

Agreement and the monetary limits of liability for the insurance coverage's currently required herein, if; in the County Risk Manager's reasonable judgment, the amount or type of insurance carried by the CONTRACTOR has become inadequate.

CONTRACTOR shall pass down the insurance obligations contained herein to all tiers of subcontractors working under this Agreement.

The insurance requirements contained in this Agreement may be met with a program(s) of self-insurance acceptable to the COUNTY.

CONTRACTOR agrees to notify COUNTY of any claim by a third party or any incident or event that may give rise to a claim arising from the performance of this Agreement.

8.4. PUBLIC UTILITIES

The locations of all pipelines, power lines, communication lines and other utility components known to County to exist within the limits of the work, are indicated on the drawings and may be the subject of a specific section in the Special Provisions. Size, location and characteristics of such utilities are based upon information made available to County, generally from the owner of the utility in question. The exactness of such information is not guaranteed but may be assumed to have been accomplished with reasonable accuracy.

In addition to the drawings and any such provision regarding utilities, Contractor is under a duty to take into account the location of service laterals or other appurtenances which can be inferred from the presence of facilities such as buildings, meter, junction boxes or similar items in or about the limits of the work.

Unless otherwise directed by the Contract Documents, all existing utilities, whether shown or described or not, shall be left in place and Contractor must conduct its operations so that such utilities are protected from damage at all times during the course of the work; and the work must be accomplished so as to give such utilities proper protection and support upon completion of the work by Contractor.

If during the course of the work, Contractor discovers underground utility components not indicated in the drawings or elsewhere in the Contract Documents, Contractor must immediately notify, in writing, the County and the utility company (public or private) involved, stating with exactness the condition found.

If Contractor encounters a utility not shown or described in the Contract Documents, Contractor shall cease all work which would disturb such utility and its support until given specific instructions as to how to proceed regarding such utility by County.

All work needed to protect existing utilities shown or described in the Contract Documents, or which can be reasonably inferred from the presence of other visible facilities, is to be done at Contractor's expense.

Contractor's cost of locating and repairing damage not due to the failure of Contractor to exercise reasonable care, and removing or relocating utility components and facilities not indicated in the

drawings or elsewhere in the Contract Documents, and for equipment on the project necessarily idled during such work shall be paid Contractor as Extra Work.

County may direct the Contractor to do such repair or relocation work as required. When such repair or relocation work is not elsewhere provided for in these Contract Documents, or reasonably inferred therefrom, Contractor shall be compensated for such work as Extra Work.

8.5. PROTECTION OF EXISTING STREET FACILITIES

The Contractor shall be responsible for the protection of existing signs, fences, concrete curbs, gutters and other facilities or structures. The Contractor shall be responsible to repair or replace any such items which are damaged.

Excavation within the street right of way shall be conducted in a manner to cause the least interruption to traffic. Where traffic must cross open trenches, the Contractor shall provide suitable bridges at street intersections and driveways. Hydrants under pressure, valve pipe covers, valve boxes, curb stop boxes, fire or police call boxes, or other utility controls shall be left unobstructed and accessible during construction.

8.6. DIVERSION AND CONTROL OF WATER

Unless otherwise provided in the Agreement, no separate or additional payment will be made for diversion or control of surface or groundwater. All costs incidental to maintaining dry working areas shall be the responsibility of the Contractor and shall be included in the unit prices paid for other items of work.

8.7. DUST ABATEMENT

During the performance of all work, the Contractor shall take the necessary precautions to avoid any loss or damage resulting from its operations that raise or produce dust. The Contractor will be required to have a positive and continuous method of dust control which is satisfactory to the County. The methods to be used for controlling dust in the construction area and along haul roads shall be approved by the County prior to starting any of the work. All costs incidental to dust control shall be included in the unit prices paid for other items of work.

8.8. PROJECT SIGNS

The Contractor shall erect a maximum of two project signs at the locations designated by the County. The signs will be furnished by the County. The signs shall be erected as soon as possible and within 15 days after date of Notice to Proceed. The signs are 4 feet by 8 feet in size, with two 4" x 4" x 12' posts. The sign posts shall be set 5.0 feet in good solid ground and the backfill carefully tamped into place.

8.9. EXAMINATION OF PLANS, SPECIFICATIONS, CONTRACT, AND SITE OF WORK

The Contractor shall examine fully and carefully the site of the work, the plans, the specifications, and any other Contract Documents prior to submitting its bid. The submission of a bid shall be conclusive evidence that the Contractor has investigated the site and is satisfied as to the conditions and requirements of the work to be performed.

Where the County has made investigations of subsurface conditions in areas where work is to be performed, or in other areas, such investigations are made only for the purpose of study and design. Where such investigations have been made, bidders may, upon request, inspect the records of the County as to such investigations. The records of such investigations are not a part of the contract and are solely for the convenience of the bidders. It is expressly understood and agreed that the County assumes no responsibility whatsoever in respect to the sufficiency or accuracy of the investigations thus made, the records thereof; or of the interpretations set forth therein or made by the County in its use thereof and there is no warranty or guarantee, either express or implied, that the conditions indicated by such investigations or records thereof are representative of those existing throughout such areas, or any part thereof, or that unlooked-for developments may not occur, or that materials other than, or in proportions different from those indicated, may not be encountered. No information derived from inspection of such records will in any way relieve the Contractor from its obligations under the Contract Documents.

9. WATERING

9.1. DESCRIPTION

This work shall include providing a water supply for all water required for the work. The application of the water shall be subject to the approval of the County at all times and shall be applied in the necessary amounts and at the necessary locations subject to the approval of the County.

At least one mobile unit of at least 1,000-gallon capacity for applying water shall be available on the project at all times.

Water for compacting embankment material and for dust control shall be applied by means of pressure-type distributors or pipelines equipped with a spray system or hoses with nozzles that will ensure a uniform application of water.

10. PUBLIC CONVENIENCE, TRAFFIC CONTROL AND DETOURS

10.1. GENERAL

The Contractor shall so conduct its operations as to offer the least possible obstruction and inconvenience to the public and it shall have under construction no greater length or amount of work than it can prosecute properly with due regard to the rights of the public.

Unless otherwise provided in the Special Provisions, all public traffic shall be permitted to pass through or near the work with as little inconvenience and delay as possible.

Spillage resulting from hauling operations along or across any public traveled way shall be removed immediately at the Contractor's expense.

Construction operations shall be conducted in such a manner as to cause as little inconvenience and annoyance as possible to abutting and nearby property owners.

Convenient access to driveways, houses and buildings along or near the work shall be maintained and temporary approaches to crossings or intersecting highways shall be provided and kept in good condition.

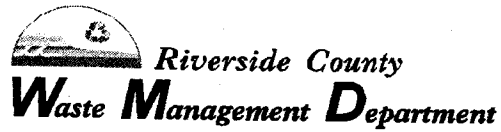
10.2. SIGNS

It shall be the responsibility of the Contractor to provide and maintain all traffic control, lights, barricades and signs, both on and off the site of work, subject to approval of the County; and all such devices shall be of a type approved by the County.

If, in any case, the County finds it necessary to replace, add to or erect said barricades, signs, or lights when the Contractor fails to do so, the Contractor shall be billed for all costs thereof.

10.3. MATERIALS STORAGE

Storing or stockpiling of excavated material, imported backfill material or construction materials on any street or highway will not be permitted except as approved in advance in writing by the County.



SPECIAL PROVISIONS

FOR

SURFACE DRAINAGE AND ACCESS ROAD

IMPROVEMENT PROJECTS

AT THE

BADLANDS SANITARY LANDFILL

AND

LAMB CANYON SANITARY LANDFILL

SEPTEMBER 2011

RIVERSIDE COUNTY WASTE MANAGEMENT DEPARTMENT

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**SPECIAL PROVISIONS FOR
SURFACE DRAINAGE AND ACCESS ROAD
IMPROVEMENT PROJECTS
AT
BADLANDS SANITARY LANDFILL
AND
LAMB CANYON SANITARY LANDFILL**

**SECTION 1 - PROJECT DESCRIPTION AND GENERAL
REQUIREMENTS**

1.1 PROJECT DESCRIPTION

These Special Provisions are for surface drainage and access road improvements at the Lamb Canyon and Badlands Sanitary Landfill sites in Riverside County, California. This project is designated as "Surface Drainage and Access Road Improvement Projects at Badlands Sanitary Landfill and Lamb Canyon Sanitary Landfill" (Project). The work items required by this project include, but are not limited to, construction of a surface drainage control system that consists of asphalt drainage structures, 20 mil Low Density Polyethylene (LDPE) drainage swales, metal flume downdrains, grouted rip-rap, earthen diversion berms, straw bale checkdams, and quarry rock trenches; construction of asphalt and quarry rock/base access roads; and the implementation of storm water pollution prevention plan (SWPPP) throughout the entire duration of the project. All work to be implemented under this contract shall consist of furnishing equipment, superintendence, labor, skills, materials, and all other items necessary for the execution of the Project and shall conform to the Contract Documents for this Project.

The Lamb Canyon Landfill and Badlands Landfill are owned and operated by the Riverside County Waste Management Department (County), and are located at 16411 Lamb Canyon Road in Beaumont, CA 92223, and 31125 Ironwood Avenue, Moreno Valley, Ca. 92553, respectively. Site locations and vicinity maps are included in the Project Drawings.

The following sections contain description of the general requirements for the major items of work to be implemented under this contract:

1.1.1 Access Road and Drainage Improvements -Badlands Sanitary Landfill

The Contract Documents for this project require the Contractor to construct the following surface drainage and access road improvements at the Badlands Sanitary Landfill, as shown on the attached Project Drawings: installation of quarry rock trenches, compacted engineered fill, construction of asphalt access road, stripping of asphalt access road, and construction of quarry rock access road.

1.1.2 Drainage Improvements - Lamb Canyon Sanitary Landfill

The Contract Documents for this project require the Contractor to construct the following surface drainage improvements at the Lamb Canyon Sanitary Landfill, as shown on the

attached Project Drawings: installation of corrugated metal flume downdrains and inlet structures, construction of asphalt drainage structures, saw cutting and replacing existing damaged asphalt drainage structures, construction of 20 mil LDPE drainage swale, supply and install gravel bags, construction of partial grouted ¼ ton riprap drainage structure, construction of earthen diversion berms, and supply and install straw bale check dams.

1.1.3 Optional Drainage Improvements:

At the County's request the Contractor may be required to implement additional surface drainage improvements at Lamb Canyon Sanitary Landfill that include the construction of 1,500 linear feet of asphalt drainage structures, the installation of 260 linear feet of corrugated metal flume downdrain, and the installation of two metal flume inlets. The additional surface drainage improvements are located east of the main project work area "North Soil Stockpile" at the Lamb Canyon Sanitary Landfill as shown on the Project Drawings. This additional work, if requested by the County, would be compensated at the Contractor's unit price indicated for Optional Bid Items No. 19 "Construct 4'x1.5' Asphalt V-ditch", No. 20 "Supply & Install 24" Wide Metal Flume Down Drains", and No. 21 "Supply & Install 24" Wide Metal Flume Inlet". The County will inform the Contractor prior to the Notice of Proceed if Optional Bid Items No.19, 20, and 21 will be implemented as part of the Contract.

1.2 GENERAL REQUIREMENTS

- A. The Contractor shall be aware that Lamb Canyon and Badlands Landfills are active landfill sites. The Contractor's work relating to the Project shall not impede or interrupt daily landfill operations in any way. Full cooperation of the Contractor and its forces is required to assure safe working conditions. Therefore, it is necessary to emphasize that the County will have full authority to eject any of the Contractor's employees or subcontractors who do not immediately abide by the landfill site rules or the directions of the County.
- B. It shall be the bidders' responsibility to familiarize themselves with the actual site conditions prior to submitting a bid; therefore, attendance at the pre-bid site review is encouraged and highly recommended. A County representative will hold a **non-mandatory pre-bid site review** on **Thursday, October 13, 2011** at 9:00 a.m. This meeting will start at Badlands Sanitary Landfill site (31125 Ironwood Avenue, Moreno Valley, Ca. 92553) and proceed to the Lamb Canyon Sanitary Landfill site (16411 Lamb Canyon Road, Beaumont, California 92223).
- C. All the Contractor's cost for complying with the work or other requirements of the Contract Documents shall be included in the bid items. No additional compensation shall be paid to the Contractor.

1.3 PRECEDENCE OF DOCUMENTS

In case of conflict between the Contract Documents, the following order of governing documents shall be followed (with the first listed document controlling):

- A. Special Provisions
- B. General Provisions
- C. Project Drawings (specific details supersede general plan)
- D. Permits from other agencies as may be required by law
- E. "Standard Specifications for Public Works Construction" (2009 edition, and all subsequent amendments, supplements, and additions) written and promulgated by the Joint Cooperative Committee of the Southern California Chapter American Public Works Association and Southern California Departments Associated General Contractors of California. This publication is also known as the "Green Book."

1.4 WORKING DAY DEFINITION

The working day shall be as set forth in Section 6.6 of the General Provisions. The length of each working day shall be from 7:00 AM to 3:30 PM, including half-hour for lunch break, unless otherwise approved in writing by the County.

1.5 HOLIDAYS

Unless otherwise approved by the County in writing and in advance, the Contractor shall not be permitted to work on the following days designated by the County as holidays:

HOLIDAY	DAY OBSERVED
* New Year's Day	January 1
Martin Luther King Jr's Birthday	Third Monday in January
Lincoln's Birthday	February 12
Washington's Birthday	Third Monday in February
Memorial Day	Last Monday in May
Independence Day	July 4
Labor Day	First Monday in September
Columbus Day	Second Monday in October
Veterans' Day	November 11
* Thanksgiving Day	Fourth Thursday in November
* Following Thanksgiving	Friday following the fourth Thursday in November
* Christmas Day	December 25

* Note:

- ❖ Thanksgiving Day, which shall be the fourth Thursday in November unless otherwise appointed.
- ❖ Friday following Thanksgiving Day.
- ❖ December 24 and 31 when they fall on Monday.
- ❖ December 26 and January 2, when they fall on Friday.
- ❖ Friday proceeding January 1, February 12, July 4, November 11 or December 25, when such date falls on Saturday; the Monday following such date when such date falls on a Sunday.

1.6 TIME OF COMPLETION AND LIQUIDATED DAMAGES

The Contractor shall diligently and continuously prosecute the entire Project to final completion before the expiration of **thirty (30) working days** from the start date stated in the Notice to Proceed. No additional working days will be added to the Contract for the work required to complete Optional Bid items No. 19, 20, and 21. This portion of the Project will then be inspected by the County for final acceptance in accordance with Section 7.4 of the General Provisions.

In case all the work called for and all the conditions and requirements of the Contract Documents are not completed within the number of working days specified above, **liquidated damages of One Thousand Dollars (\$1,000) per day for each additional working day required to properly complete the Project in excess of the allowed number of working days shall be paid by the Contractor to the County. The County may also deduct this amount from payments due to the Contractor.**

The Contractor shall suspend construction operations when, in the County's opinion, the conditions for such operations are unsatisfactory due to rain, wind, or any other reason that interferes with the Project work. The Contractor shall not be compensated monetarily for any such delays caused by the suspension of operations. Working days shall be charged as appropriate in accordance with the Contract Documents.

Whenever operations have been suspended, the effect of rain, wind, or other adverse conditions shall be assessed by the County before approval to resume construction is given. Equipment will not be allowed to travel on the landfill site until the ground has dried sufficiently to prevent excessive rutting and to allow the equipment to be operated satisfactorily. If rutting occurs, the Contractor shall re-level, scarify, and re-compact the materials to whatever depth is required to repair the damage in accordance with the appropriate specifications described herein or to pre-existing conditions at the Contractor's expense. If temporary access and internal haul roads need repair, the Contractor shall repair them as required at the Contractor's expense.

1.7 SURVEY CONTROL OF WORK

The County surveyors have establish external primary survey control points on firm ground outside the limits of the work to be used throughout the construction period for the Contractor's work. Survey control is shown in the Project Drawings. In addition, the County surveyors will make verification surveys as various stages of the work are completed and survey for preparation of pay quantities.

The Contractor's surveyor is responsible for setting line and grade for the engineered fill work and any other related construction activities. The Contractor's surveyors are also responsible for ensuring that all construction conforms to the requirements of the Contract Documents.

1.8 TESTS AND INSPECTIONS BY COUNTY QA/QC

Throughout the course of the project, the County or its representative will be on-site to document and test the compacted engineered fill. The Contractor shall comply with requests

by the County or its representative to alter the work sequence or uncover materials to facilitate testing, inspection, or observation, or for the collection of samples or data. The Contractor shall provide the County and its representatives with safe and suitable access to the work area for testing, inspection, or observation.

1.9 LABOR SURCHARGE

Attention is directed to the provisions of Section 7.3.1.1.2 of the General Provisions. The labor surcharge percentage to be applied to the regular hourly wages paid as defined in Section 7.3.1.1 shall be eleven percent (11%). The labor surcharge percentage to be applied to the overtime hourly wages paid as defined in Section 7.3.1.1 shall be eleven percent (11%).

1.10 EQUIPMENT RENTAL

Attention is directed to Section 7.3.1.3 of the General Provisions. The equipment rental rates to be applied shall be the rates that are in effect at the time of the award of the contract, as published by the California Department of Transportation. A copy of said equipment rental rates is on file at the County's Waste Management office located at 14310 Frederick Street, Moreno Valley, California.

1.11 WORK PLAN AND SCHEDULE

After notification of award and prior to start of any work, the Contractor shall prepare and submit to the County a construction schedule including but not limited to the following: start date, end date, production rate, type and number of equipment to be used, work hours, and sequence of construction.

The construction schedule shall be updated by the Contractor each time a change in work occurs that will delay a critical path item of the project. Each updated schedule shall be submitted to the County for review and acceptance. The updated schedule shall show the actual progress of work and the work remaining. Progress payments will be withheld by the County if the Contractor fails to provide acceptable schedules as required.

The Contractor shall be responsible for the coordination and cooperation of all subcontractors, material suppliers, utilities, and any required testing agencies, so that all components are properly integrated into the construction, and so there are no resulting delays in the progress of the project. Payment for complying with this section shall be considered as included in the various items of work, and no additional compensation shall be allowed.

1.12 CONTRACTOR'S RESPONSIBILITIES

The Contractor shall identify to the County, in writing, the name of the representative who shall have complete authority to act for this project. The Contractor shall also furnish to the County a telephone number where the Contractor or his representative may be contacted 24 hours a day. The Contractor shall examine the Contract Documents, and shall be aware of conditions at the site that may affect execution of the work. These conditions include, but are not limited to, the following:

- A. Applicable health and safety regulations. All activities shall be conducted in such a manner as to avoid hazards and injury or damage to any person or properties.
- B. Transportation and access conditions
- C. Availability of utilities
- D. Surface and subsurface conditions
- E. Location, availability, and condition of construction materials
- F. Climate
- G. On-site soil characteristics of soil to be used in construction, including but not limited to size and type variation, location of excavation and stockpile areas, etc.
- H. General construction conditions at the site
- I. Creation and implementation of Storm Water Pollution Prevention Plan to prevent erosion and control sediment from work areas (See Section 3 of these Special Provisions)
- J. Spill prevention, proper clean-up and disposal of contaminants, and handling/storage of hazardous materials delivered to or produced on-site from the Contractor's operation
- K. The Contractor shall assume full responsibility for any theft or vandalism occurring to the Contractor's equipment, tools, materials, supplies, and construction (prior to final acceptance of the entire project by the County), and shall take appropriate measures necessary to eliminate their occurrences.
- L. The Contractor shall maintain internal access roads utilized by the Contractor during the Project. The Contractor shall not use existing paved roadways or those used for daily landfill traffic.
- M. The Contractor shall adhere to the posted speed limits within the internal landfill site.
- N. The Contractor shall continuously develop and maintain a reasonably graded surface within the Project excavation areas in order to maintain positive drainage condition and prevent ponding.
- O. At the end of the project, the ground shall be smoothed and graded to drain by the Contractor as required by the Contract Documents and as directed by the County.
- P. The Contractor shall be aware that the County and its representatives will conduct periodic inspections and QA/QC testing of the work area. The Contractor shall allow access to work areas as requested by the County or its representatives.
- Q. Prior to the start of work, or at any other time during the project as reasonably requested by the County, the Contractor shall meet with the County to understand all County operations in progress at the Lamb Canyon and Badlands Landfills and the Contractor shall take these County concurrent operations into consideration in performance of the work.
- R. The Contractor is responsible for setting line and grade for the compacted engineered fill work and any other related construction activities. An electronic copy of the grading plan is available to the Contractor upon request in a Micro Station or AutoCAD format.

Until County final acceptance of the entire project, the Contractor shall retain full responsibility for the work.

Payment for complying with this section shall be considered as included in the various items of work, and no additional compensation shall be allowed.

1.13 SITE SAFETY PLAN

Within ten (10) working days of execution of the Agreement by both parties, and prior to delivering equipment to the construction site, the Contractor shall submit a Site Safety Plan to the County for review and acceptance. Acceptance of the Site Safety Plan does not release the Contractor of liability in the event of an accident or injury, nor does it place any liability on the County or any County employee. The Site Safety Plan must, at a minimum, meet all the requirements of Federal and State regulations regarding all construction and hauling activities. The Contractor shall be solely responsible for adherence to the Site Safety Plan at all times.

It is the responsibility of the Contractor to comply with all relevant health and safety regulations. The Contractor shall take proper safety and health precautions to protect the work, the public, and the County employees and its representatives. The Contractor shall be responsible for providing all items necessary for health and safety, including but not limited to dust control, training, personal protective equipment, decontamination equipment if required, and collection and disposal of rinse waters, in accordance with applicable Federal and State regulations. The County will reserve the right to directly remove any of the Contractor's employees or subcontractors who are not adhering to or meeting the requirements of the law and the Site Safety Plan or applicable regulations.

The Site Safety Plan shall include procedures that address Contractor's response in the event of a spill. Any accidental spills or spills that are produced during routine equipment maintenance shall be cleaned up by removing all the contaminants and the contaminated soil, disposing of it at an approved facility, and replacing the removed contaminated soil volume with clean soil material. The Contractor must submit to the County all documentation showing proper containment and removal of any toxic materials or contaminated soil that the Contractor has introduced or produced on-site.

The Contractor shall be responsible for holding mandatory weekly safety meetings at the site. The Contractor shall notify the County of the time and place of all meetings and allow the County to participate. Meetings shall reiterate all safety measures to be taken and shall discuss any violations committed and preventive measures to avoid subsequent violations. The Contractor shall provide the County with a copy of the minutes and the attendance of the safety meetings.

1.14 ENVIRONMENTAL REQUIREMENTS

1.14.1 General Requirements:

The Contractor shall at all times keep the site neat, tidy, and free of waste materials or rubbish resulting from work. Toxic materials, including oil, fuel oil, gasoline,

contaminated soil, coolant, fluid filters, and other contaminants, shall be transported off-site and disposed of at an approved facility. Containers temporarily holding these toxic materials shall be properly labeled, covered in secondary containment areas, have no leaks and shall be removed from the site as quickly as is reasonably possible.

Any accidental spills or spills that are produced during routine equipment maintenance shall be cleaned up by removing all the contaminants and the contaminated soil, disposing of it at an approved facility, and replacing the removed contaminated soil volume with clean soil material. The Contractor shall also be responsible for any spills caused by any of its subcontractors. The Contractor shall comply with the requirements of the Lamb Canyon Spill Prevention Control and Countermeasure Plan (SPCCP) and include spill response procedures in their Site Safety Plan submittal.

1.15 PERMITS

The Contractor shall obtain and comply with all required permits and licenses related to the work, pay all charges and fees, and give a copy of all required documents to the County prior to commencement of work. Required permits include but are not limited to:

1.15.1 Notification to South Coast Air Quality Management District (SCAQMD) Under Rule 403, Fugitive Dust Control Permit

The Contractor is responsible for implementing the necessary mitigation measures to ensure compliance with regulatory thresholds relating to air quality including but not limited to South Coast Air Quality Management District (SCAQMD) Rule 403 Fugitive Dust Control Requirements. The County shall have the authority to immediately suspend all construction operations if, in the County's opinion, the Contractor fails to adequately provide for dust control.

The Contractor shall file Form 403-N with the SCAQMD for the construction operation under this contract. A blank copy of Form 403-N is included in Appendix A of the Contract Documents. The Contractor shall provide a copy of the filed Form 403-N for the project to the County prior to commencement of project construction.

In compliance with the requirement of Section (e)(1)(E) of Rule 403, as amended on April 2, 2004, after January 1, 2005, the Contractor shall identify a SCAQMD-certified dust control supervisor on the project site, or available on-site within 30 minutes, during Project work hours.

1.15.2 State Water Quality Control Board's National Pollution Discharge and Elimination System (NPDES) Permit

The County complies with the State NPDES through regular inspections and monitoring and implementation of best management practices as described in the Lamb Canyon and Badlands Landfills Storm Water Pollution Prevention Plans (SWPPP). The Contractor shall be responsible for compliance with these SWPPPs, attached as Appendix B. In addition, after notification of award and prior to start of any work, the Contractor shall prepare and submit to the County two (Lamb Canyon and Badlands) project and site-specific Storm Water Pollution Prevention Plan (SWPPP) outlining procedures to reduce

pollutants (directly or indirectly related to the Contractor's activities) in storm water runoff. This will be included as part of the County's NPDES Permit. Refer to Storm Water Pollution Prevention requirements stated in Section 3 of these Special Provisions.

Payment for complying with this section shall be considered as included in Bid Item No. 2 "Prepare, Implement, and Maintain SWPPP", and no additional compensation shall be allowed.

1.15.3 Hazardous Materials Management

The Contractor shall not store any hazardous material or waste (such as petroleum products including but not limited to lubrication oils, antifreeze, greases or fuels, or if it is necessary for the contractor to store petroleum waste products on-site such as waste oil, oil filters, antifreeze, greases, contaminated soil, and waste fuel) on-site in excess of the following quantities: 55 gallons of liquid material, 500 pounds of solid material, or 200 cubic feet of compressed gas. If these quantities are to be exceeded the Contractor shall first prepare a Hazardous Materials Business Emergency Plan (HMBEP) and obtain Hazardous Material Management permit as a hazardous waste generator from the Riverside County Department of Environmental Health. Copies of the HMBEP and Hazardous Material Management permit shall be provided to the County prior to storing hazardous material or waste onsite. HMBEP guidelines and permit requirements are outlined in the County of Riverside Department of Environmental Health's website: http://www.rivcoeh.org/opencms/rivcoeh/Forms_Guidelines/.

No additional compensation shall be allowed for preparing and submitting a HMBEP and obtaining a Hazardous Material Management permit from Riverside County Department of Environmental Health.

1.16 EQUIPMENT STAGING AREA

Areas for the storage of the Contractor's equipment at Badlands and Lamb Canyon Landfills are delineated on the Project Drawings. The storage areas shall be accessible to the County so that they may verify the presence and condition of equipment being stored. The stored equipment shall be placed in accordance with the Project Drawings or as directed by the County. The Contractor shall confine equipment and maintain construction operations within limits indicated by applicable laws, ordinances, and permits, and as outlined by the County. The Contractor shall make certain that the storage of equipment in any area does not interfere with or otherwise disrupt County operations at the site. Care shall be exercised to avoid blocking roads, interfering with County operations, or presenting a hazard to County personnel and equipment, or to the public.

The maximum allowable time that a piece of equipment shall remain on-site in a condition that makes it incapable of performing its designed function shall be four (4) working days. Any equipment needing further maintenance shall be moved off-site for repairs, at the full expense of the Contractor. Equipment no longer needed for the Project shall also be removed within four (4) working days of its last use.

Payment for complying with this section shall be considered as included in the various items of work, and no additional compensation shall be allowed.

1.17 DIVERSION AND CONTROL OF WATER

It is anticipated that nuisance or other water, such as rainfall or surface water run-off, may be encountered within the construction site during the period of construction under this contract. The Contractor, by submitting a bid, will be held to have investigated the risks arising from such waters and to have made this bid in accordance therewith. The Contractor shall construct and maintain all temporary diversion and protective works to divert run-off around the work areas and material storage areas, and to protect persons and property downstream of the work. The County may require the Contractor to implement additional protection measures. Excavation and stockpile areas shall be graded and properly maintained to provide adequate drainage at all times. The Contractor shall provide BMP measures as necessary and/or required to prevent run-off from flowing onto completed areas and to avert erosion.

All nuisance or other water shall be disposed of at the Contractor's expense, in a manner that will not damage public or private property, will not create a nuisance or health menace, and comply with all applicable regulations. The Contractor shall furnish, install, and operate pumps, hoses, pipes, or other equipment of a sufficient capacity to keep all construction excavations free from water until the excavation is backfilled. Water, if odorless and uncontaminated, may be discharged in a manner approved by the County. When required by the County, a means of desilting the water before discharging it shall be provided.

The County has a National Pollutant Discharge and Elimination System (NPDES) permit for storm water associated with industrial activity (under which the Project is covered) and has developed a Storm Water Pollution Prevention Plan (SWPPP) for the Lamb Canyon and Badlands Sanitary Landfills. The Contractor shall prepare two SWPPPs for their activities at both sites during the Project and submit an addendum to the each sites' SWPPP located in Appendix B, and as stated in Subsection 1.15.2 "State Water Quality Control Board's National Pollution Discharge and Elimination System (NPDES) Permit" and Section 3 "Storm Water Pollution Prevention" of these Special Provisions. The Contractor shall comply with all the provisions of each sites' SWPPP as described in Appendix B. The Contractor shall assist and cooperate with County personnel in fulfilling the provisions for construction monitoring requirements.

1.18 DUST ABATEMENT

Dust control operations shall be performed by the Contractor at the time, location and in the amount required and as often as necessary to prevent all excavations, stockpiling or fill works, demolition operations, dirt hauling or other activities from producing dust in amounts harmful to persons or causing a nuisance to persons living nearby or occupying buildings in the vicinity of the work. The Contractor is responsible for compliance with Rule 403 Fugitive Dust Regulations Permit issued by the South Coast Air Quality Management District (SCAQMD) and any other applicable regulations.

Control of dust shall include but not be limited to: sprinkling of water, use of approved dust suppressants, modifications of operations or any other means acceptable to the County, the

California Regional Water Quality Control Board (CRWQCB), the SCAQMD, and any agency having jurisdiction over the facility. The County shall have the authority to suspend all construction operations if, in the County's opinion, the Contractor fails to adequately provide for dust control.

1.19 WATER SUPPLY

Lamb Canyon Landfill's nearest water source is located off-site in the City of Beaumont, near the intersection of Beaumont Avenue and First Street. Badlands Landfill's nearest water source is located off-site in the City of Moreno Valley, on Theodore Street near the intersection of Ironwood Avenue and Theodore Street. For dust control and soil moisture conditioning activities only, the County will allow the Contractor to use this source at no cost to the Contractor. Costs associated with transporting water from the water source to the project site shall be the Contractor's responsibility. Costs associated with repairing damages to the County's water source caused by the Contractor's actions shall be borne by the Contractor. Contractor is responsible for supplying potable water for all other uses.

Although Contractor will be allowed to use the County's water sources, the County shall have first access to the water in order to ensure landfill operations are not impacted. Contractor may make arrangements for obtaining water supply for the project via a separate water source. If the Contractor chooses to do so, water shall be clean and free from objectionable deleterious amounts of acids, alkalis, salts, or organic materials. County must approve separate water source in advance and in writing. In either case, Contractor shall provide all labor and equipment to collect, load, and apply water in their work areas.

Payment for complying with this section shall be considered as included in the various items of work, and no additional compensation shall be allowed.

1.20 PROTECTION OF ADJACENT LANDFILL OPERATIONS

The Lamb Canyon and Badlands Landfill sites are active facilities; thus, all construction work relating to the Project shall not impede or interrupt daily landfill business and operations. The Contractor shall provide a temporary fence, gabion, or other structure acceptable to the County as necessary along the Project grading limits or as otherwise directed by the County, to prevent debris, rocks and equipment from interfering with the access roads and landfill operations adjacent to the Contractor's work. In addition, the Contractor must obtain in advance the County's written approval for the locations and construction of temporary haul roads.

Payment for complying with this section shall be considered as included in the various items of work, and no additional compensation shall be allowed.

END OF SECTION 1

SECTION 2 - MOBILIZATION AND DEMOBILIZATION

2.1 GENERAL

This contract item (Bid Item No. 1 and Bid Item No. 8) shall include all preparatory work and operations, including but not limited to: bond and insurance costs; those costs necessary for the movement of personnel, equipment, supplies, and incidentals to the project sites (Lamb Canyon and Badlands Sanitary Landfills); and for all other work and operations which must be performed or costs incurred prior to beginning work on the various contract items on the project site as well as the related demobilization costs at the completion of the project. Demobilization shall include but not be limited to cleaning installations and the removal of temporary structures as required by the County. Throughout all phases of construction, including suspension of work and until final acceptance of the project, the Contractor shall keep the work areas clean and free of refuse generated as a result of the Contractor's operations. Any such refuse shall be disposed of in the designated disposal area or as directed by the County.

2.2 EXECUTION

Upon receipt of the Notice to Proceed, the Contractor shall furnish, mobilize, and install such temporary works, materials, equipment, supplies, and personnel as necessary for the successful completion of the work. The Contractor shall also operate and maintain temporary works and equipment throughout the duration of construction. All temporary works, such as equipment staging area, sanitation facilities, shall fully comply with applicable rules and regulations of governing authorities.

The Contractor shall remove and properly dispose of all refuse from the construction site. The County shall have the right to determine what materials are refuse, and to determine the manner and placement of on-site disposal.

The Contractor shall obtain all necessary permits and permission to utilize public roads for mobilization, demobilization, access to the site, and transport of any material off-site. Access to the site is available through existing public roads during the hours stated in Section 1.4 of these Special Provisions.

2.3 MEASUREMENT AND PAYMENT

- A. The following schedule will be used to determine measurement of mobilization and demobilization and disbursement of the bid price (less retention) for mobilization and demobilization:

Percent of Contract Work Completed (\$ Expended / \$ total bid price)	Percent of Mobilization and Demobilization Considered to be Complete
More Than 5%	50%
More Than 25%	70%
More Than 50%	80%
More Than 75%	90%
Upon County's acceptance of work including complete demobilization	100%

- B. Payment of mobilization and demobilization shall be based upon the lump sum as stated in **Bid Items No. 1 and No.8 – "Mobilization and Demobilization"**. Payments shall constitute full compensation for all labor, material, equipment, and all other items necessary and incidental to completion of this item of work. The deletion of work or the addition of extra work, as provided for herein, shall not affect the price paid for mobilization and demobilization.

END OF SECTION 2

SECTION 3 - STORM WATER POLLUTION

3.1 GENERAL

This contract item (Bid Item No.2 and Bid Item No. 9) shall include furnishing all labor, supervision, tools, equipment, and materials necessary to comply with the various Federal, State, and County laws and regulations along with specific permit requirements related to the construction activities in this project. This work shall include, but is not limited to: preparation and implementation of a project-specific Storm Water Pollution Prevention Plan (SWPPP) for each site (Badlands and Lamb Canyon Landfills); regular review and updating of those plans, inspections and reporting; supply, installation and maintenance of SWPPP Best Management Practice (BMP) measures to prevent erosion and control sediment; and other items as described and required by the Contract Documents.

3.2 REFERENCES

Reference Codes, Regulations and Policies: The following codes, regulations and policies, including documents referenced therein, form part of these Special Provisions and are incorporated herein by reference. Additional reference information is provided as information to assist the Contractor with document preparation and registration requirements.

A. Storm Water Pollution Prevention

The 1972 amendments to the Federal Water Pollution Control Act (known as the Clean Water Act or CWA) provide the statutory basis for the National Pollutant Discharge and Elimination System (NPDES) permit program and the basic structure for regulating the discharge of pollutants from point sources to waters of the United States. Section 402 of the CWA specifically required the United States Environmental Protection Agency (EPA) to develop and implement the NPDES program.

The full text of the Clean Water Act reference and SWPPP preparation assistance is available from the following agency websites:

Agency Website	Reference	Website Address
EPA	Clean Water Act	http://www.epa.gov/npdes/pubs/cwatxt.txt
EPA	SWPPP Assistance	http://cfpub2.epa.gov/npdes/stormwater/swppp.cfm
Caltrans	SWPPP Assistance	http://www.dot.ca.gov/hq/construc/stormwater/manuals.htm
California Stormwater Quality Association	SWPPP Assistance	http://www.cabmphandbooks.com/

3.3 SUBMITTALS

The Contractor shall submit the following items for County review and acceptance and adhere to their requirements. All submittals must be received and accepted by the County before the Contractor starts work:

3.3.1 Storm Water Pollution Prevention Plan and Inspection Forms

- a. **Storm Water Pollution Prevention Plan (SWPPP)** - After notification of award and prior to start of any work, the Contractor shall prepare and submit to the County two (Badlands and Lamb Canyon Landfills) project and site-specific SWPPPs, outlining procedures to reduce pollutants (directly or indirectly related to the Contractor's activities) in storm water runoff. The Contractor's SWPPPs will be included as part of the County's SWPPPs (Appendix B) as an attachment for the duration of the project.
- b. **Storm Water Pollution Prevention Inspection Forms** - The County SWPPP conditions require the Contractor to perform regular weekly SWPPP inspections along with additional inspections prior to, and after storm events. A SWPPP inspection form is included in Appendix C. All completed inspection forms shall be submitted to the County on a weekly basis or on a daily basis during storm events.

Regular inspections may identify areas of the written SWPPP that require amendments. The Contractor shall revise and re-submit an updated SWPPP whenever warranted.

3.3.2 Schedule of Values

After notification of award and prior to the start of any work, the Contractor shall prepare and submit a satisfactory Schedule of Values for all Storm Water Pollution Prevention. The Schedule of Values will establish unit prices for individual items of work and will form the basis for payment of contract work and will be used to establish payment for any extra work. An acceptable form for the Schedule of Values, representing the minimum level of detail required to quantify the scope of work is included in Section 3.5 of these Special Provisions.

3.4 EXECUTION

3.4.1 Storm Water Pollution Prevention

The County complies with the State NPDES through regular inspections, monitoring and implementation of BMPs as described in the Lamb Canyon and Badlands Landfill Storm Water Pollution Prevention Plans (SWPPP). The Contractor shall be responsible for compliance with the County site specific SWPPPs, attached as Appendix B as well as the Contractor's own project specific SWPPPs.

The Contractor shall utilize the references and guidelines stated in Section 3.2 of these Special Provisions to prepare and submit a SWPPP for the County's review and acceptance. The SWPPP shall include a BMP installation map of the project area utilizing the State of California Department of Transportation (Caltrans) standard BMP installation details. The Contractor's SWPPP should address these four major objectives.

- a. Identify all pollutant sources, including sources of erosion/sediment that may affect the quality of storm water discharges associated with construction activity (storm water discharges) from the construction site, and
- b. Identify non-storm water discharges, and
- c. Identify, construct, implement in accordance with a time schedule, and maintain Best Management Practices (BMPs) to reduce or eliminate erosion, sediment, and other pollutants in storm water discharges and authorized non-storm water discharges from the construction site during construction, and
- d. Develop a schedule and map to include the sequencing of construction activities with the installation of BMPs in order to provide erosion and sediment control measures throughout the duration of project construction.

The Contractor shall perform a weekly inspection of the construction site to ensure that the SWPPP plan is being implemented and that the pollution prevention controls are effective for compliance with the permit. The Contractor's inspector shall document the inspection on the form provided in Appendix C and provide copies to the County on a weekly basis.

Inspections shall also be conducted by the Contractor and the County prior to anticipated storm events and after actual storm events to identify areas contributing to a discharge of storm water associated with construction activity. These inspections shall also be documented as well as any corrective actions taken.

The Contractor shall provide continuous monitoring of the site for non-storm water discharges.

Any corrective actions found to be needed for compliance with the plan and permit requirements during any inspection shall be implemented by the Contractor immediately. If compliance is not possible or if the Contractor refuses to comply, the California Regional Water Quality Board will be notified.

3.5 MEASUREMENT AND PAYMENT

The Schedule of Values will establish unit prices for individual items of work and will be the basis for payment of contract work and will also be used to establish payment for any extra work. Located at the end of this section, is an acceptable form for the Schedule of Values, which represents the minimum level of detail required to quantify the scope of work. A separate schedule of values shall be prepared for Lamb Canyon and Badlands. As shown, the Schedule of Values MUST include Item No. 1 "Prepare, Implement, and Maintain SWPPP Plan". The Contractor shall have the option to add,

delete, or modify any of the BMP measures, Schedule of Value Item No.s 2-6, on their schedule to meet the needs of their SWPPP, but the sum of the items must match the lump sum bid price in the Contractor's proposal for **Bid Item No. 2 and 11 – "Prepare, Implement, and Maintain SWPPP"**. Unit prices shall be based on the costs associated with the preparation, supply, installation, and maintenance of the various items where applicable. Payment for Schedule of Value shall be according to the following schedule.

Upon acceptance by the County of the written plan the Contractor will receive 20% of the lump sum bid item. After complete implementation of all initial field measures required by the plan and these Special Provisions, the Contractor will receive 30% of the lump sum bid item.

Contractor will be paid the remaining 50% of the lump sum bid item in progress payments to be estimated based on the remaining number of working days in the contract. Any change to the number of working days will not result in an adjustment to the total lump sum price, as provided in the Schedule of Values.

WORK ITEM COMPLETED	PERCENTAGE OF SCHEDULE OF VALUES ITEM NO. 1 AND NO. 2 TO BE PAID
Acceptance by the County of the written plan	20%
Completed implementation of all initial field measures required by the plan and these Special Provisions.	30%
Ongoing review and updating of the written plan. Submittal of the required inspection and other documentation. Field compliance with the terms and conditions of the plan and these Special Provisions.	Remaining 50% to be paid in progress payments throughout project duration

Payment for the other SWPPP related items (BMPs) on the Schedule of Values shall be at the unit price as shown on the Schedule as they are installed. Payment shall be full compensation for the supply, installation and maintenance of each BMP measure. The Contractor shall submit a written plan/drawing showing the quantities and locations of the proposed BMP installations as part of the SWPPP and for the County's approval. Quantities of installed BMPs shall not exceed the quantity shown on the Schedule of Values without prior written authorization by the County.

Storm Water Pollution Prevention & Hazardous Materials Management

**Landfill Site: Badlands / Lamb Canyon
(circle one)**

Schedule of Values

No.	Quantity	Units	Description	Unit Cost	Total Cost
1	1	Lump Sum	Prepare, Implement, and Maintain SWPPP Plan		
2	Contractor to provide quantity _____	Each	Construct and Maintain Temporary Sedimentation Basin per Caltrans Detail SC-2.		
3	Contractor to provide quantity _____	Linear Feet	Install and Maintain Gravel Bag Check Dam per Caltrans Detail SC-4		
4	Contractor to provide quantity _____	Linear Feet	Install and Maintain Fiber Roll per Caltrans Detail SC-5		
5	Contractor to provide quantity _____	Linear Feet	Install and Maintain Silt Fence per Caltrans Detail SC-1		
6	Contractor to provide quantity _____	Each	Install and Maintain Stabilized Construction Entrance/Exit per Caltrans Detail TC-1		
TOTAL \$ _____					

END OF SECTION 3

SECTION 4 - SURFACE DRAINAGE AND ACCESS ROAD IMPROVEMENTS AT BADLANDS SAINTARY LANDFILL

4.1 GENERAL

The work covered by this section shall consist of furnishing all necessary labor, materials, equipment, tools and supervision for the construction of the following drainage structure items at the locations indicated on the Project Drawings or as directed by the County.

4.2 CONSTRUCT QUARRY ROCK TRENCH

4.2.1 Materials

- a. Quarry rocks shall be 3"-6" in dimension and shall consist of angular quarry stone. Flat or elongated shapes will not be accepted unless the thickness of the individual pieces is at least one-third of the length.
- b. Stone shall be sound, durable, hard, resistant to abrasion and free from laminations, weak cleavage planes, and the undesirable effects of weathering. It shall be of such character that it will not disintegrate from the action of air, water, or the conditions to be met in handling and placing. All material shall be clean and free from deleterious impurities, including alkali, earth, sand, decomposed granite, clay, refuse, shale, chert and adherent coatings.

4.2.2 Execution

- a. The quarry rock trench shall be prepared by excavating along the flow lines of the specified dirt roads, as shown on the Project Drawings and as directed by the County. The trenches shall be excavated 8' wide by 2' deep as shown in the Project Drawings, contain no loose material, and be subject to the approval of the County.
- b. The quarry rocks shall be placed to the full trench depth, as shown in the Project Drawings.
- c. The Contractor shall haul the material generated by the excavation of the trenches operation to the designated stockpile locations as directed by the County.

4.2.3 Measurement and Payment

- a. The measurements of the final quantity for Bid Item No.3 "Construct Quarry Rock Trench" shall be determined by the County based on field measurements of the axial length (linear feet) of quarry rock trenches constructed at the locations and to the dimensions shown in the Project Drawings. **Payment** for the construction of the quarry rock trenches shall be at the contract unit price per linear foot as stated in the Contractor's Proposal, **Bid Item No. 3** and shall constitute full compensation to the Contractor for all work related to the

construction of quarry rock trenches in the project including, but not limited to: furnishing all labor, supervision, materials, tools, and equipment; excavating, hauling, loading, trenching, surveying, and any other requirements by the Contract Documents for the construction of quarry rock trenches.

4.3 OVER EXCAVATION QUARRY ROCK TRENCH

4.3.1 General

- a. Material may be encountered while excavating the quarry rock trench along the Gravel Access Road that contains buried refuse. If buried refuse is encountered, the Contractor will be required to over excavate the trench to 10' wide by 3' deep, transport all material containing refuse to the active dumping face, and cover all areas with exposed refuse with one foot of compacted clean material as shown in the Project Drawings. If no buried refuse is encountered while excavating the quarry rock trench along the Gravel Access Road, the Contractor shall not over excavate the quarry rock trench.
- b. Contractor shall place quarry rock in the trench after completing the over-excavation in accordance with Section 4.2 of these Special Provisions.
- c. In the event the County or Contractor suspects any excavation material from the landfill is hazardous (as defined by the California Integrated Waste Management Board or the Local Enforcement Agency), the Contractor shall stockpile the suspect material in a location separate from the rest of the excavated material and immediately notify the County. The County will make the appropriate analyses to determine if the suspected hazardous material is hazardous by CIWMB or LEA definition. The Contractor shall dispose of determined hazardous material in the hazardous waste disposal site designated by the County.

4.3.2 Materials

- a. Material necessary for placing the one foot cover in the over excavated quarry rock trench shall be acquired from the Canyon 6 stockpile area as shown in the Project Drawing.
- b. Quarry rocks shall be in accordance with Section 4.2 of these Special Provisions.

4.3.3 Execution

- a. The Contractor shall trench the Gravel Access Road in accordance with Section 4.2 of these Special Provisions unless refuse is found during excavation operations. The Contractor shall notify the County immediately if refuse is encountered.

- b. The Contractor shall begin over excavation where refuse is encountered and shall continue over excavation until refuse is no longer encountered or until the contractor completes the length of excavation along the Gravel Access Road.
- c. After over excavation complete, the quarry rocks shall be placed in accordance with Section 4.2 of these Special Provisions.
- d. All excavated refuse must be transported to the active dumping face, and cover all areas with exposed refuse with one foot of compacted clean material as shown in the Project Drawings.

4.3.4 Measurement and Payment

- a. The measurements of the final quantity for Bid Item No.4 "Over-Excavation Quarry Rock Trench" shall be determined by the County based on field measurements of the axial length (linear feet) of over-excavated quarry rock trenches along the Gravel Access Road. **Payment** for the over excavation of the quarry rock trenches shall be at the contract unit price per linear foot as stated in the Contractor's Proposal, **Bid Item No. 4** and shall constitute full compensation to the Contractor for all work related to the construction of quarry rock trenches in the project including, but not limited to: furnishing all labor, supervision, materials, tools, and equipment; excavating, hauling, loading, trenching, surveying, and any other requirements by the Contract Documents for the construction of quarry rock trenches.

4.4 ROADWAY ENGINEERED FILL

4.4.1 Materials

- a. Material necessary for performing the roadway engineered fill operation shall be acquired from the Canyon 6 stockpile area as shown in the Project Drawing.

4.4.2 Execution

- a. Engineered fill will be placed within the Grading Limits shown in Project Drawings. Unless otherwise specified, areas within the Grading Limits shall be cleared and grubbed as directed by, and to the satisfaction of, the County prior to placing Engineered Fill. The work area within the Grading Limits shall be cleared and grubbed in accordance with Part 3, section 300 of the Standard Specifications prior to placement of Engineered Fill.
- b. As shown in the Project Drawings, a portion of the engineered fill is within the site's landfill liner limits. Although the County does not anticipate that the landfill liner will be encountered during clearing and grubbing operations, Contractor shall take precaution when clearing and grubbing on the slopes within the landfill lined area to not disturb more than the top 6" of the soil and will stop all operations and inform the County immediately if the landfill liner system is

encountered during clearing and grubbing operations. The County reserves the right to suspend the project if the landfill liner system is damaged until it is repaired. Contractor shall pay for any damaged caused to the landfill liner system caused by Contractor's negligence, as determined by the County.

- c. Contractor shall utilize the designated access routes within the landfill site as shown in the Project Drawings when transporting material between the Access Road Grading Limits and the Canyon 6 Stockpile.
- d. The Access Road shall be graded with a transverse fall of 1% towards the existing slope, as shown in the Road Details in the Project Drawings.
- e. The County estimates the amount of engineered fill required for this project to be approximately 5,200 compacted cubic yards.
- f. Allowable deviation from design grades shown in the Project Drawings for Engineered Fill work shall be ± 0.10 feet. Limits for measurement of the engineered fill shall be to the lines and grades as shown in the Project Drawings or as directed by the County.
- g. The Access Road slope shall be finished by vertical track walking or approved equal.
- h. Contractor shall place fill material in lifts with an uncompacted thickness no greater than eight (8) inches. In areas of lift thickness greater than specified herein, the contractor, prior to construction of additional lifts, must complete re-grading and compacting of the surface to the maximum specified lift thickness. The top of each previously compacted layer shall be scarified so that there is no lamination between layers.
- i. Engineered fill material shall be compacted to a minimum of 95% relative compaction, based on the laboratory maximum dry density, determined by ASTM D1557.
- j. All soil material used for engineered fill within the Grading Limits shall be moisture conditioned to have moisture content within $\pm 2\%$ of the Optimum Moisture Content in accordance with ASTM D1557. Additional water may need to be added at any time during construction. The moisture content of the engineered fill materials prior to and during compaction shall be uniform throughout each layer of material. Records of soil properties are available for review at the Department office upon request.
- k. When the moisture content of the fill material is below optimum, water shall be added until the moisture content is within the limits required to assure an adequate bonding and compaction of all fill material. When the moisture content

of the fill material interferes with the compaction of the soil, the fill material shall be aerated by plowing, discing, blading, or other satisfactory methods until the moisture content is acceptable. All plowing, tamping, blending, discing, or air drying of material is considered incidental to the work and no additional compensation will be allowed. Wetting of materials by rain or artificial means to acceptable moisture content will require mixing or air drying to return this material to the required moisture content. Complying with this requirement is considered incidental to the work and no additional compensation will be allowed.

4.4.3 Measurement and Payment

- a. The measurement of the final quantity for Bid Item No. 5 "Roadway Engineered Fill" shall be based only on the total engineered fill quantity as determined by comparing the pre construction ground surface and the finished subgrade surface within the engineered fill grading limits as shown on the Project Drawings. The pre-construction ground surface was established by an aerial flight survey (conducted by Riverside County Flood Control and Water Conservation District in November 2010), and the post-construction ground surface for this work shall be established by ground surveying (conducted by the County) at the completion of the finished subgrade surface. Payment for the placement of engineered fill shall be made based on the unit price per cubic yard for engineered fill, as stated in the Contractor's Proposal, **Bid Item No. 5. Payment** shall constitute full compensation for all labor, material, equipment, and all other items necessary and incidental to completion of this item of work.

4.5 CONSTRUCT ASPHALT ACCESS ROADWAY

4.5.1 Materials

- a. A.C. pavement shall consist of hot mineral aggregate uniformly mixed with hot bituminous material.
- b. A.C. shall be III-B3-AR-4000 (3/4" gravel) for the two bottom 2"-layers and shall be III-C3-AR-4000 (1/2" gravel) for the first top 2" layer. A.C. shall conform to Section 400-4 of the Standard Specifications.
- c. Tack Coat: Tack Coat shall conform to Section 302-5.4, "Tack Coat" of the Standard Specifications and shall be AR-4000.
- d. Crushed aggregate base under access roads shall consist of durable and sound crushed gravel, crushed stone, free of lumps or balls of hay or other objectionable matter, in accordance with Section 200-2.2, "Crushed Aggregate Base" of the Standard Specifications. The aggregate shall be uniformly graded and shall conform to the requirements of Section 200-2.2.2 "Grading" of the Standard Specifications. Class II Aggregate Base material is an acceptable alternative.

4.5.2 Submittals

- a. The Contractor shall submit Certificates of Compliance for bituminous materials used in asphalt concrete pavement and asphaltic emulsion mixes proposed for this project. The certificates shall be signed by the manufacturer of the materials and shall state that materials involved shall comply in all respects with the requirements of these specifications.
- b. The Contractor shall prepare and submit a mix design to the County for review and approval at least 48 hours prior to beginning placement of asphalt concrete pavement for each mix design incorporated for use in this project.
- c. The Contractor shall submit to the County gradation test reports before delivery of aggregate base materials to the project site. The Contractor shall obtain the County's approval of the aggregate base material and material source in advance of the use of such materials in the work.

4.5.3 Execution

- a. The Contractor shall arrange and conduct a pre-job paving meeting no later than 48 hours prior to the scheduled paving date. The General Contractor, the Paving Subcontractor, and County personnel shall attend this meeting. Discussion topics shall include Contractor-proposed: paving machine and asphalt roller equipment spread, methodology for paving pass sequence, paving pass widths, longitudinal joint locations, and traffic control implementation and maintenance specific to each paving operations.
- b. All paving work shall be completed on a Sunday. No paving work at the Badlands Landfill will take place during business hours Monday through Saturday.
- c. The subgrade for the asphalt access road shall be prepared by the Contractor and shall conform to Section 4.4 of the Contract Documents.
- d. The Contractor shall install the aggregate base material on a prepared and approved subgrade as required by the Contract Documents. The aggregate base material shall consist of aggregate processed, deposited, spread, and compacted on a prepared surface. The aggregate base material shall be compacted to a minimum of 95 percent of the maximum density as determined per ASTM D1557. Compacting and finishing shall be in accordance with Section 301-2.3, "Compacting" of the Standard Specifications. The contractor shall be solely responsible for protection of completed areas against detrimental effects. Recondition, reshape, and re-compact areas damaged by rainfall, or other weather conditions.
- e. Prior to pavement application, surface preparation shall consist of cleaning the underlying course of foreign or objectionable matter with power blowers or

brooms where necessary. A tack coat shall be applied to the areas receiving pavement in accordance with Section 302-5.4, "Tack Coat" of the Standard Specifications.

- f. Distribution and spreading shall conform to the requirements of Section 302.5.5, "Distribution and Spreading" of the Standard Specifications.
- g. Rolling shall conform to the requirements of Section 302-5.6, "Rolling" of the Standard Specifications. Hand and mechanical tampers will not be permitted for compaction of road way section.
- h. The Contractor shall tie-in the new asphalt road to the existing asphalt section located near the fee booth by saw-cutting two feet of the existing asphalt section along the edge to be connected. Tack coat shall be applied where the new and existing asphalt meet to insure a secure connection.

4.5.4 Measurement and Payment

- a. The measurement of the final quantity for Bid Item No. 6 "Construct Asphalt Access Roadway" shall be determined by the County based on field measurements of the axial length (linear feet) along the centerline of the asphalt access road. **Payment** for the construction of the asphalt access road shall be at the unit price per linear foot, as stated in the Contractor's Proposal, **Bid Item No. 6. Payment** for the asphalt access road shall be based on the pertinent details required by the Contract Document as verified by the County through field measurements of the completed in-place access road, and shall include all the supply and installation of the aggregate base material as specified and required by the Contract Documents. Payments shall constitute full compensation for all labor, material, equipment, and all other items necessary and incidental to completion of this item of work.

4.6 ASPHALT ROADWAY STRIPING

4.6.1 Materials

- a. Thermoplastic traffic stripes and pavement marking materials shall conform to the State of California Department of Transportation Specification for Thermoplastic Traffic Striping Material, Alkyd Resin Binder (PTH-02ALKYD), Hydrocarbon Resin Binder (PTH-02HYDRO), or Sprayable Thermoplastic Traffic Striping Material (PTH-02SPRAY).
- b. Thermoplastic traffic stripes and raised pavement markers, where applicable, shall conform to the most current approved pre-qualified and tested signing and delineation materials and products list maintained by the California Department of Transportation.

- c. Raised pavement markers shall conform to Section 85, "Pavement Markers" of the latest edition of the State of California Department of Transportation Standard Specifications, Part 3 "Markings" of the Cal MUTCD, and the Contract Document.

4.6.2 Execution

- a. All work necessary to establish alignment and layout for stripes and pavement markers shall be performed by the Contractor with any device or method that will not damage the pavement or conflict with other control devices.
- b. Traffic stripes and pavement markings shall conform to the dimensions and details shown on the corresponding Cal MUTCD detail.
- c. Completed stripes shall have clean and well defined edges without running or deformation, shall be uniform, shall be straight on tangent alignment and shall be on a true arc on curved alignments. The widths of the completed stripes shall not deviate more than $\frac{1}{4}$ inch on tangent or more than $\frac{1}{2}$ inch on curves as determined by the County representative in the field. Broken stripes shall also conform to the following requirements:
 - i. The lengths of the gaps and individual stripes that form broken traffic stripes shall not deviate more than 1 inch from their standard lengths.
 - ii. The lengths of the gaps and individual stripes shall be of such uniformity throughout the entire length of each broken traffic stripe that a normal striping machine will be able to repeat the pattern and superimpose additional stripes upon the traffic stripe being applied.
- d. Completed pavement markings shall have clean and well-defined edges without running or deformation and shall conform to dimensions shown on the referenced details, except that minor variations may be accepted by the County representative in the field.
- e. Thermoplastic striping for the project shall be in accordance with requirements of the Contract Documents, and shall be implemented in compliance with the manufacturer's instructions and the applicable construction procedures, and details expressed in referenced standards.
- f. New striping and pavement markings shall be applied to the prepared asphalt surface after cleaning (with a wire brush or by another County approved method) and prior to the opening of the roadway to landfill traffic. Any areas exposed to landfill traffic after surface preparation and cleaning shall be subject to inspection by the County and may require additional cleaning prior to application of striping.

- g. The Contractor shall not apply coatings during rain, when humidity is above 50 percent, or when the temperature is less than 50°F, unless otherwise allowed by manufacturer's instructions and approved by the County.
- h. A primer/sealer, of the type recommended by the manufacturer of the thermoplastic material, shall be applied to all asphaltic surfaces. The primer/sealer shall be applied immediately in advance of, and concurrent with, the application of the thermoplastic material or in accordance with the manufacturers' recommendations. The primer/sealer shall be applied at the application rate recommended by the manufacturer and shall not be thinned.
- i. Pre-heaters with mixers having 360 degree rotation shall be used to preheat the material. The thermoplastic material shall be applied to the pavement at a temperature between 400° F and 425° F, unless a different temperature is recommended by the manufacturer. The thermoplastic material shall be applied by either spray or extrusion methods in a single uniform layer.
- j. Stencils shall be used when applying thermoplastic material for pavement markings. The pavement surface to which the thermoplastic material is applied shall be completely coated by the material and the voids of the pavement surface shall be filled.
- k. Thermoplastic material for traffic stripes shall be applied at a minimum thickness of 0.060 inch. Thermoplastic material for pavement legends and markings shall be applied at a thickness of 0.100-inch to 0.150-inch. Glass beads shall be applied immediately to the surface of the molten thermoplastic material at a rate of not less than 8 pounds per 100 square feet. The amount of glass beads applied shall be measured by stabbing the glass bead tank with a calibrated rod.
- l. The Contractor shall take precautionary measures to prevent spills or fire hazards. Drips, overspray, improper markings and paint and thermoplastic material tracked in by traffic shall be immediately removed from the pavement surface by methods approved by the County. All this removal work shall be at the Contractor's expense.

4.6.3 Measurement and Payment

- a. Payment for traffic striping and pavement makers shall be based upon the lump sum as stated in **Bid Item No. 7 "Asphalt Roadway Striping"** in the Contractor's Proposal. Stripes to be paid under this bid item shall conform to the requirements of the Cal MUTCD, Fig. 3A-102 (CA) Detail 9.
- b. The contract lump sum price for traffic stripes of the widths and patterns designated shall include full compensation for furnishing all labor, material, tools, equipment and incidentals, and for doing all the work involved including, but not limited to: establishing alignment and layout markings for the installation

of traffic stripes/markers, supply and installation of thermoplastic stripes and glass beads, supply and installation of raised pavement markers to completely install the lane line pattern as required by the Contract Documents and as shown in the Project Drawings.

4.7 CONSTRUCT QUARRY ROCK/BASE ROADWAY

4.7.1 Materials

- a. Quarry rocks shall be 3"-6" in dimension and shall consist of angular quarry stone. Flat or elongated shapes will not be accepted unless the thickness of the individual pieces is at least one-third of the length.
- b. Stone shall be sound, durable, hard, resistant to abrasion and free from laminations, weak cleavage planes, and the undesirable effects of weathering. It shall be of such character that it will not disintegrate from the action of air, water, or the conditions to be met in handling and placing. All material shall be clean and free from deleterious impurities, including alkali, earth, clay, refuse, and adherent coatings.
- c. Crushed aggregate base shall consist of durable and sound crushed gravel, crushed stone, free of lumps or balls of hay or other objectionable matter, in accordance with Section 200-2.2, "Crushed Aggregate Base" of the Standard Specifications. The aggregate shall be uniformly graded and shall conform to the requirements of Section 200-2.2.2 "Grading" of the Standard Specifications. Class II Aggregate Base material is an acceptable alternative.
- d. The geotextile material shall be a new, high quality product. The geotextile shall be 100 percent polyester or polypropylene, woven slit film geotextile. Geotextile rolls shall be shipped and stored in opaque and watertight wrappings. The Contractor shall be responsible for detecting and repairing all damaged areas.

4.7.2 Execution

- a. The subgrade for the aggregate base road will be prepared by the Contractor prior to construction of the aggregate base road in accordance with Section 4.4 of the Contract Documents. The Contractor shall construct the aggregate base roads in accordance with the cross sections shown in the Project Drawings.
- b. The Contractor shall install the geotextile filter fabric, quarry rock, and aggregate base material on a prepared and approved subgrade in accordance with Section 4.4 of the Contract Documents. The quarry rock and aggregate base shall be processed, deposited, spread, and compacted on the prepared surface. The quarry rock material shall be compacted to a minimum of 95% of the maximum density as determined per ASTM D1557. Compacting and finishing shall be in accordance with Section 301-2.3, "Compacting" of the Standard Specifications.

The contractor shall be solely responsible for protection of completed areas against detrimental effects. Reconditioning, reshaping, and re-compacting areas damaged by rainfall, or other weather conditions shall be performed by the Contractor.

- c. Distribution and spreading shall conform to the requirements of Section 302.5.5, "Distribution and Spreading" of the Standard Specifications. All transitions and edges shall be feathered to conform to the existing surface and provide a smooth transition.

4.7.3 Measurement and Payment

- a. The measurement of the final quantity for Bid Item No. 8 "Construct Quarry Rock/Base Roadway" shall be determined by the County based on field measurements of the surface area of the aggregate base road. **Payment** for the construction of the aggregate base road shall be at the unit price per square foot, as stated in the Contractor's Proposal, **Bid Item No. 8**. **Payment** for the aggregate base road shall be based on the pertinent details required by the Contract Documents as verified by the County through field measurements of the completed in-place aggregate road, and shall include all the supply and installation of the aggregate base material as specified and required by the Contract Documents.

4.8 SUPPLY AND INSTALL K-RAILS

4.8.1 Materials

- a. K-Rails shall consist of interconnected new precast concrete barrier units, and shall be supplied and installed at the locations and in conformance with the details shown on the Project Drawings and as required by the Contract Documents.
- b. K-rails shall conform to the provisions in Section 12-3.08 of the State Standard Specifications. Standard 10' sections shall be used.

4.8.2 Execution

- a. The Contractor shall set the k-rail on firm, stable surface in order to provide a uniform bearing throughout the entire length of the railing.
- b. Abutting ends of precast concrete units (k-rail barrier) shall be placed and maintained in alignment without substantial offset to each other. The precast concrete units shall be positioned straight on tangent alignment and on a true arc on curved alignment.

- c. The completed k-rail barrier units shall present a smooth uniform appearance in their final position, conforming closely to the horizontal and vertical lines shown on the Project Drawings and as directed by the County.

4.8.3 Measurement and Payment

- a. The measurement of the final quantity for Bid Item No. 9 "Supply & Install K-Rail" shall be determined by the County based on the number of each standard length of completed k-rail sections (10' sections) installed at the locations and in conformance with the details shown on the Project Drawings and as required by the Contract Documents. **Payment** for K-rail and all related work shall be based upon the number of each standard length of completed in place k-rail sections (10' sections) as stated in the Contractor's Proposal, **Bid Item No. 9**; and no additional compensation will be allowed. Payments shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in supplying and installing K-rail completed in place.

END OF SECTION 4

SECTION 5 - SURFACE DRAINAGE IMPROVEMENTS AT LAMB CANYON SANITARY LANDFILL

5.1 GENERAL

The work covered by this section shall consist of furnishing all necessary labor, materials, equipment, tools and supervision for the construction of the following drainage structure items at the locations indicated on the Project Drawings or as directed by the County.

5.2 CORRUGATED METAL FLUME INLETS AND DOWN DRAINS

5.2.1 Materials

- a. Metal flumes and inlets shall be fabricated in accordance with the details and dimensions shown on the plans, except that minor variations may be accepted at the discretion of the Engineer to permit the use of manufacturer's standard jigs and templates in the fabrication. Flumes and inlets shall be galvanized corrugated metal, with a minimum thickness of 0.064" (16 gauge) as manufactured by Pacific Corrugated Pipe Company or approved equal.
- b. Pipe stakes and bracket hardware shall be hot-dip galvanized, after fabrication.

5.2.2 Execution

- a. Entrance tapers and tapered inlets shall be installed in such a manner as to function properly and efficiently. They shall be so placed as to prevent water from percolating under or around them. The metal flume pieces shall be securely anchored to the slope of the ground with an anchor assembly as shown on the Project Drawings. Flume inlet sections shall be embedded in AC pads, berms and dikes as shown on the Project Drawings.

5.2.3 Measurement and payment

- a. The measurement of the final quantity for Bid Item No. 12 and Optional Bid Item No. 22 'Supply and Install 24" Wide Metal Flume Down Drains' shall be determined by the County by measurements of the completed in-place axial length (linear feet) of metal flume down drains installed at the locations and in conformance with the details shown on the Project Drawings and as required by the Contract Documents. **Payment** for all metal flume down drains and related work shall be at the contract unit price per linear foot of completed in place length as stated in the Contractor's Proposal, **Bid Item No. 12 and Optional Bid Item No. 22** and no additional compensation will be allowed. Payments shall constitute full compensation to the Contractor for all work related to the construction of metal flume down drains in the project including but not limited to: furnishing all labor, materials, tools, equipment, subgrade preparation, pipe

anchors, fasteners, hardware, connections and incidentals as specified in the Contract Documents and indicated in the Project Drawings.

- b. *The measurement of the final quantity for Bid Item No. 13 and Optional Bid Item No. 23 'Supply and Install 24" Wide Metal Flume Inlet'* shall be determined by the County based upon the specified number of units installed at the locations and in conformance with the details shown on the Project Drawings and as required by the Contract Documents. **Payment** for all metal flume inlets and related work shall be at the contract unit price for each individual inlet installed as stated in the Contractor's Proposal, **Bid Item No. 13 and Optional Bid Item No. 23** and no additional compensation will be allowed. Payments shall constitute full compensation to the Contractor for all work related to the construction of metal flume inlets in the project including but not limited to: furnishing all labor, materials, tools, equipment, subgrade preparation, pipe anchors, starter section (entrance taper), fasteners, hardware, connections and incidentals as specified in the Contract Documents and indicated in the Project Drawings. AC pads for anchoring flume inlets shall be compensated under Bid Item No. 12 "Asphalt Drainage Structures".

5.3 ASPHALT CONCRETE STRUCTURES

The work covered in this section shall consist of furnishing all necessary labor, materials, equipment, tools and supervision for the construction of Asphalt Concrete (A.C.) pavement which shall include, but is not limited to: drainage channels, ditches, down drains, transitions, inlet and outlet structures. The work shall include subgrade preparation, installation of A.C. pavement (with fog seal) to the specified lines and grades and at the locations shown on the Project Drawings and as required by the Contract Document and as directed by the County.

5.3.1 Materials

- a. Asphalt concrete pavement shall consist of hot mineral aggregate uniformly mixed with hot bituminous material.
- b. Asphalt paving material for Asphalt Drainage Structures shall be class and grade D1-PG 70-10, and shall conform to Part 2, Section 203-6 of the Standard Specifications.
- c. Fog seal coat material shall be of emulsified asphalt, grade CSS1 or CSS1H, and shall conform to Part 2, Section 203-3 of the Standard Specifications.
- d. Tack Coat: Tack Coat shall conform to Section 302-5.4, "Tack Coat" of the Standard Specifications and shall be AR-4000.

5.3.2 Submittals

- a. The Contractor shall submit Certificates of Compliance for bituminous materials used in asphalt concrete pavement and asphaltic emulsion mixes proposed for this project. The certificates shall be signed by the manufacturer of the materials and shall state that materials involved shall comply in all respects with the requirements of these specifications.
- b. The Contractor shall prepare and submit a mix design to the County for review and approval at least 48 hours prior to beginning placement of asphalt concrete pavement for each mix design incorporated for use in this project.

5.3.3 Execution

- a. The subgrade for all asphalt structures in this project shall conform to the locations and cross sections as shown on the Project Drawings or as directed by the County. The upper six (6) inches of subgrade shall be compacted to a minimum of 95 percent of the maximum density as determined per ASTM D1557. This shall be achieved by scarifying the exposed surface to a depth of six (6) inches and re-compacting.
- b. Distribution and spreading shall conform to the requirements of Section 302.5.5, "Distribution and Spreading" of the Standard Specifications. All transitions and edges shall be feathered to conform to the existing surface and provide a smooth transition.
- c. Rolling shall conform to the requirements of Section 302-5.6, "Rolling" of the Standard Specifications. Hand and mechanical tampers will not be permitted for compaction.
- d. One application of a fog seal coat shall be applied at a rate of 0.06 to 0.12 gallons per square yard and shall conform to the requirements of Section 203-3, "Emulsified Asphalt" of the Standard Specifications.
- e. Prior to repairing any damage structures for Bid Item No. 15 "Saw Cut and Replace Damaged AC", County field staff shall indicate and mark the portions of asphalt that need to be removed. The Contractor shall evenly saw cut the asphalt along the specific lines marked by County field staff. The Contractor shall transport any asphalt debris to designated areas as specified by the County. After the saw cutting operation is complete, the Contractor shall clean the surface of the remaining in-place asphalt to ensure an adequate bonding surface between the existing asphalt and new asphalt. A tack coat shall be applied to the areas receiving new asphalt in accordance with Section 302-5.4, "Tack Coat" of the Standard Specifications.

5.3.4 Measurement and Payment

- a. The measurement of the final quantity for Bid Item No. 14 "Asphalt Drainage Structures" and Optional Bid Item No. 21 "Construct 4'x1.5' Asphalt V-Ditch" shall be based on the pertinent details required by the Contract Documents as verified by the County through field measurements of these structures. **Payment** for asphalt drainage structures shall be at the contract unit price per square foot, as stated in the Contractor's Proposal, **Bid Item No. 14**. **Payment** for constructing 4'x1.5' asphalt v-ditch shall be at the contract unit price per linear foot, as stated in the Contractor's Proposal, **Optional Bid Item No. 21**.

The measurement of the final quantity for Bid Item No. 15 "Saw Cut and Replace Damaged AC" shall be based on the pertinent details required by the Contract Documents as verified by the County through field measurements of these structures. **Payment** for saw cutting and replacing damaged AC structures shall be at the contract unit price per square foot, as stated in Contractor's Proposal, **Bid Item No. 15**.

Each and every Asphalt Concrete load ticket shall be delivered to the County by truck drivers at the point of delivery. **Payment** quantities for all Asphalt Structures shall be based upon the specified limits and dimensions on the Project Drawings, adjusted by the amount of any change ordered by the County. Payment for all Asphalt Structures shall include subgrade preparation and fog seal as specified in the Contract Documents and indicated in the Project Drawings. No payment will be made for any asphalt placed outside the specified limits and dimensions unless otherwise ordered in writing by the County. Payment shall include full compensation for furnishing all labor, material, tools, equipment, and incidentals, and for doing all the work related to and involved in constructing the Asphalt Structures completed in place.

5.4 CONSTRUCT 20 MIL LDPE DRAINAGE SWALE

5.4.1 Materials

- a. The 20 mil LDPE material necessary to construct the drainage swale shall be provided to the Contractor by the County.

5.4.2 Execution

- a. The subgrade for the 20 mil LDPE drainage swale shall conform to the locations and cross sections as shown on the Project Drawings or as directed by the County. The upper six (6) inches of subgrade shall be compacted to a minimum of 95 percent of the maximum density as determined per ASTM D1557. This shall be achieved by scarifying the exposed surface to a depth of six (6) inches and re-compacting.

- b. The contractor shall provide a 5' overlap between consecutive 20 mil LDPE panels. The overlap seams shall be heat bonded together and shingled in the downhill direction to prevent water from percolating underneath the LDPE material.
- c. Anchor trenches for drainage swale shall be 6"x6" and compacted in place.

5.4.3 Measurement and Payment

- a. The measurement of the final quantity for Bid Item No. 16 "Construct 20mil LDPE Drainage Swale" shall be determined by the County based on field measurements of the axial length (linear feet) of drainage swale constructed at the locations and to the dimensions shown on the Project Drawings. **Payment** for the construction of 20 mil LDPE drainage swale shall be at the contract unit price per linear foot as stated in the Contractor's Proposal, **Bid Item No. 16**. **Payment** quantities for all LDPE drainage swales shall be based upon the specified limits and dimensions on the Project Drawings, adjusted by the amount of any change ordered by the County. Payment for all LDPE drainage swales shall include subgrade preparation as specified in the Contract Documents and indicated in the Project Drawings. No payment will be made for any 20 mil LDPE material placed outside the specified limits and dimensions unless otherwise ordered in writing by the County. Payment shall include full compensation for furnishing all labor, material, tools, equipment, and incidentals, and for doing all the work related to and involved in constructing the LDPE drainage swales completed in place.

5.5 SUPPLY AND INSTALL GRAVEL BAGS

5.5.1 Materials

- a. Gravel bags shall be filled with 5/16" pea gravel or approved equal.

5.5.2 Execution

- a. Gravel bags shall be furnished and installed along the edge of the entire length of the 20 mil LDPE drainage swale as shown in the details of the Project Drawings.

5.5.3 Measurement and Payment

- b. The measurement of the final quantity for Bid Item No. 17 "Supply and Install Gravel Bags" shall be determined by the County based upon the specified number of gravel bags installed at the locations and in conformance with the details shown on the Project Drawings. **Payment** for all gravel bags and related work shall be at the contract unit price for each individual gravel bag installed as stated in the Contractor's Proposal, **Bid Item No. 17**. **Payment** quantities for all installed gravel bags shall be based upon the specified limits on the

Project Drawings, adjusted by the amount of any change ordered by the County. No payment will be made for any gravel bags placed outside the specified limits unless otherwise ordered in writing by the County. Payment shall include full compensation for furnishing all labor, material, tools, equipment, and incidentals, and for doing all the work related to and involved in supplying and installing gravel bags completed in place.

5.6 PARTIAL GROUTED ¼ TON RIP-RAP

5.6.1 Materials

- a. Stone shall be approved durable broken stone quarry run, and of such quality that it will not disintegrate on exposure to water or weathering and free from structural fractures and defects, and shall not contain shale, unsound sandstone, or other materials which will readily disintegrate.
- b. The rip rap shall be composed of a well-graded mixture of rocks. The gradation of rocks shall conform with the Table 200-1.6(A) of the Standard Specifications as follows:

Rock Size	500lb. (225 kg) Class	375lb. (170 kg) Class	Light (90 kg) Class	Facing (35 kg) Class
500 lbs.	50-100	10-50	0-5	-

- c. Unless otherwise indicated, the minimum thickness of the rip rap stones shall be eighteen (18) inches. Neither breadth nor thickness of any stone shall be less than one-third of its length. The rock shall be sized so as to permit its interlocking.
- c.
- d. When grouting is required, Ready-mixed Grout shall conform to Section 202-c. 1.5.2 of the Standard Specifications.
- c.

5.6.2 Execution

- a. The subgrade for rip rap lining shall be prepared by either cutting or filling to the lines, grades and cross sections shown on the Project Drawings or as directed by the County. The subgrade shall be prepared to the specified grades, compacted to 90% relative compaction, contain no loose material, and be subject to the approval of the County.
- b. The rip rap stones shall be placed to the full thickness as shown on the Project Drawings in a single operation. In placing the riprap stones, the Contractor shall take adequate precautions to avoid displacement of underlying bedding material. The Contractor may move and place individual stones as necessary to

obtain a reasonably well-graded distribution. The finish riprap lining shall be free of pockets of small stones or clusters of larger rocks and shall be approved by the County.

- c. The construction method of the grouted rip rap structures shall be performed in accordance to Section 72-5 of the State Standard Specifications, Method B placement.

5.6.3 Measurement and Payment

- a. The measurement of the final quantity for Bid Item No. 18 "Partial Grouted 1/4 Ton Grouted Rip-Rap" shall be determined by the County by measuring the surface area within the limits specified in the Contract Documents. Measurement shall be determined after the Grouted Rip-Rap structures have been installed, tested, and verified by the County. The final surface shall be verified by the County. **Payment** for all Grouted Rip-Rap structures shall be at the contract unit price per square feet as stated in the Contractor's Proposal, **Bid Item No. 18** and shall constitute full compensation to the Contractor for all work related to the construction of Grouted rip-rap structures in the project including but not limited to: furnishing all labor, materials, tools, equipment, subgrade preparation, and incidentals, and for doing all the work involved in constructing grouted Rip-rap structures, complete in place, as shown on the Project Drawings or as directed by the County. Payment for all Grouted Rip Rap structures shall include subgrade preparation as specified in the Contract Documents and indicated in the Project Drawings.

5.7 CONSTRUCT EARTHEN DIVERSION BERMS

5.7.1 Material

- a. Earthen material for the construction of the earthen berms shall be obtained from the excess material generated from the surface drainage subgrade excavation construction. If necessary, the County shall provide the contractor with additional earthen material.

5.7.2 Execution

- a. The earthen diversion berms shall be constructed at the locations, to the dimensions, and in accordance with the details shown on the Project Drawings and as directed by the County.
- b. All diversion berms shall be constructed of earthen material, and shall be compacted to a minimum of 90% relative compaction.
- c. The construction material for earthen berms shall not contain brush, roots, sod, or other deleterious or unsuitable materials.

5.7.3 Measurement and Payment

- a. The measurements of the final quantity for Bid Item 19 "Construct Earthen Diversion Berms" shall be determined by the County based on field measurements of the axial length (linear feet) of earthen berms constructed at the locations and to the dimensions shown on the Project Drawings. **Payment** for the construction of earthen berms shall be at the contract unit price per linear foot as stated in the Contractor's Proposal, **Bid Item No. 19** and shall constitute full compensation to the Contractor for all work related to the construction of earthen berms in the project including but not limited to: furnishing all labor, supervision, materials, tools, and equipment; excavating, hauling, loading, moisture conditioning, compacting, grading, shaping, surveying, construction of temporary haul roads, and any other requirements by the Contract Documents for the construction of earthen berms.

5.8 SUPPLY AND INSTALL STRAW BALE CHECK DAM

5.8.1 Material

- a. Bales shall consist of straw material, be 3.5' x 1.5' x 2' (length x width x height), and be anchored with metal t-post and wire fence.

5.8.2 Execution

- a. Straw Bale check dam shall be installed in accordance with the details included in the Project Drawings, or as directed by the County.

5.8.3 Measurement and Payment

- b. The measurement of the final quantity for Bid Item No. 20 "Supply and Install Straw Bale Check Dam" shall be determined by the County based upon the specified number of straw bales installed at the locations and in conformance with the details shown on the Project Drawings. **Payment** for all installed straw bale check dams and related work shall be at the contract unit price for each individual straw bale installed as stated in the Contractor's Proposal, **Bid Item No. 20**. **Payment** quantities for all installed straw bales shall be based upon the specified limits on the Project Drawings, adjusted by the amount of any change ordered by the County. No payment will be made for any straw bales placed outside the specified limits unless otherwise ordered in writing by the County. Payment shall include full compensation for furnishing all labor, material, tools, equipment, and incidentals, and for doing all the work related to and involved in supplying and installing straw bale check dams completed in place.

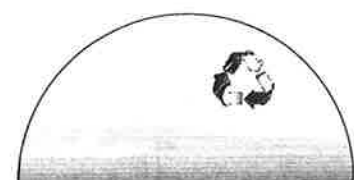
END OF SECTION 5

BADLANDS SANITARY LANDFILL

PLANS FOR SURFACE DRAINAGE AND ACCESS ROAD IMPROVEMENT PROJECT

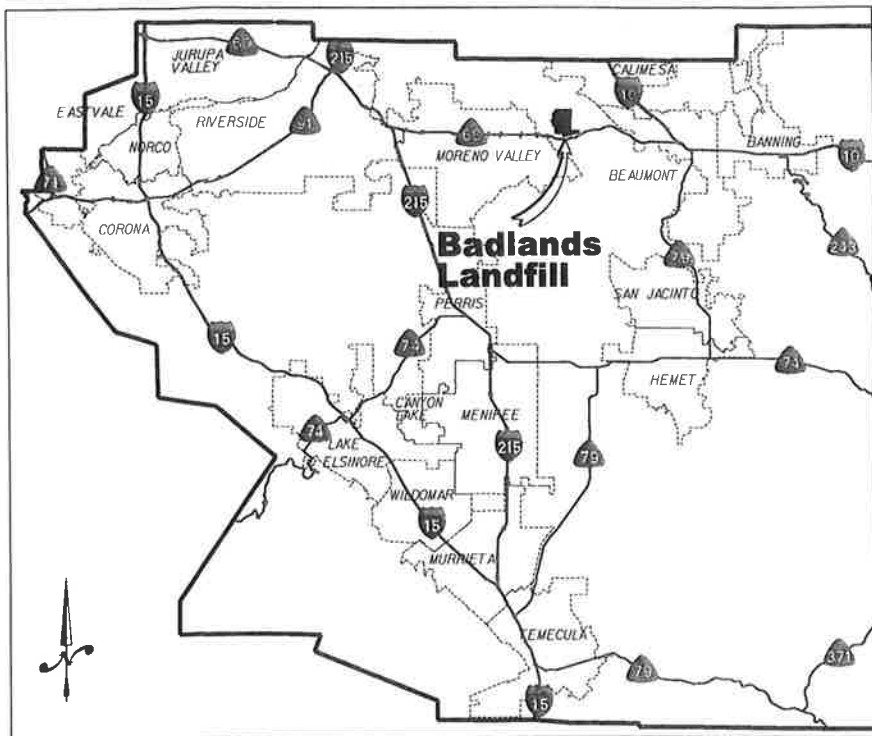
SEPTEMBER 2011

PREPARED BY
WASTE MANAGEMENT DEPARTMENT
HANS KERNKAMP, GENERAL MANAGER/CHIEF ENGINEER
14310 FREDERICK STREET
MORENO VALLEY, CALIFORNIA 92553
TEL. (951) 486-3200 FAX (951) 486-3205



Riverside County
Waste Management Department

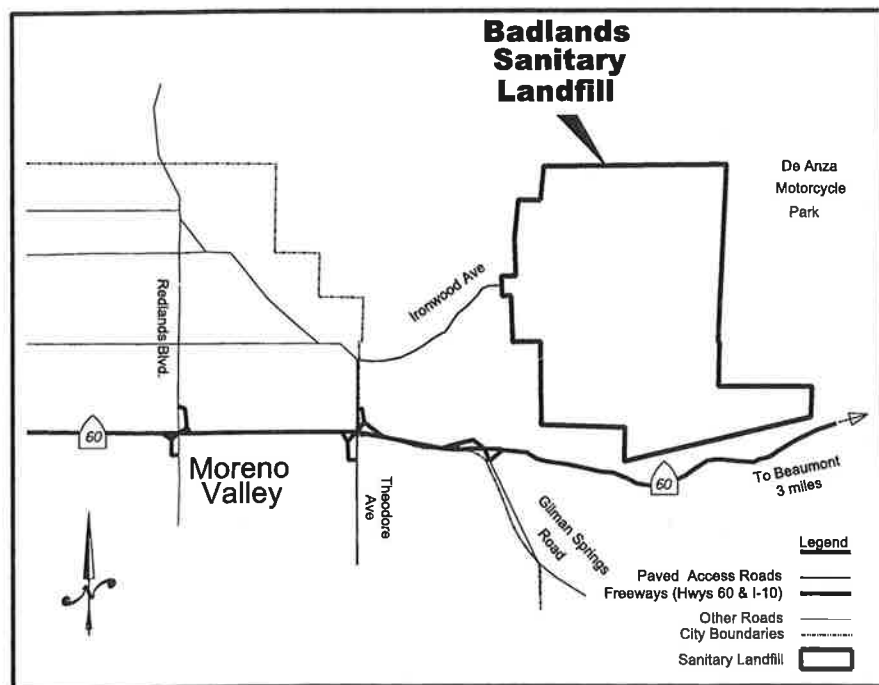
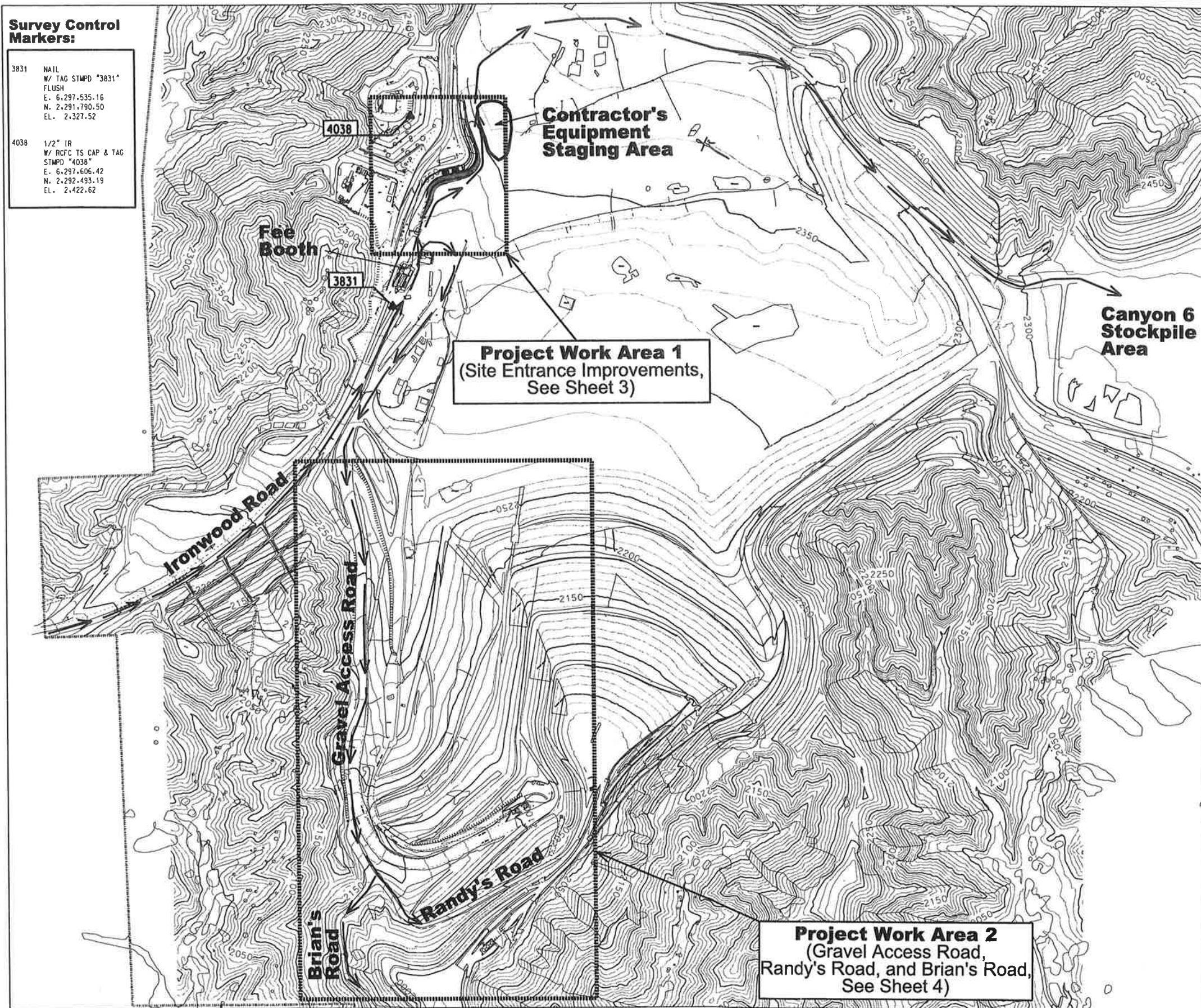
WASTE MANAGEMENT DEPARTMENT			
APPROVED:		SUBMITTED:	
	General Manager/Chief Engineer R.C.E. C-45868 Exp. 12/31/12		Asst. Chief Engineer R.C.E. C-51694 Exp. 06/30/12
RECOMMENDED:		CHECKED:	
	Principal Engineer R.C.E. C-56192 Exp. 12/31/12		Eng'g Proj. Manager R.C.E. C-62528 Exp. 12/31/11
		DESIGNED:	
			Asst. Civil Engineer R.C.E. C-78469 Exp. 9/30/13



LOCATION MAP
N.T.S.

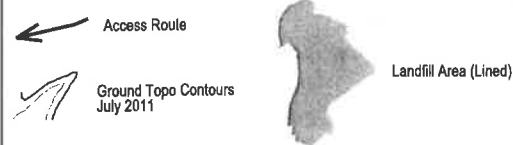
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4038	1/2" IR W/ RCFC TS CAP & TAG STMPD "4038" E. 6,297.606.42 N. 2,292.493.19 EL. 2,422.62



BADLANDS LANDFILL VICINITY MAP
N.T.S.

Legend:



NO.	REVISIONS	BY	APPROVED	DATE

Riverside County
Waste Management Department
Hans Kernkamp, General Manager/Chief Engineer

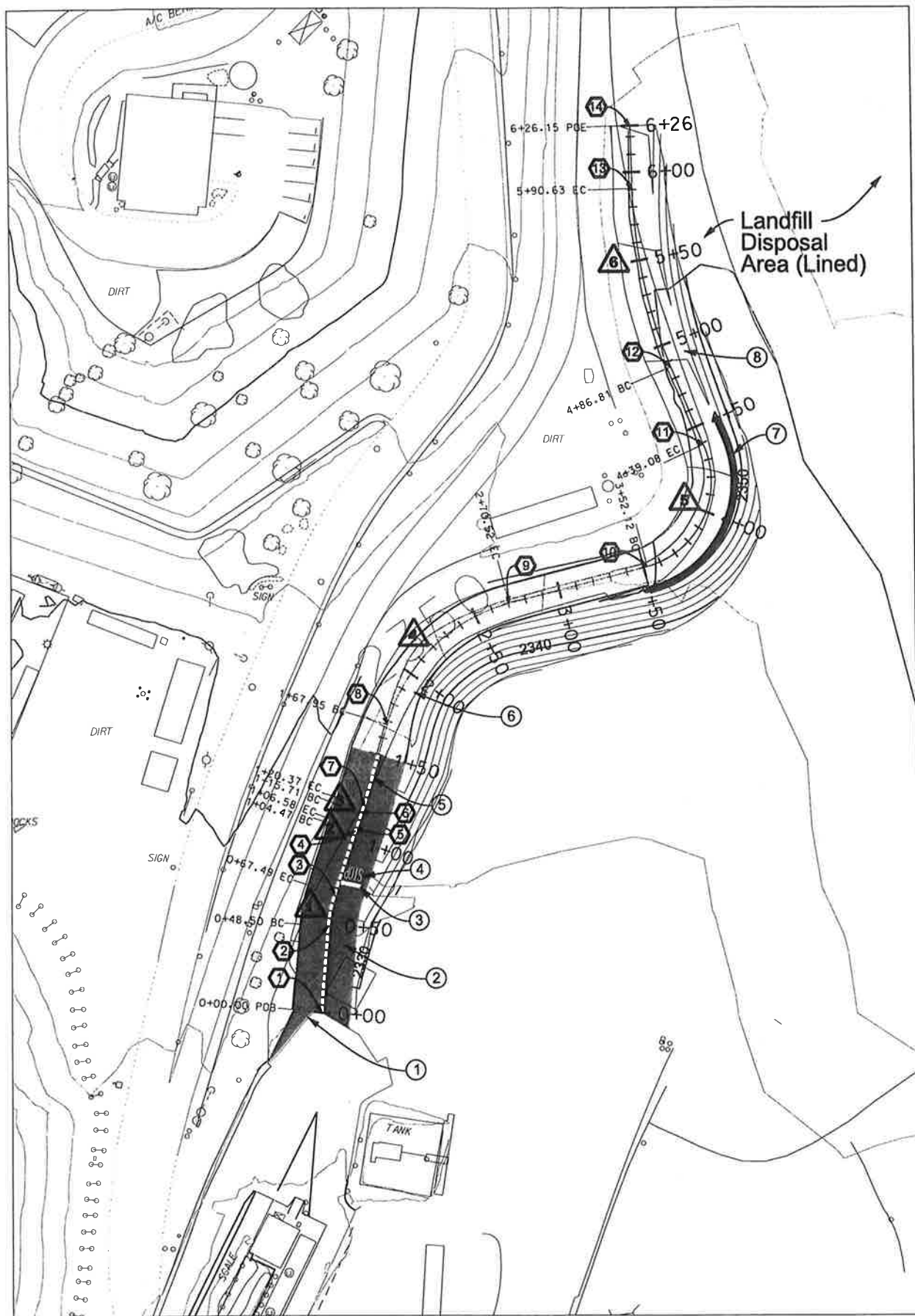
1" = 200' (full), 1" = 400' (11" x 17")

0 200 400 600 800 1000
Datum is mean sea level.

DESIGNED BY:	SW
DRAWN BY:	EWE
CHECKED BY:	ACIAE
DRAWING DATE:	Sept. 15, 2011
TOPO DATE:	July 5, 2011
SCALE:	1" = 200' (full), 1" = 400' (11" x 17")
PATH:	engineering/sites/badlands/11ba/
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Badlands Sanitary Landfill
Surface Drainage and
Access Road Improvement Project

Site Map

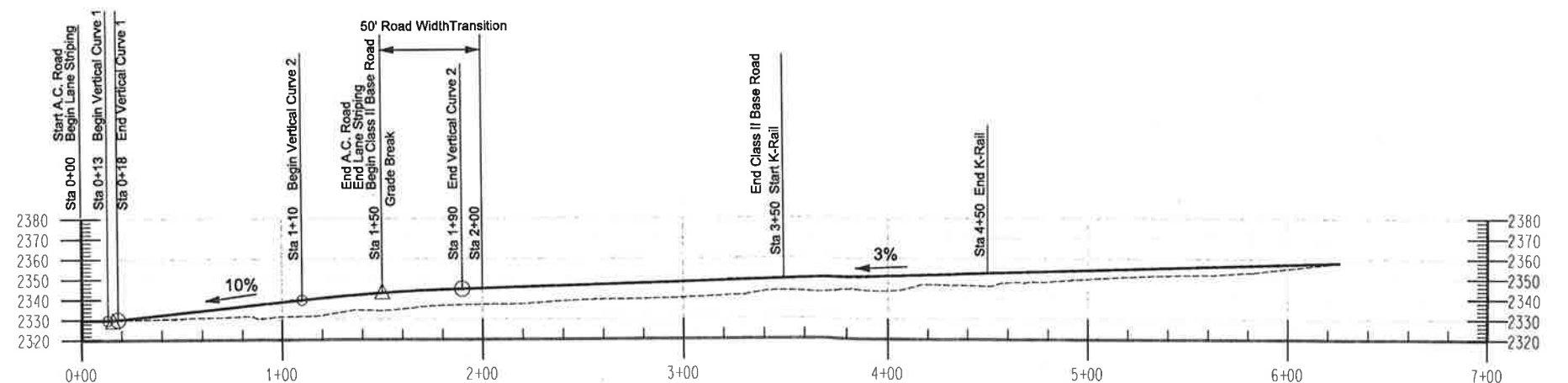


	Δ	R	T	L
1	36°37'08"	80.0'	9.54'	18.99'
2	1°30'42"	80.0'	1.06'	2.11'
3	3°20'05"	80.0'	2.33'	4.65'
4	58°46'06"	100.0'	56.31'	102.57'
5	99°38'52"	50.0'	59.22'	86.96'
6	21°14'41"	280.0'	52.51'	103.82'

Pt.	North	East
1	2292055.47	6297627.53
2	2292103.80	6297631.50
3	2292122.37	6297635.27
4	2292157.48	6297646.88
5	2292159.48	6297647.57
6	2292168.07	6297650.66
7	2292172.49	6297652.11
8	2292218.12	6297665.60
9	2292286.47	6297736.01
10	2292307.26	6297814.92
11	2292376.28	6297847.71
12	2292420.34	6297829.37
13	2292521.32	6297807.95
14	2292556.83	6297807.12

Vertical Curve 1:
 Type Symmetric Parabola
 Dir Sag G2 0.104
 L 5.00' e 0.06'
 LI 2.50' SD 29.09'
 L2 2.50' K 0.53
 GI 0.010 R 188.72

Vertical Curve 2:
 Type Symmetric Parabola
 Dir Crest G2 0.030
 L 80.00' e -0.74'
 LI 40.00' SD 185.31'
 L2 40.00' K 10.77
 GI 0.104 R -9.28

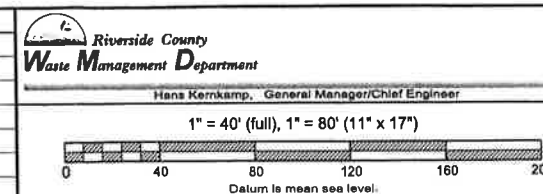


Construction Notes:

- ① Sawcut and Remove Existing Asphalt Areas as Directed by the County; Tie-In New Asphalt to Existing Asphalt.
- ② Construct Asphalt Road per Detail $\frac{D1}{5}$
- ③ Install Thermoplastic 12" White Limit Line per Caltrans Manual page 6-10, index no. 6-02.11
- ④ Install Thermoplastic 'STOP' Pavement Markings per Caltrans Traffic Manual page 6-60
- ⑤ Install Thermoplastic 4" white lane stripe with Raise Pavement Markers per Caltrans Traffic Manual page 6-26, Detail 9
- ⑥ Construct Class II Base Road per Detail $\frac{D2}{5}$
- ⑦ Furnish & Install K-Rail Barriers in Accordance with the Project Specifications & Detail $\frac{D3}{5}$
- ⑧ Construct Earthen Road per Detail $\frac{D3}{5}$



NO.	REVISIONS	BY	APPROVED	DATE



DESIGNED BY: SW
 DRAWN BY: EWE/SW
 CHECKED BY: ACIAE
 DRAWING DATE: Sept. 15, 2011
 TOPO DATE: July 5, 2011
 SCALE: 1" = 40' (full), 1" = 80' (11" x 17")
 PATH: engineering\hills\badlands\11ba\projects\winterization 2011\hfy plans\ba_sheet3_exit_road_improvement_plan.dgn

Badlands Sanitary Landfill
 Surface Drainage and
 Access Road Improvement Project
Exit Road Improvement

Construction Notes:

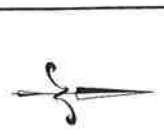
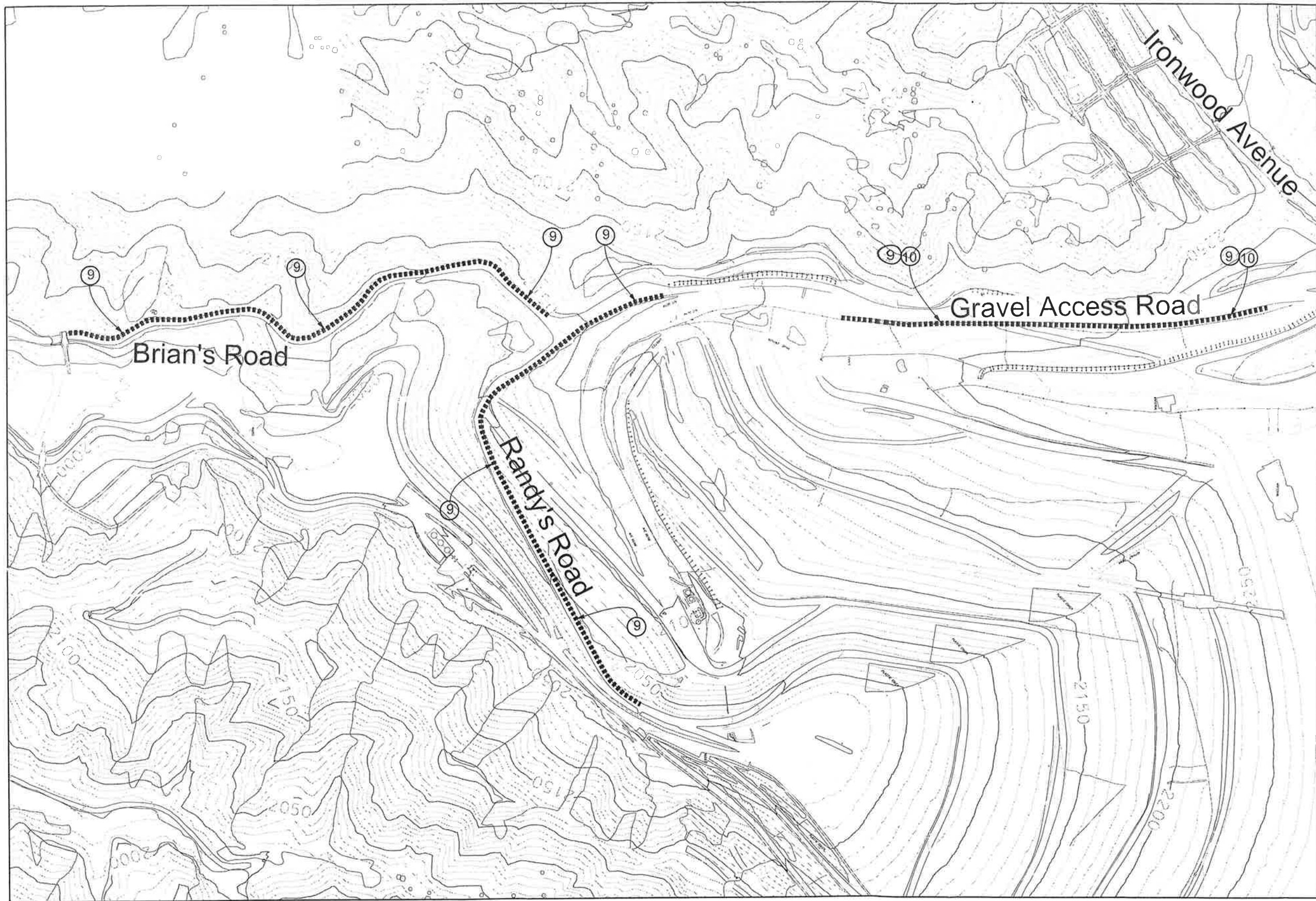
9 Proposed Quarry Rock Trench
per Detail



10 If buried refuse is found during
excavation, Contractor will
over-excavate the trench
according to detail



if no refuse is found, Contractor
will excavate per detail



NO.	REVISIONS	BY	APPROVED	DATE

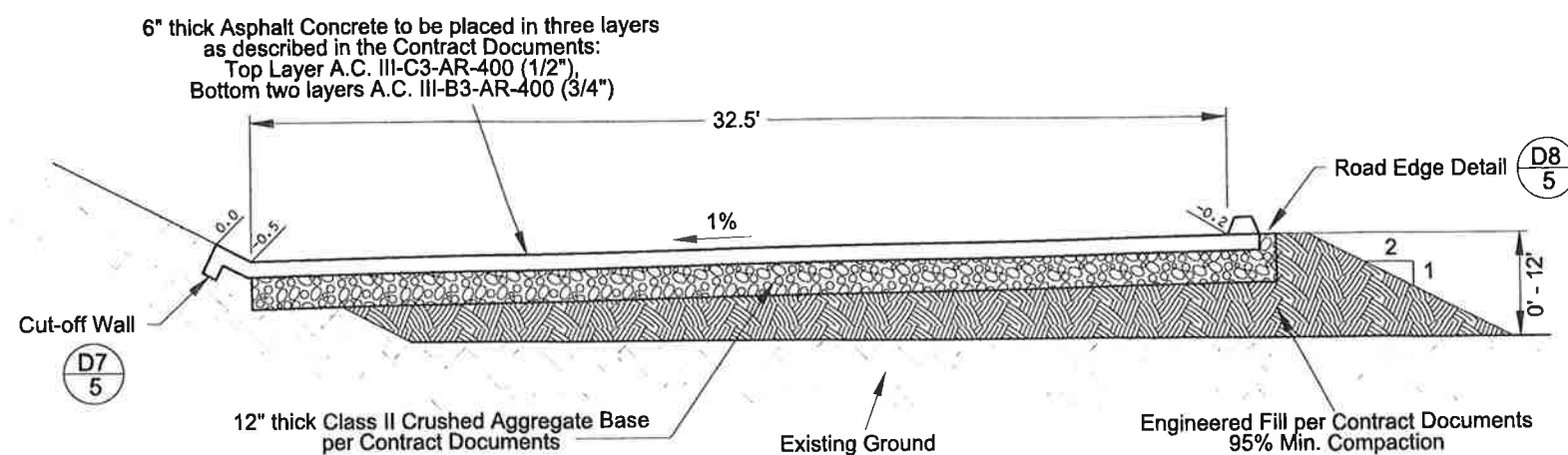
Riverside County
Waste Management Department
Hans Kerrkamp, General Manager/Chief Engineer

1" = 200' (11" x 17")

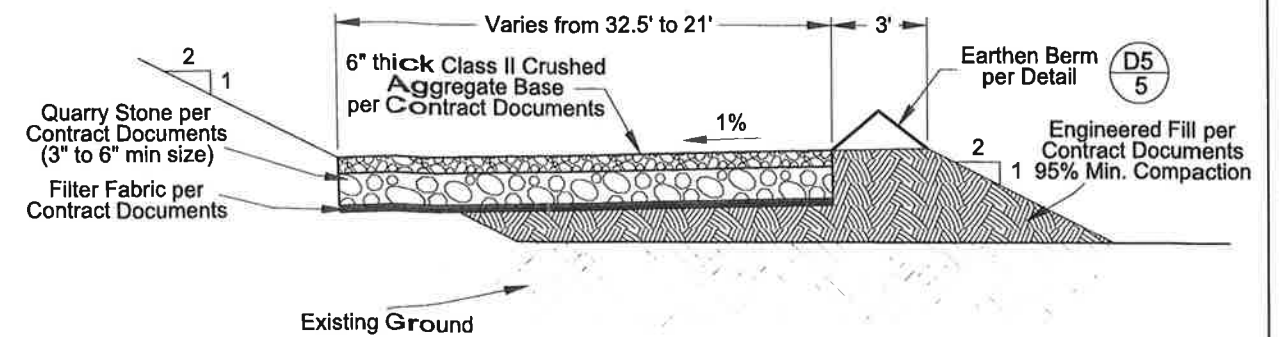
Datum is mean sea level.

DESIGNED BY:	SW
DRAWN BY:	EWESW
CHECKED BY:	ACIAE
DRAWING DATE:	Sept. 15, 2011
TOPO DATE:	July 5, 2011
SCALE:	1" = 200'
PATH:	eng:\engineering\badlands\11ba\
PATH:	projects\winterization 2011\rfg plans\
PATH:	ba_sheet4_improvement_plan.dgn

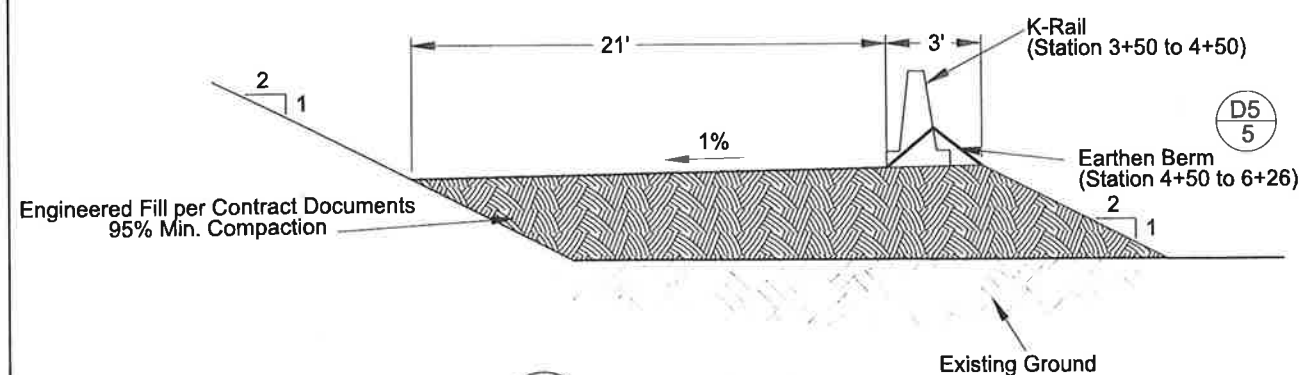
Badlands Sanitary Landfill
Surface Drainage and
Access Road Improvement Project
**Road Drainage
Improvement Plan**



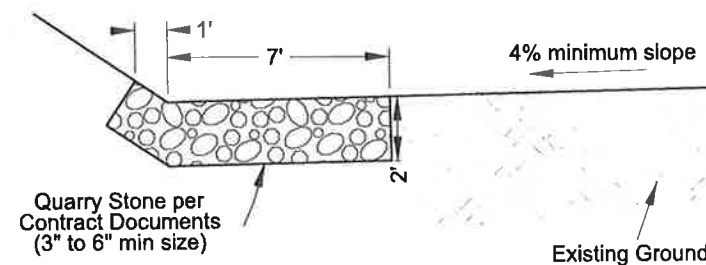
D1 A.C. Road on Class II Base
Station 0+00 to 1+50
Not To Scale



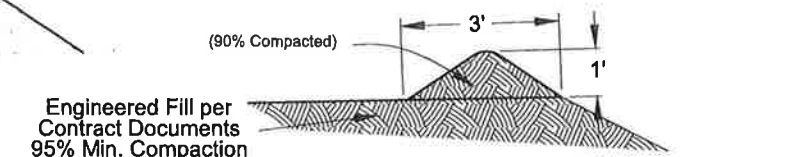
D2 Class II Base Road on Quarry Rock
Station 1+50 to 3+50
Not To Scale



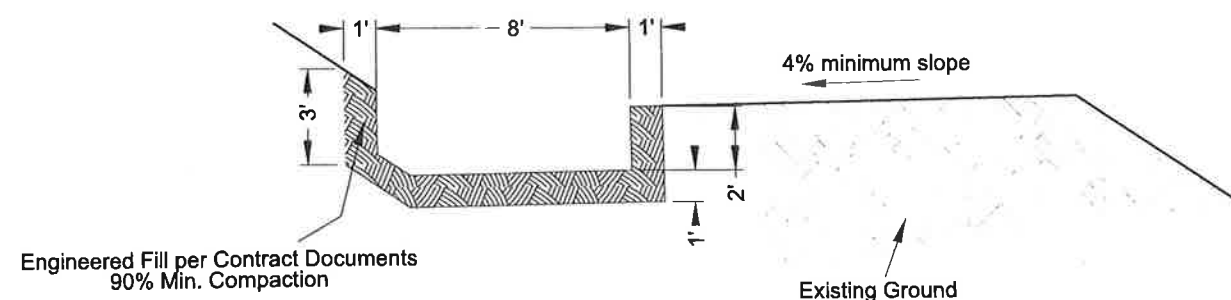
D3 Earthen Road
Station 2+00 to 6+26
Not To Scale



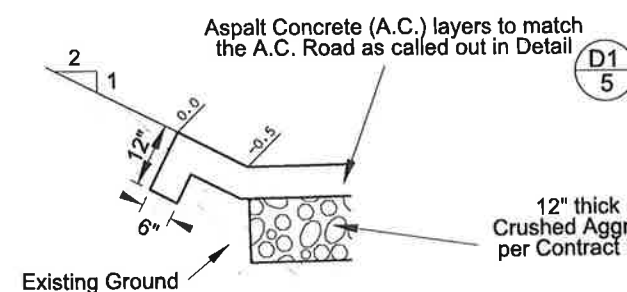
D4 Quarry Rock Trench
Not To Scale



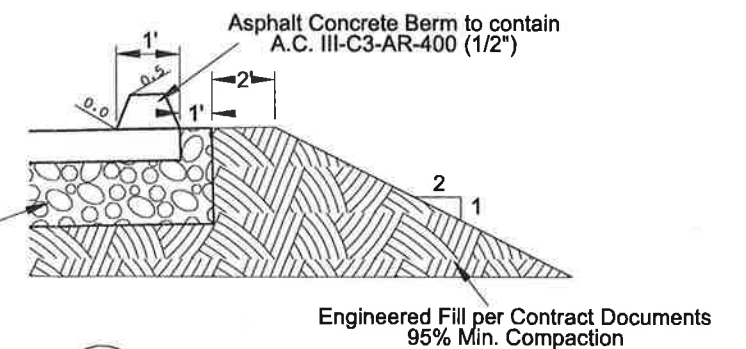
D5 Earthen Diversion Berm Typical Section
Not To Scale



D6 Quarry Rock Trench with Over Excavation
Not To Scale



D7 Asphalt Road Cutoff Wall
Not To Scale



D8 Asphalt Road Edge Detail
Not To Scale

NO.	REVISIONS	BY	APPROVED	DATE

Riverside County
Waste Management Department
Hans Kemkamp, General Manager/Chief Engineer

DESIGNED BY: SW
DRAWN BY: EWE/SWBH
CHECKED BY: AC/AE
DRAWING DATE: Sept. 15, 2011
TOPO DATE: -
SCALE: Not to Scale
PATH: engineering/siles/badlands/11ba/
PATH: projects/winterization 2011/11ba plans/
PATH/FILE: ba_sheel5_details.dgn

Badlands Sanitary Landfill
Surface Drainage and
Access Road Improvement Project

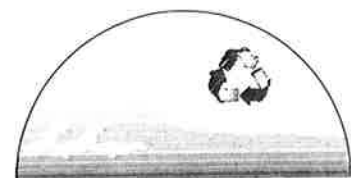
Details

LAMB CANYON SANITARY LANDFILL



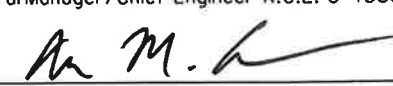
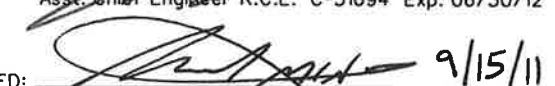

PLANS FOR SURFACE DRAINAGE AND ACCESS ROAD IMPROVEMENT PROJECT

SEPTEMBER 2011

PREPARED BY
WASTE MANAGEMENT DEPARTMENT
HANS KERNKAMP, GENERAL MANAGER/CHIEF ENGINEER
14310 FREDERICK STREET
MORENO VALLEY, CALIFORNIA 92553
TEL. (951) 486-3200 FAX (951) 486-3205



Riverside County
Waste Management Department

WASTE MANAGEMENT DEPARTMENT			
APPROVED:		SUBMITTED:	
	General Manager/Chief Engineer R.C.E. C-45868 Exp. 12/31/12		Asst. Chief Engineer R.C.E. C-51694 Exp. 06/30/12
RECOMMENDED:		CHECKED:	 9/15/11
	Principal Engineer R.C.E. C-56192 Exp. 12/31/12		Eng'g Proj. Manager R.C.E. C-52592 Exp. 12/31/12
	DESIGNED:	 9/15/11	
		Associate Civil Engineer R.C.E. C-73871 Exp. 6/30/13	

Construction Notes:

- 1

Construct 3" Thick AC Drainage Structures in
According with the Project Plan, Specifications and Detail:

D1

4
- 2

Furnish and Install 24" Wide x 12" Deep Corrugated Metal Flume Down Drain and 24" Wide Metal Flume Inlet (Big Mac McCarthy Inlet as Manufactured by Pacific Corrugated Pipe or Approved Equal) in accordance with the Project Plan, Specifications and Details:

D1

4

D11

5

D12

5

D13

5
- 3

Construct Earthen Diversion Berm in
According with the Project Specifications and Detail:

D2

4
- 4

Construct 4" Thick AC Dip Crossing Structure
in accordance with the Project Plan, Specifications and Detail:

D3

4
- 5

Construct 3" Thick AC Drainage Extension Structures
in accordance with the Project Plan, Specifications and Detail:

D7

4
- 6

Construct 3" Thick AC Drainage Pad Structure
in accordance with the Project Plan, Specifications and Detail:

D8

4
- 7

Construct 3" Thick AC Drainage Pad Structure
in accordance with the Project Plan, Specifications and Detail:

D10

5
- 8

Construct Gouted Rip-rap Drainage Structures and Furnish
and Install Straw Bales in accordance with the Project Plan, Specifications and Detail:

D14

6

D15

6
- 9

Install 20 mil LDPE Drainage (Material Furnished by County)
in accordance with the Project Plan, Specifications and Detail:

D4

4
- 10

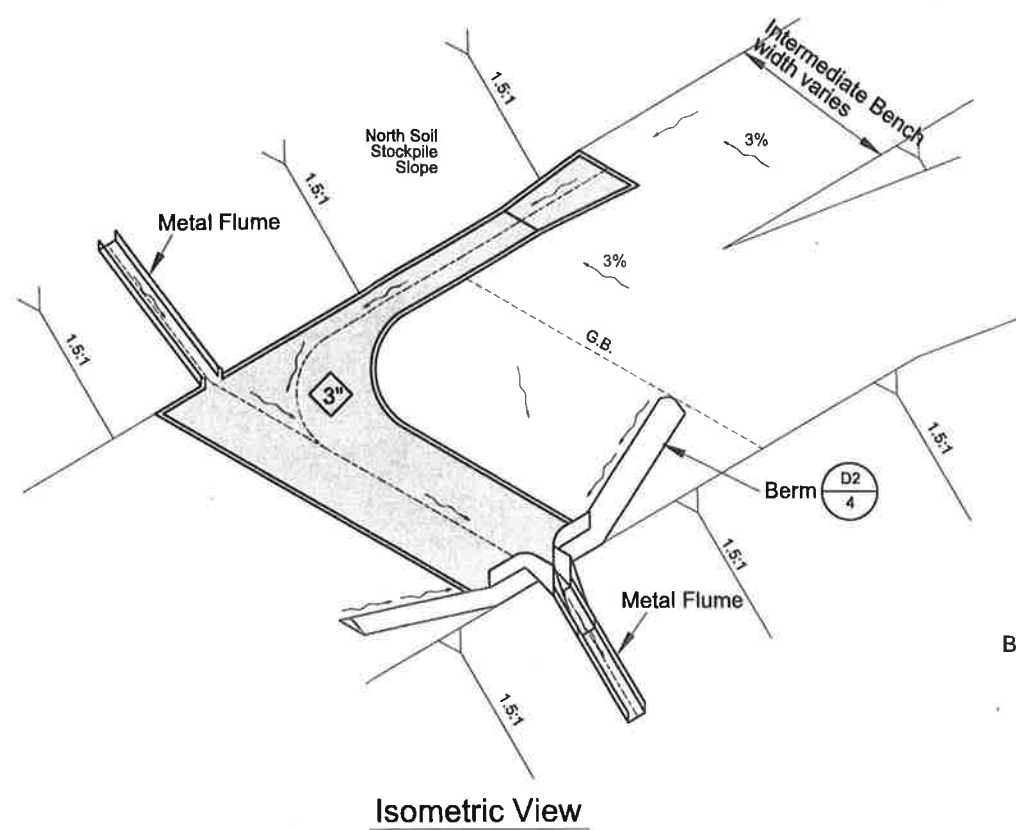
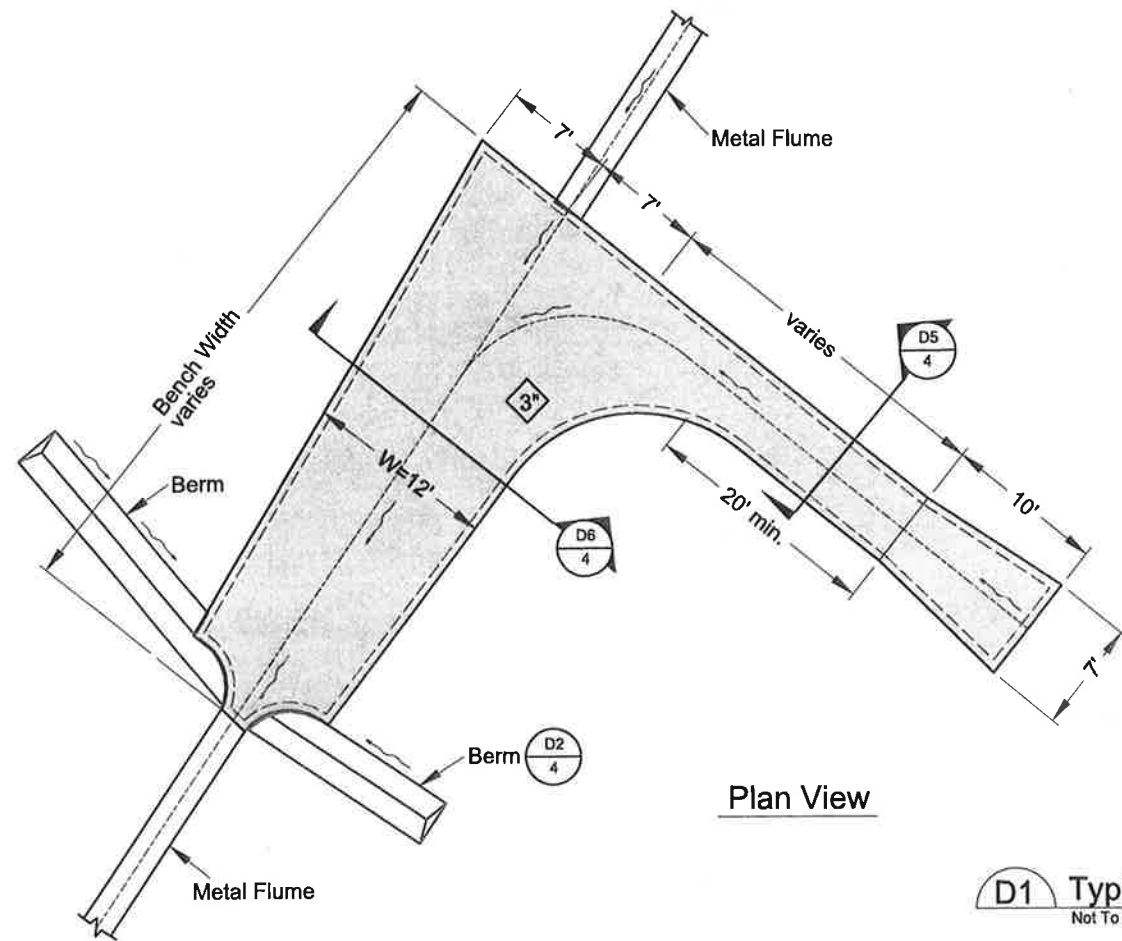
Existing Asphalt Drainage Structure
(Protect in Place)
- 11

Existing Metal Flume Down Drain
(Protect in Place)
- 12

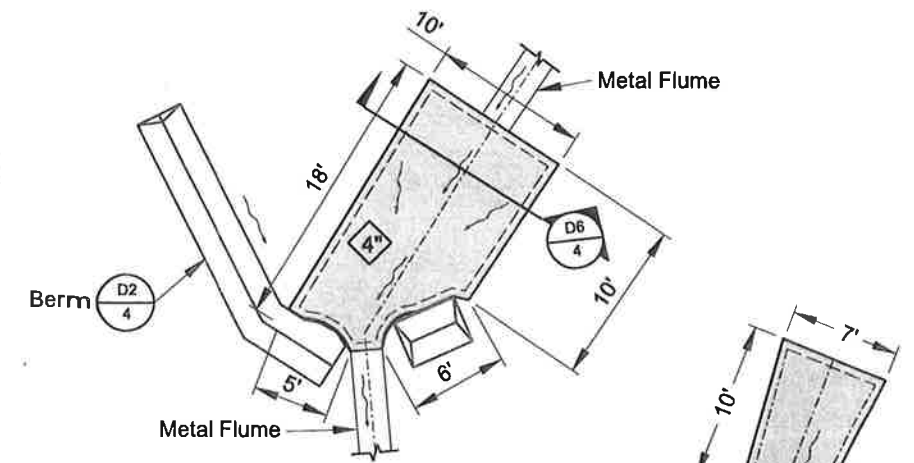
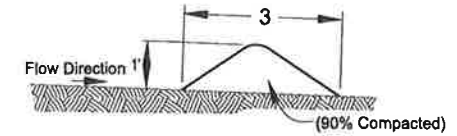
Saw-cut Damage A.C. and Replace with New AC
in accordance with the Project Specifications and as Directed by the County.



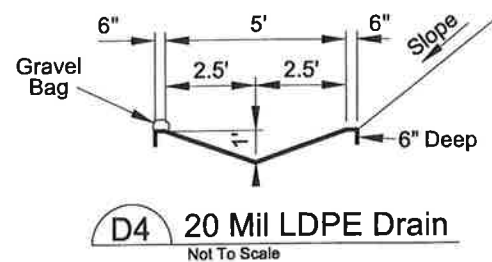
SCALE: 1"=60'	DESIGNED BY: ECEWE	<div><div>Riverside County</div><div>Waste Management Department</div><div>Hans Kienkamp, General Manager/Chief Engineer</div></div> <div>Scale: 1" = 60' (D Size) 1" = 120' (Folio)</div> <div>Datum is mean sea level</div> <div>0 60 120 180 240 300</div>
DATE: Sept. 13, 2011	DRAWN BY: EWE	
TOPO DATE: July 2011	CHECKED BY: FM	
DIRECTORY: engineering/ sites/lamb/11c/operations/north soil stockpile/ FILE: lc_north_stock_drain 8.16.2011.dgn		
Lamb Canyon Sanitary Landfill Surface Drainage and Access Road Improvement Project		North Soil Stockpile Drainage Improvement Plan
SHEET 3		OF 6



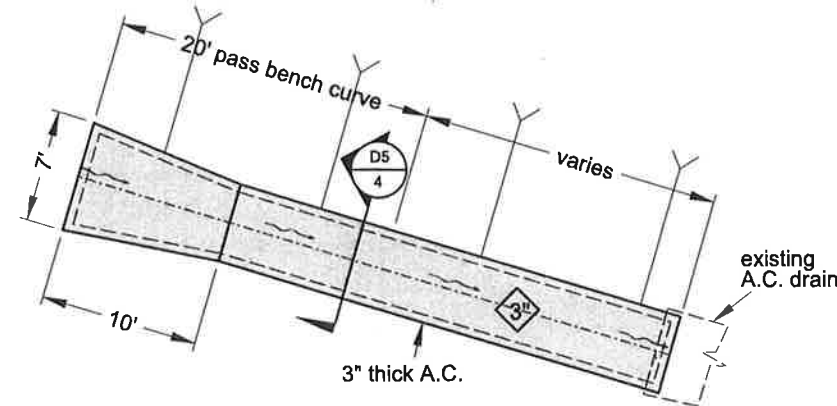
D2 Earthen Diversion Berm Typical Section
Not To Scale



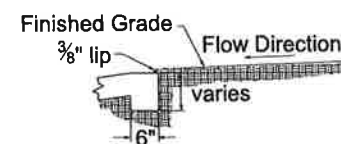
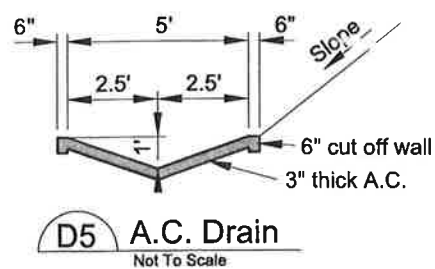
D3 A.C. Dip Crossing
Not To Scale



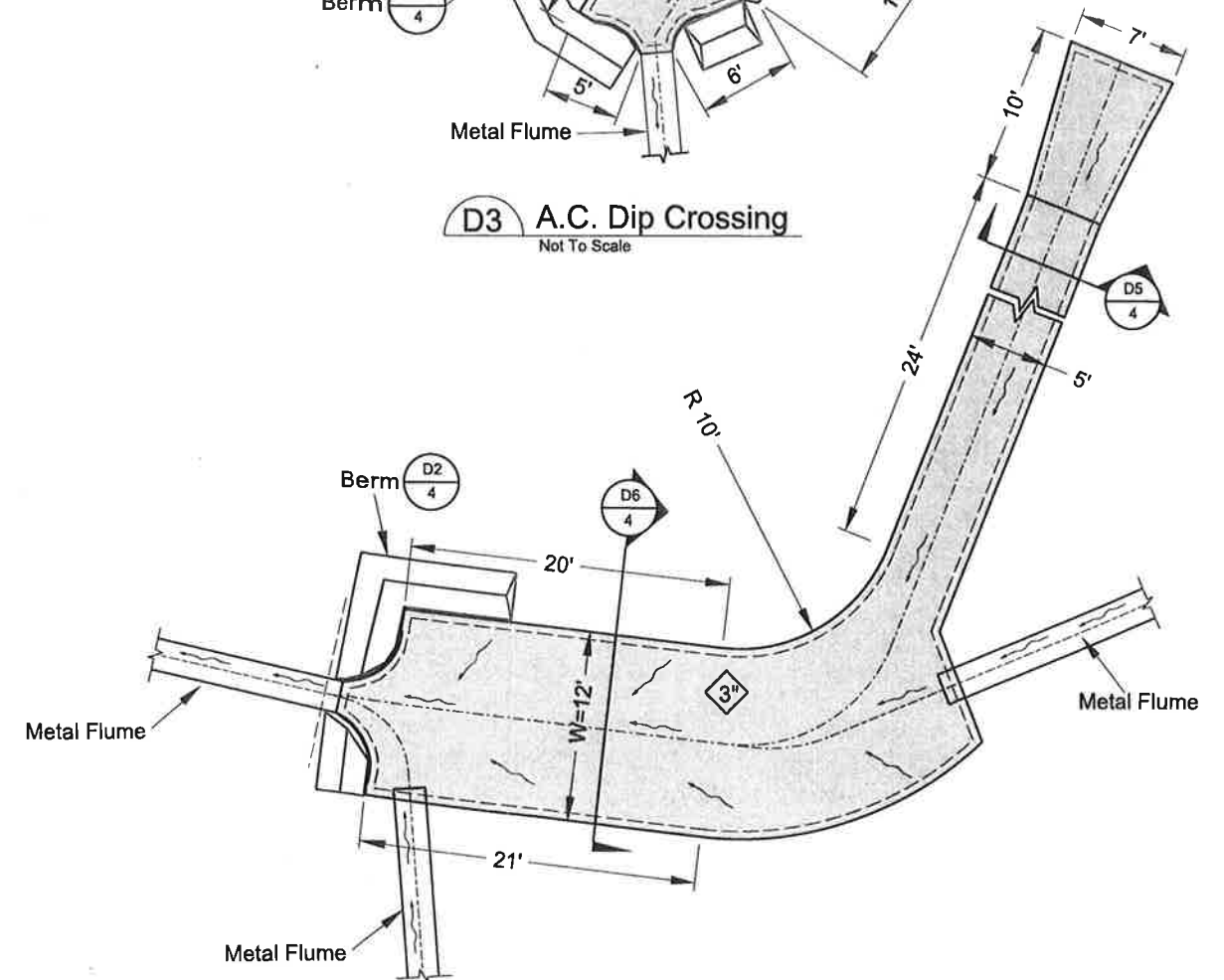
D1 Typical A.C. Drain
Not To Scale



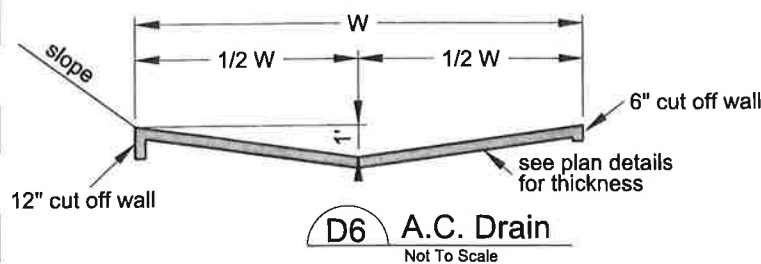
D7 Typical Existing Drain Extension
Not To Scale



D9 AC Cut Off Wall Typical Section
Not To Scale



D8 A.C. Drainage Pad
Not To Scale



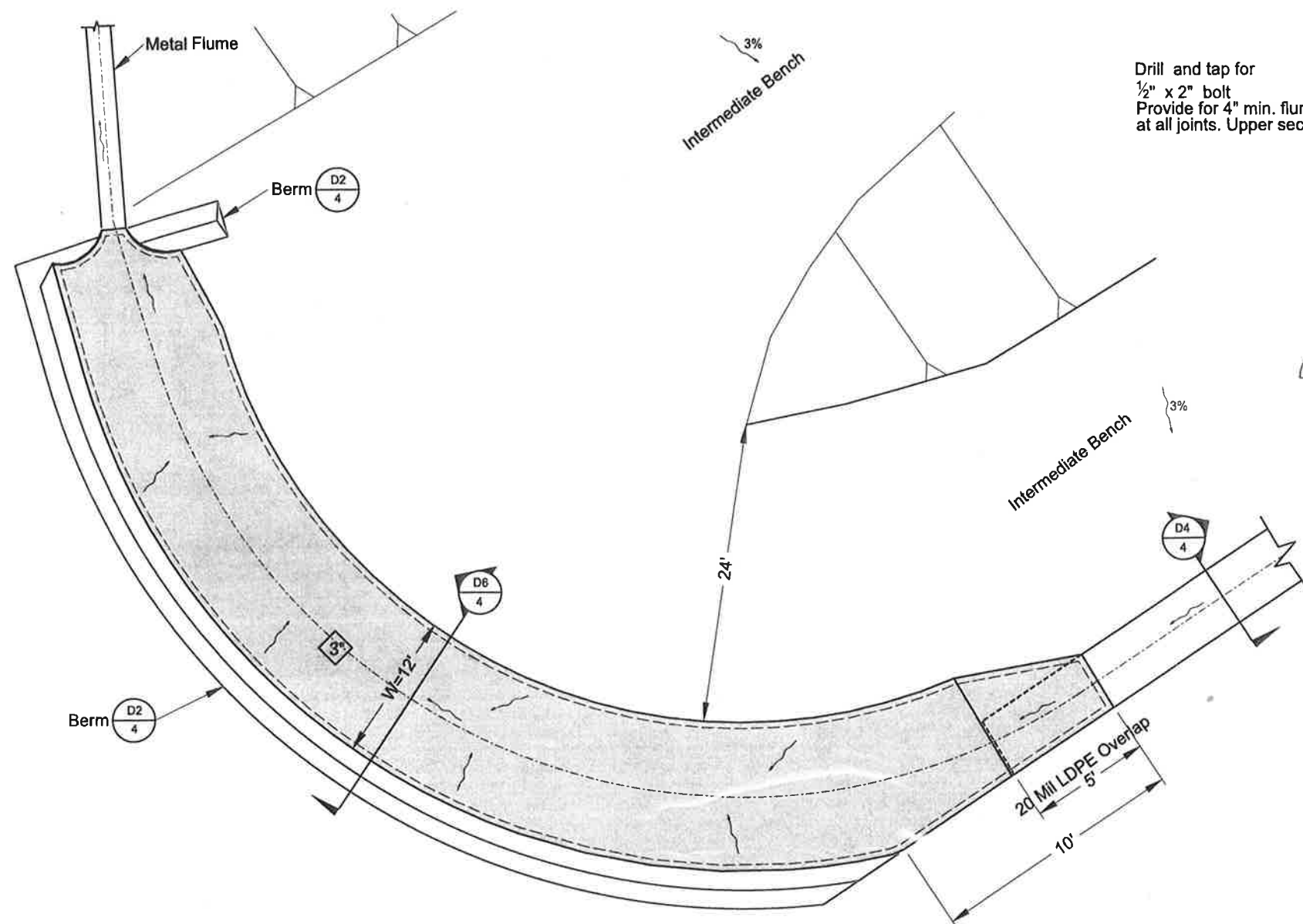
D6 A.C. Drain
Not To Scale

NO.	REVISIONS	BY	APPROVED	DATE

Riverside County
 Waste Management Department
 Hans Kerrkamp, General Manager/Chief Engineer

DESIGNED BY:	ECEWE
DRAWN BY:	EWE
CHECKED BY:	FM
DRAWING DATE:	Sept. 13, 2011
PHOTO DATE:	NA
SCALE:	NTS
PATH:	engineering/sites/lamb/11/c/
PATH:	operations/north soil stockpile/
PATH:	lc_north_stock_drain_8_16_2011.dgn

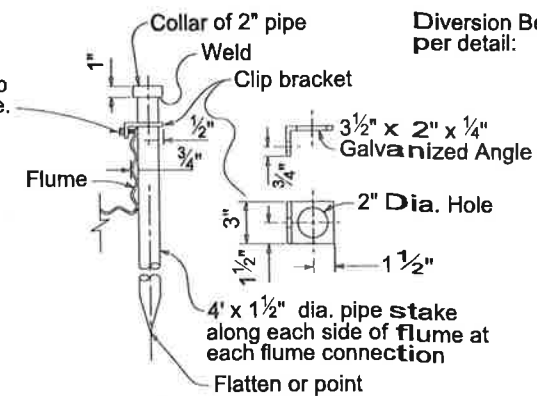
Lamb Canyon Sanitary Landfill
 Surface Drainage and
 Access Road Improvement Project
Drainage Detail 1



D10 A.C. Pad Crossing
Not To Scale

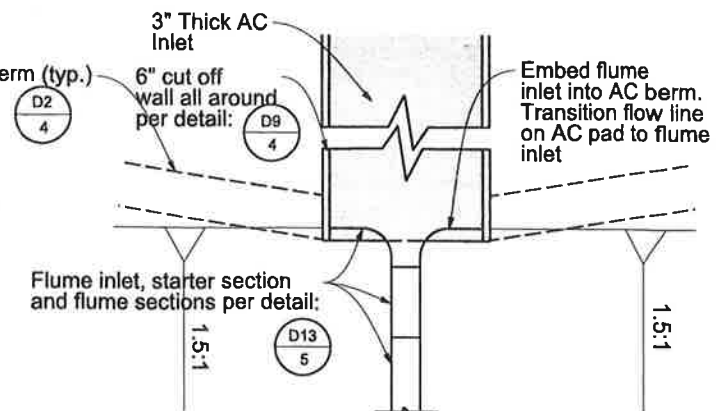
Drill and tap for
1/2" x 2" bolt
Provide for 4" min. flume overlap
at all joints. Upper section inside.

D11 Pipe Stake Anchor Detail
Not To Scale

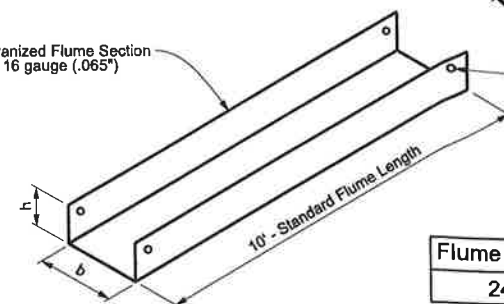


Diversion Berm (typ.)
per detail:

D12 Flume Inlet Detail
Not To Scale

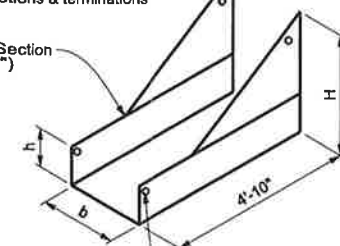


Galvanized Flume Section
Min. 16 gauge (.065")



Connect Sections With
1/2" x 2" Bolt & Lock Washer
in 5/8" Dia. Holes. Install Clip Bracket and Pipe
Stake Anchor per Detail D5
Typical for all section connections & terminations

Galvanized Starter Section
Min. 16 gauge (.065")



Connect Sections With
1/2" x 2" Bolt & Lock Washer
in 5/8" Dia. Holes. Install Clip Bracket and Pipe
Stake Anchor per Detail D5
Typical for all section connections and terminations.

Flume Width	b x h	B x H	R	W	C	D
24"	24-1/2" x 12"	24" x 37-1/2"	28"	128"	18"	36"

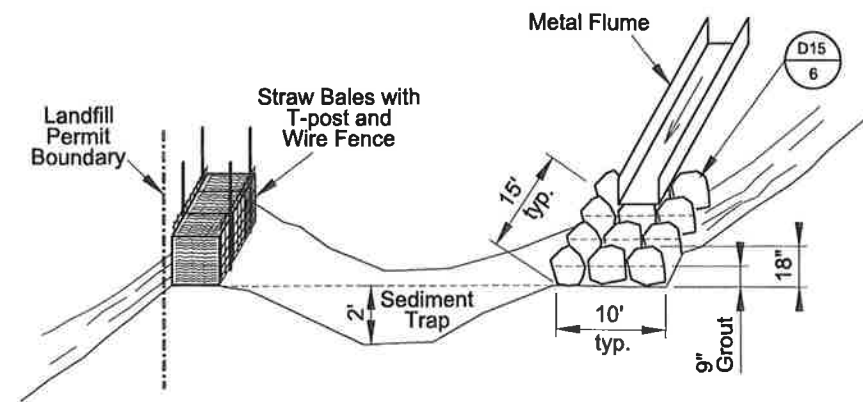
D13 Flume Section Details
Not To Scale

NO.	REVISIONS	BY	APPROVED	DATE

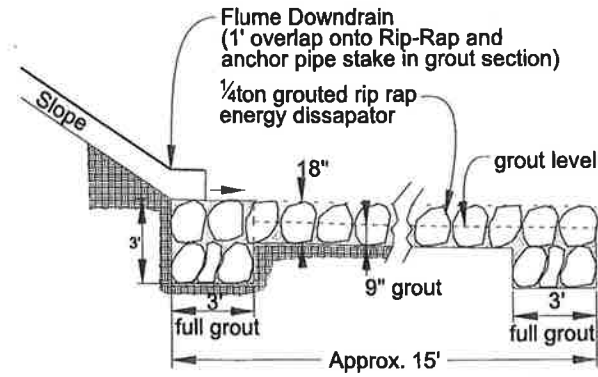
Hana Kernkamp, General Manager/Chief Engineer

DESIGNED BY: ECE/WE
 DRAWN BY: EWE
 CHECKED BY: FM
 DRAWING DATE: Sept. 13, 2011
 PHOTO DATE: NA
 SCALE: NTS
 PATH: engineering/sites/lamb/11c/
 PATH: operations/north soil stockpile/
 lc_north_stock_drain_8_15_2011.dgn

Lamb Canyon Sanitary Landfill
 Surface Drainage and
 Access Road Improvement Project
Drainage Detail 2

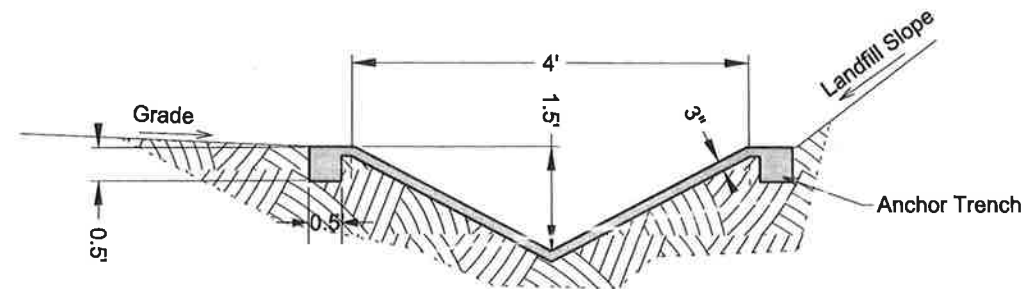


D14 Rip-rap, Sediment Trap and Straw Bales
Not To Scale

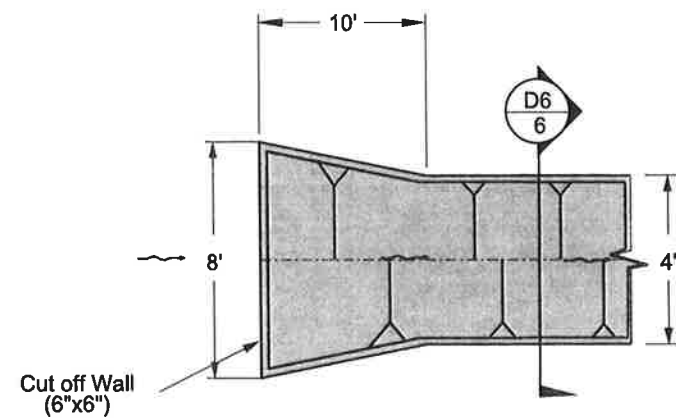


D15 Rip-Rap Energy Dissapator
Not To Scale

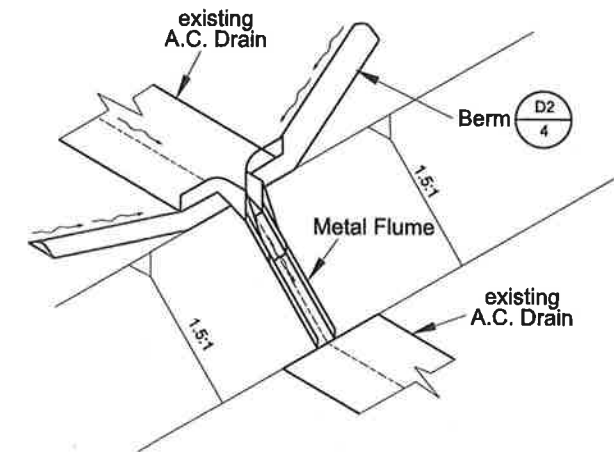
Optional Bid Item Details



D16 Asphalt Drain
Not To Scale




D17 Asphalt Drain Inlet
Not To Scale



D18 Metal Flume
Not To Scale

NO.	REVISIONS	BY	APPROVED	DATE


Riverside County
Waste Management Department
 Hans Kernkamp, General Manager/Chief Engineer

DESIGNED BY: ECEWE
 DRAWN BY: EWE
 CHECKED BY: FM
 DRAWING DATE: Sept. 13, 2011
 PHOTO DATE: NA
 SCALE: NTS
 PATH: engineering/slopes/lamb/111c/
 PATH: operations/north soil stockpile/
 lc_north_stock_drain_8_16_2011.dgn

Lamb Canyon Sanitary Landfill
 Surface Drainage and
 Access Road Improvement Project
Drainage Detail 3

