# THE BOARD OF SUPERVISORS OF THE COUNTY OF STANISLAUS BOARD ACTION SUMMARY

DEPT: Environmental Resources	BOARD AGENDA #: *B-5
	AGENDA DATE: April 18, 2017
SUBJECT:	
Approval to Adopt Plans and Specifications for t Extraction and Treatment System Installation Projector Wednesday, May 31, 2017, at 2:00 p.m.	
BOARD ACTION AS FOLLOWS:	<b>No.</b> 2017-184
On motion of Supervisor _Withrow , So	
On motion of Supervisor _ Withrow, So and approved by the following vote.	econded by Supervisor <u>Olsen</u>
On motion of Supervisor _Withrow, So and approved by the following vote, Ayes: Supervisors: Olsen, Withrow, Monteith, DeMartini, and Noes: Supervisors: None	econded by Supervisor Olsen Chairman Chiesa
On motion of Supervisor _Withrow, So and approved by the following vote, Ayes: Supervisors: Olsen, Withrow, Monteith, DeMartini, and Noes: Supervisors: None Excused or Absent: Supervisors: None	econded by Supervisor Olsen Chairman Chiesa
On motion of Supervisor _Withrow, So and approved by the following vote, Ayes: Supervisors: Olsen, Withrow, Monteith, DeMartini, and Noes: Supervisors: None Excused or Absent: Supervisors: None None	econded by Supervisor Olsen Chairman Chiesa
On motion of Supervisor _Withrow, So and approved by the following vote, Ayes: Supervisors: Olsen, Withrow, Monteith, DeMartini, and Noes: Supervisors: None Excused or Absent: Supervisors: None	econded by Supervisor Olsen Chairman Chiesa
On motion of Supervisor _Withrow	econded by Supervisor Olsen Chairman Chiesa
On motion of Supervisor _Withrow	econded by Supervisor Olsen Chairman Chiesa

PAM VILLARREAL, Assistant Clerk

ATTEST:

File No.

# THE BOARD OF SUPERVISORS OF THE COUNTY OF STANISLAUS **AGENDA ITEM**

**DEPT:** Environmental Resources

Urgent O Routine © **BOARD AGENDA #**:

AGENDA DATE: April 18, 2017

CEO CONCURRENCE:



4/5 Vote Required: Yes O

No O

# SUBJECT:

Approval to Adopt Plans and Specifications for the New Geer Road Landfill Groundwater Extraction and Treatment System Installation Project, and Set the Bid Opening Date and Time for Wednesday, May 31, 2017, at 2:00 p.m.

# STAFF RECOMMENDATIONS:

- 1. Adopt the plans, specifications, and working details for the new Geer Road Landfill Groundwater Extraction and Treatment System Installation Project.
- 2. Direct the Department of Environmental Resources to send the "Notice Inviting Bids," electronically and by mail to trade journals and newspaper advertisement as required by law.
- 3. Authorize the Director of the Department of Environmental Resources, or designee, to oversee the public works of improvements associated with the new Geer Road Landfill Groundwater Extraction and Treatment System Installation Project.
- 4. Direct the Clerk of the Board to publish the attached "Invitation to Bidders (Contractors)" for the new Geer Road Landfill Groundwater Extraction and Treatment System Installation Project as required by law and set the deadline for submission of the bids as Wednesday, May 31, 2017, at 2:00 p.m.

# **DISCUSSION:**

The Geer Road Landfill (Landfill) in Modesto, California, is owned jointly by Stanislaus County (County) and the City of Modesto and is managed by the Department of Environmental Resources. The Landfill was in operation from 1970 to 1990, providing disposal needs for the unincorporated County, the City of Modesto, as well as the other eight local cities.

Groundwater impacts in the form of volatile organic compounds have existed at the site since the mid-1980s. Since that time, corrective actions taken to address the impacts have included closing and capping the Landfill, installing and operating a landfill gas (LFG) extraction and flare system, expanding the LFG system, and installing and operating a groundwater extraction and treatment system (GWETS). Additional monitoring wells have been installed over time to assess groundwater conditions in and around the site.

Approval to Adopt Plans and Specifications for the New Geer Road Landfill Groundwater Extraction and Treatment System Installation Project, and Set the Bid Opening Date and Time for Wednesday, May 31, 2017, at 2:00 p.m.

On April 24, 2009, the Regional Water Quality Control Board (RWQCB) issued new Waste Discharge Requirements and the associated Monitoring and Reporting Program (MRP) Order Number R5-2009-0051 for the Landfill. The County was in the process of complying with the requirements when the RWQCB issued Cease and Desist Order R5-2011-0021 on April 8, 2011, requiring the County to optimize the existing LFG collection and control system and improve the existing GWETS. On April 8, 2011, the RWQCB also issued a revised MRP Order Number R5-2011-0022.

In December 2014, the County completed the third and final phase of upgrades to the LFG system at the Landfill, and on April 5, 2016, the County completed the Aeration Channel and Groundwater Conveyance System Installation and testing work necessary to enable the design of a new and improved GWETS. On November 30, 2016, the County submitted the 90% plans and specifications for the new GWETS to the RWQCB, and on February 17, 2017, the RWQCB issued a written approval of the new GWETS work. Completion of this work is the final phase of improvements required by the 2011 Cease and Desist Order, and this new GWETS system will replace the original system which is inefficient and incapable of forming a complete groundwater "capture" zone around the Landfill's border.

It should be noted, however, that when the RWQCB issued their written approval of the new GWETS installation, the approval came nearly 90 days after the County originally submitted the plans and specifications, versus the standard 30 days. The proposed timeline for the completion of the project, however, was not adjusted to account for this additional time the RWQCB took to approve the plans and specifications. County staff requested that the timeline be adjusted accordingly, however, RWQCB staff were unwilling to consider this request. Staff has worked to move this project along as quickly as possible and obtain the 100% plans and specifications, which include the RWQCBs final comments, but have been unable to obtain 100% electrical plans due to an uncertain tie-in timeline from the County's electrical service provider. Because of this, the Board of Supervisors is being asked to approve 100% plans and specifications for the GWETS and 90% preliminary electrical plans. State law requires that the electrical plans clearly be marked "90% Preliminary," which they are, and the bid document explains that the 100% electrical plans will be issued in an addendum to the bid once they are ready. If there is a delay in receiving the tie-in information from the County's electrical service provider, it may delay the project because the County must provide interested Contractors with the 100% Electrical Plans for their review at least 10 days before bids are due. Should this occur, the RWQCB will be advised accordingly as this would be an unforeseen circumstance outside the County's control.

The County's consultant, Tetra Tech BAS, prepared the engineer-stamped plans, specifications, and materials list (Attachments A and B) for the new Groundwater Extraction and Treatment System Installation Project (Project).

Approval to Adopt Plans and Specifications for the New Geer Road Landfill Groundwater Extraction and Treatment System Installation Project, and Set the Bid Opening Date and Time for Wednesday, May 31, 2017, at 2:00 p.m.

The following tentative schedule is provided:

Adopt Plans & Specifications
Advertise (Estimated dates, subject to change)
April 18, 2017
April 22, 2017
April 29, 2017
May 6, 2017
May 6, 2017
Award Contract
Authority April 29, 2017
May 6, 2017
July 18, 2017
July 18, 2017
July 25, 2017
Complete Construction
April 3, 2018\*
\*May not be completed until June 3, 2018, due to RWQCB delay

This Project is categorically exempt from the California Environmental Quality Act (CEQA), per the following: Section 21084 of the Public Resources Code requires that a list of classes of projects which have been determined not to have a significant effect on the environment and which shall, therefore, be exempt from the provisions of CEQA, be identified. In response to this requirement, the Secretary for Resources identified several classes of projects including the following: Section 15308, of Title 14 of the California Code of Regulations, Article 19: Categorical Exemptions: Class 8 consists of actions taken by regulatory agencies (such as the RWQCB), as authorized by State or local ordinance, to assure the maintenance, restoration, enhancement, or protection of the environment.

Following the bid opening, staff will return to the Board with a recommendation to award the contract(s) to the lowest acceptable bidder.

# **POLICY ISSUE:**

Board of Supervisors approval is required for all contracts exceeding \$100,000.

# FISCAL IMPACT:

This Project is estimated to require a one-time transfer of funds from the Fink Road Landfill Operating Budget of approximately \$2,750,000 to cover construction and quality assurance oversight costs which has been included in Proposed Budget.

Approval to Adopt Plans and Specifications for the New Geer Road Landfill Groundwater Extraction and Treatment System Installation Project, and Set the Bid Opening Date and Time for Wednesday, May 31, 2017, at 2:00 p.m.

Cost of recommended action:

2,750,000

Source(s) of Funding:

Fink Road Landfill Fund Balance

2,750,000

**Funding Total:** 

2,750,000 \$

**Net Cost to County General Fund** 

Fiscal Year:

2017-2018 Budget Adjustment/Appropriations needed: No

Fund Balance as of Feb 28, 2017

Fink Road Landfill

\$27,499,629

# **BOARD OF SUPERVISORS' PRIORITY:**

The recommend actions support the Board's priorities of A Safe Community, A Healthy Community, and A Well Planned Infrastructure System, and the Efficient Delivery of Public Services. Landfill services are critical to supporting the Department's mission to promote a safe and healthy environment and improve the quality of life in the community through a balance of science, education, partnerships, and environmental regulation.

## STAFFING IMPACT:

Existing staff will continue to oversee the work related to the project.

# **CONTACT PERSON:**

Jami Aggers, Director of Environmental Resources

Telephone: 209-525-6770

# ATTACHMENT(S):

- A. Engineer-stamped plans, specifications, and materials list: New Groundwater Extraction and Treatment System Installation (Available from the Clerk)
- B. Groundwater Extraction and Treatment System Installation drawings
- C. Invitation to Bidders (Contractors)

ATTACHMENTS AVAILABLE FROM YOUR CLERK

Attachment A **Engineer-stamped** plans, specifications, and materials list: New Groundwater Extraction and **Treatment System** Installation are Available from Clerk

# Attachment B

# STANISLAUS COUNTY

MODESTO, CALIFORNIA

# **GEER ROAD LANDFILL**

**MARCH 2017** 

# CONSTRUCTION OF THE GROUNDWATER EXTRACTION AND TREATMENT SYSTEM

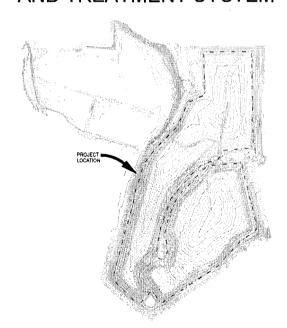
# PROJECTLOCATION PROJECTLOCATION VICINITY MAP NIS

### NOTES:

1). THE TOPOGRAPHIC SURVEY (CONTOURS) SHOWN ON THESE DRAWINGS WAS PROVIDED BY STANISLAUS COUNTY, DATED 2015. SURVIETING WAS PERFORMED IN MARCH 2015 TO VERIFY KEY LOCATIONS OF ENISTING LANDMARKS.

2) THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING LOCATIONS AND DEPTHS OF THE EXISTING LANDFILL GWETS HEADER AND LATERALS AND TO PROTECT IN PLACE.

3) ANY DAMAGE CAUSED DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT MO EXPENSE TO THE COUNTY. THIS INCLUDES, BUT IS NOT LIMITED TO, THE LANDRIL GAS COLLECTION, MONITORING, AND TREATMENT SYSTEM, EXISTING GROUNDWATER WELLS, DRAINAGE IMPROVEMENTS, AND ACCESS ROADS.



### SHEET INDEX

### SHEET NO

- TITLE SHEET
- SITE PLAN/INDEX TO PLAN SHEETS
- 3 HEADER ALIGNMENT
- 4 HEADER ALIGNMENT
- 5 HEADER ALIGNMENT 6 HEADER ALIGNMENT
- 7 GWETS IMPROVEMENTS
- B DETAILS
- 9 DETAILS 10 DETAILS
- 1 DETAILS
- 2 PROCESS FLOW DIAGRAM
- E1 SINGLE LINE AND PANEL SCHEDULE
- E2 TREATMENT PLANT ELECTRICAL PLAN

DIRECTOR OF ENVIRONMENTAL RESOURCES:

JAMI AGGERS, M.A., R.E.H.S.

DATE

PREPARED UNDER THE SUPERVISION OF:

三元》

3/24/17

GREG ACOSTA, P.E.

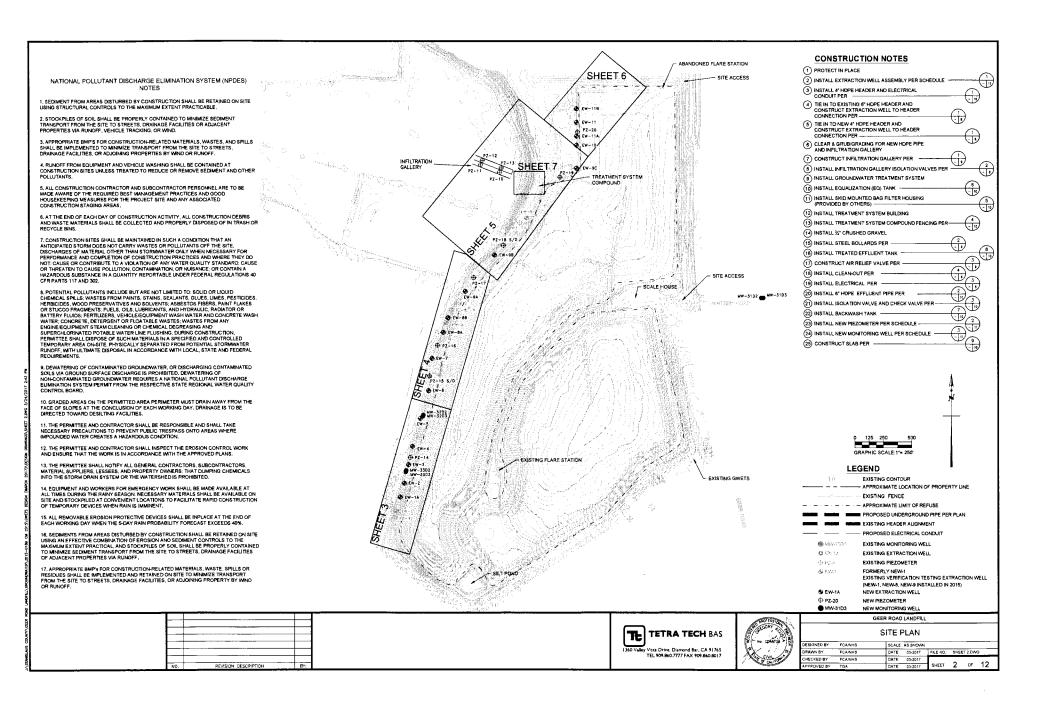
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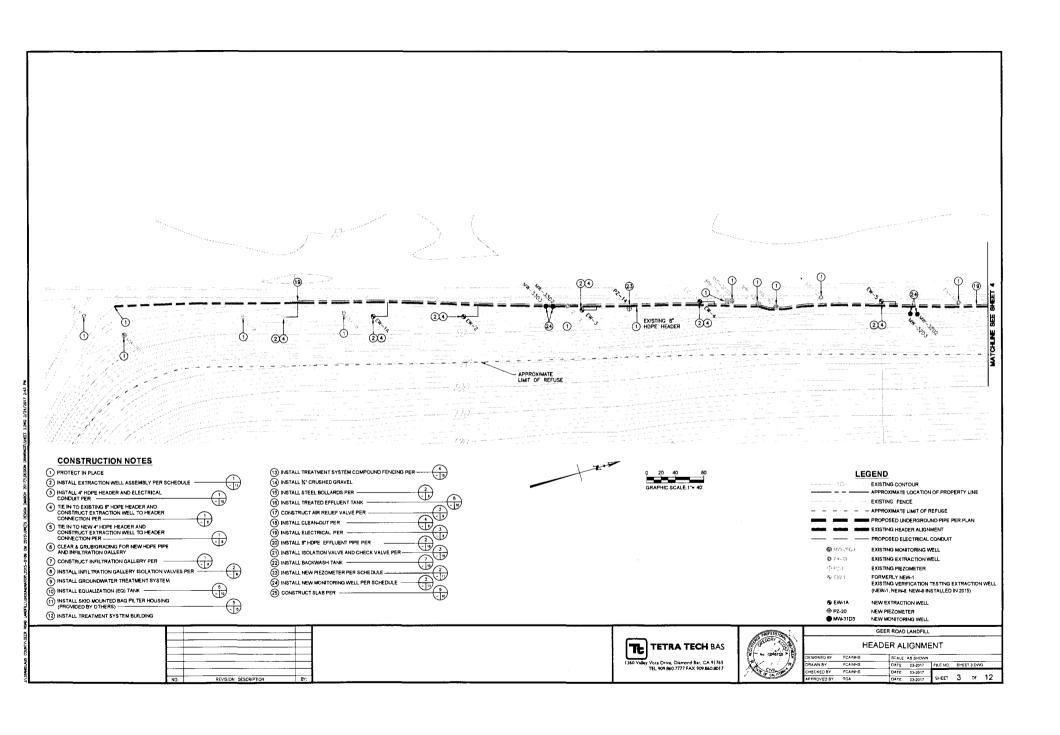
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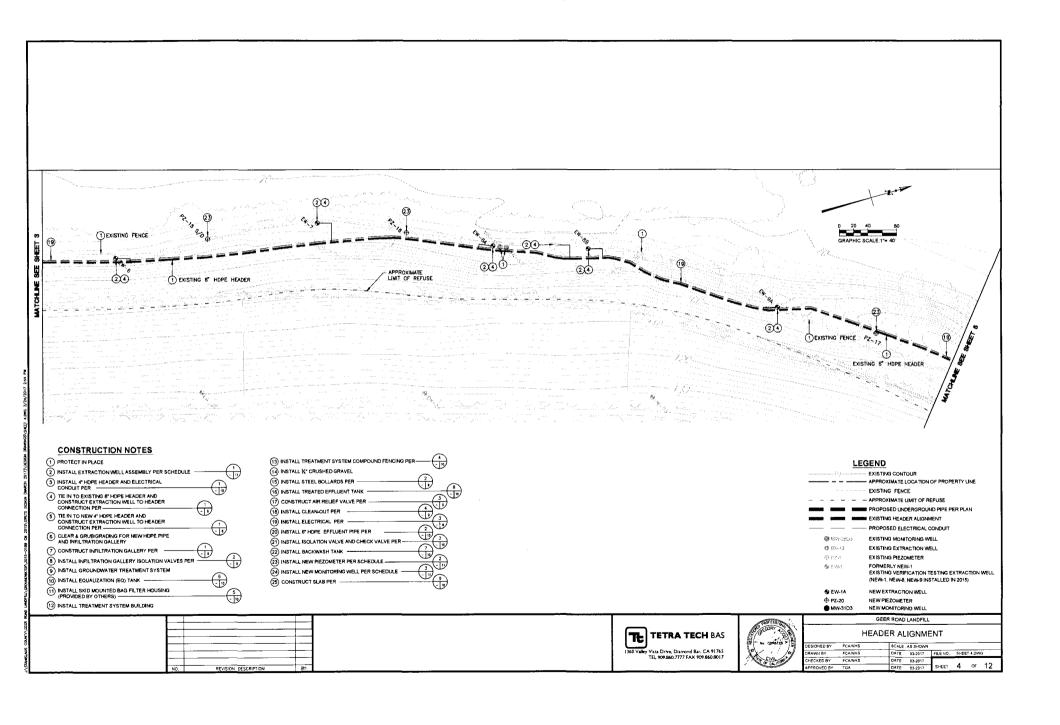


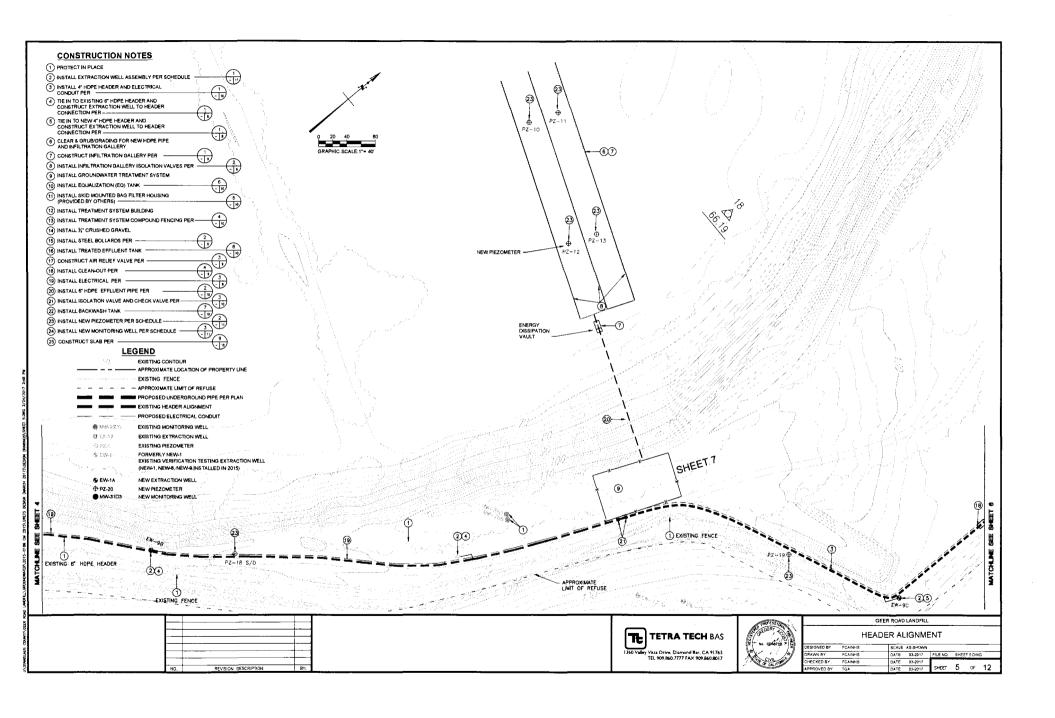


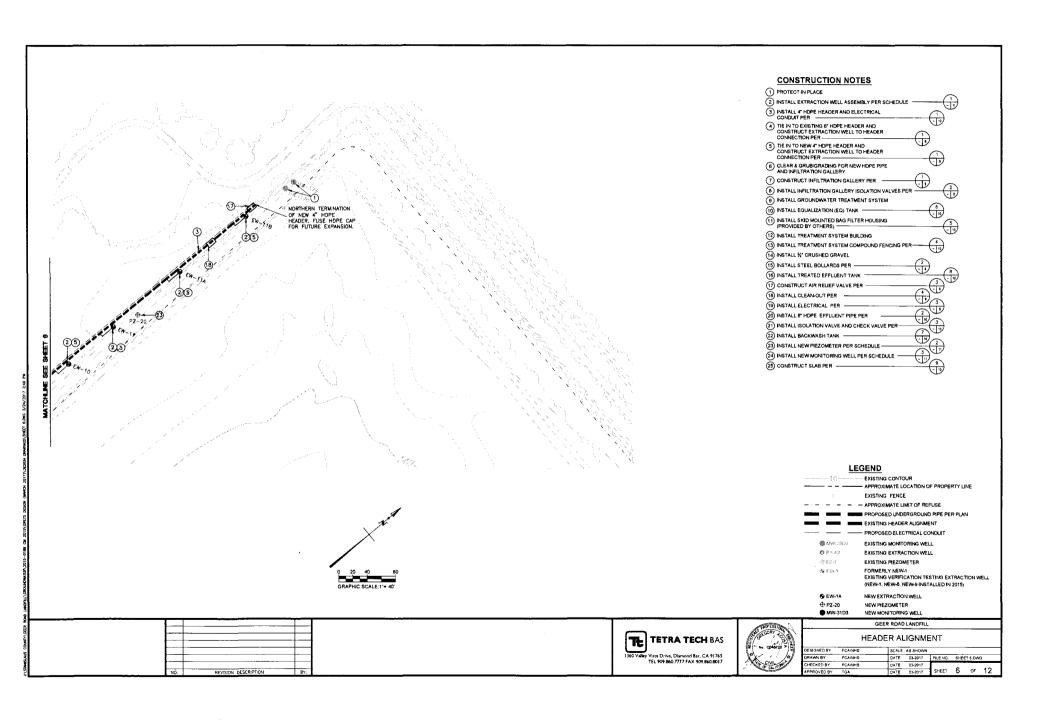
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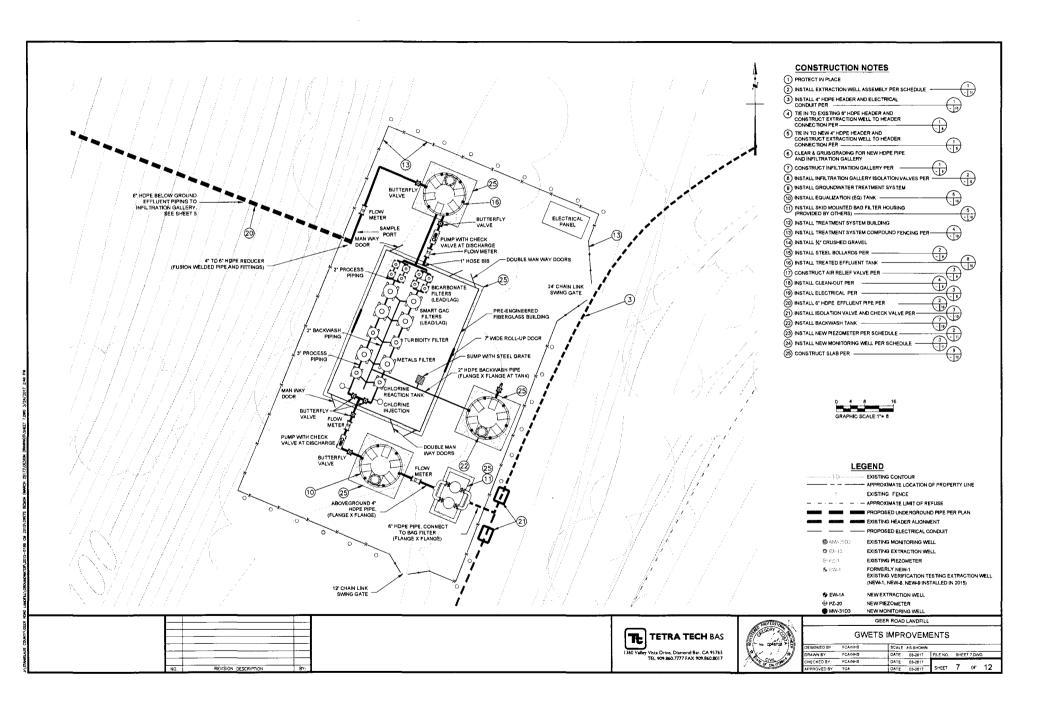


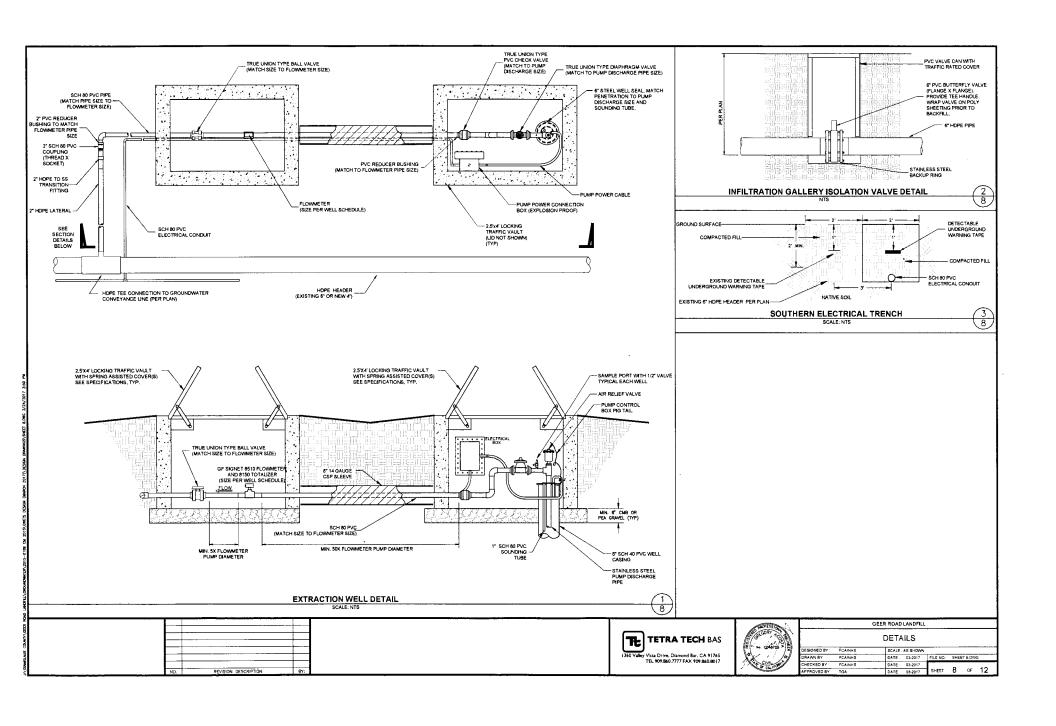


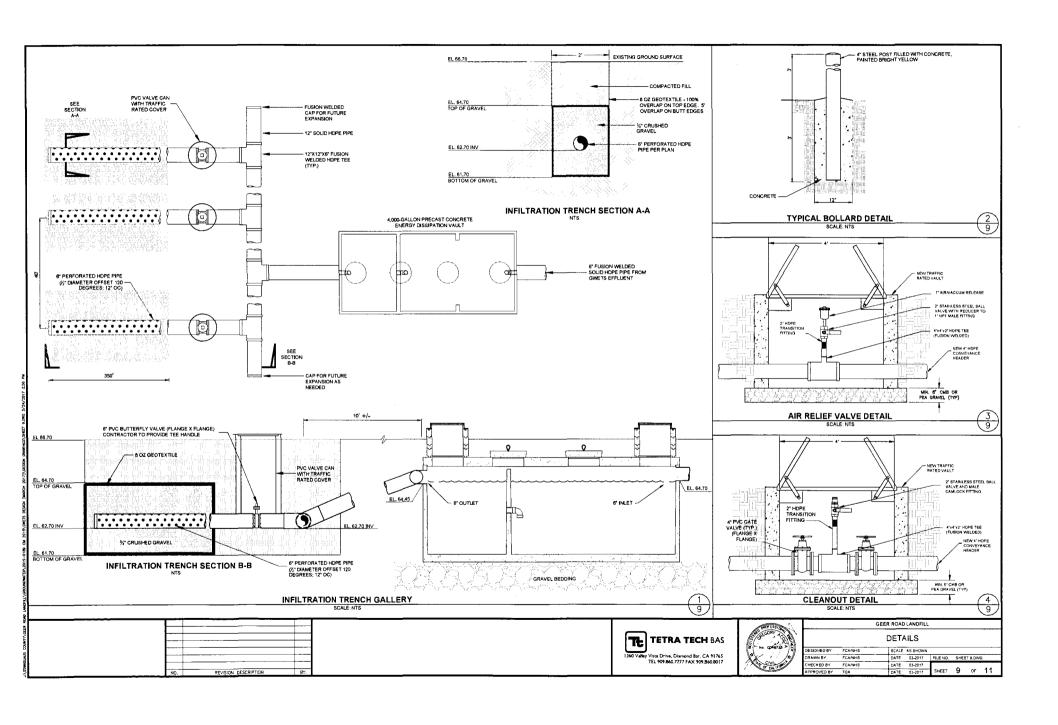


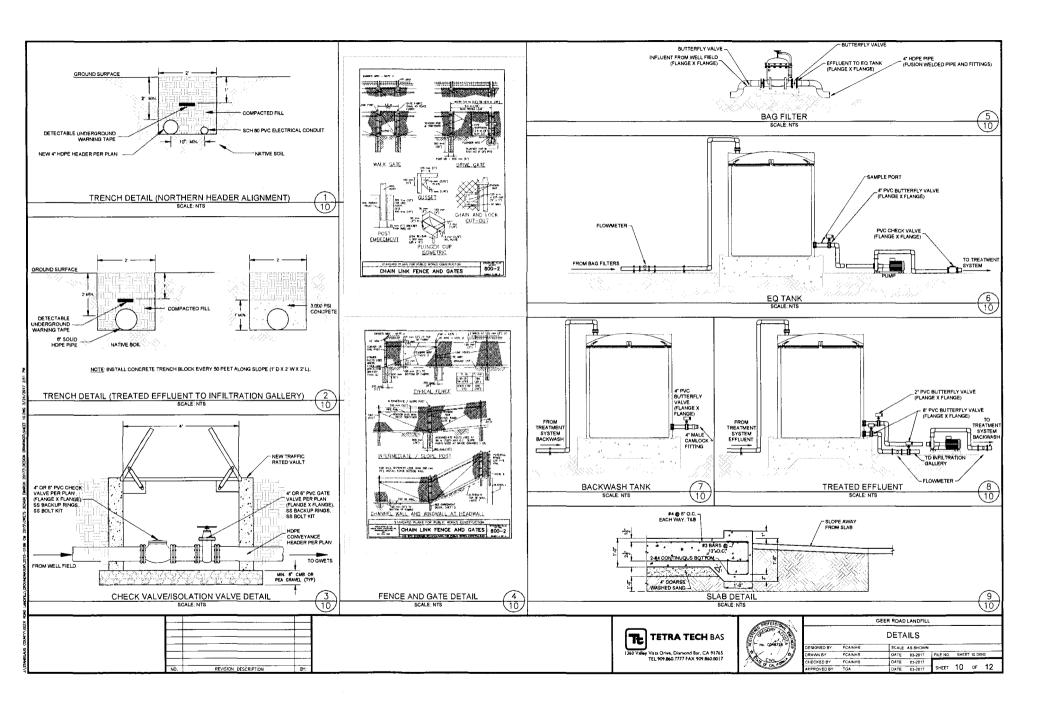












		NE	W EX	TRACTION WEL	L SCH	EDULE		
WELLID	WELL CASING DIAMETER SCH60 (IN)	SCREEN INTERVAL** (BGS)	FLOW (GPM)	GRUNDFOS REDI-FLO3 EXTRACTION PUMP MODEL NUMBER	HORSE POWER	PUMP DISCHARGE (IN)	MOTOR LEAD PART NUMBER	FLOW METER SIZE (IN)
EW-1*	6	15-35	18	22SQE07 - 110NE	0.75	1.50	11200242	0.75
EW-1A	6	15-35	6	10SQE05 - 100NE	0.50	1.25	11200242	0.50
EW-2	6	15-35	6	10SQE05 - 100NE	0.50	1.25	11200242	0.50
EW-3	6	15-35	6	10SQE05 - 100NE	0.50	1.25	11200242	0.50
EW-4	6	15-35	6	10SQE05 - 100NE	0.50	1.25	11200242	0.50
EW-5	6	15-35	6	10SQE05 - 100NE	0.50	1.25	11200242	0.50
EW-6	6	15-35	6	10SQE05 - 100NE	0.50	1,25	11200242	0.50
EW-7	6	15-35	6	10SQE05 - 100NE	0.50	1.25	11200242	0.50
EW-8A	6	15-35	1	105QE05 - 100NE	0.50	1.25	11200242	0.50
EW-8*	6	15-35	1	10SQE05 - 100NE	0.50	1.25	11200242	0.50
EW-8B	6	15-35	1	10SQE05 - 100NE	0,50	1,25	11200242	0.50
EW-9A	6	55-75	11	10SQE05 - 140NE	0.50	1.25	11200242	0,50
EW-9B	6	55-75	11	10SQE05 - 140NE	0.50	1.25	11200242	0.50
EW-9*	6	55-75	11	10SQE05 - 140NE	0.50	1,25	11200242	0.50
EW-9C	6	70-90	11	10SQE05 - 140NE	0.50	1.25	11200242	0.50
EW-10	6	70-90	11	10SQE05 - 140NE	0.50	1,25	11200242	0.50
EW-11	6	70-90	15	22SQE07 - 110NE	0,75	1,50	11200242	0.75
EW-11A	6	70-90	15	22SQE07 - 110NE	0.75	1.50	11200242	0.75
EW-11B	6	70-90	15	22SQE07 - 110NE	0.75	1.50	11200242	0.75

NOTES .

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NEW EXTRA	CTION WELL	SCHEDULE

SCALE: NTS

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	NEW MONITOR	ING WELL SCHEDU	LE
WELLID	WELL CASING DIAMETER SCH 40 (IN)	SCREEN INTERVAL (BGS)	NOTES
MW-31D2	2	135-150	
MW-31D3	2	180-195	
MW-32D2	2	75-90	
MW-32D3	2	120-135	
MW-33D2	2	75-90	
MW-33D3	2	120-135	

NEW MONITORING WELL SCHEDULE
SCALE NTS

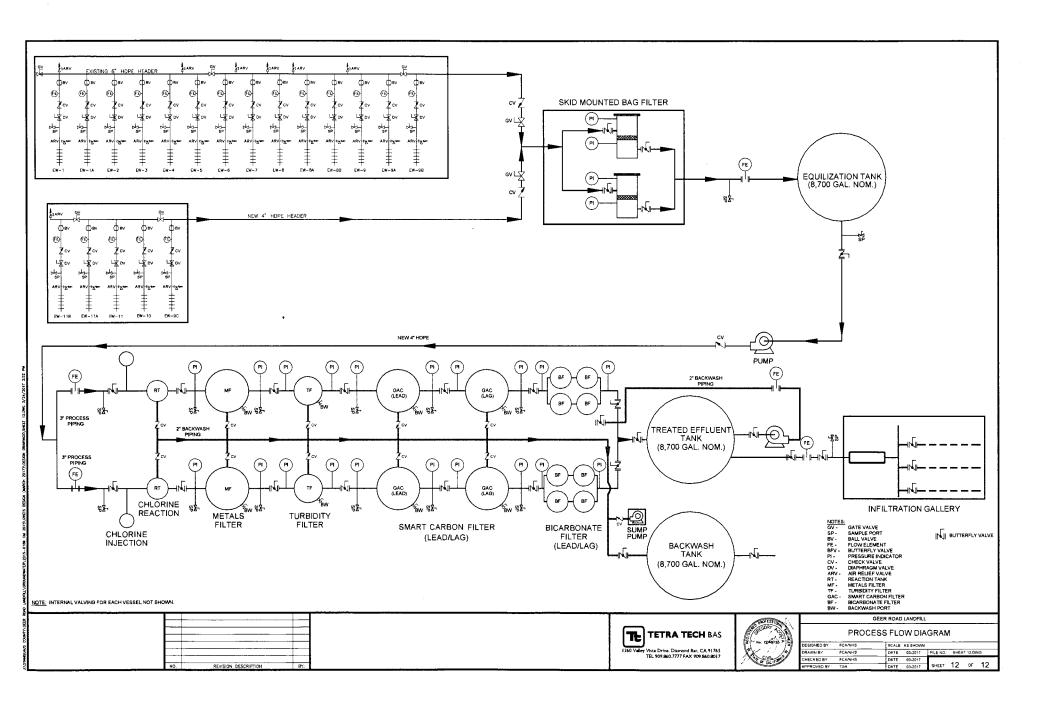
	NEW PIEZO!	METER SCHEDUL	.Ε
WELL ID	WELL CASING DIAMETER SCH 40 (IN)	SCREEN INTERVAL (BGS)	NOTES
PZ-10	2	5-30	
PZ-11	2	5-30	
PZ-12	2	5-30	
PZ-13	2	5-30	
PZ-14	2	15-35	" '
PZ-15 S/D	2	SHALLOW: 15-35 DEEP: 40-60	NESTED PIEZOMETER
PZ-16	2	15-35	
PZ-17	2	55-75	
PZ-18 S/D	2	SHALLOW: 55-75 DEEP: 100-120	NESTED PIEZOMETER
PZ-19	2	70-90	
PZ-20	2	70-90	

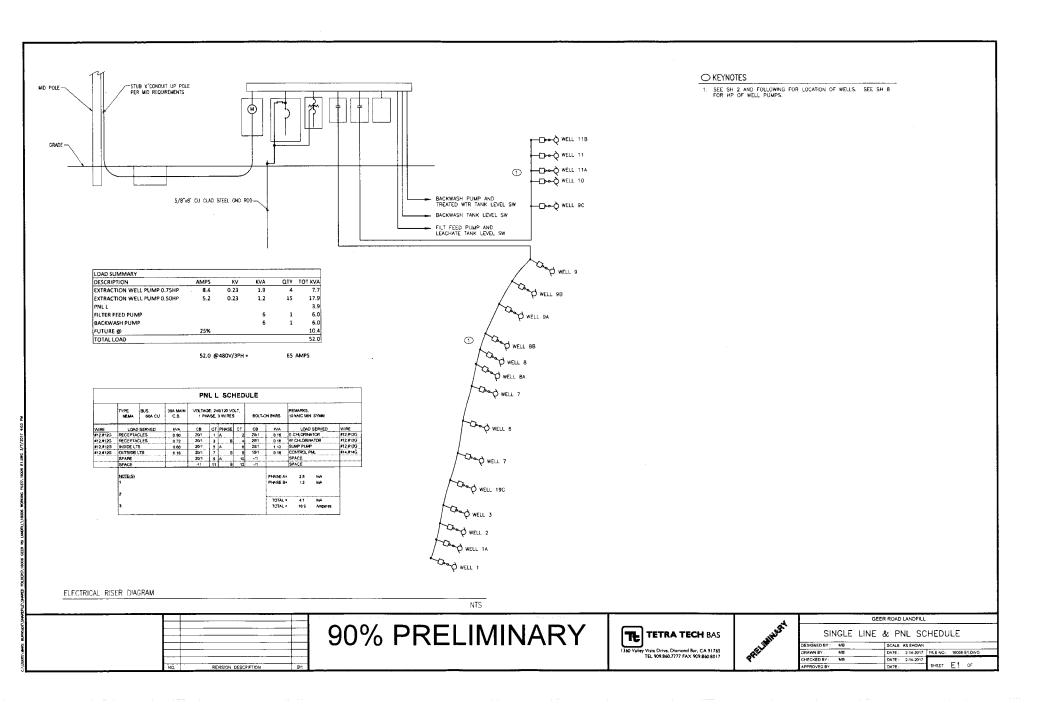
NEW PIEZOMETER SCHEDULE SCALE: NTS

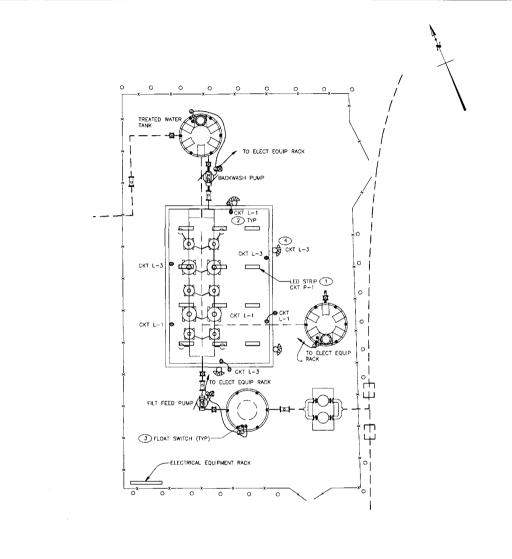
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APPROVED BY	TGA	DATE 03-2017 SHEET 11 OF 12			







REVISION DESCRIPTION

### **O KEYNOTES**

- 1. LED SURFACE AMBIENT LUMINAIARE, 4' LONG, 5000 LUMENS, 5300K COLOR TEMPERATURE, ADTHLIC LENS, SUSPENDED MOUNT, MULTIVOLTAGE FORVER, CREE 124 50L 35% WITH AC5-12/3-48-0148-JB, ADJUSTABLE CABLE SUPPORT KIT W, 12/3 SJT POWER FEED, MOUNT 18' BELOW CELLING. (UNIT IS DIMMABLE, BUT THIS THIS OPTION IS NOT TO BE USED.)
- 120V, 20A U-GROUND GFCI FED SPEC GRADE DUPLEX OUTLET WITH DEVICE COVER UL LISTED WP WITH PLUG INSERTED. INSTALL 2' ABOVE FLOOR OR GRADE.
- 3. PROVIDE MECHANICAL TILT FLOAT LEVEL SWITCH WITH SPOT, FORM C CONTACT, WEIGHT TETHER, ABS SHELL AND SJOW CABLE. UNITS SHALL BE GEMS M GRE 40 W. SUPPORT CABLE WITH J-HOOK ADJACENT TO TANK HATCH.
- 4. LED FLOODLIGHT WITH MOTION SENSOR AND PHOTO SENSOR, AND 3 ADJUSTABLE HEADS. MOTION SENSOR SHALL HAVE 180 DEGREE DETECTION AND 70' FORWARD RANGE. AND ADDITIONAL DOWNWARD PERIMETER PROTECTION. LITHONIA OFLER MO WH.

90% PRELIMINARY



1360 Valley Vista Drive, Diamond Bar, CA 91765 TEL 909.860,7777 FAX 909.860.8017

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GEEN HOAD EANDFIEL							
TREATMENT	PLANT	ELECTRICAL	PLAN				

# Attachment C

# **Newspaper Advertisement**

# INVITATION TO CONTRACTORS "GEER ROAD LANDFILL GROUNDWATER EXTRACTION AND TREATMENT SYSTEM CONSTRUCTION PROJECT"

Owner is Stanislaus County Department of Environmental Resources, Modesto, CA. Sealed bids are due before 2:00 P.M., May 31, 2017, to the Clerk of the Board of Supervisors, 1010 10th Street, Ste. 6700, Modesto, CA 95354. Project contact is Julie Mendoza, imendoza@envres.org or Fax: 209-525-6773. The work to be accomplished includes constructing a new groundwater extraction and treatment System (GWETS) at the Geer Road Landfill. The work will occur on the western portion of the landfill and on the county-owned Triangle Ranch Property. Work includes installing new groundwater extraction wells, piezometers, conveyance lines, a new treatment system, infiltration gallery, and associated electrical components as presented in the Construction Plans and Specifications. Plans and specifications are available FOR VIEWING, DOWNLOADING AND ORDERING on www.modestoplanroom.com and follow the links. You can also find information for this project at the Modesto Reprographics webpage at www.modestoreprographics.com. Paper copies are available from Modesto Reprographics. Call (209) 544-2400 for questions regarding the purchase of plans and specifications.

# DECLARATION OF PUBLICATION (C.C.P. \$2015.5)

# COUNTY OF STANISLAUS STATE OF CALIFORNIA

I am a citizen of the United States and a resident Of the County aforesaid; I am over the age of Eighteen years, and not a party to or interested In the above entitle matter. I am a printer and Principal clerk of the publisher of THE MODESTO BEE, printed in the City of MODESTO, County of STANISLAUS, State of California, daily, for which said newspaper has been adjudged a newspaper of general circulation by the Superior Court of the County of STANISLAUS, State of California, Under the date of February 25, 1951, Action No. 46453; that the notice of which the annexed is a printed copy, has been published in each issue there of on the following dates, to wit:

INVITATION TO CONTRACTORS

"GEER ROAD LANDFILL
GROUNDWATER EXTRACTION AND
TREATMENT SYSTEM
CONSTRUCTION PROJECT"

Owner is Stanislaus County Department of Environmental Resources, Modesto, CA. Sealed bids are due before 2:00 P.M., May 31, 2017, to the Clerk of the Board of Supervisors, 1010 10 th Sireet Ste. 6703, Modesto, CA 95354. Project contact is Julie Mendoza, imendoza@envres.org or Fox: 209-525-6773. The work to be accomplished includes constructing a new groundwater extraction and treatment System (GWETS) at the Geer Road Landfill. The work will occur on the westem portion of the landfill and on the county-owned Triangle Ranch Property. Work includes installing new groundwater extraction wells, piezormeters, conveyance lines, a new treatment system, infiltration gallery, and associated electrical components as presented in the Construction Plans and Specifications. Plans and specifications are available FOR VIEWING, DOWNLOADING AND ORDERING on www.modesloplanroom.com and follow the links. You can also find Information for this project at the Modesto Reprographics. Call (209) 544-2400 for questions regarding the purchase of plans and specifications.

Apr 23, 2017, Apr 30, 2017, May 07, 2017

I certify (or declare) under penalty of perjury That the foregoing is true and correct and that This declaration was executed at

MODESTO, California on

May 7th, 2017

(By Electronic Facsimile Signature)

Cyrille a. Willeman