

Brantley, Anna

From: Brantley, Anna
Sent: Tuesday, April 05, 2011 1:38 PM
To: 'lerose@scgov.net'; 'gbennett@scgov.net'; 'cliff.koenig@hdrinc.com';
'jason.timmons@hdrinc.com'; Zell, David; Watson, Stephanie M.; Pelz, Susan
Cc: Morgan, Steve
Subject: Sarasota CCSWDC #130542-009-SO-08 Phase I Seq 1 GCCS construction certification approval 4-5-2011.pdf (SECURED) - Adobe Acrobat Professional
Attachments: Sarasota CCSWDC #130542-009-SO-08 Phase I Seq 1 GCCS construction certification approval 4-5-2011

Attached please find Certification of Construction Completion Approval document for the subject Solid Waste Facility. You will only receive this electronic copy of the document.

NOTE: If you have questions concerning the content of the document, please contact the DEP permit processor steve.morgan@dep.state.fl.us

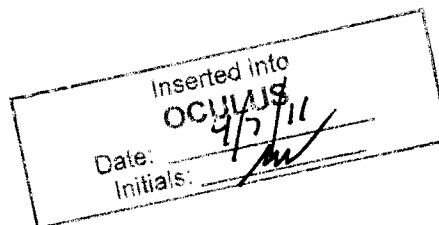
Acrobat Reader 6.0 or greater is required to read this document. It is available for downloading at:
<http://www.adobe.com/products/acrobat/readstep.html>

If I may be of assistance, please contact me.

Anna

Anna Brantley
Administrative Assistant II
FL DEP / SWD / Waste Management
13051 North Telecom Parkway
Temple Terrace FL 33637-0629
Tel: 813/632-7600, Ext. 377
Fax: 813/632-7664
anna.brantley@dep.state.fl.us

The Department of Environmental Protection values your feedback as a customer. DEP Secretary Hershel T. Vinyard Jr is committed to continuously assessing and improving the level and quality of services provided to you. Please take a few minutes to comment on the quality of service you received. Simply click on [this link to the DEP Customer Survey](#). Thank you in advance for completing the survey.





Florida Department of Environmental Protection

Southwest District
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926
Telephone: 813-632-7600

Rick Scott
Governor

Jennifer Carroll
Lt. Governor

Herschel T. Vinyard Jr.
Secretary

Transmitted electronically only to: lerose@scgov.net

Ms. Lois Rose, Manager
Sarasota County Solid Waste Operations
4000 Knights Trail Road
Nokomis, Florida 34275

April 5, 2011

RE: Central County Solid Waste Disposal Complex, Sarasota County
Phase I, Sequence 1 Gas Collection/Control System Construction
Certification
Permit No.: 130542-009-SO/08
WACS No.: SWD/58/51614

Dear Ms. Rose:

The Department has reviewed the following information prepared in support of the Certification of Construction Completion for the Phase I, Sequence 1 Gas Collection/Control System construction originally submitted August 13, 2010.

Central County Solid Waste Disposal Complex Phase I Landfill Gas Collection and Control System Sequence 1 Certification of Construction Completion Report, August 2010, received on August 13, 2010, prepared by HDR Engineering, Inc.

Response to Request for Additional Information - Central County Solid Waste Disposal Complex, Sarasota County, Phase I, Sequence 1 Gas Collection/Control System Construction Certification..., dated September 30, 2010 (received October 1, 2010), prepared by HDR Engineering, Inc.

Phase I Hot Spot Issue - Status and Proposed Response Plan, Central County Solid Waste Disposal Facility..., dated December 9, 2010 (received via e-mail December 9, 2010), prepared by HDR Engineering, Inc.

Phase I Hot Spot Issue - Implementation of Phase II of Hot Spot Response Plan, Central County Solid Waste Disposal Facility..., dated January 12, 2011 (received via e-mail January 12, 2011), prepared by HDR Engineering, Inc.

Phase I Hot Spot Issue Response Plan - Phase II Landfill Gas Header Damage and Repairs, Sarasota County Central County Solid Waste Disposal Facility..., dated January 28, 2011 (received via e-mail January 28, 2011), prepared by HDR Engineering, Inc.

Based on review of construction certification reports referenced above, the Department has determined that the following unapproved construction deviation occurred during the Phase I, Sequence 1 Gas Collection/Control System construction:

1. The as-built drawings show that the condensate knockout pots that were part of the permitted design of the landfill gas collection/control system were either not constructed or replaced with other structures. The permittee confirmed in the September 30, 2010 submittal referenced above that the condensate knockout pots were not constructed.

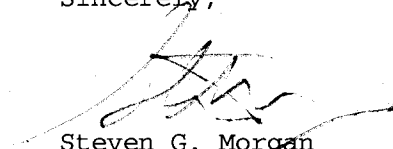
2. Section 3.4 of the approved Engineering Report stated, "Initially, two blowers will be installed to collect the gas from the landfill." and "One blower will be operated at any given time to insure continuous system operation. Typically, the blowers will be utilized on an alternating basis to reduce wear and tear, and to allow service on one of the blowers while the other is operating." The as-built drawings show and the permittee confirmed in the September 30, 2010 submittal referenced above that only one blower was installed.

3. The construction certification report indicated that the constructed Condensate Sump S-5 was a 48-inch diameter condensate sump, instead of the permitted 36-inch diameter condensate sump design. Sheet 00C-03 of the as-built drawings indicated that Condensate Sump S-5 was constructed at the location where a knockout pot was to be installed in the gas header line immediately prior to the landfill flare station and that the knockout pot was not constructed. These construction changes were confirmed by the permittee in the September 30, 2010 submittal referenced above.

Based on review of construction certification reports and Phase I Hot Spot Issue reports referenced above, the Department has determined that, except for above noted construction deviations, the Phase I, Sequence 1 Gas Collection/Control System was constructed substantially in accordance with the approved design and the construction requirements of **Permit No. 130542-009-SC/08**.

The Department therefore approves the certification of construction completion of the Phase I, Sequence 1 Gas Collection/Control System and approves the operation of the Phase I, Sequence 1 Gas Collection/Control System in accordance with **Permit 130542-007-SO/01**. If you would like to discuss any issue in this letter, please contact me at (813) 632-7600 ext. 385.


Sincerely,



Steven G. Morgan
Solid Waste Section
Southwest District

SM/sgm

cc: Gary Bennett, Sarasota County, gbennett@scgov.net
Cliff Koenig, P.E., HDR Engineering, Inc., Cliff.Koenig@hdrinc.com
Jason Timmons, P.E., HDR Engineering, Inc. jason.timmons@hdrinc.com
David Zell, FDEP Tampa -Air Section (e-mail)
Stephanie Watson, FDEP Tampa (e-mail)
Susan Pelz, P.E., FDEP Tampa (e-mail)



Morgan, Steve

From: Morgan, Steve
Sent: Friday, September 10, 2010 3:34 PM
To: 'Lois E. Rose'
Cc: 'Koenig, Cliff'; Zell, David; Pelz, Susan; Watson, Stephanie M.
Subject: Sarasota CCSWDC Phase I Seq 1 GCCS construction certification RAI
Attachments: Sarasota CCSWDC Phase I Seq 1 GCCS construction certification RAI.pdf

Tracking:	Recipient	Read
	'Lois E. Rose'	
	'Koenig, Cliff'	
	Zell, David	Read: 9/13/2010 7:47 AM
	Pelz, Susan	Read: 9/13/2010 7:56 AM
	Watson, Stephanie M.	Read: 9/10/2010 3:39 PM

Lois:

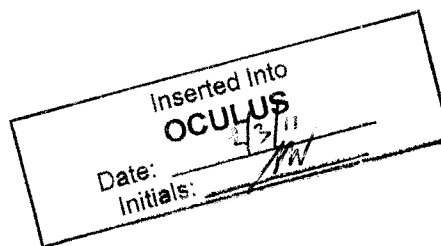
Attached is an electronic copy of the Request for Additional Information (RAI # 1) letter for the above construction certification. A hard copy was not sent via US Mail.

This is the only electronic copy you will receive. Acrobat Reader 6.0 or greater is required to read this document, and is available for downloading at: <http://www.adobe.com/products/acrobat/readstep.html>

Please feel free to e-mail or call me if you have any further questions.

Steven G. Morgan, Solid Waste Section
Florida Department of Environmental Protection
Southwest District Office
13051 North Telecom Parkway
Temple Terrace, FL 33637-0926

phone - (813) 632-7600 x385
fax - (813) 632-7664
e-mail - steve.morgan@dep.state.fl.us





October 11, 2010

Dept. Of Environmental Protection

OCT 13 2010

Steven G. Morgan
Solid Waste Section
Southwest District Office
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

Southwest District

**RE: Request to Extend Gas Collection and Control System Operation
Central County Solid Waste Disposal Complex, Sarasota County
Phase I, Sequence 1 Gas Collection/ Control System Construction Certification
Permit No.: 130542-009-SO/08
WACS No.: SWD/58/51614**

Dear Mr. Morgan:

On behalf of Sarasota County, HDR Engineering, Inc. (HDR) is requesting an extension to operate the gas collection and control system (GCCS) at the Central County Solid Waste Disposal Complex. The current operational history of the GCCS is summarized below from the Florida Department of Environmental Protection's (FDEP) request for additional information dated September 10, 2010.

In accordance with Specific Condition #C.1.b., temporary operation of the system was authorized for up to 180 days to allow for system start-up and operational adjustments while the certification of construction completion and permit modification submittals and approvals required by this specific condition were completed. On May 25, 2010, the Department's Air Section received notification of start-up operations for the Phase I landfill gas collection and control system flare station at the Central County Solid Waste Disposal Complex on May 18, 2010. Based on the May 18, 2010 start-up date, authorization for the temporary operation of the system expires on November 19, 2010.

We request an additional **90 days** to extend temporary operation of the GCCS from November 19, 2010, to February 17, 2011. This would allow FDEP time to review the construction certification report for completeness and approve the GCCS operation permit modification submittal. Based on the construction certification report response letter dated September 30, 2010, HDR believes there are no significant deviations of the GCCS components as constructed which would require a construction permit modification since they do not pose an impact on the environment. The GCCS is installed and operating as intended based on the original and permitted design. Continued operation of the GCCS would allow the Central County Solid Waste Disposal Complex to reduce landfill gas emissions.

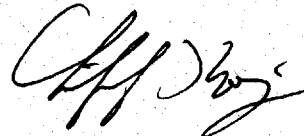
Mr. Steven G. Morgan
October 11, 2010
Page 2

If you have any questions or concerns regarding the comment responses or attached documents, please contact me at (813) 262-2776 or (813) 270-8058.

Sincerely,
HDR Engineering, Inc.



Richard A. Siemering
Solid Waste Section Manager



Cliff Koenig, P.E.
Engineer of Record
Florida PE No. 64078

cc: Spencer Anderson, P.E., Sarasota County
Jack Gibson, Sarasota County
Gary Bennett, Sarasota County
Lois Rose, Sarasota County



Florida Department of Environmental Protection

Southwest District
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926
Telephone: 813-632-7600

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Mimi A. Drew
Interim Secretary

Transmitted electronically only to: lerose@scgov.net

Ms. Lois Rose, Manager
Sarasota County Solid Waste Operations
4000 Knights Trail Road
Nokomis, Florida 34275

September 10, 2010

**RE: Central County Solid Waste Disposal Complex, Sarasota County
Phase I, Sequence 1 Gas Collection/Control System Construction Certification
Permit No.: 130542-009-SO/08
WACS No.: SWD/58/51614**

Dear Ms. Rose:

The Department has reviewed the above referenced Certification of Construction of the Phase I, Sequence I Gas Collection and Control System and supporting documents received on August 13, 2010. Based on the Department's review, the certification of construction is not approved. This is the Department's first request for information. Please provide the information listed below promptly.

CERTIFICATION OF CONSTRUCTION COMPLETION - DEP Form #62-701.900(2)

1. **Deviations from Plans and Application Approved by DEP:** As indicated by the comments provided below, deviations from the plans and application approved by the Department do not appear to be limited to changes listed in Section 1.0 of the construction completion report, nor does it appear that "no significant deviations occurred during construction". Please verify and revise the narrative in Section 1.0 of the report to identify all changes in plans and a description of the cause of the deviations from the plans and application approved by the Department, in accordance with Specific Condition #B.2.a.(3) of Permit No. 130542-009-SC/08.

2. Except for the change from a dual containment condensate force main pipe to a single pipe discussed in Section 4.5 of the construction completion report, Department records do not appear to indicate that a permit modification was applied for and issued by the Department for the construction deviations discussed in Section 1.0 of the construction completion report and identified in the Department comments provided below, or that these deviations were otherwise approved by the Department in accordance with Specific Condition #A.3.a. of Permit No. 130542-009-SC/08. This appears to constitute a violation of Rule 62-701.320(1), F.A.C. Please verify and provide an explanation of why prior approval of these changes was not obtained from the Department, in accordance with Specific Condition #A.3.a. of Permit No. 130542-009-SC/08.

CERTIFICATION OF CONSTRUCTION COMPLETION REPORT

3. Section 1.0:

a. Please revise this section to indicate whether the remainder of the Phase I Sequence 1 gas system will be installed when the southeast corner reaches final design grade or as part of the Phase I Sequence 2 gas system construction.

b. In addition to the replacement of a knockout pot with an HDPE wye at the southeast corner of Phase I, all other knockout pots that were part of the permitted design of the Phase I gas system do not appear to have been constructed. Department records do not appear to indicate that a permit modification or prior Department approval was obtained for this construction modification. Please verify and explain the cause and/or justification for this construction modification, including all supporting information and/or calculations utilized, and revise the appropriate sections of the construction certification report accordingly.

4. **Section 2.2.4:** Section 3.4 of the approved Engineering Report states, "Initially, two blowers will be installed to collect the gas from the landfill." and "One blower will be operated at any given time to insure continuous system operation. Typically, the blowers will be utilized on an alternating basis to reduce wear and tear, and to allow service on one of the blowers while the other is operating." This section indicates and Sheet 00C-06 of the as-built drawings shows that only one blower was installed. This appears to be a deviation from the plans and application approved by the Department in Permit No. 130542-009-SC/08. Department records do not appear to indicate that a permit modification or prior Department approval was obtained for this construction modification. Please verify and explain cause and/or justification for this construction modification, including all supporting information and/or calculations utilized, and revise this section of the construction certification report accordingly.

5. **Section 4.6:** This section indicates that constructed Condensate Sump S-5 is a 48-inch diameter condensate sump, instead of the permitted 36-inch diameter condensate sump design. Sheet 00C-03 indicates that Condensate Sump S-5 was constructed at the location where a knockout pot was to be installed in the gas header line immediately prior to the landfill flare station and that the knockout pot was not constructed. This construction modification appears to be a deviation from the plans and application approved by the Department in Permit No. 130542-009-SC/08. Department records do not appear to indicate that a permit modification or prior Department approval was obtained for this construction modification. Please verify and explain cause and/or justification for this construction modification, including all supporting information and/or calculations utilized, and revise this section of the construction certification report accordingly.

APPENDIX G - Phase I Landfill GCCS As-Built Drawings

Please provide revised drawings that address the comments provided above and below, including all necessary details for certification of the construction of the GCCS. **The drawings may be reviewed in their entirety after the responses to these requests for information are submitted.**

6. **Sheet 00C-03A & 00C-03C:** Please explain the changes in location of the access points adjacent to GW-8 and GW-23.

The following comment is provided for informational purposes and does not necessarily require a response, other than acknowledgement of the comment.

7. In accordance with Specific Condition #C.1.b. of Permit No. 130542-009-SC/08, operation of the gas collection and control system is not authorized until the construction certification is approved and a modification to the facility's operation permit is issued that authorizes operation of the system. Permit Modification #130542-010-SO/MM, authorizing operation of the GCCS once construction certification is completed and approved by the Department, was issued on June 18, 2009. However, as indicated above, the certification of construction completion is not approved at the time.

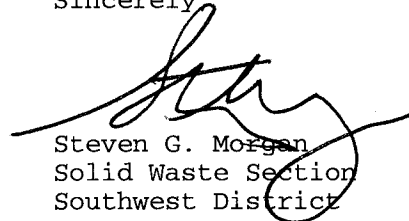
In accordance with Specific Condition #C.1.b., temporary operation of the system was authorized for up to 180 days to allow for system start-up and operational adjustments while the certification of construction completion and permit modification submittals and approvals required by this specific condition were completed. On May 25, 2010, the Department's Air Section received notification of start-up operations for the Phase I landfill gas collection and control system flare station at the Central County Solid Waste Disposal Complex on May 18, 2010. Based on the May 18, 2010 start-up date, authorization for temporary operation of the system expires on November 19, 2010.

Please provide all responses that relate to engineering for design and operation, including plan sheets, signed and sealed by a professional engineer. All replacement pages should be numbered and include a revision date.

This staff assessment is preliminary and is designed to assist in the review of the construction certification submittal. The comments provided herein are not the final position of the Department and may be subject to revision pursuant to additional information and further review.

Please be advised that under the provisions of Specific Condition #C.1.b. of the above referenced permit, operation of the gas collection and control system is not authorized at this time. The Department requests that you contact me to set up a meeting to discuss the issues in this letter. Please contact me at (813) 632-7600 ext. 385.

Sincerely,



Steven G. Morgan
Solid Waste Section
Southwest District

SM/sgm

cc: Cliff Koenig, P.E., HDR Engineering, Inc., Cliff.Koenig@hdrinc.com
David Zell, FDEP Tampa -Air Section (e-mail)
Stephanie Watson, FDEP Tampa (e-mail)
Susan Pelz, P.E., FDEP Tampa (e-mail)



COST PERMIT
FILE

February 5, 2010

Ms. Susan J. Pelz, P.E.
Florida Department of Environmental Protection
Southwest District
13051 N. Telecom Parkway
Temple Terrace, FL 33637-0926

Dept. Of Environmental Protection
FEB 08 2010
Southwest District

Re: **Transmittal of Dewatering Plan for Phase I Landfill Gas Collection and Control System Construction at the Central County Solid Waste Disposal Complex (CCSWDC)**
Permit Number 130542-009-SC/08
Sarasota County, Florida

Dear Steve:

On behalf of the Sarasota County Solid Waste Operations (Owner) and SCS Field Services, Inc. (Contractor), HDR Engineering, Inc. (HDR), as a courtesy to the Florida Department of Environmental Protection (FDEP), hereby submits 4 copies of the enclosed Dewatering Plan. Should you have any questions or issues with this plan, please do not hesitate to contact me. We would appreciate an expedited review of the plan since the contractor will need to dewater in the near future.

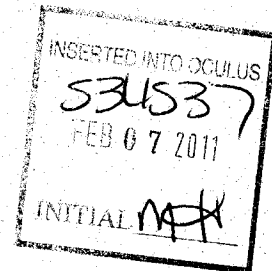
Sincerely,

HDR Engineering, Inc.

Richard Siemering
Senior Project Manager

Enclosures

cc: Gary Bennett, Sarasota County
Lois Rose, Sarasota County
Spencer Anderson, Sarasota County
Robert Butler, SCS Field Services



DEWATERING PLAN

LANDFILL GAS COLLECTION – PHASE I

SARASOTA COUNTY CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX

12209031.00

Dept. Of Environmental Protection
FEB 08 2010

Southwest District

GENERAL

Construction of the landfill gas collection project at the Sarasota County Central County Solid Waste Disposal Complex includes the construction of four gas collection condensate sumps that will require temporary dewatering during construction. All four sumps are located within the limits of County-owned property at the Solid Waste Disposal Complex. If it becomes necessary to dewater the pipeline trench during construction outside the limits of Phase I, the dewatering will be pumped to the nearest cleanout, CO 13, 14, or 15.

DEWATERING METHOD

A two-inch or three-inch diameter discharge trash pump will be used to dewater each sump. The pump discharge will be approximately 150 to 200 gallons per minute. One sump will be dewatered at a time and it is anticipated that each sump will require dewatering for approximately two days.

DEWATERING DISCHARGE

Sump 2 is located within the limits of buried waste. This sump is shown on Sheet 00C 03 attached. Liquid pumped during construction dewatering from this sump will be pumped to a nearby leachate cleanout riser pipe, LCO-3S, shown on Sheet 00C-03 which will allow the liquid to drain back into the landfill leachate collection system. Three sumps, Sumps 3, 4, and 5, are located outside the limits of buried waste. These sumps are shown on Sheet 00C 04. Liquid pumped during construction dewatering from these three sumps will be pumped to the existing leachate storage tank through existing leachate force main cleanouts. Dewatering from Sump 3 would be pumped to cleanout CO 13, dewatering from Sump 4 would be pumped to cleanout CO 14, and dewatering from Sump 5 would be pumped to cleanout CO 15. Cleanouts CO-13 and CO-14 are shown on Sheet C-29. Cleanouts CO-15 is shown on Sheet C-30. A detail of the cleanouts is provided on Sheet C-32. As shown on the detail, the cleanouts are furnished with a Camlock coupler to facilitate discharge into the existing forcemain.

Sarasota County will shut down the leachate pumping system during construction to facilitate the use of the forcemain for dewatering. SCS will coordinate with the County to make sure that the leachate collection pumps are manually turned off during disposal into the leachate forcemain.

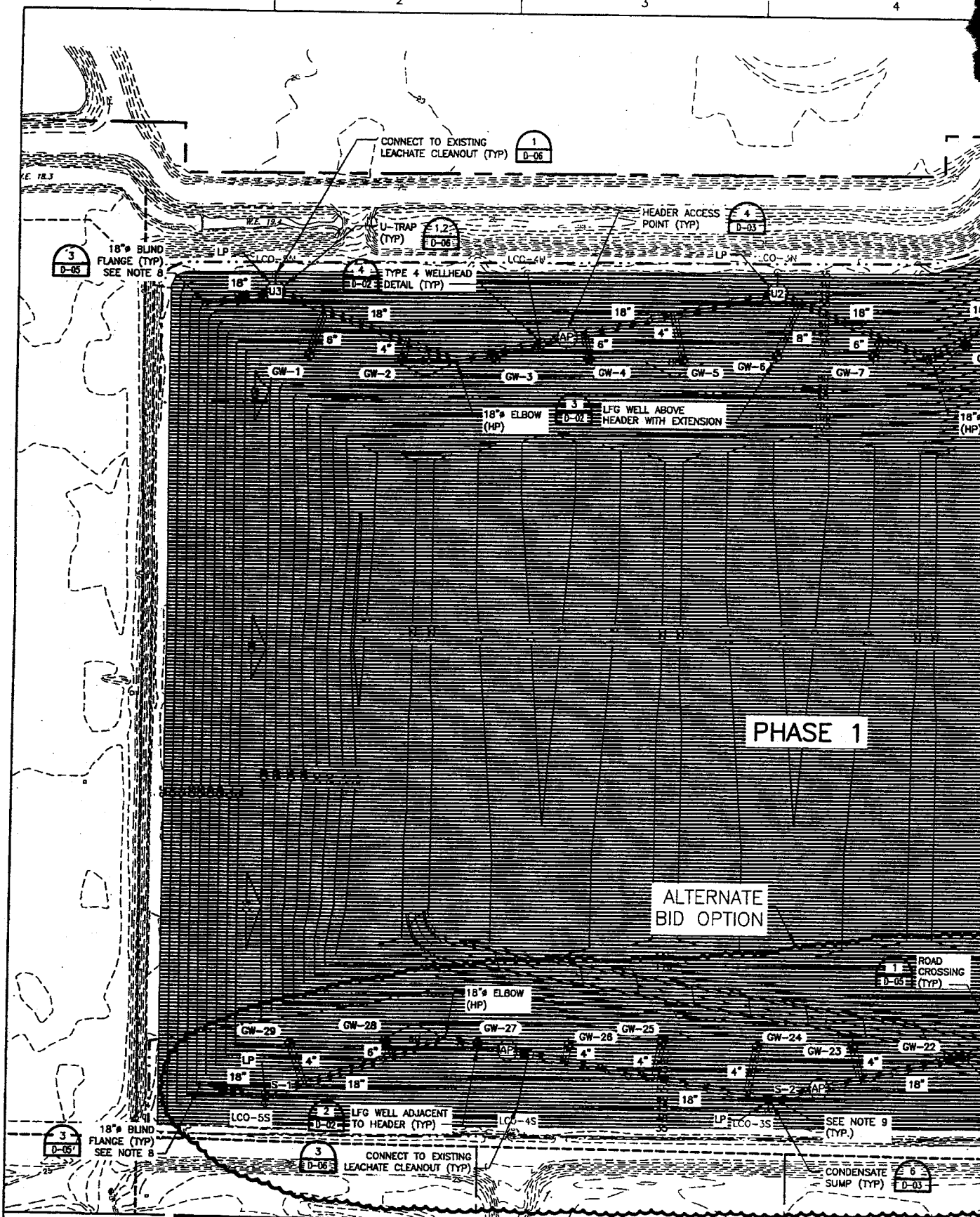
Liquid from dewatering will not be discharged to groundwater or surface water, and it will not be discharged onto the ground surface.

CONTINGENCY OPERATION

If the primary dewatering pump should fail, a backup pump may be used to dewater the sump. If a backup pump is not readily available or if the leachate storage tank is full, dewatering may be temporarily halted. Stopping dewatering will not result in discharge to ground or surface water.

DRAWINGS

Attached are Sheets 00C-03, 00C-04, C-29, C-30, and C32.



HDR

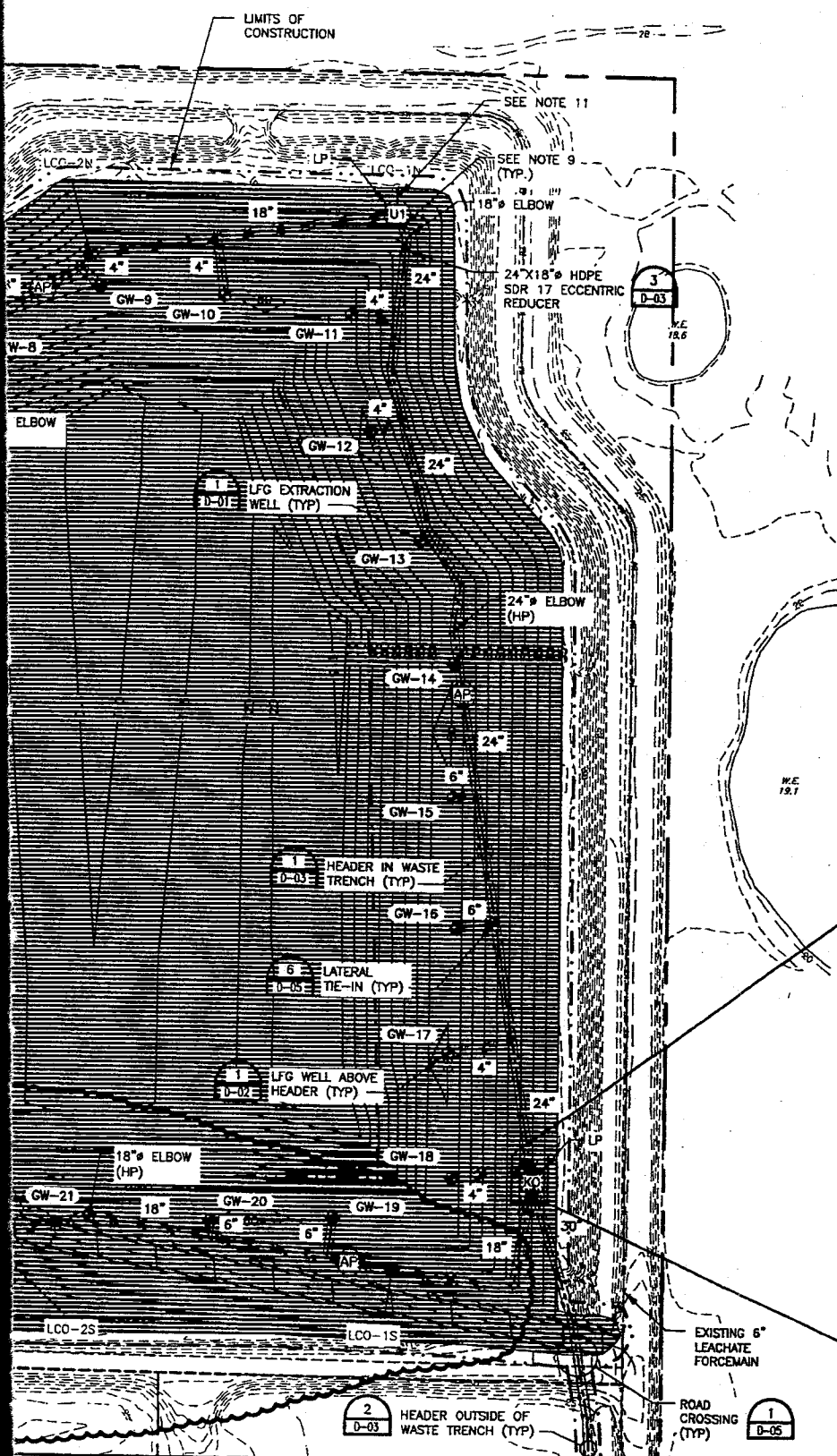
HDR Engineering, Inc.

ISSUE	DATE	DESCRIPTION
2	12/09	ISSUED FOR CONSTRUCTION
1	08/09	ISSUED FOR BID
0	05/09	ISSUED FOR CLIENT REVIEW

PROJECT MANAGER C. KOENIG, P.E.
 DESIGNED BY A. BARKER, E.I.
 DRAWN BY D. SOSA

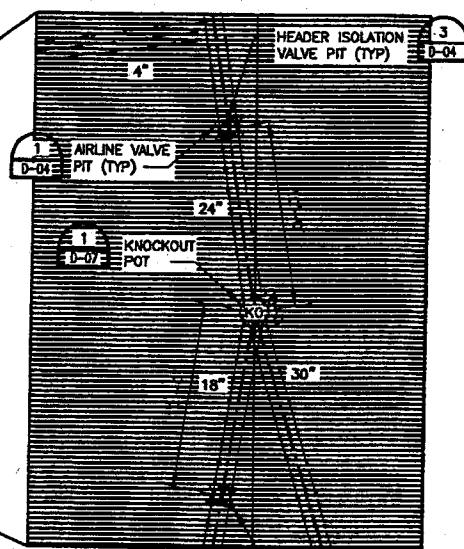
CHECKED BY C. LEBRON, P.E.
 PROJECT NUMBER 101628

Dept. Of Environmental Protection
FEB 08 2010
Southwest District



NOTES:

1. TOPOGRAPHY WITHIN PHASES I THROUGH IV WAS COMPILED BY KUCERA INTERNATIONAL INC. OF WILLOUGHBY, OHIO USING PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHS DATED APRIL 12, 2008.
2. PROPOSED PHASE I FINAL GRADES DESIGNED BY HDR ENGINEERING, INC. TAMPA, FLORIDA.
3. CONTRACTOR TO PROVIDE A PRE-CONSTRUCTION SURVEY, PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES, TO VERIFY EXISTING CONDITIONS.
4. LOCATION AND DENSITY OF LFG EXTRACTION SYSTEM ARE APPROXIMATE AND SUBJECT TO CHANGE BASED ON EXISTING CONDITIONS.
5. THE LANDFILL GAS COLLECTION SYSTEM SHALL BE CONSTRUCTED IN 2 SEQUENCES. SEQUENCE 1 SHALL BE CONSTRUCTED UPON DEP APPROVAL OF PERMIT APPLICATION. SEQUENCE 2 IS NOT PART OF THIS CONSTRUCTION.
6. APPROXIMATE LOCATION OF PHASE I LEACHATE FORCEMAIN OBTAINED FROM RECORD DRAWINGS BY CAMP DRESSER & MCKEE, INC. DATED APRIL 1998. VERIFY LOCATION IN FIELD.
7. HEADER PIPE SHALL BE HDPE SDR 17 AND LATERAL PIPES SHALL BE HDPE SDR 11.
8. BLIND FLANGE AT BOTH ENDS OF HEADER SHALL BE LOCATED 20 FEET OUTSIDE OF PHASE 2 CONSTRUCTION GRADING PLAN. ACTUAL LOCATION TO BE DETERMINED AFTER PRE-CONSTRUCTION SURVEY. SEE DETAIL 3/D-05.
9. ALL LEACHATE CLEANOUT CONNECTIONS SHALL HAVE A REMOTE WELLHEAD, NOT SHOWN FOR CLARITY.
10. AIR AND FORCEMAIN SHOWN OFFSET FOR CLARITY.
11. CONDENSATE FORCEMAIN SHALL CONNECT TO LCO-1N AS SHOWN IN DETAIL 1/D-06.
12. IF THE BASE BID AND ALTERNATE BID ARE AWARDED, THE CONTRACTOR SHALL CONNECT THE 18\"/>



SCALE: 1"=5'

FORCE MAIN VALVE PIT (TYP)

Central County Solid Waste Disposal Complex

Phase 1 - Sequence 1

Landfill Gas Collection and Control System

ISSUED FOR CONSTRUCTION

SARASOTA COUNTY

FLORIDA

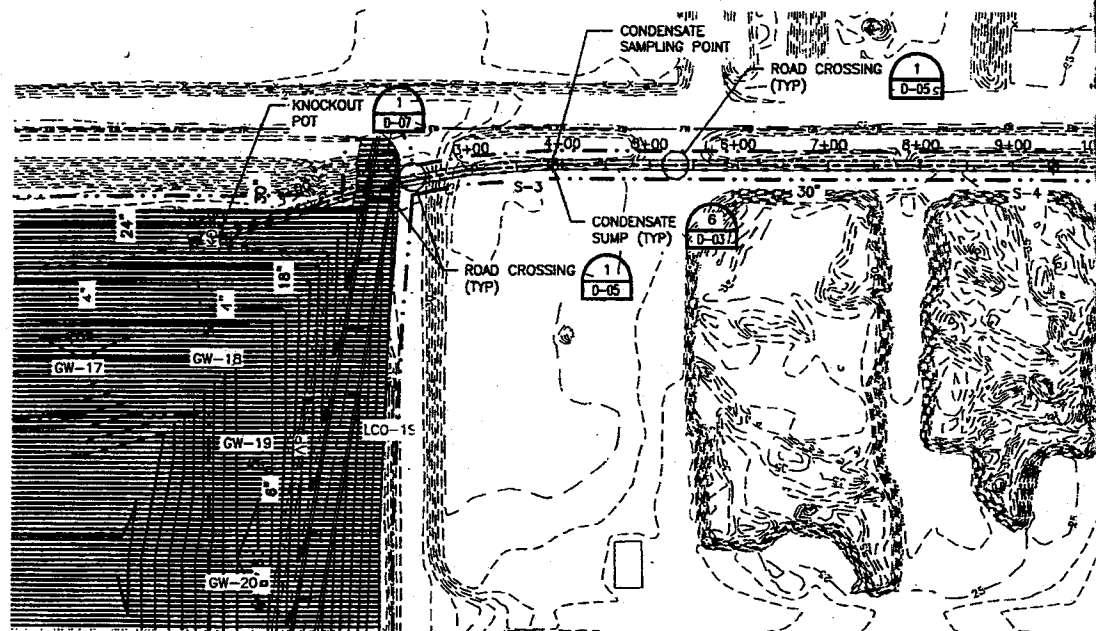
PHASE 1 GAS SYSTEM PIPING LAYOUT

0 1" 2"
AT FULL SIZE BAR LENGTH EQUALS TWO INCHES. ADJUST SCALE ACCORDINGLY.

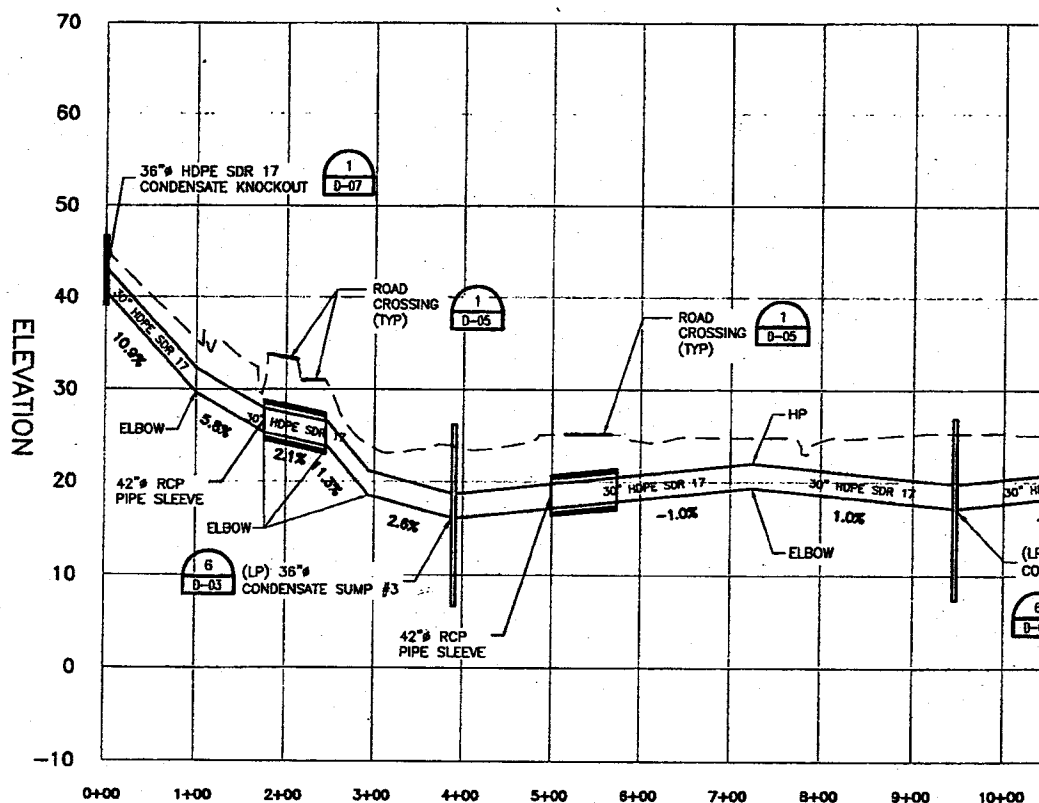
FILENAME: 00C-03.dwg
SCALE: 1" = 100'

SHEET: 00C-03

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
FEB - 8 2010
SOUTHWEST DISTRICT
TAMPA



PLAN VIEW
SCALE: 1"=100'



PROFILE VIEW
SCALE: 1"=10'V 1"=100'H

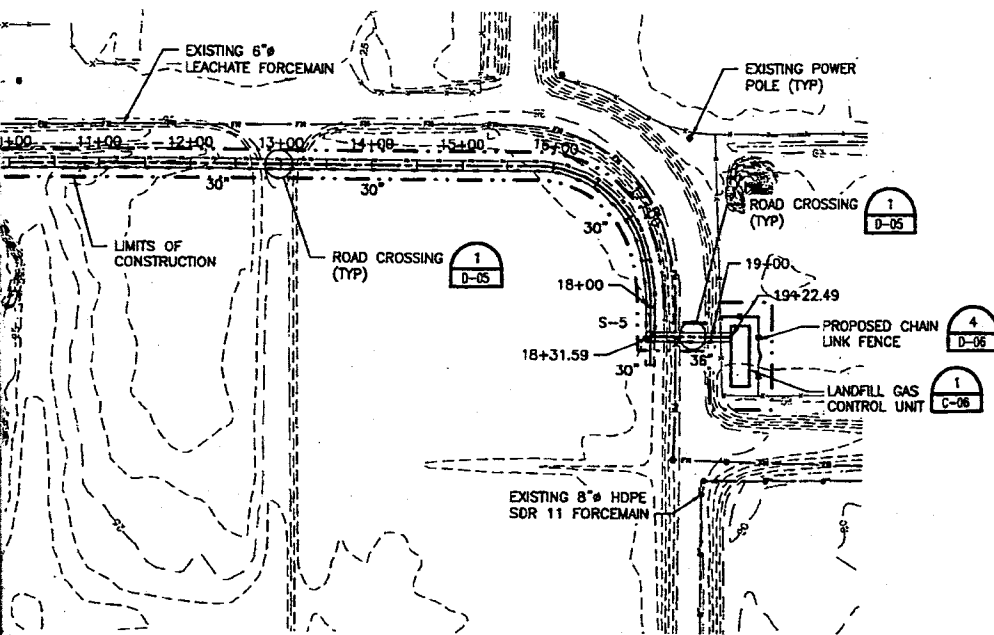


HDR

HDR Engineering, Inc.

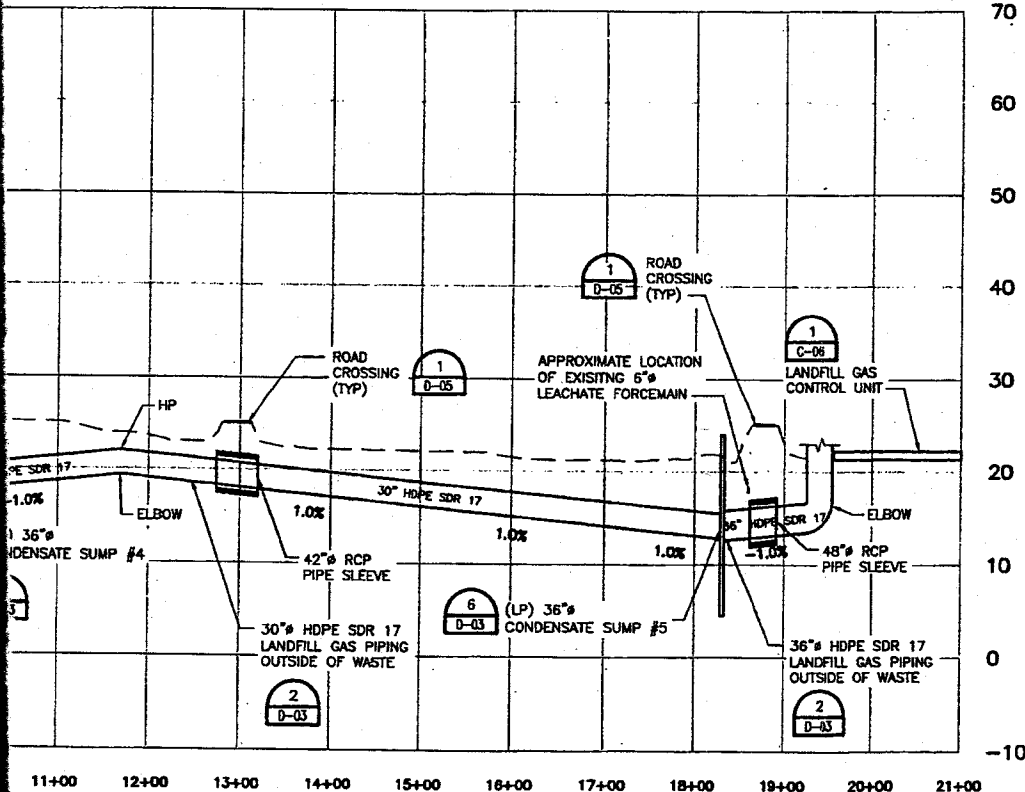
ISSUE	DATE	DESCRIPTION
2	12/09	ISSUED FOR CONSTRUCTION
1	08/09	ISSUED FOR BID
0	05/09	ISSUED FOR CLIENT REVIEW

PROJECT MANAGER	C. KOENIG, P.E.
DESIGNED BY	A. BARKER, E.I.
DRAWN BY	D. SOSA
CHECKED BY	C. LEBRON, P.E.
PROJECT NUMBER	101628



NOTES:

1. TOPOGRAPHY WITHIN PHASES I THROUGH IV WAS COMPILED BY KUCERA INTERNATIONAL INC. OF WILLOUGHBY, OHIO USING PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHS DATED APRIL 12, 2008.
2. TRENCH DEPTHS ARE CURRENTLY DESIGNED TO BE NO SHALLOWER THAN 4 FEET AND NO DEEPER THAN 8 FEET FOR ALL PIPING. SEE SUMP DETAIL FOR TOTAL SUMP DEPTH.
3. ONLY PROFILE OF HEADERLINE IS SHOWN FOR CLARITY. HOWEVER, AN AIRLINE AND A CONDENSATE FORCEMAIN SHALL BE INSTALLED IN THE SAME TRENCH.
4. GAS LINE MARKERS SHALL BE INSTALLED EVERY 300 FEET NOTING LOCATION OF HEADERLINE.
5. APPROXIMATE LOCATION OF PHASE I LEACHATE FORCEMAIN OBTAINED FROM RECORD DRAWINGS BY CAMP DRESSER & McKEE, INC. DATED APRIL 1998. VERIFY LOCATION IN FIELD.
6. CONTRACTOR RESPONSIBLE FOR CONNECTING HEADER PIPE TO LANDFILL GAS CONTROL UNIT. CONTRACTOR RESPONSIBLE FOR CONDENSATE DRAINAGE, ELECTRICAL CONNECTIONS AND PAD CONSTRUCTION.



NOTE: AIRLINE/FORCEMAIN LINES NOT SHOWN FOR CLARITY.

Dept. Of Environmental Protection
FEB 08 2010
Southwest District

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
FEB - 8 2010
SOUTHWEST DISTRICT
TAMPA

**Central County Solid Waste
Disposal Complex
Phase 1 - Sequence 1
Landfill Gas Collection and Control System
ISSUED FOR CONSTRUCTION**

SARASOTA COUNTY

FLORIDA

**HEADER TO FLARE STATION
PLAN & PROFILE**

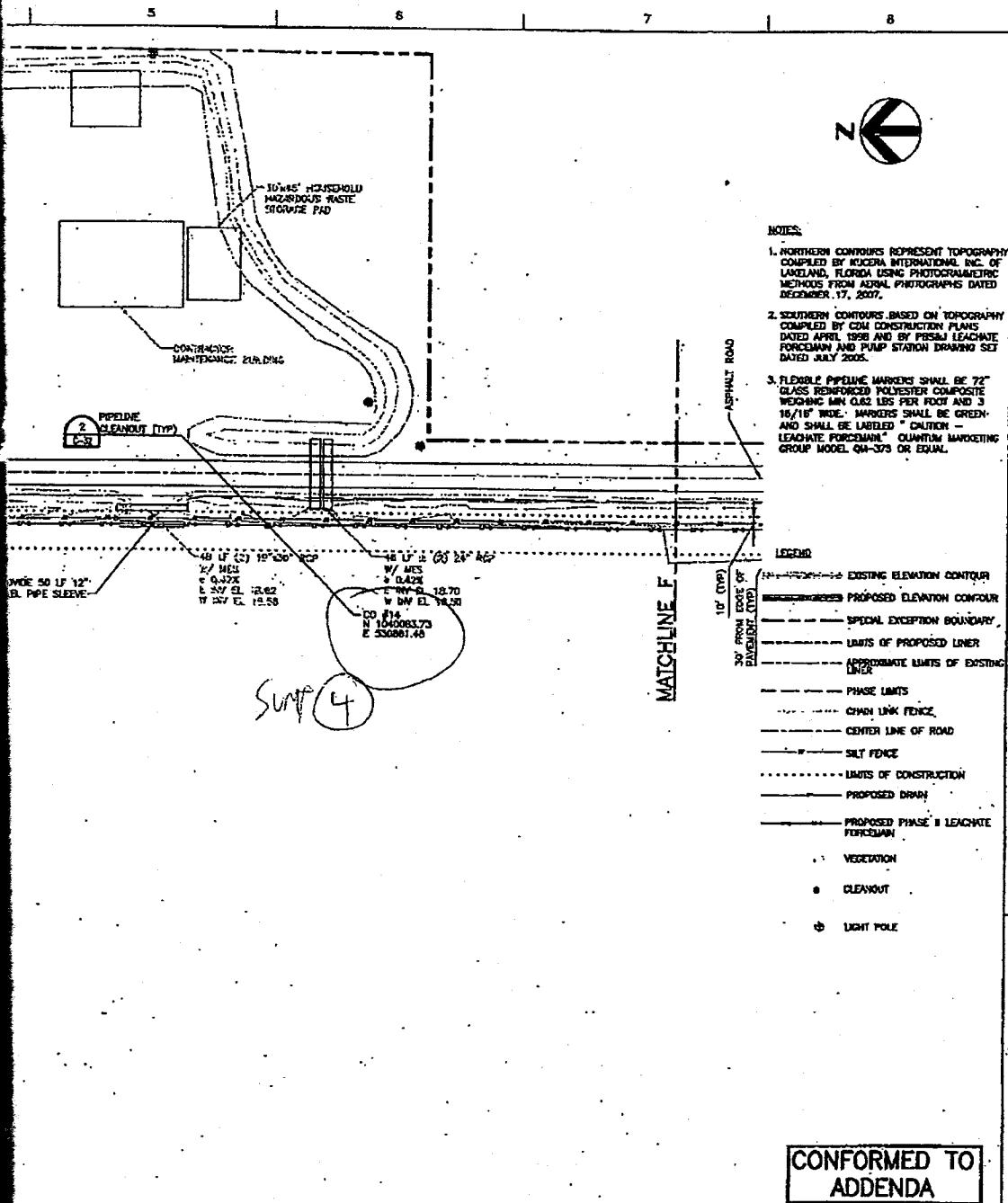



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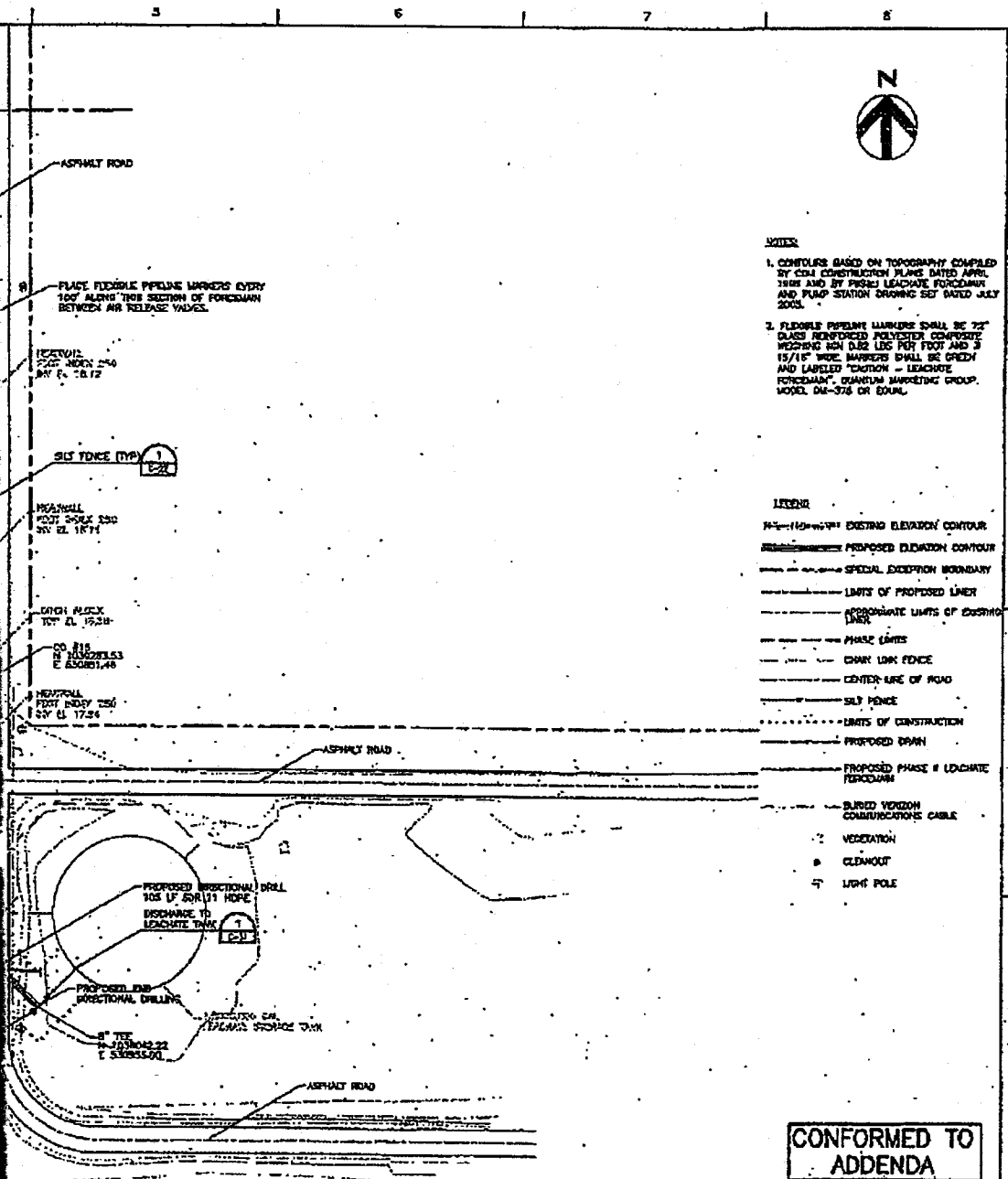
SHEET

00C-04



 <p>SARASOTA COUNTY</p>	<p>Central County Solid Waste Disposal Complex PHASE II CLASS I LANDFILL EXPANSION CONSTRUCTION DRAWINGS</p>	<p>FORCEMAIN PLAN</p>		<p>SHEET C-29</p>
		<p>0 1" 2"</p>	<p>FILENAME: DDC-29.dwg SCALE: 1"=50'</p>	

FLORIDA DEPARTMENT OF
 ENVIRONMENTAL PROTECTION
 FEB - 8 2010
 SOUTHWEST DISTRICT
 TAMPA



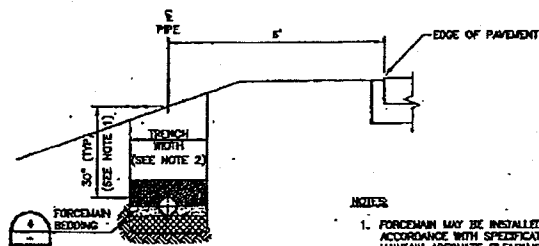
- NOTES**
1. CONTOURS BASED ON TOPOGRAPHY COMPILED BY CCA CONSTRUCTION PLANS DATED APRIL 1988 AND BY PHASE I LEACHATE FORCEMAIN AND PUMP STATION DRAWINGS SET DATED JULY 2003.
 2. FLEXIBLE PIPELINE MARKERS SHALL BE 72" CLASS REINFORCED POLYESTER COMPOSITE WEAVING 80% DUE LOG PER FOOT AND 3 15/16" WIDE. MARKERS SHALL BE GREY AND LABELED "CAUTION - LEACHATE FORCEMAIN". QUANTITY MARKETING GROUP, MODEL DM-376 OR EQUAL.

- LEGEND**
- EXISTING ELEVATION CONTOUR
 - PROPOSED ELEVATION CONTOUR
 - SPECIAL EXCEPTION BOUNDARY
 - LIMITS OF PROPOSED LINER
 - APPROXIMATE LIMITS OF EXISTING LINER
 - PHASE LIMITS
 - CHAIN LINK FENCE
 - CENTERLINE OF ROAD
 - SILT FENCE
 - LIMITS OF CONSTRUCTION
 - PROPOSED DRAIN
 - PROPOSED PHASE II LEACHATE FORCEMAIN
 - BURIED FIBER OPTIC COMMUNICATIONS CABLE
 - 2 VEGETATION
 - 4 CLEARCUT
 - 7 LIGHT POLE

**CONFORMED TO
ADDENDA**

	<p>Central County Solid Waste Disposal Complex PHASE II CLASS I LANDFILL EXPANSION CONSTRUCTION DRAWINGS</p>	<p>FORCEMAIN PLAN</p> <table border="1"> <tr> <td> </td> <td> FILENAME: 000-33.dwg SCALE: 1"=50' C-30 </td> </tr> </table>		FILENAME: 000-33.dwg SCALE: 1"=50' C-30
	FILENAME: 000-33.dwg SCALE: 1"=50' C-30			

FLORIDA DEPARTMENT OF
 ENVIRONMENTAL PROTECTION
 FEB - 8 2010
 SOUTHWEST DISTRICT
 TAMPA



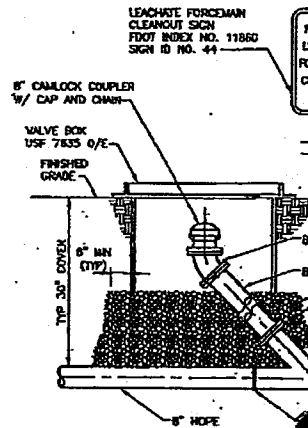
NOTES

1. FORCEMAIN MAY BE INSTALLED DEEPER IN ACCORDANCE WITH SPECIFICATIONS TO MAINTAIN ADEQUATE CLEARANCE DURING HORIZONTAL DIRECTIONAL DRILLING.
2. SEE DETAIL 4 THIS SHEET FOR MINIMUM AND MAXIMUM TRENCH WIDTHS.

FORCEMAIN LOCATION ON SHOULDER

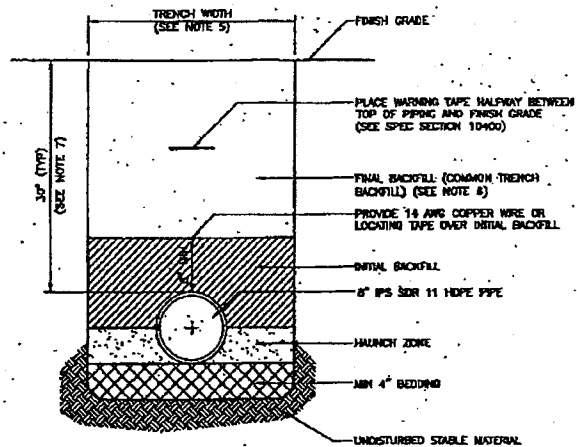
NTS

C-21



PIPE LINE CLEANOUT

NTS



NOTES

1. TRENCHING AND PIPE INSTALLATION SHALL BE PERFORMED IN ACCORDANCE WITH SPECIFICATIONS TO MAINTAIN ADEQUATE CLEARANCE DURING HORIZONTAL DIRECTIONAL DRILLING.
2. REDDING, HAUNCHING AND INITIAL BACKFILL MATERIAL SHALL BE CLASS II AS PER ASTM D2487, "STANDARD METHOD FOR ENGINEERING PURPOSES." THIS MATERIAL SHALL BE COMPACTED TO 95% RELATIVE DENSITY, PER ASTM T-99. SEE SPECIFICATIONS.
3. WATER SHALL NOT BE PERMITTED IN THE TRENCH OR TO ONE FOOT BELOW TRENCH BOTTOM, SEE SPECIFICATIONS.
4. INITIAL BACKFILL SHOULD BE PLACED IN 6" LAYERS ABOVE THE TOP OF THE PIPE.
5. MINIMUM TRENCH WIDTH = PIPE OD + 16". MAXIMUM TRENCH WIDTH = 18".
6. FINAL BACKFILL SHALL BE CLASS I, CLASS II OR CLASS III AS PER ASTM D2487, "STANDARD METHOD FOR ENGINEERING PURPOSES." THIS MATERIAL SHALL BE COMPACTED TO 95% RELATIVE DENSITY, PER ASTM T-99. SEE SPECIFICATIONS.
7. FORCEMAIN MAY BE INSTALLED DEEPER IN ACCORDANCE WITH SPECIFICATIONS TO MAINTAIN ADEQUATE CLEARANCE DURING HORIZONTAL DIRECTIONAL DRILLING.

FORCEMAIN BEDDING

NTS

C-21

HDR

HDR Engineering, Inc.
3000 Bay Center Drive, Suite 200
Tampa, FL 33609-0000
(813) 281-1000
Mobile: (813) 281-1000
Fax: (813) 281-1000

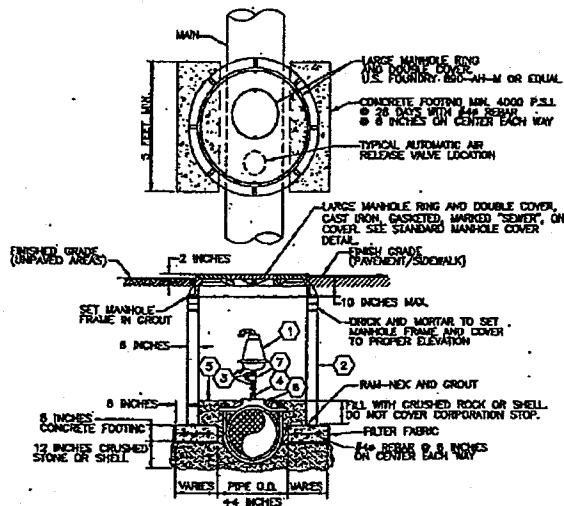
ISSUE	DATE	DESCRIPTION
A	02/2009	ISSUED FOR CONSTRUCTION, CONFORMED TO ADDENDA

PROJECT MANAGER	T.M. YANOSCHAK
REVIEWED BY	J.C. READING
DRAWN BY	C.J. BLUE
PROJECT NUMBER	001918-03485-018

PHASE II
LANDFILL
EXPANSION
CONSTRUCTION
DRAWING

45° PVC ELBOW
PVC
GRAVEL
WELDED FLANGED FITTING
8" x 8" x 8" WYE
FLOW
BUTT FUSED FITTING

* ALL PVC PIPE AND FITTINGS SHALL BE PRESSURE RATED CLASS 150 (OR 18) CONFORMING TO ASTM D300. PIPE AND FITTINGS SHALL BE MADE FROM CLASS 13454-9 (ASTM D1784). THE FITTINGS SHALL MEET THE REQUIREMENTS OF STANDARD UN-8-12 (UN-BELL PVC PIPE ASSOCIATION).



**AUTOMATIC AIR
RELEASE VALVE**

NTS

KEY NOTES:

1. AUTOMATIC AIR RELEASE VALVE WITH ACCESSORIES. SEE SPECIFICATIONS.
2. PRECAST CONCRETE MANHOLE SECTION, 4 FEET DIA. UP TO 30 INCH DIA. MANHOLE.
3. 2 INCH "EXTRA HEAVY" BRASS PIPE PER ASTM B 43-LATEST BRASS FITTINGS SHALL BE "EXTRA HEAVY".
4. 2 INCH BRASS CORPORATION STOP BALL TYPE.
5. CRUSHED ROCK OR SHELL.
6. BRASS DOUBLE STRAP SERVICE SADDLE.
7. 2 INCH BRASS BALL VALVE WITH HAND LEVER.

NOTES:

1. FOR FORCEMAIN USE AUTOMATIC VACUUM AIR RELEASE VALVE WITH BACKWASH ACCESSORIES.
2. CONTRACTOR SHALL INSTALL AUTOMATIC AIR RELEASE VALVES (AARVS) AT ALL HIGH POINTS ON FORCEMAIN. CONTRACTOR SHALL COORDINATE PROPOSED LOCATIONS OF AARVS WITH ENGINEER PRIOR TO CONSTRUCTION.

**CONFORMED TO
ADDENDA**



**Central County Solid Waste
Disposal Complex
PHASE II CLASS I LANDFILL
EXPANSION
CONSTRUCTION DRAWINGS**

SARASOTA COUNTY

FLORIDA

FORCEMAIN DETAILS



FILENAME: 000-32.dwg
SCALE: AS SHOWN

SHEET
C-32

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
FEB - 8 2010
SOUTHWEST DISTRICT
TAMPA

DEWATERING PLAN

LANDFILL GAS COLLECTION – PHASE I

SARASOTA COUNTY CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX

12209031.00

GENERAL

Construction of the landfill gas collection project at the Sarasota County Central County Solid Waste Disposal Complex includes the construction of four gas collection condensate sumps that will require temporary dewatering during construction. All four sumps are located within the limits of County-owned property at the Solid Waste Disposal Complex. If it becomes necessary to dewater the pipeline trench during construction outside the limits of Phase I, the dewatering will be pumped to the nearest cleanout, CO 13, 14, or 15.

DEWATERING METHOD

A two-inch or three-inch diameter discharge trash pump will be used to dewater each sump. The pump discharge will be approximately 150 to 200 gallons per minute. One sump will be dewatered at a time and it is anticipated that each sump will require dewatering for approximately two days.

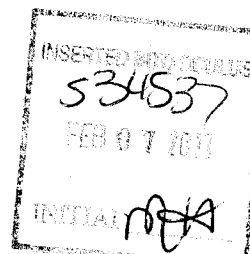
DEWATERING DISCHARGE

Sump 2 is located within the limits of buried waste. This sump is shown on Sheet 00C 03 attached. Liquid pumped during construction dewatering from this sump will be pumped to a nearby leachate cleanout riser pipe, LCO-3S, shown on Sheet 00C-03 which will allow the liquid to drain back into the landfill leachate collection system. Three sumps, Sumps 3, 4, and 5, are located outside the limits of buried waste. These sumps are shown on Sheet 00C 04. Liquid pumped during construction dewatering from these three sumps will be pumped to the existing leachate storage tank through existing leachate force main cleanouts. Dewatering from Sump 3 would be pumped to cleanout CO 13, dewatering from Sump 4 would be pumped to cleanout CO 14, and dewatering from Sump 5 would be pumped to cleanout CO 15. Cleanouts CO-13 and CO-14 are shown on Sheet C-29. Cleanouts CO-15 is shown on Sheet C-30. A detail of the cleanouts is provided on Sheet C-32. As shown on the detail, the cleanouts are furnished with a Camlock coupler to facilitate discharge into the existing forcemain.

Sarasota County will shut down the leachate pumping system during construction to facilitate the use of the forcemain for dewatering. SCS will coordinate with the County to make sure that the leachate collection pumps are manually turned off during disposal into the leachate forcemain.

Liquid from dewatering will not be discharged to groundwater or surface water, and it will not be discharged onto the ground surface.

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
FEB - 8 2010
SOUTHWEST DISTRICT
TAMPA

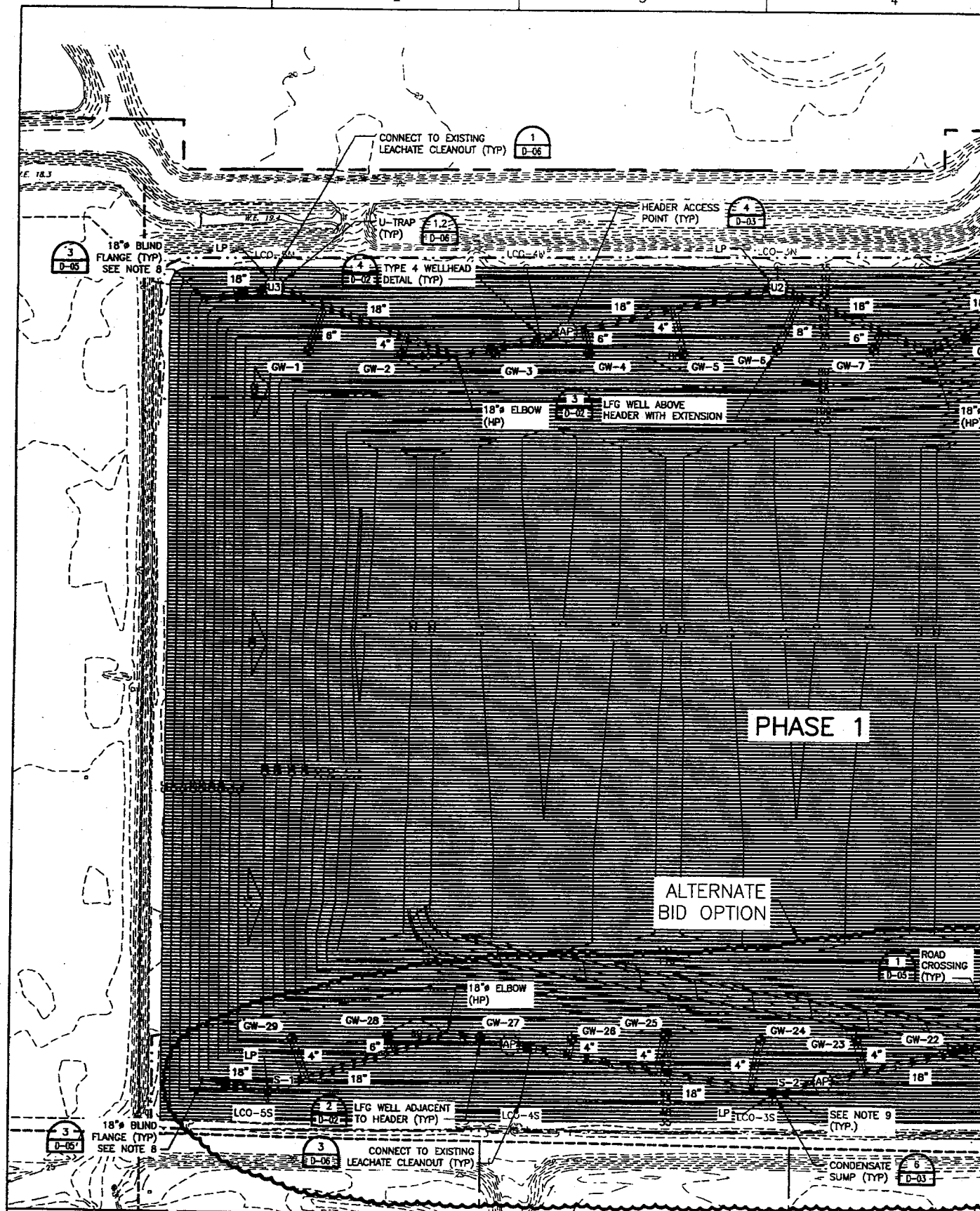


CONTINGENCY OPERATION

If the primary dewatering pump should fail, a backup pump may be used to dewater the sump. If a backup pump is not readily available or if the leachate storage tank is full, dewatering may be temporarily halted. Stopping dewatering will not result in discharge to ground or surface water.

DRAWINGS

Attached are Sheets 00C-03, 00C-04, C-29, C-30, and C32.



HDR

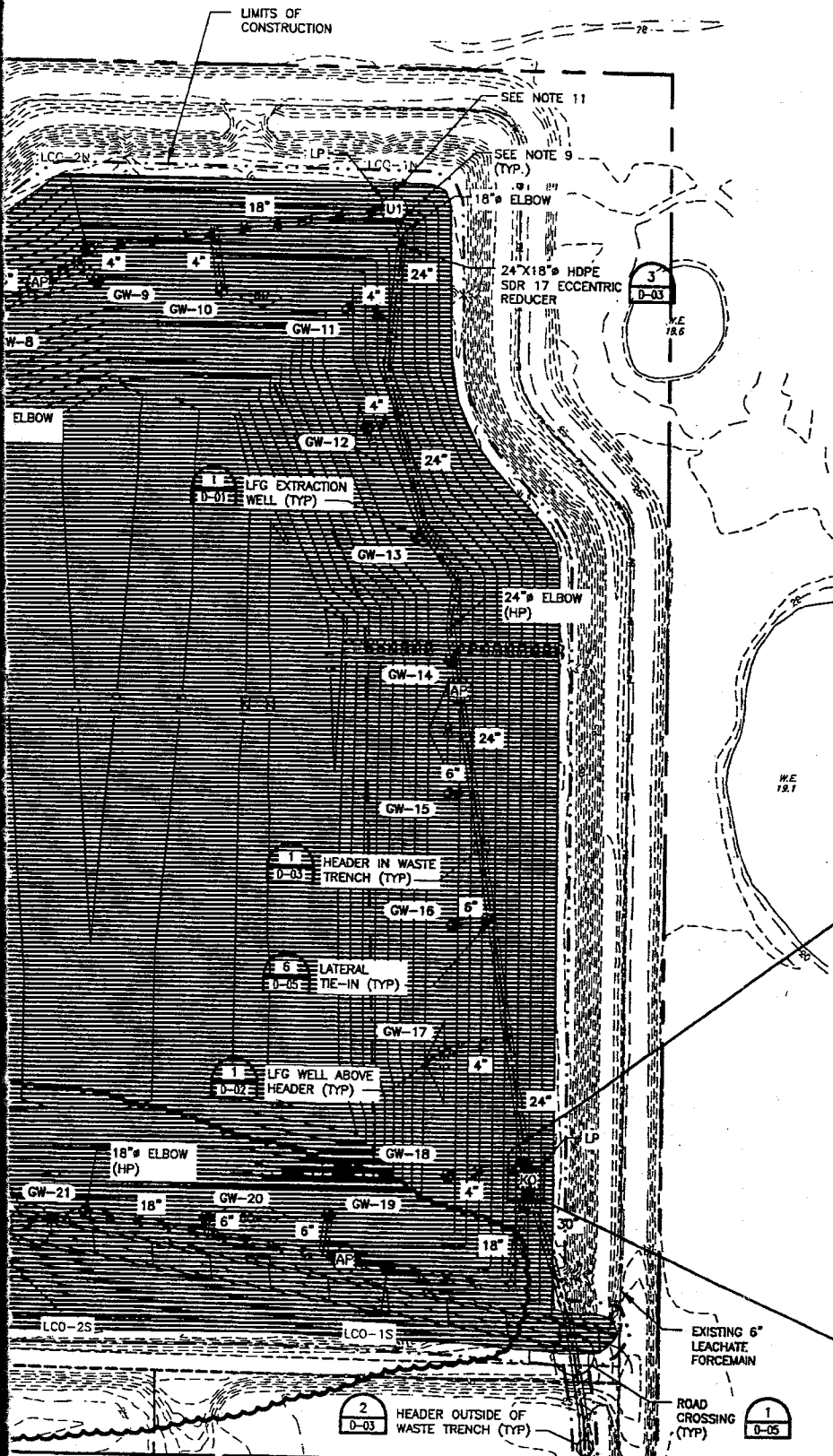
HDR Engineering, Inc.

ISSUE	DATE	DESCRIPTION
2	12/09	ISSUED FOR CONSTRUCTION
1	08/09	ISSUED FOR BID
0	05/09	ISSUED FOR CLIENT REVIEW

PROJECT MANAGER	C. KOENIG, P.E.
DESIGNED BY	A. BARKER, E.I.
DRAWN BY	D. SOSA
CHECKED BY	C. LEBRON, P.E.
PROJECT NUMBER	101628

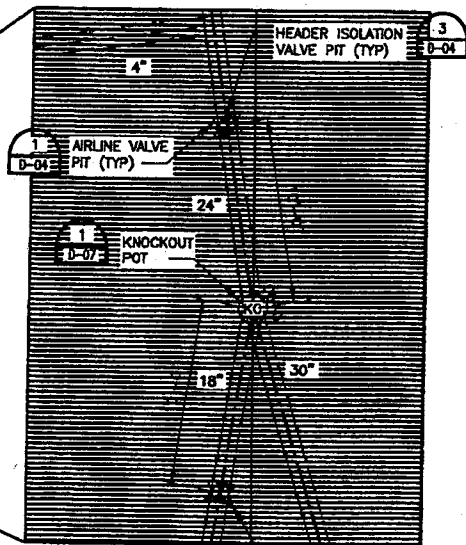
Dept. Of Environmental Protection
8

FEB 08 2010
Southwest District



NOTES:

1. TOPOGRAPHY WITHIN PHASES I THROUGH IV WAS COMPILED BY KUCERA INTERNATIONAL INC. OF WILLOUGHBY, OHIO USING PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHS DATED APRIL 12, 2008.
2. PROPOSED PHASE I FINAL GRADES DESIGNED BY HDR ENGINEERING, INC. TAMPA, FLORIDA.
3. CONTRACTOR TO PROVIDE A PRE-CONSTRUCTION SURVEY, PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES, TO VERIFY EXISTING CONDITIONS.
4. LOCATION AND DENSITY OF LFG EXTRACTION SYSTEM ARE APPROXIMATE AND SUBJECT TO CHANGE BASED ON EXISTING CONDITIONS.
5. THE LANDFILL GAS COLLECTION SYSTEM SHALL BE CONSTRUCTED IN 2 SEQUENCES. SEQUENCE 1 SHALL BE CONSTRUCTED UPON DEP APPROVAL OF PERMIT APPLICATION. SEQUENCE 2 IS NOT PART OF THIS CONSTRUCTION.
6. APPROXIMATE LOCATION OF PHASE I LEACHATE FORCEMAIN OBTAINED FROM RECORD DRAWINGS BY CAMP DRESSER & McKEE, INC. DATED APRIL 1998. VERIFY LOCATION IN FIELD.
7. HEADER PIPE SHALL BE HDPE SDR 17 AND LATERAL PIPES SHALL BE HDPE SDR 11.
8. BLIND FLANGE AT BOTH ENDS OF HEADER SHALL BE LOCATED 20 FEET OUTSIDE OF PHASE 2 CONSTRUCTION GRADING PLAN. ACTUAL LOCATION TO BE DETERMINED AFTER PRE-CONSTRUCTION SURVEY. SEE DETAIL 3/D-05.
9. ALL LEACHATE CLEANOUT CONNECTIONS SHALL HAVE A REMOTE WELLHEAD, NOT SHOWN FOR CLARITY.
10. AIR AND FORCEMAIN SHOWN OFFSET FOR CLARITY.
11. CONDENSATE FORCEMAIN SHALL CONNECT TO LCO-1N AS SHOWN IN DETAIL 1/D-06.
12. IF THE BASE BID AND ALTERNATE BID ARE AWARDED, THE CONTRACTOR SHALL CONNECT THE 18\"/>



SCALE: 1\"/>

FORCE MAIN VALVE PIT (D-04)

Central County Solid Waste

Disposal Complex

Phase 1 - Sequence 1

Landfill Gas Collection and Control System

ISSUED FOR CONSTRUCTION

SARASOTA COUNTY

FLORIDA

PHASE 1 GAS SYSTEM PIPING LAYOUT

0 1\"/>

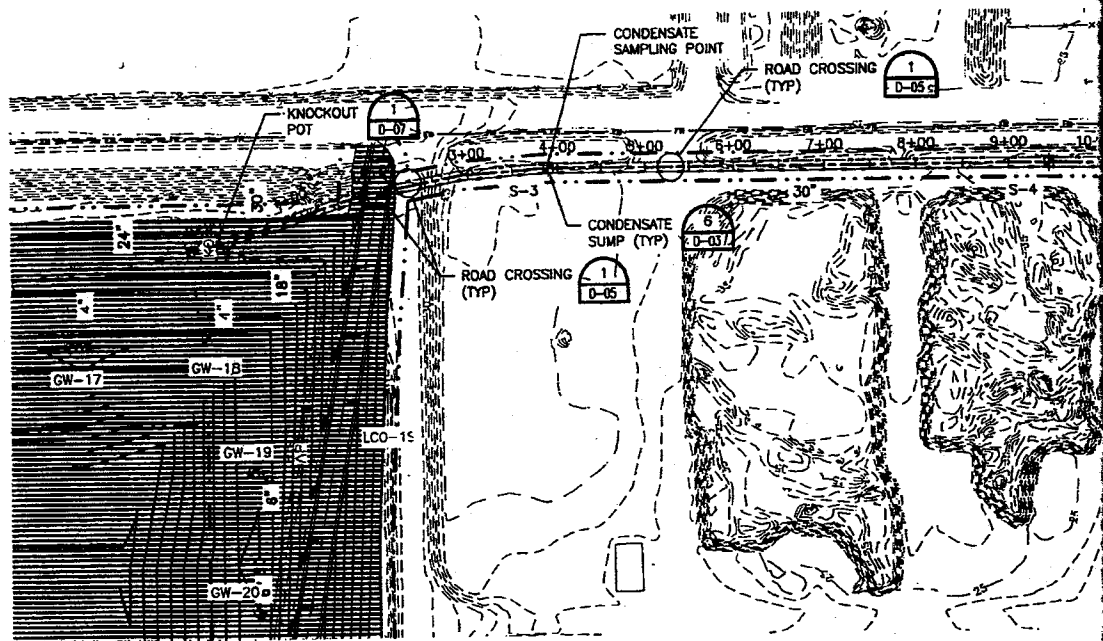
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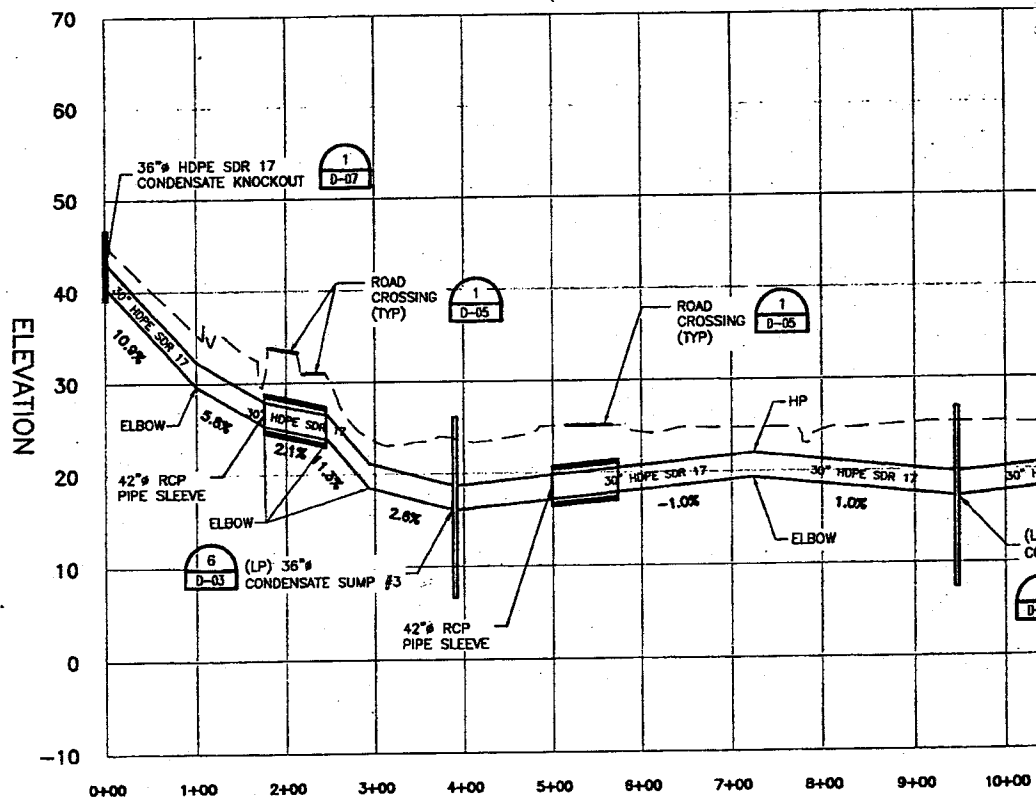
SHEET

00C-03

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
FEB - 8 2010
SOUTHWEST DISTRICT
TAMPA



PLAN VIEW
SCALE: 1"=100'

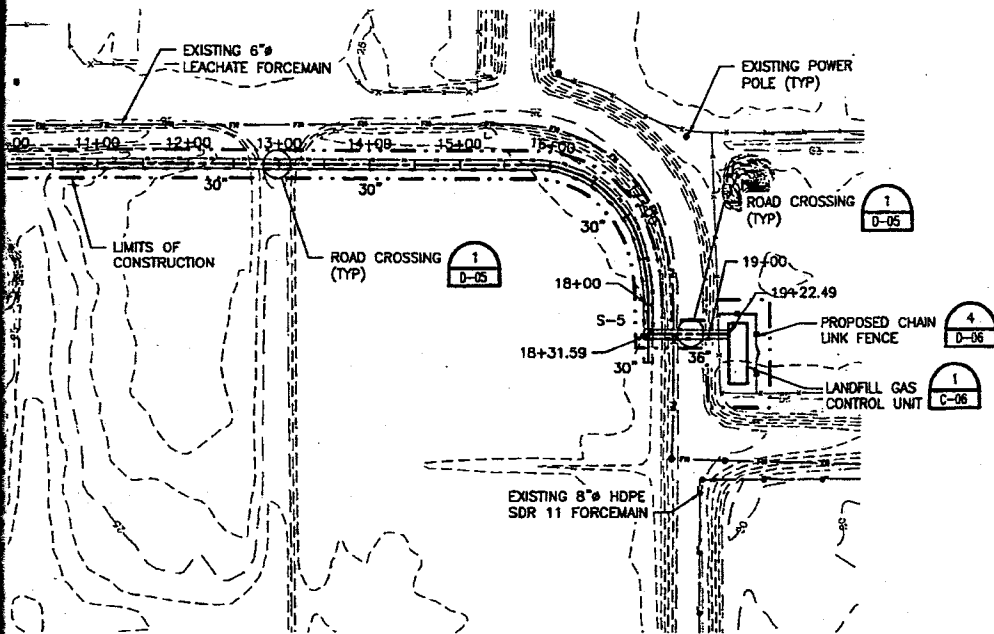


PROFILE VIEW
SCALE: 1"=10'V 1"=100'H



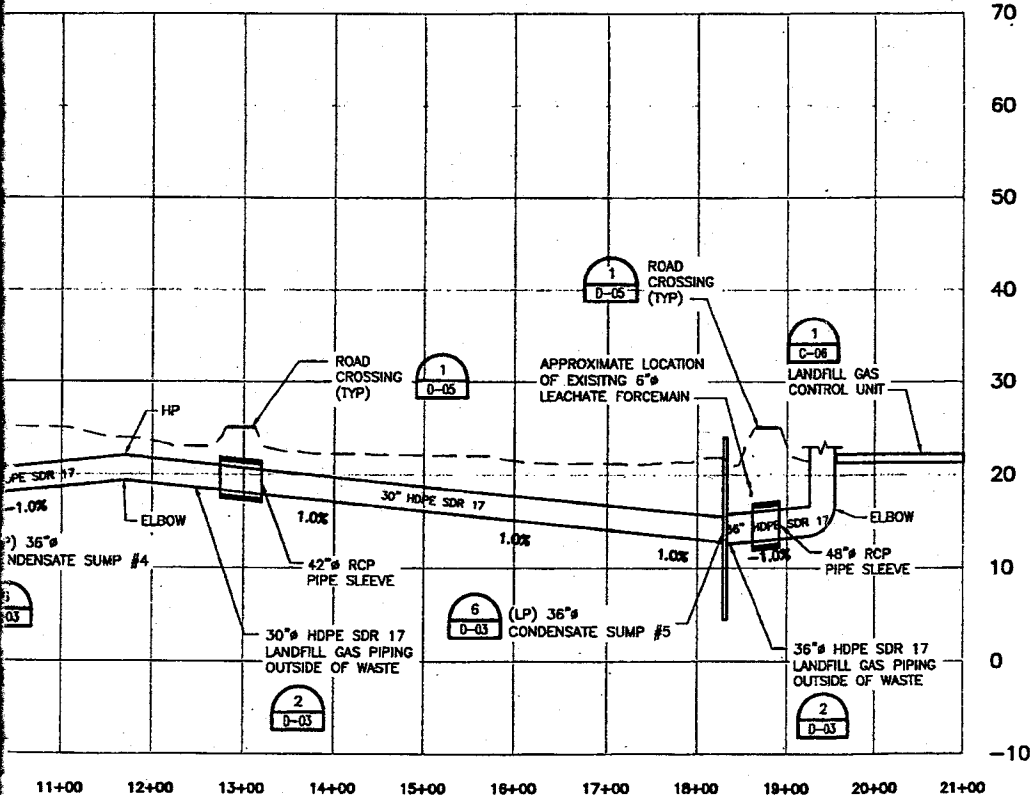
ISSUE	DATE	DESCRIPTION
2	12/09	ISSUED FOR CONSTRUCTION
1	08/09	ISSUED FOR BID
0	05/09	ISSUED FOR CLIENT REVIEW

PROJECT MANAGER	C. KOENIG, P.E.
DESIGNED BY	A. BARKER, E.I.
DRAWN BY	D. SOSA
CHECKED BY	C. LEBRON, P.E.
PROJECT NUMBER	101628



NOTES:

1. TOPOGRAPHY WITHIN PHASES I THROUGH IV WAS COMPILED BY KUCERA INTERNATIONAL INC. OF WILLOUGHBY, OHIO USING PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHS DATED APRIL 12, 2008.
2. TRENCH DEPTHS ARE CURRENTLY DESIGNED TO BE NO SHALLOWER THAN 4 FEET AND NO DEEPER THAN 8 FEET FOR ALL PIPING. SEE SUMP DETAIL FOR TOTAL SUMP DEPTH.
3. ONLY PROFILE OF HEADERLINE IS SHOWN FOR CLARITY. HOWEVER, AN AIRLINE AND A CONDENSATE FORCEMAIN SHALL BE INSTALLED IN THE SAME TRENCH.
4. GAS LINE MARKERS SHALL BE INSTALLED EVERY 300 FEET NOTING LOCATION OF HEADERLINE.
5. APPROXIMATE LOCATION OF PHASE I LEACHATE FORCEMAIN OBTAINED FROM RECORD DRAWINGS BY CAMP DRESSER & MCKEE, INC. DATED APRIL 1998. VERIFY LOCATION IN FIELD.
6. CONTRACTOR RESPONSIBLE FOR CONNECTING HEADER PIPE TO LANDFILL GAS CONTROL UNIT. CONTRACTOR RESPONSIBLE FOR CONDENSATE DRAINAGE, ELECTRICAL CONNECTIONS AND PAD CONSTRUCTION.



FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
FEB - 8 2010
SOUTHWEST DISTRICT
TAMPA

Central County Solid Waste

Disposal Complex

Phase 1 - Sequence 1

Landfill Gas Collection and Control System

ISSUED FOR CONSTRUCTION

SARASOTA COUNTY

FLORIDA

HEADER TO FLARE STATION

PLAN & PROFILE

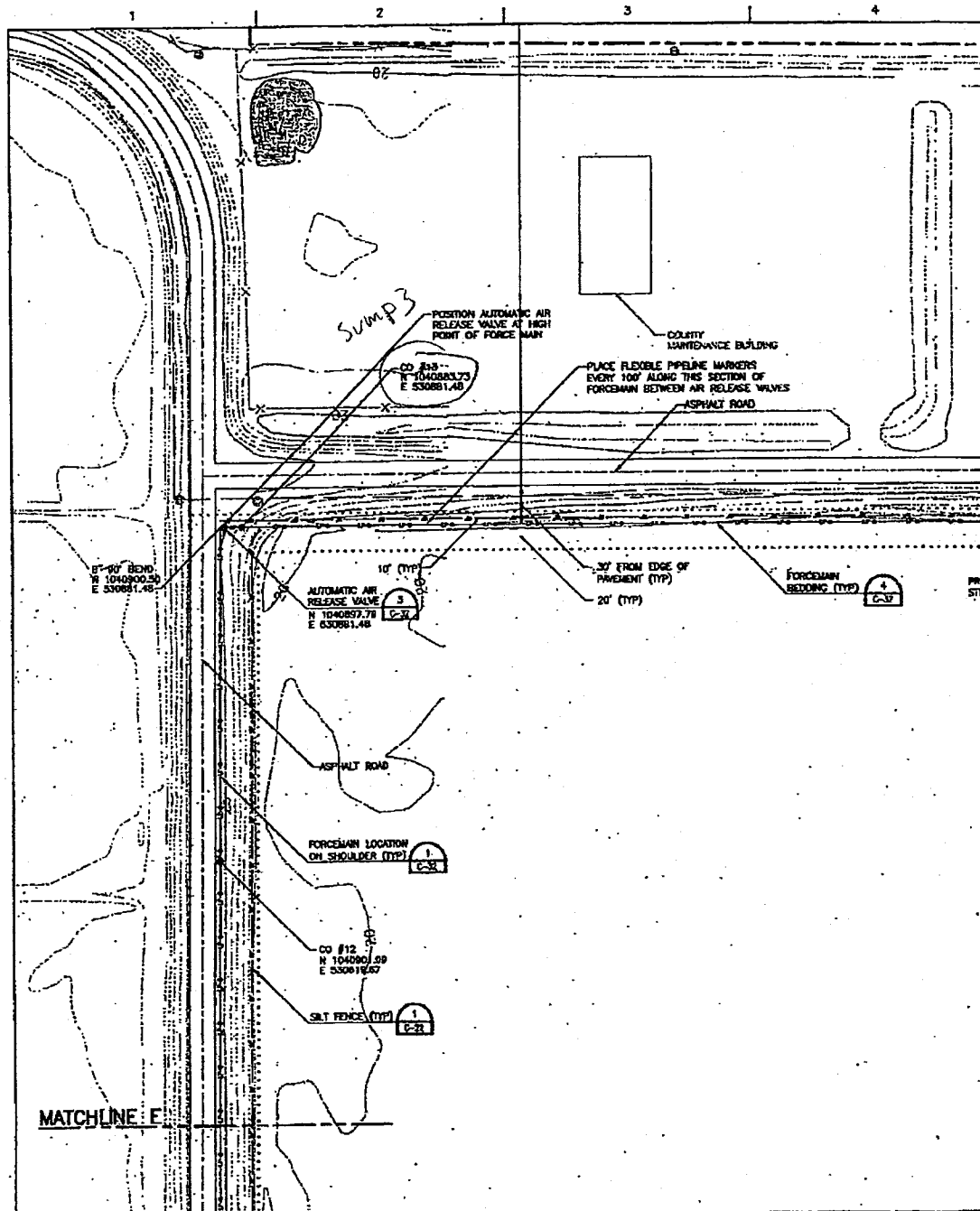
0 1" 2"
AT FULL SIZE BAR LENGTH EQUALS TWO
INCHES. ADJUST SCALE ACCORDINGLY.

FILENAME: 00C-04.dwg

SCALE: AS NOTED

SHEET

00C-04



HDR

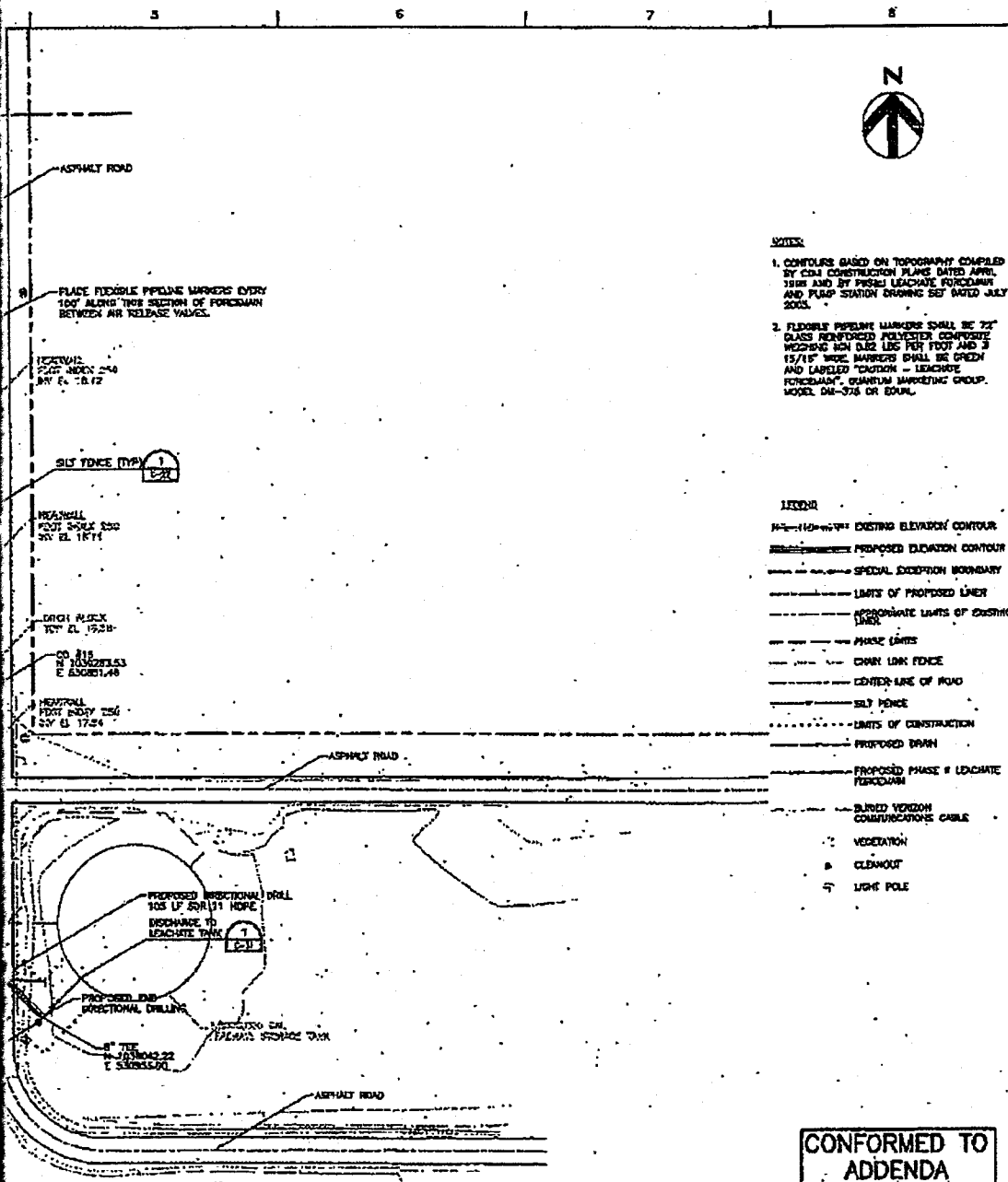
1000 Stephenson Ave.
Suite 100
Baltimore, MD 21206-4444
(410) 528-2000
Project: Construction of Authority
No. 0000000

A	02/2006	ISSUED FOR CONSTRUCTION, CONFORMED TO ADDENDUM	PROJECT MANAGER	T.M. YANOSCHAK
			REVIEWED BY	J.C. READING
ISSUE	DATE	DESCRIPTION	DRAWN BY	G.J. BLUE
			PROJECT NUMBER	001016-43485-018

Dept. Of Environmental Protection

FEB 08 2010

Southwest District








- NOTES**
1. CONTOURS BASED ON TOPOGRAPHY COMPILED BY CDA CONSTRUCTION PLANS DATED APRIL 1998 AND BY PIRREL LEACHATE FORECMAIN AND PUMP STATION DRAWING SET DATED JULY 2005.
 2. FLEXIBLE PIPELINE MARKERS SHALL BE 7" DIAMETER REINFORCED POLYESTER COMPOSITE WEIGHTING NON DUE LBS PER FOOT AND 3 15/16" WIDE. MARKERS SHALL BE GREEN AND LABELED "CAUTION - LEACHATE FORECMAIN". QUANTUM MARKETING GROUP, MODEL DM-376 OR EQUAL.

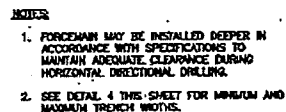
LEGEND

- 10'-10" EXISTING ELEVATION CONTOUR
- PROPOSED ELEVATION CONTOUR
- SPECIAL EXCEPTION BOUNDARY
- LIMITS OF PROPOSED LINES
- APPROXIMATE LIMITS OF EXISTING LINES
- PHASE LIMITS
- CHAIN LINK FENCE
- CENTER LINE OF ROAD
- SILT FENCE
- LIMITS OF CONSTRUCTION
- PROPOSED DRAIN
- PROPOSED PHASE II LEACHATE FORECMAIN
- BURIED VERSION COMMUNICATIONS CABLE
- VEGETATION
- CLEANSOUT
- LIGHT POLE

CONFORMED TO
ADDENDA

 <p>STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION SOUTHWEST DISTRICT TAMPA</p>	 <p>Central County Solid Waste Disposal Complex PHASE II CLASS I LANDFILL EXPANSION CONSTRUCTION DRAWINGS</p> <p>SARASOTA COUNTY FLORIDA</p>	<p align="center">FORCEMAIN PLAN</p> <table border="1"> <tr> <td>  </td> <td> <p>FILENAME: 000-30.dwg SCALE: 1"=50'</p> </td> <td> <p>SHEET: C-30</p> </td> </tr> </table>		<p>FILENAME: 000-30.dwg SCALE: 1"=50'</p>	<p>SHEET: C-30</p>
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FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
FEB - 8 2010
SOUTHWEST DISTRICT
TAMPA

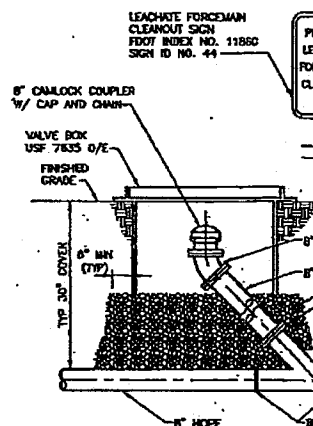


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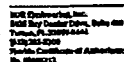


1. TRENCHING AND PIPE INSTALLATION SHALL BE PERFORMED AS PER ASTM D2321. MAXIMUM PARTICLE SIZE = 1/2".
2. REDUCING, HAUNCHING AND INITIAL BACKFILL MATERIAL SHALL BE AS PER ASTM D2487, "STANDARD METHOD FOR ENGINEERING PURPOSES." THIS MATERIAL SHALL MEET DENSITY PER ASTM 1-99. SEE SPECIFICATIONS.
3. WATER SHALL NOT BE PERMITTED IN THE TRENCH OR TO ONE FOOT BELOW TRENCH BOTTOM. SEE SPECIFICATIONS.
4. INITIAL BACKFILL SHOULD BE PLACED IN 6" LAYERS ABOVE THE TOP OF THE PIPE.
5. MINIMUM TRENCH WIDTH = PIPE OD + 16". MAXIMUM TRENCH + 18".
6. FINAL BACKFILL SHALL BE CLASS 1 CLASS II OR CLASS III. THIS MATERIAL SHALL BE COMPACTED TO MEET SPECIFICATIONS.
7. FOREDRAINING MAY BE INSTALLED DEEPER IN ACCORDANCE WITH THE ADJUSTED ELEVANCE DURING HORIZONTAL DRAINING CURSING OF DRAINING PIPELINES.

151



NOTE

[illegible]

PROJECT MANAGER	T.M. YANOSCHAK
REVIEWED BY	J.C. READING
DRAWN BY	C.J. BLUE

PROJECT NUMBER	031915-4385-01
----------------	----------------

5

6

7

8

USE #
NOTE
MAN
NDUT

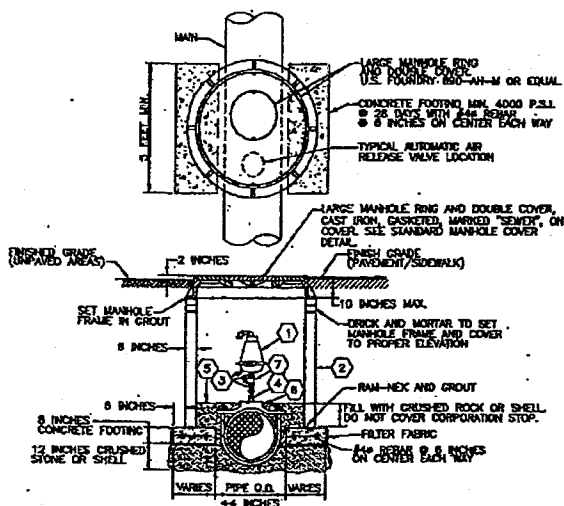
5' PVC ELBOW

WELDED FLANGED FITTING

8"x6"x8" WYE

FLANGED FITTING

* ALL PVC PIPE AND FITTINGS SHALL BE PRESSURE RATED CLASS 150 (OR 18) CONFORMING TO AWWA C900. PIPE AND FITTINGS SHALL BE MADE FROM CLASS 12454-9 (ASTM D784). THE FITTINGS SHALL MEET THE REQUIREMENTS OF STANDARD UN-8-12 (UN-BELL PVC PIPE ASSOCIATION).



AUTOMATIC AIR RELEASE VALVE

NTS

3
C-38

KEY NOTES

1. AUTOMATIC AIR RELEASE VALVE WITH ACCESSORIES. SEE SPECIFICATIONS.
2. PRECAST CONCRETE MANHOLE SECTION, 4 FEET DIA. UP TO 30 INCH DIA. MANHOLE.
3. 2 INCH "EXTRA HEAVY" BRASS PIPE PER ASTM B 43-LATEST BRASS FITTINGS SHALL BE "EXTRA HEAVY".
4. 2 INCH BRASS CORPORATION STOP BALL TYPE.
5. CRUSHED ROCK OR SHELL.
6. BRASS DOUBLE STRAP SERVICE SADDLE.
7. 2 INCH BRASS BALL VALVE WITH HAND LEVER.

NOTES

1. FOR FORCEMAIN USE AUTOMATIC VACUUM AIR RELEASE VALVE WITH BACKWASH ACCESSORIES.
2. CONTRACTOR SHALL INSTALL AUTOMATIC AIR RELEASE VALVES (ARV'S) AT ALL HIGH POINTS ON FORCEMAIN. CONTRACTOR SHALL COORDINATE PROPOSED LOCATIONS OF ARV'S WITH ENGINEER PRIOR TO CONSTRUCTION.

CONFORMED TO
ADDENDA



**Central County Solid Waste
Disposal Complex
PHASE II CLASS I LANDFILL
EXPANSION
CONSTRUCTION DRAWINGS**

SARASOTA COUNTY

FLORIDA

FORCEMAIN DETAILS

0 1" 2"	FILENAME	00C-32.dwg	SHEET
	SCALE	AS SHOWN	C-32

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
FEB - 8 2010
SOUTHWEST DISTRICT
TAMPA

DEWATERING PLAN

LANDFILL GAS COLLECTION – PHASE I

SARASOTA COUNTY CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX

12209031.00

GENERAL

Construction of the landfill gas collection project at the Sarasota County Central County Solid Waste Disposal Complex includes the construction of four gas collection condensate sumps that will require temporary dewatering during construction. All four sumps are located within the limits of County-owned property at the Solid Waste Disposal Complex. If it becomes necessary to dewater the pipeline trench during construction outside the limits of Phase I, the dewatering will be pumped to the nearest cleanout, CO 13, 14, or 15.

DEWATERING METHOD

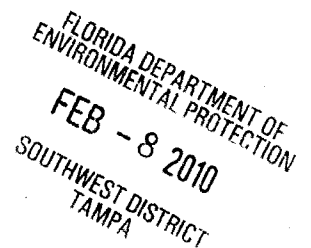
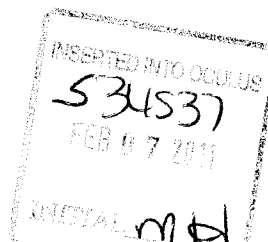
A two-inch or three-inch diameter discharge trash pump will be used to dewater each sump. The pump discharge will be approximately 150 to 200 gallons per minute. One sump will be dewatered at a time and it is anticipated that each sump will require dewatering for approximately two days.

DEWATERING DISCHARGE

Sump 2 is located within the limits of buried waste. This sump is shown on Sheet 00C 03 attached. Liquid pumped during construction dewatering from this sump will be pumped to a nearby leachate cleanout riser pipe, LCO-3S, shown on Sheet 00C-03 which will allow the liquid to drain back into the landfill leachate collection system. Three sumps, Sumps 3, 4, and 5, are located outside the limits of buried waste. These sumps are shown on Sheet 00C 04. Liquid pumped during construction dewatering from these three sumps will be pumped to the existing leachate storage tank through existing leachate force main cleanouts. Dewatering from Sump 3 would be pumped to cleanout CO 13, dewatering from Sump 4 would be pumped to cleanout CO 14, and dewatering from Sump 5 would be pumped to cleanout CO 15. Cleanouts CO-13 and CO-14 are shown on Sheet C-29. Cleanouts CO-15 is shown on Sheet C-30. A detail of the cleanouts is provided on Sheet C-32. As shown on the detail, the cleanouts are furnished with a Camlock coupler to facilitate discharge into the existing forcemain.

Sarasota County will shut down the leachate pumping system during construction to facilitate the use of the forcemain for dewatering. SCS will coordinate with the County to make sure that the leachate collection pumps are manually turned off during disposal into the leachate forcemain.

Liquid from dewatering will not be discharged to groundwater or surface water, and it will not be discharged onto the ground surface.

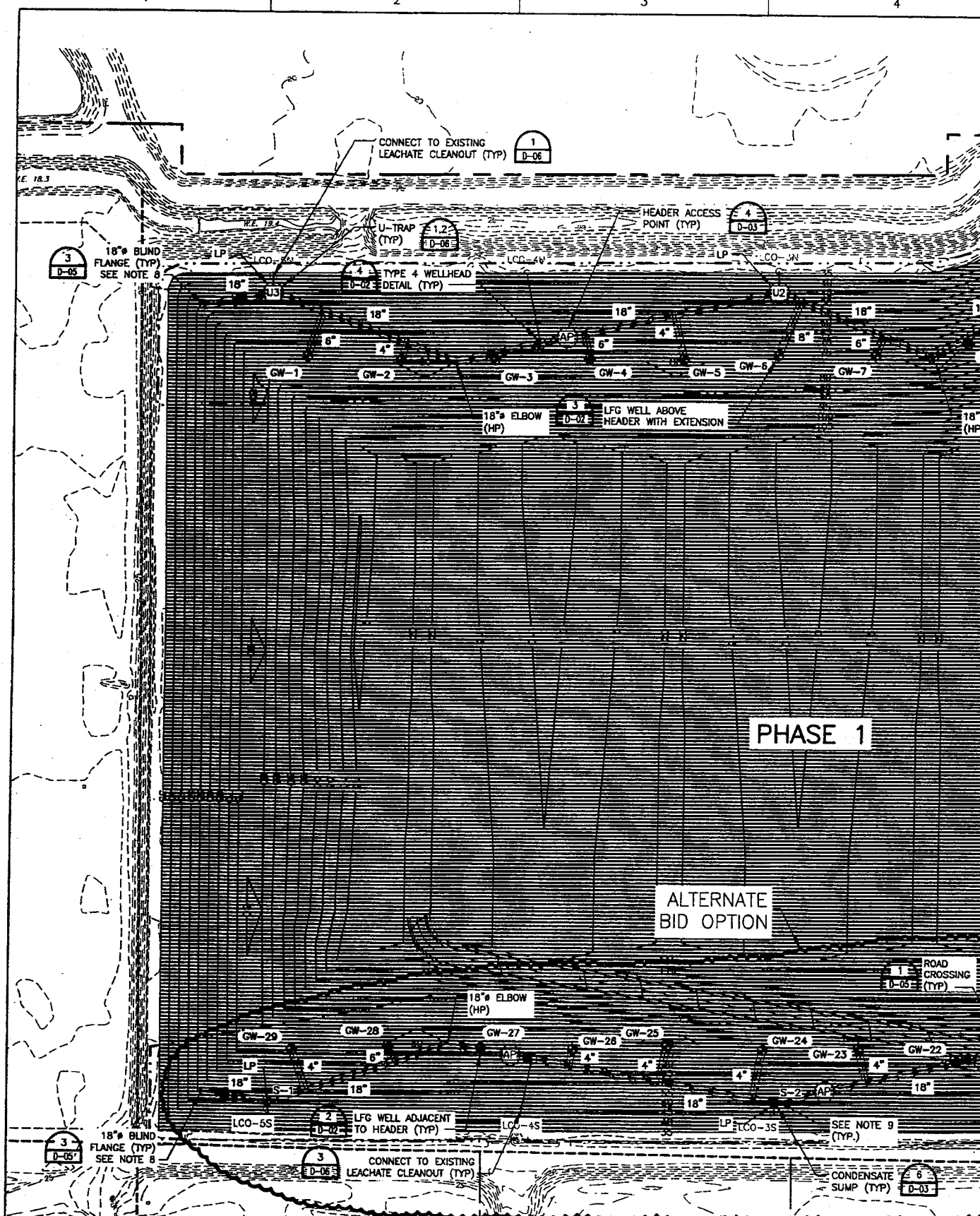


CONTINGENCY OPERATION

If the primary dewatering pump should fail, a backup pump may be used to dewater the sump. If a backup pump is not readily available or if the leachate storage tank is full, dewatering may be temporarily halted. Stopping dewatering will not result in discharge to ground or surface water.

DRAWINGS

Attached are Sheets 00C-03, 00C-04, C-29, C-30, and C32.



HDR

HDR Engineering, Inc.

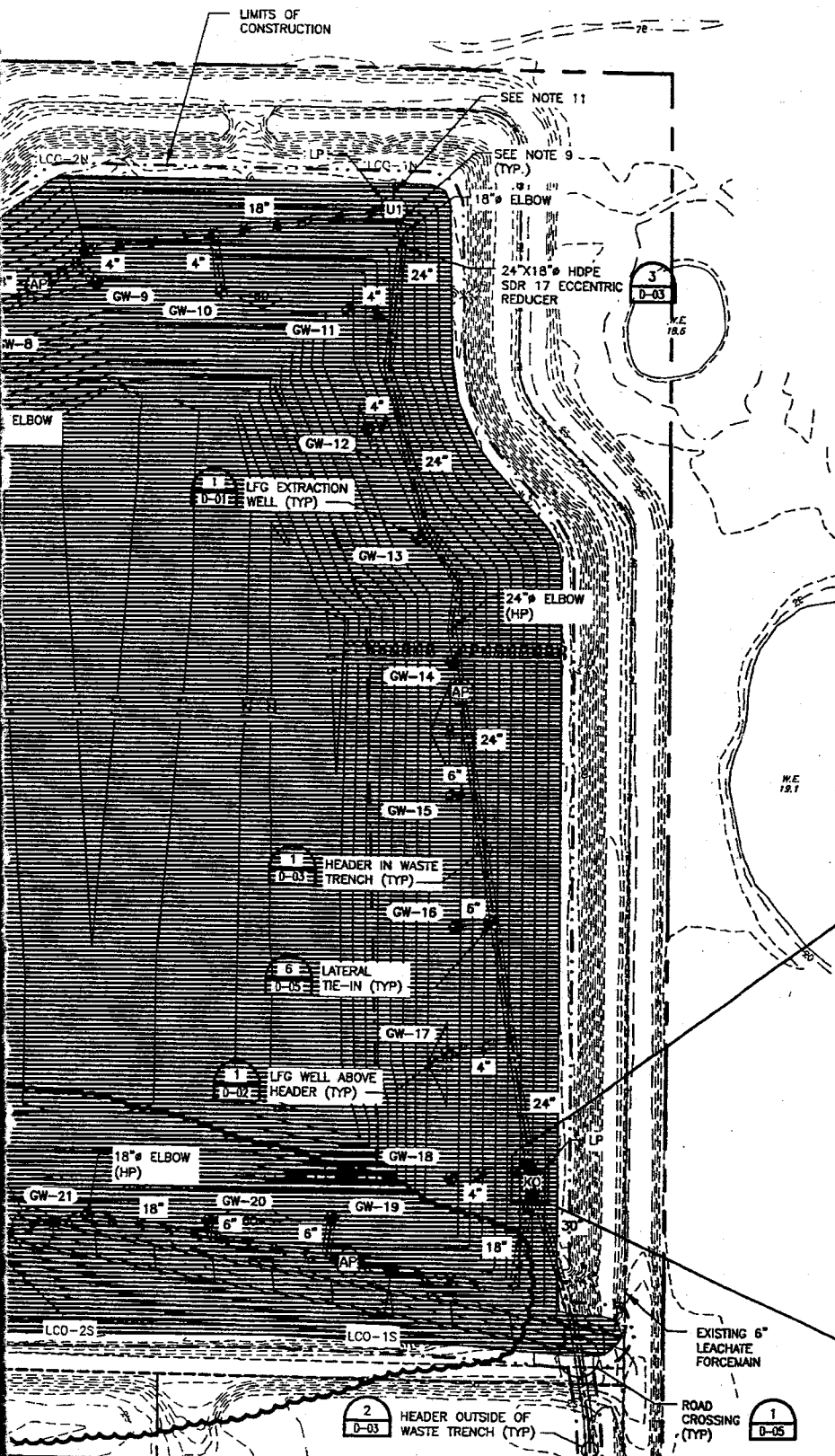
ISSUE	DATE	DESCRIPTION
2	12/09	ISSUED FOR CONSTRUCTION
1	08/09	ISSUED FOR BID
0	05/09	ISSUED FOR CLIENT REVIEW

PROJECT MANAGER	C. KOENIG, P.E.
DESIGNED BY	A. BARKER, E.I.
DRAWN BY	D. SOSA
CHECKED BY	C. LEBRON, P.E.
PROJECT NUMBER	101628



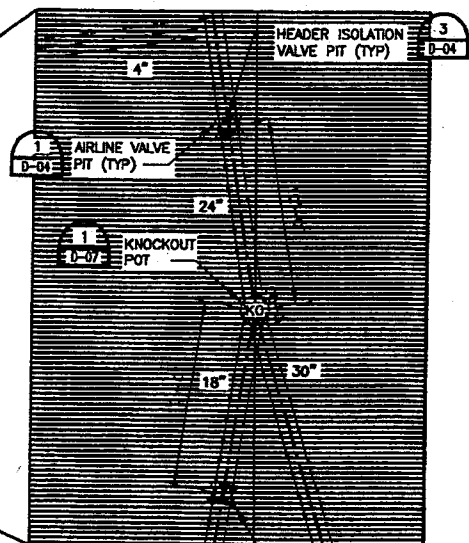
FEB 08 2010

Southwest District



NOTES:

1. TOPOGRAPHY WITHIN PHASES I THROUGH IV WAS COMPILED BY KUCERA INTERNATIONAL INC. OF WILLOUGHBY, OHIO USING PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHS DATED APRIL 12, 2008.
2. PROPOSED PHASE I FINAL GRADES DESIGNED BY HDR ENGINEERING, INC. TAMPA, FLORIDA.
3. CONTRACTOR TO PROVIDE A PRE-CONSTRUCTION SURVEY, PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES, TO VERIFY EXISTING CONDITIONS.
4. LOCATION AND DENSITY OF LFG EXTRACTION SYSTEM ARE APPROXIMATE AND SUBJECT TO CHANGE BASED ON EXISTING CONDITIONS.
5. THE LANDFILL GAS COLLECTION SYSTEM SHALL BE CONSTRUCTED IN 2 SEQUENCES. SEQUENCE 1 SHALL BE CONSTRUCTED UPON DEP APPROVAL OF PERMIT APPLICATION. SEQUENCE 2 IS NOT PART OF THIS CONSTRUCTION.
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7. HEADER PIPE SHALL BE HDPE SDR 17 AND LATERAL PIPES SHALL BE HDPE SDR 11.
8. BLIND FLANGE AT BOTH ENDS OF HEADER SHALL BE LOCATED 20 FEET OUTSIDE OF PHASE 2 CONSTRUCTION GRADING PLAN. ACTUAL LOCATION TO BE DETERMINED AFTER PRE-CONSTRUCTION SURVEY. SEE DETAIL 3/D-05.
9. ALL LEACHATE CLEANOUT CONNECTIONS SHALL HAVE A REMOTE WELLHEAD, NOT SHOWN FOR CLARITY.
10. AIR AND FORCEMAIN SHOWN OFFSET FOR CLARITY.
11. CONDENSATE FORCEMAIN SHALL CONNECT TO LCO-1N AS SHOWN IN DETAIL 1/D-06.
12. IF THE BASE BID AND ALTERNATE BID ARE AWARDED, THE CONTRACTOR SHALL CONNECT THE 18" HEADER, 2" AIRLINE AND 4" CONDENSATE RETURN LINE SHOWN IN THE ALTERNATE BID TO THE RESPECTIVE VALVE PIT FOR THE BASE BID.
13. IF THE ALTERNATE BID OPTION IS SELECTED, THE CONTRACTOR SHALL INSTALL BLIND FLANGES FOR THE HEADER, AIRLINE AND FORCEMAIN VALVE PIT SOUTH OF THE KNOCKOUT POT.



SCALE: 1"=5'

FORCE MAIN VALVE PIT (TYP)

Central County Solid Waste Disposal Complex

Phase 1 - Sequence 1

Landfill Gas Collection and Control System

ISSUED FOR CONSTRUCTION

SARASOTA COUNTY

FLORIDA

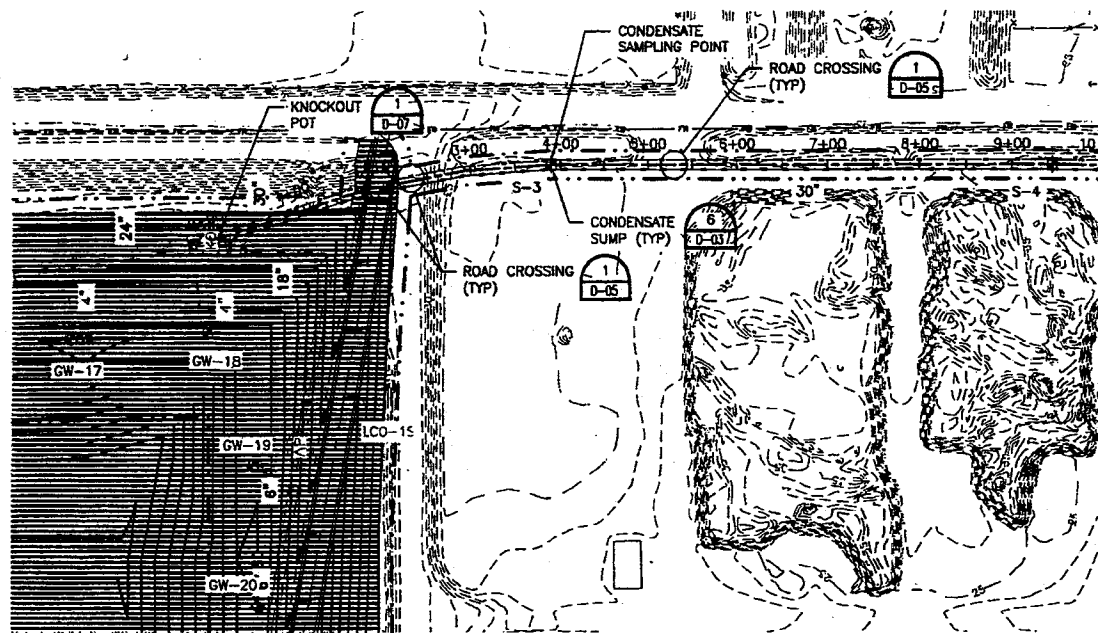
PHASE 1 GAS SYSTEM PIPING LAYOUT



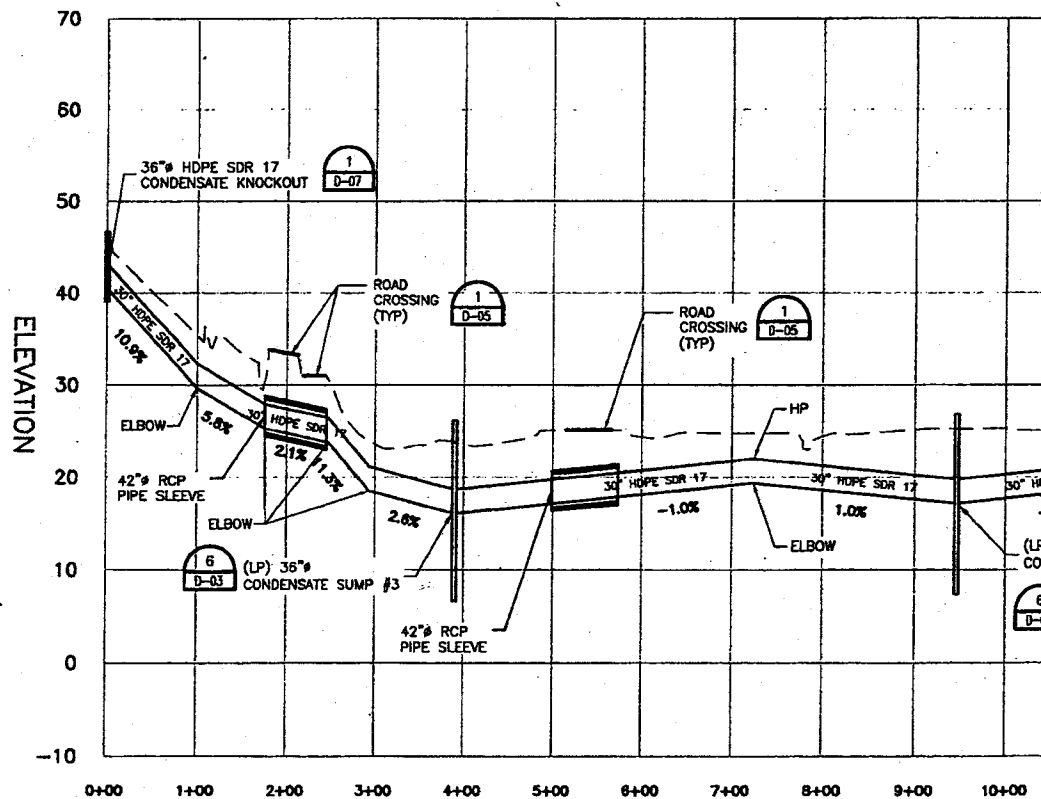
FILENAME	00C-03.dwg
SCALE	1" = 100'

SHEET	00C-03
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FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
FEB - 8 2010
SOUTHWEST DISTRICT
TAMPA



PLAN VIEW
SCALE: 1"=100'

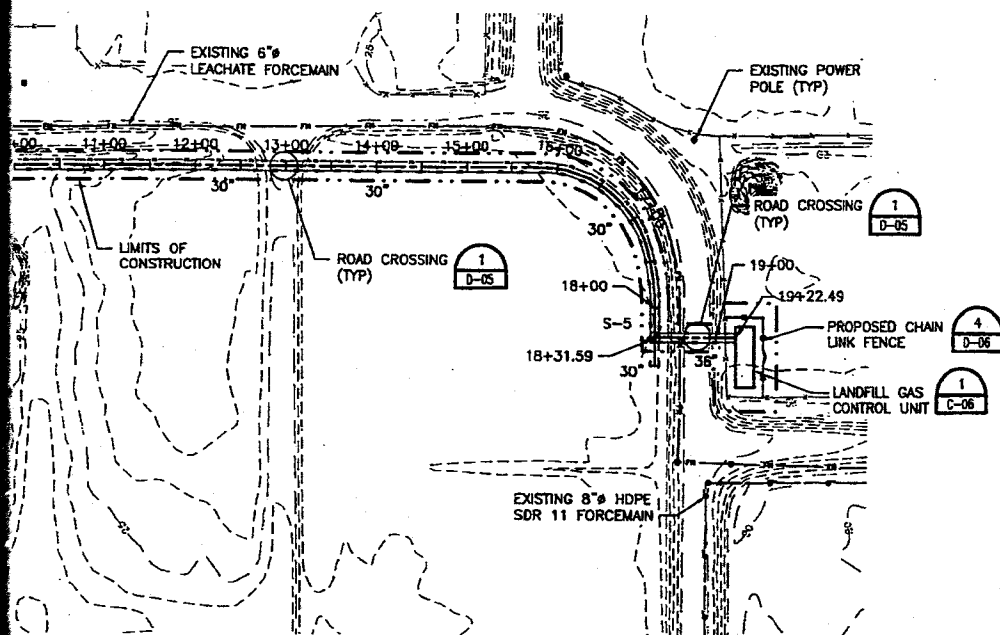


PROFILE VIEW
SCALE: 1"=10' V 1"=100' H



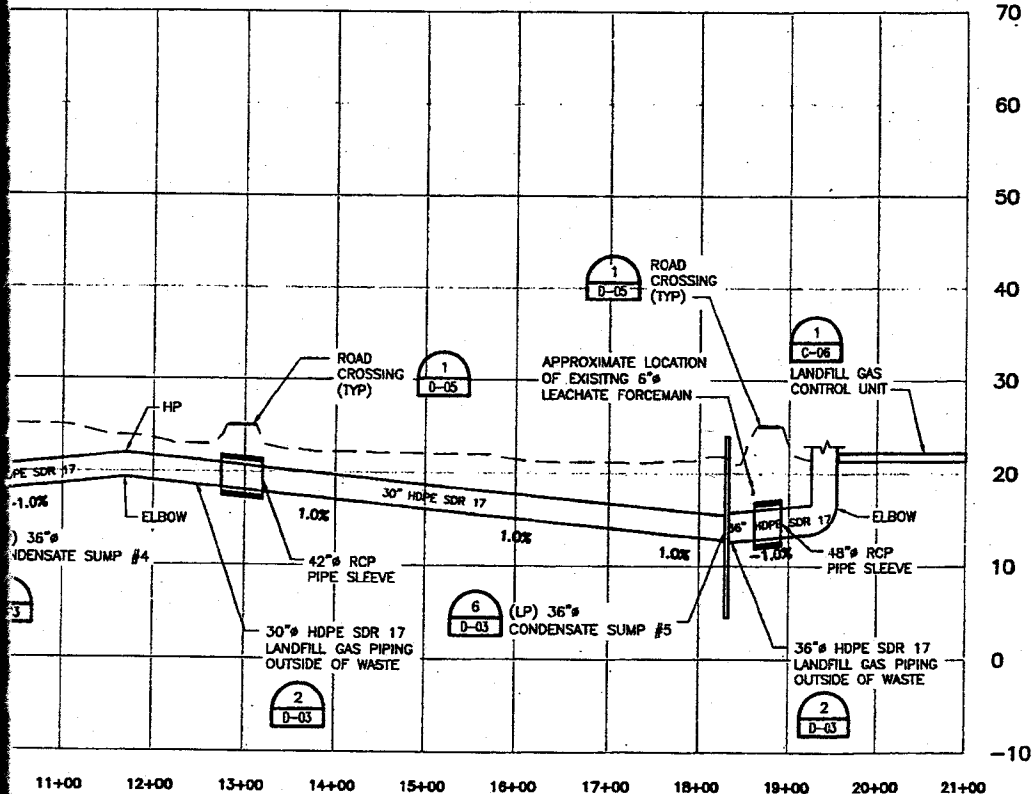
ISSUE	DATE	DESCRIPTION
2	12/09	ISSUED FOR CONSTRUCTION
1	08/09	ISSUED FOR BID
0	05/09	ISSUED FOR CLIENT REVIEW

PROJECT MANAGER	C. KOENIG, P.E.
DESIGNED BY	A. BARKER, E.I.
DRAWN BY	D. SOSA
CHECKED BY	C. LEBRON, P.E.
PROJECT NUMBER	101628



NOTES:

1. TOPOGRAPHY WITHIN PHASES I THROUGH IV WAS COMPILED BY KUCERA INTERNATIONAL INC. OF WILLOUGHBY, OHIO USING PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHS DATED APRIL 12, 2008.
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3. ONLY PROFILE OF HEADERLINE IS SHOWN FOR CLARITY. HOWEVER, AN AIRLINE AND A CONDENSATE FORCEMAIN SHALL BE INSTALLED IN THE SAME TRENCH.
4. GAS LINE MARKERS SHALL BE INSTALLED EVERY 300 FEET NOTING LOCATION OF HEADERLINE.
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6. CONTRACTOR RESPONSIBLE FOR CONNECTING HEADER PIPE TO LANDFILL GAS CONTROL UNIT. CONTRACTOR RESPONSIBLE FOR CONDENSATE DRAINAGE, ELECTRICAL CONNECTIONS AND PAD CONSTRUCTION.



FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
FEB - 8 2010
SOUTHWEST DISTRICT
TAMPA

NOTE: AIRLINE/FORCEMAIN LINES NOT SHOWN FOR CLARITY.

**Central County Solid Waste
Disposal Complex
Phase 1 - Sequence 1
Landfill Gas Collection and Control System
ISSUED FOR CONSTRUCTION**

SARASOTA COUNTY

FLORIDA

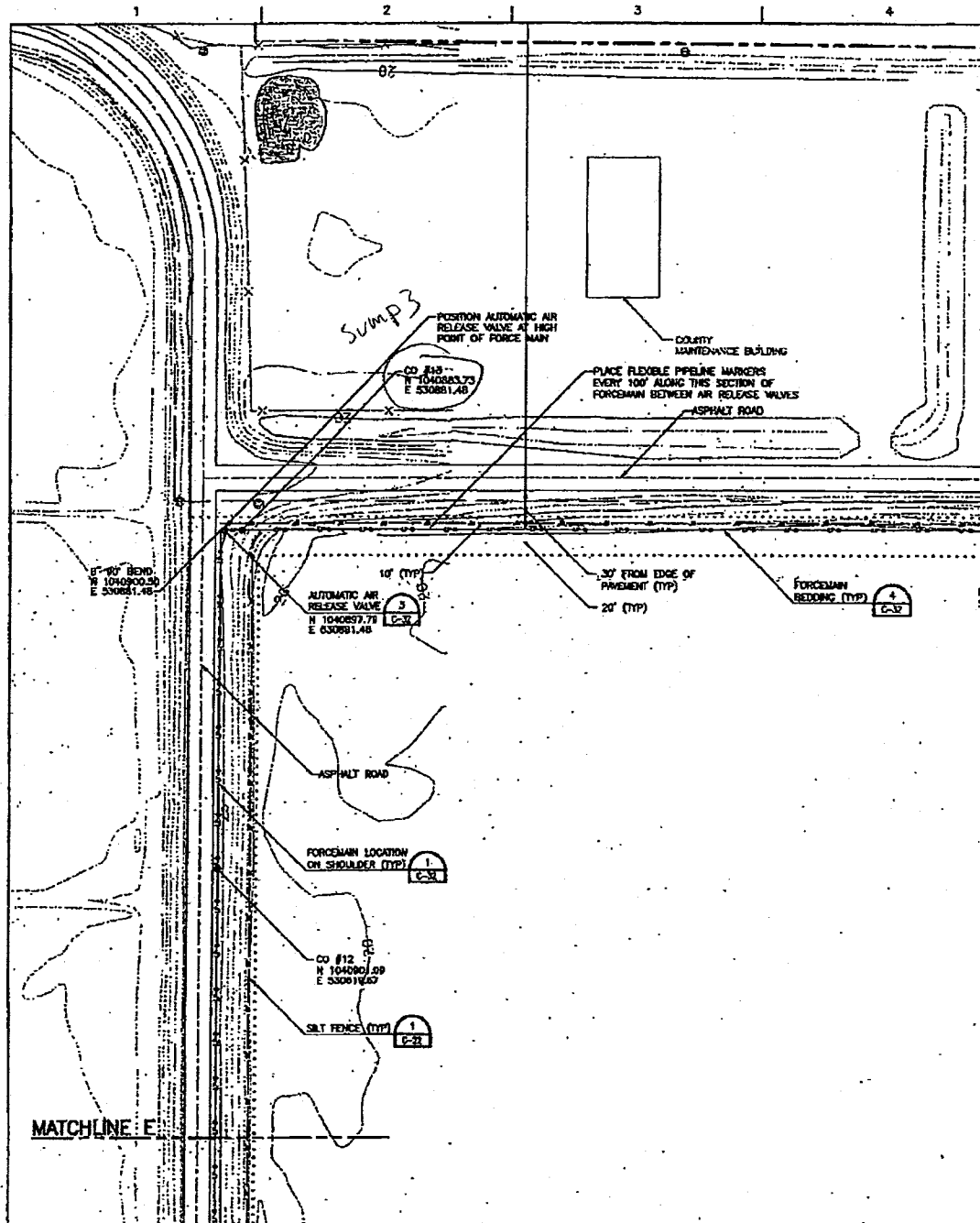
**HEADER TO FLARE STATION
PLAN & PROFILE**

0 1" 2"
AT FULL SIZE (BAR LENGTH EQUALS TWO INCHES). ADJUST SCALE ACCORDINGLY.

FILENAME: 00C-04.dwg
SCALE: AS NOTED

SHEET

00C-04

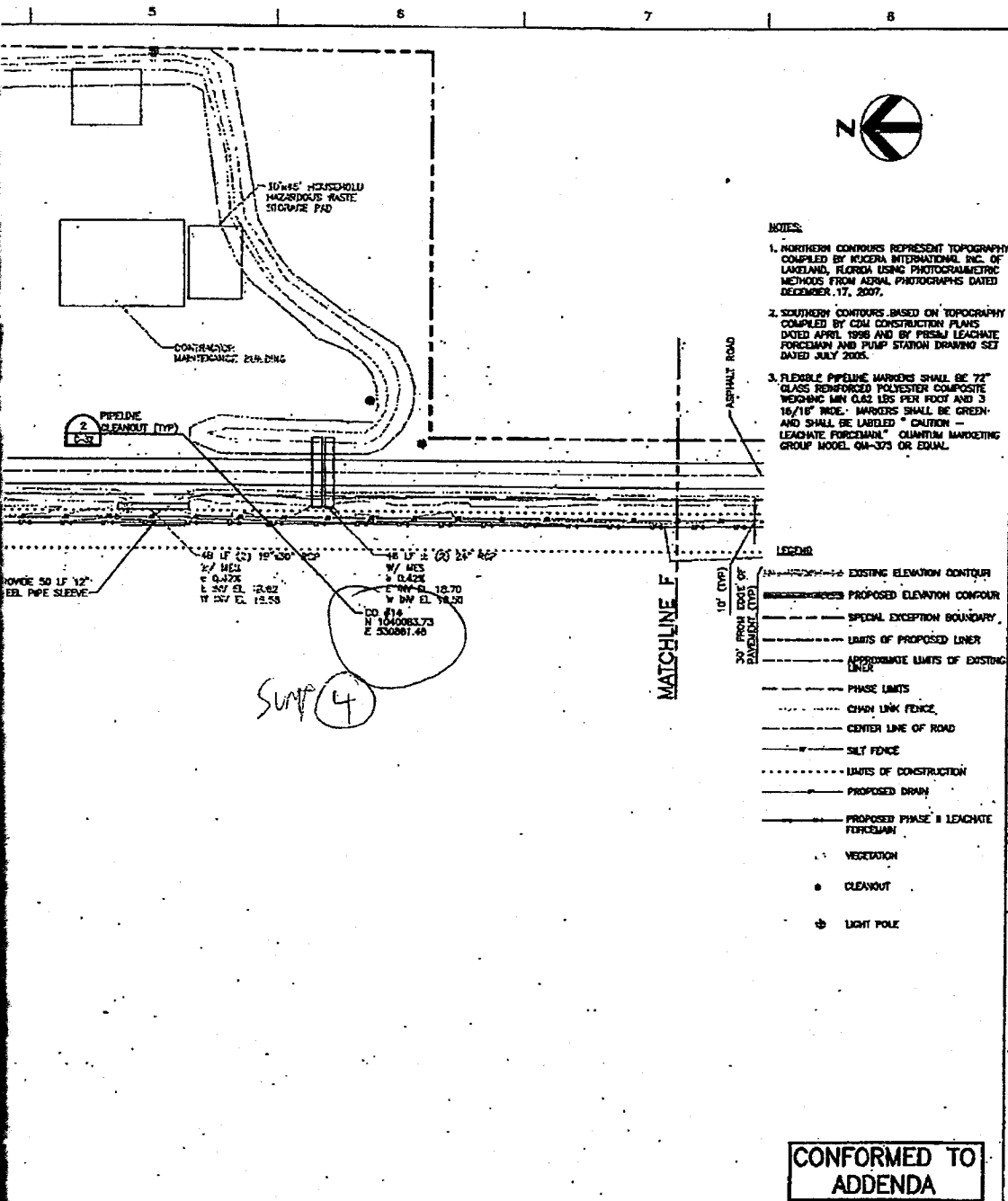


MATCHLINE E

HDR

HDR Engineering, Inc.
6400 Hwy Center Drive, Suite 100
Broomfield, CO 80020-1000
(303) 440-3300
Florida Certificate of Authorization
No. 00000020

A	02/2008	ISSUED FOR CONSTRUCTION, CONFORMED TO APPENDIX	PROJECT MANAGER/TAL YANOSCHAK
			REVIEWED BY J.C. READING
ISSUE	DATE	DESCRIPTION	DRAWN BY G.J. BLUE
			PROJECT NUMBER 001018-43485-018

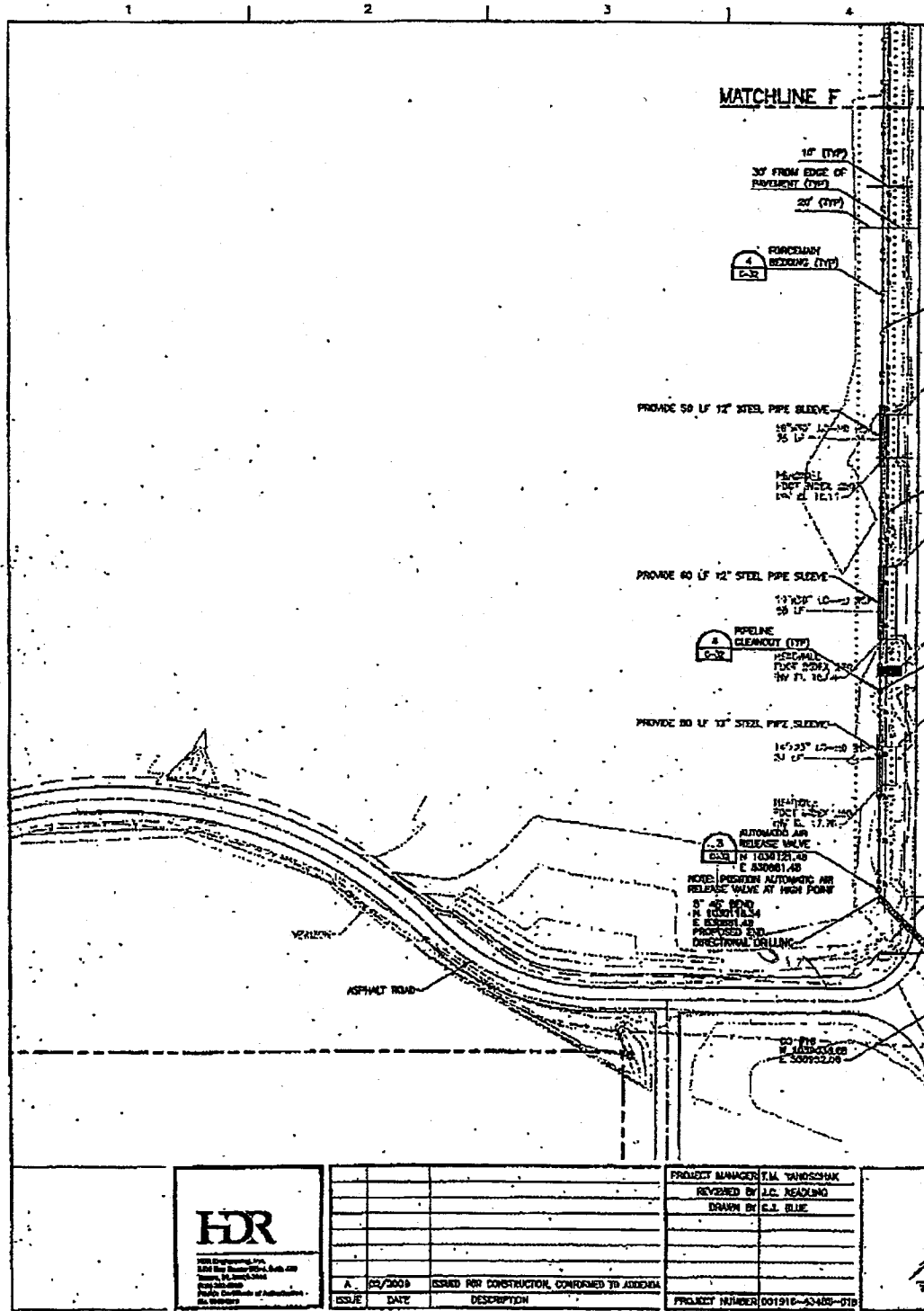


Dept. Of Environmental Protection
FEB 08 2010
 Southwest District

	Central County Solid Waste Disposal Complex PHASE II CLASS I LANDFILL EXPANSION CONSTRUCTION DRAWINGS	FORCEMAIN PLAN	
		0 1" 2" 1"=50'	SHEET C-29

FLORIDA

FLORIDA DEPARTMENT OF
 ENVIRONMENTAL PROTECTION
FEB - 8 2010
 SOUTHWEST DISTRICT
 TAMPA



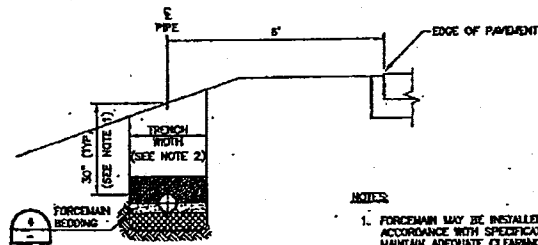
3:00pm 05/05/2009 1:01:23 PM

HDR

HDR Engineering, Inc.
 1000 New York Avenue, Suite 200
 Washington, DC 20004
 Phone: 202-775-1000
 Fax: 202-775-1001
 E-mail: info@hdr.com

ISSUE	DATE	DESCRIPTION
A	05/20/09	ISSUED FOR CONSTRUCTION, CONFORMED TO ADEMDA

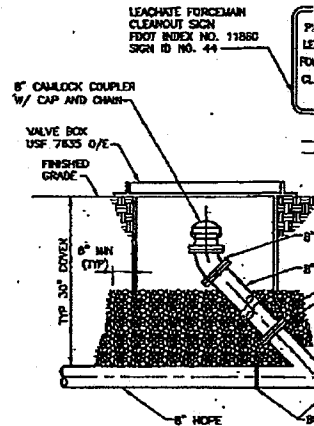
PROJECT MANAGER	T.M. TAYLOR
REVIEWED BY	J.C. READING
DRAWN BY	J.C. BLUE
PROJECT NUMBER	001918-03-000-010



- NOTES:
1. FORCEMAIN MAY BE INSTALLED DEEPER IN ACCORDANCE WITH SPECIFICATIONS TO MAINTAIN ADEQUATE CLEARANCE DURING HORIZONTAL DIRECTIONAL DRILLING.
 2. SEE DETAIL 4 THIS SHEET FOR MINIMUM AND MAXIMUM TRENCH WIDTHS.

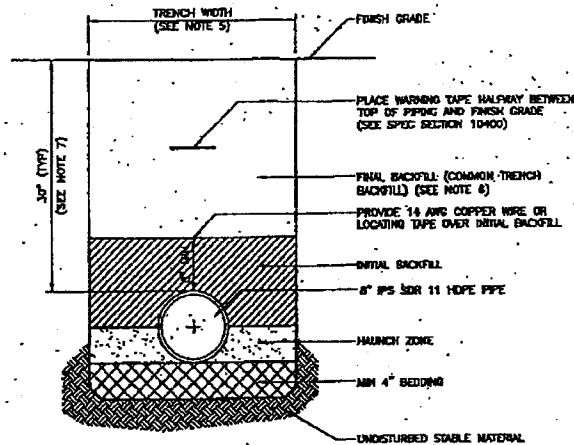
FORCEMAIN LOCATION ON SHOULDER

NTS



PIPE LINE CLEANOUT

NTS



- NOTES:
1. TRENCHING AND PIPE INSTALLATION SHALL BE PERFORMED IN ACCORDANCE WITH ASTM D2321. MAXIMUM PARTICLE SIZE = 1/2\".
 2. BEDDING, HAUNCHING AND INITIAL BACKFILL MATERIAL SHALL BE CLASS II AS PER ASTM D2487, "STANDARD METHOD FOR ENGINEERING PURPOSES." THIS MATERIAL SHALL MEET THE REQUIREMENTS OF ASTM D2487. SEE SPECIFICATIONS.
 3. WATER SHALL NOT BE PERMITTED IN THE TRENCH OR TO ONE FOOT BELOW TRENCH BOTTOM, SEE SPECIFICATIONS.
 4. INITIAL BACKFILL SHOULD BE PLACED IN 6\".
 5. MINIMUM TRENCH WIDTH = PIPE OD + 16\". MAXIMUM TRENCH WIDTH = 18\".
 6. FINAL BACKFILL SHALL BE CLASS I, CLASS II OR CLASS III AS PER ASTM D2487. THIS MATERIAL SHALL BE COMPACTED TO MEET THE REQUIREMENTS OF ASTM D2487. SEE SPECIFICATIONS.
 7. FORCEMAIN MAY BE INSTALLED DEEPER IN ACCORDANCE WITH SPECIFICATIONS TO MAINTAIN ADEQUATE CLEARANCE DURING HORIZONTAL DIRECTIONAL DRILLING.

FORCEMAIN BEDDING

NTS

4
0-24

HDR

HDR Engineering, Inc.
1001 Bay Center Drive, Suite 400
Tomball, TX 77375-6444
817-291-1200
Holds Certificate of Authorization
No. 00000000

ISSUE	DATE	DESCRIPTION
A	10/2/2009	ISSUED FOR CONSTRUCTION, CONFORMED TO ADDENDUM

PROJECT MANAGER: J.M. YANGSCHAK
REVIEWED BY: J.C. READING
DRAWN BY: C.J. BLUE

PROJECT NUMBER: 001915-43485-018

PHASE II
LANDFILL
EXPANSION
#1

45° PVC ELBOW

PVC

WELDED FLANGED FITTING

8" x 6" x 1/2" WYE

FLOW

WELDED FLANGED FITTING

2
C-32

SHOWN IN ACCORDANCE WITH

USED SHOULD BE CLASS I OR
II CLASSIFICATION OF SOILS
BE COMPACTED TO 95%

CONSTRUCTION, DRAINAGE
WORKS.

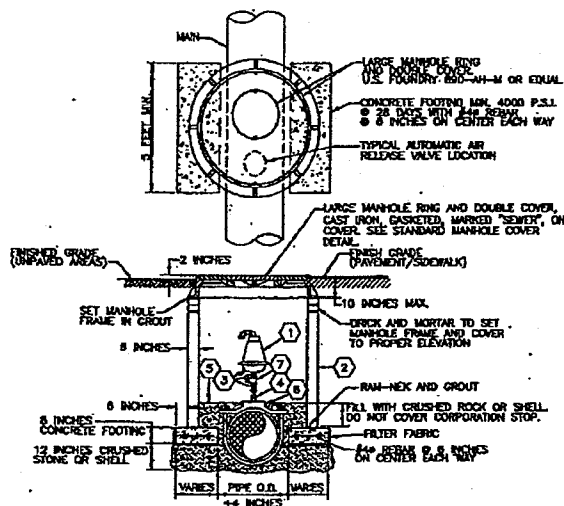
AND EXTENDED TO AT LEAST 1'

TRENCH WIDTH = MINIMUM

IS IF MATERIAL AS PER ASTM
DENSITY PER AASHTO T-99.

WITH SPECIFICATIONS TO
SECTIONAL DRILLING OR

ALL PVC PIPE AND FITTINGS SHALL BE
PRESSURE RATED CLASS 150 (OR 18)
CONFORMING TO AWWA C900. PIPE
AND FITTINGS SHALL BE MADE FROM
CLASS 12454-9 (ASTM D784). THE
FITTINGS SHALL MEET THE
REQUIREMENTS OF STANDARD UN-9-12
(UN-BELL PVC PIPE ASSOCIATION).



AUTOMATIC AIR RELEASE VALVE

NTS

3
C-32

KEY NOTES:

1. AUTOMATIC AIR RELEASE VALVE WITH ACCESSORIES. SEE SPECIFICATIONS.
2. PRECAST CONCRETE MANHOLE SECTION, 4 FEET DIA. UP TO 30 INCH DIA. MANHOLE.
3. 2 INCH "EXTRA HEAVY" BRASS PIPE PER ASTM B 43-LATEST BRASS FITTINGS SHALL BE "EXTRA HEAVY".
4. 2 INCH BRASS CORPORATION STOP BALL TYPE.
5. CRUSHED ROCK OR SHELL.
6. BRASS DOUBLE STRAP SERVICE SADDLE.
7. 2 INCH BRASS BALL VALVE WITH HAND LEVER.

NOTES:

1. FOR FORCEMAIN USE AUTOMATIC VACUUM AIR RELEASE VALVE WITH BACKWASH ACCESSORIES.
2. CONTRACTOR SHALL INSTALL AUTOMATIC AIR RELEASE VALVES (AARV) AT ALL HIGH POINTS ON FORCEMAIN. CONTRACTOR SHALL COORDINATE PROPOSED LOCATIONS OF AARV WITH ENGINEER PRIOR TO CONSTRUCTION.

CONFORMED TO
ADDENDA

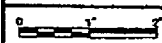


**Central County Solid Waste
Disposal Complex
PHASE II CLASS I LANDFILL
EXPANSION
CONSTRUCTION DRAWINGS**

SARASOTA COUNTY

FLORIDA

FORCEMAIN DETAILS



FILENAME: 000-32.dwg
SCALE: AS SHOWN

SHEET
C-32

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
FEB - 8 2000
SOUTHWEST DISTRICT
TAMPA

DEWATERING PLAN

LANDFILL GAS COLLECTION – PHASE I

SARASOTA COUNTY CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX

12209031.00

GENERAL

Construction of the landfill gas collection project at the Sarasota County Central County Solid Waste Disposal Complex includes the construction of four gas collection condensate sumps that will require temporary dewatering during construction. All four sumps are located within the limits of County-owned property at the Solid Waste Disposal Complex. If it becomes necessary to dewater the pipeline trench during construction outside the limits of Phase I, the dewatering will be pumped to the nearest cleanout, CO 13, 14, or 15.

DEWATERING METHOD

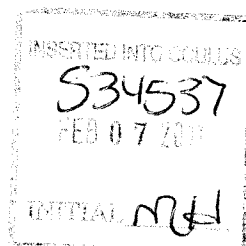
A two-inch or three-inch diameter discharge trash pump will be used to dewater each sump. The pump discharge will be approximately 150 to 200 gallons per minute. One sump will be dewatered at a time and it is anticipated that each sump will require dewatering for approximately two days.

DEWATERING DISCHARGE

Sump 2 is located within the limits of buried waste. This sump is shown on Sheet 00C 03 attached. Liquid pumped during construction dewatering from this sump will be pumped to a nearby leachate cleanout riser pipe, LCO-3S, shown on Sheet 00C-03 which will allow the liquid to drain back into the landfill leachate collection system. Three sumps, Sumps 3, 4, and 5, are located outside the limits of buried waste. These sumps are shown on Sheet 00C 04. Liquid pumped during construction dewatering from these three sumps will be pumped to the existing leachate storage tank through existing leachate force main cleanouts. Dewatering from Sump 3 would be pumped to cleanout CO 13, dewatering from Sump 4 would be pumped to cleanout CO 14, and dewatering from Sump 5 would be pumped to cleanout CO 15. Cleanouts CO-13 and CO-14 are shown on Sheet C-29. Cleanouts CO-15 is shown on Sheet C-30. A detail of the cleanouts is provided on Sheet C-32. As shown on the detail, the cleanouts are furnished with a Camlock coupler to facilitate discharge into the existing forcemain.

Sarasota County will shut down the leachate pumping system during construction to facilitate the use of the forcemain for dewatering. SCS will coordinate with the County to make sure that the leachate collection pumps are manually turned off during disposal into the leachate forcemain.

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FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
FEB - 8 2010
SOUTHWEST DISTRICT
TAMPA

CONTINGENCY OPERATION

If the primary dewatering pump should fail, a backup pump may be used to dewater the sump. If a backup pump is not readily available or if the leachate storage tank is full, dewatering may be temporarily halted. Stopping dewatering will not result in discharge to ground or surface water.

DRAWINGS

Attached are Sheets 00C-03, 00C-04, C-29, C-30, and C32.



LIMITS OF
CONSTRUCTION

SEE NOTE 11

SEE NOTE 9
(TYP.)

18" ELBOW

24"X18" HDPE
SDR 17 ECCENTRIC
REDUCER

3
D-03

18" ELBOW

24" ELBOW (HP)

6"

24"

6"

24"

6"

24"

6"

24"

6"

24"

6"

24"

6"

24"

6"

24"

6"

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6"

24"

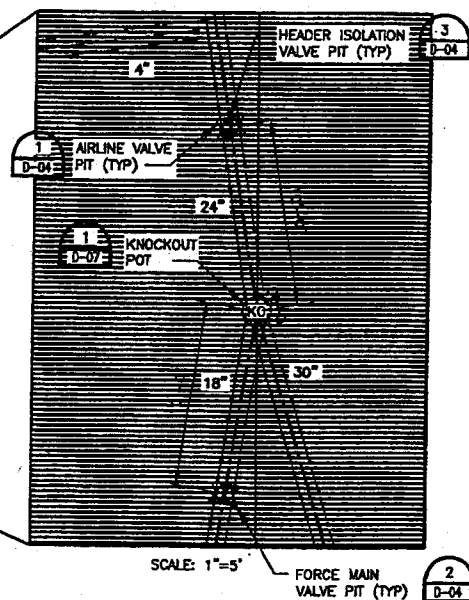
6"

24"

6"

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SCALE: 1"=5'

FORCE MAIN
VALVE PIT (TYP.)

Central County Solid Waste Disposal Complex Phase 1 - Sequence 1 Landfill Gas Collection and Control System ISSUED FOR CONSTRUCTION

SARASOTA COUNTY

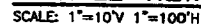
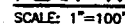
FLORIDA

PHASE 1 GAS SYSTEM PIPING LAYOUT

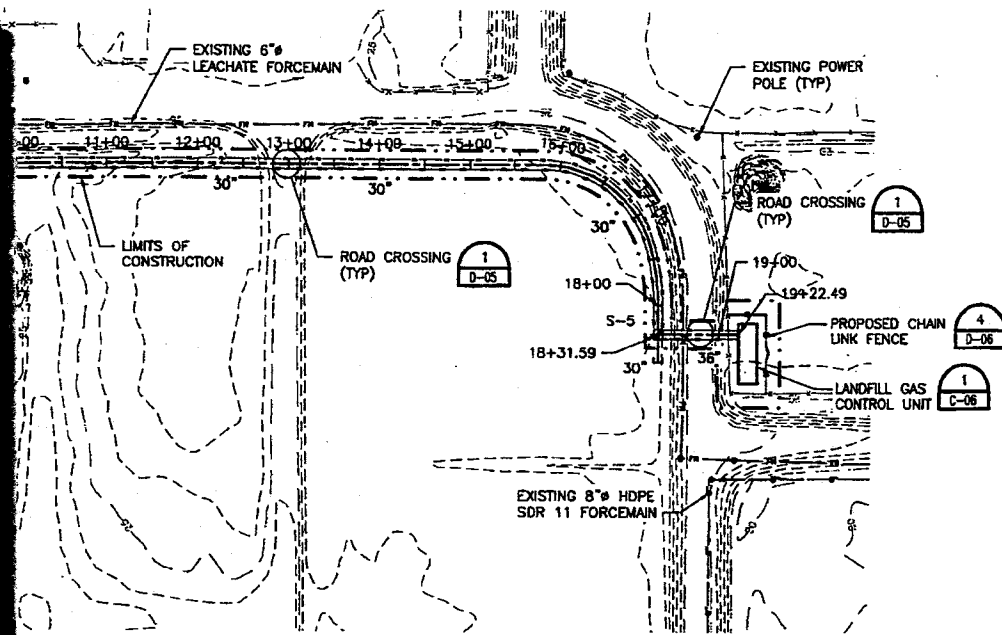
0 1" 2"
AS FULL SIZE DIM LENGTH EQUALS TWO
INCHES, ADJUST SCALE ACCORDINGLY.

FILENAME OOC-03.dwg
SCALE 1" = 100'

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
FEB - 8 2010
SOUTHWEST
TAMPA

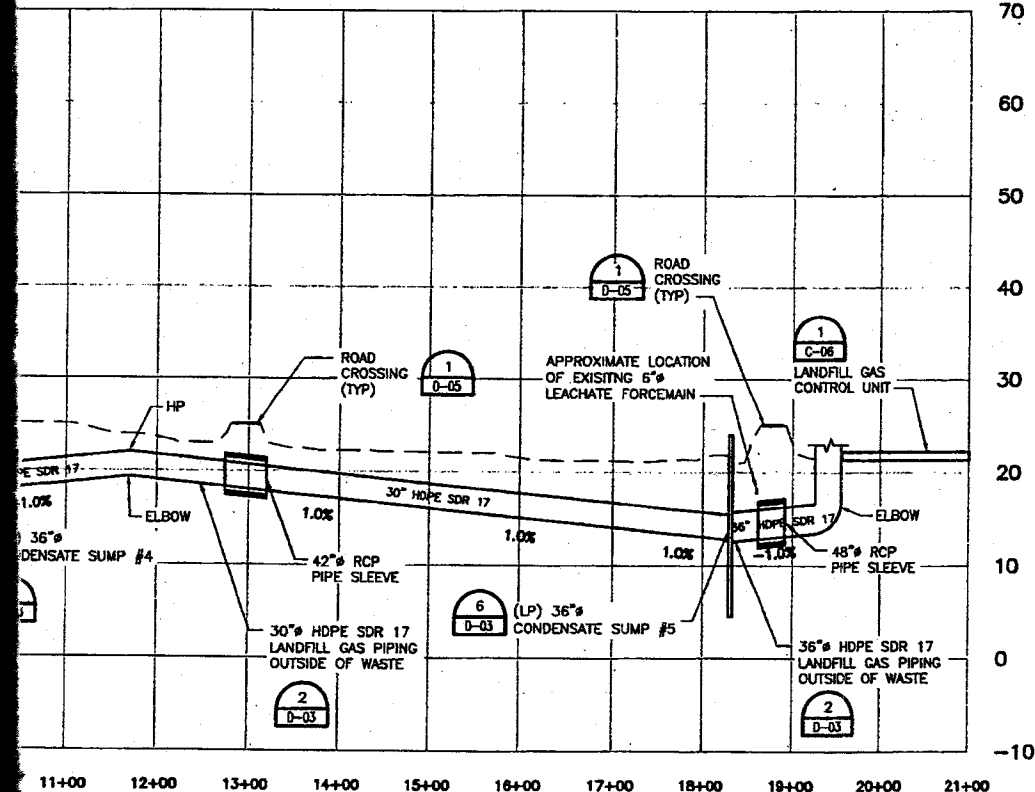


			PROJECT MANAGER	C. KOENIG, P.E.
			DESIGNED BY	A. BARKER, E.I.
			DRAWN BY	D. SOSA
2	12/09	ISSUED FOR CONSTRUCTION		
1	08/09	ISSUED FOR BID		
0	05/09	ISSUED FOR CLIENT REVIEW		
ISSUE	DATE	DESCRIPTION	CHECKED BY	C. LEBRON, P.E.
			PROJECT NUMBER	101828



NOTES:

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NOTE: AIRLINE/FORCEMAIN LINES NOT SHOWN FOR CLARITY.

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
FEB - 8 2010
SOUTHWEST DISTRICT
TAMPA

**Central County Solid Waste
Disposal Complex**
Phase 1 - Sequence 1
Landfill Gas Collection and Control System
ISSUED FOR CONSTRUCTION

SARASOTA COUNTY

FLORIDA

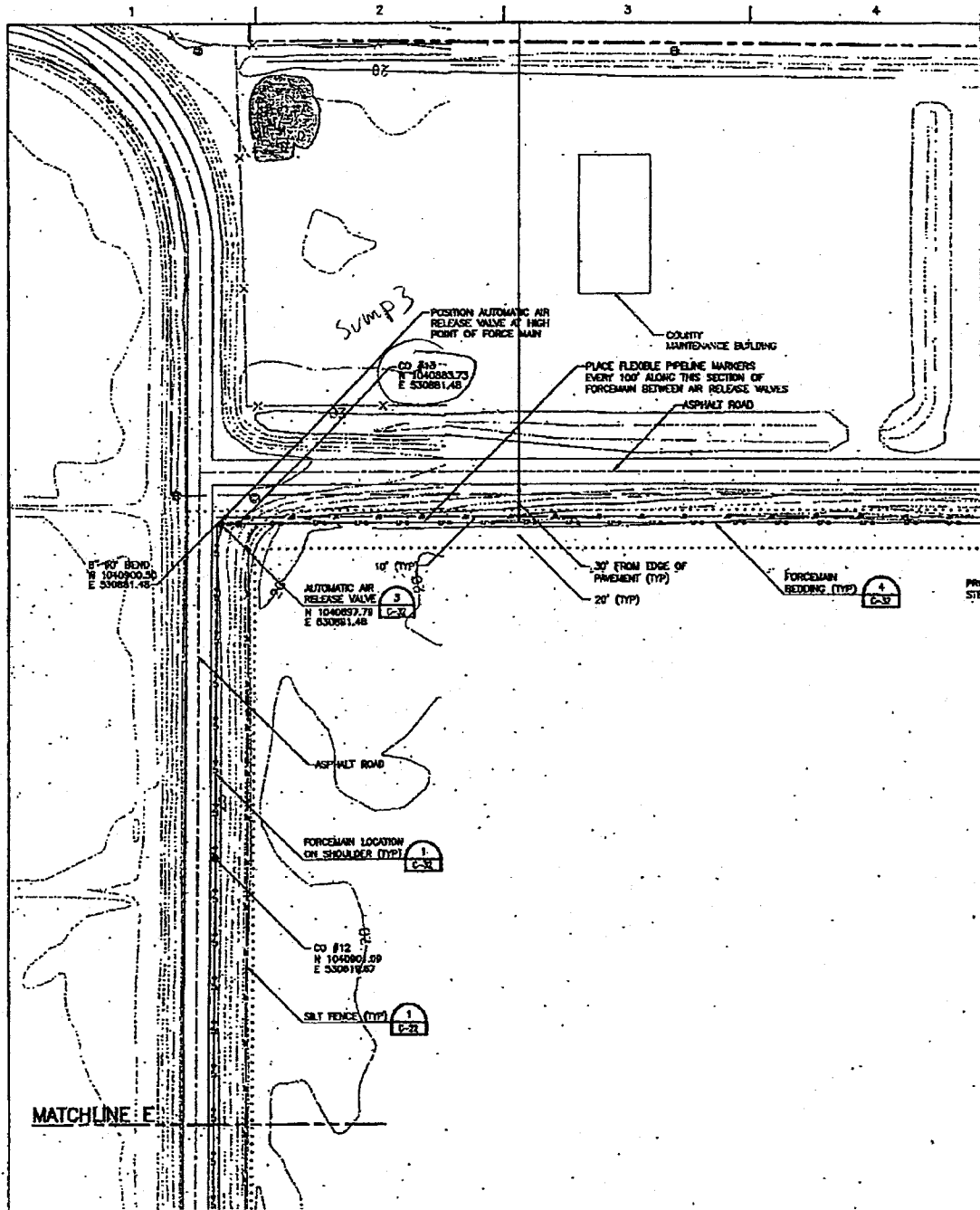
**HEADER TO FLARE STATION
PLAN & PROFILE**



FILENAME	OOC-04.dwg
SCALE	AS NOTED

SHEET

00C-04



MATCHLINE E

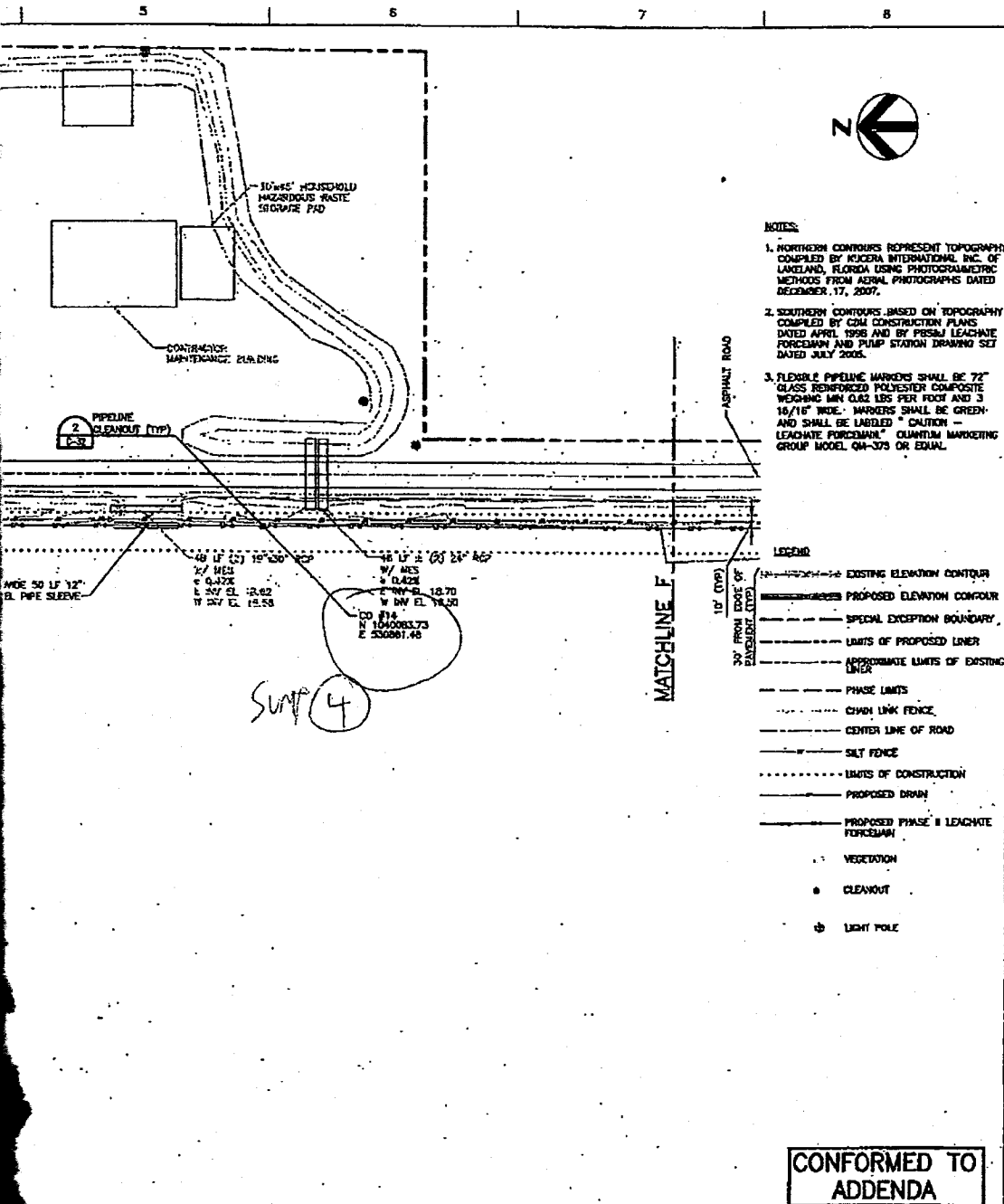
HDR

1995 Engineering, Inc.
1400 Hwy 100, Suite 100
Bismarck, ND 58501-1000
(701) 223-2200
FAX: (701) 223-2201
Mobile: (701) 223-2202
www.hdr.com

ISSUE	DATE	DESCRIPTION
A	02/2000	ISSUED FOR CONSTRUCTION, CONFORMED TO ADDENDA

PROJECT MANAGER	T.M. YANOSCHAK
REVIEWED BY	J.C. READING
DRAWN BY	G.J. BLUE
PROJECT NUMBER	001018-43405-010

Checked by: [Signature] Date: 02/2000



NOTES

1. NORTHERN CONTOURS REPRESENT TOPOGRAPHY COMPILED BY KUCERA INTERNATIONAL, INC. OF LAKELAND, FLORIDA USING PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHS DATED DECEMBER 17, 2007.
2. SOUTHERN CONTOURS BASED ON TOPOGRAPHY COMPILED BY CDM CONSTRUCTION PLANS DATED APRIL 1998 AND BY PESSM LEACHATE FORCEMAIN AND PUMP STATION DRAWING SET DATED JULY 2005.
3. FLEXIBLE PIPELINE MARKERS SHALL BE 72" GLASS REINFORCED POLYESTER COMPOSITE WEIGHING MIN 0.82 LBS PER FOOT AND 3 1/8" ID. MARKERS SHALL BE GREEN AND SHALL BE LABELED "CAUTION - LEACHATE FORCEMAIN" QUANTUM MARKING GROUP MODEL QM-373 OR EQUAL.

LEGEND

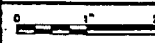
- EXISTING ELEVATION CONTOUR
- PROPOSED ELEVATION CONTOUR
- SPECIAL EXCEPTION BOUNDARY
- LIMITS OF PROPOSED LINER
- APPROXIMATE LIMITS OF EXISTING LINER
- PHASE LIMITS
- CHAIN LINK FENCE
- CENTER LINE OF ROAD
- SILT FENCE
- LIMITS OF CONSTRUCTION
- PROPOSED DRAIN
- PROPOSED PHASE II LEACHATE FORCEMAIN
- VEGETATION
- CLEARCUT
- LIGHT POLE

CONFORMED TO
ADDENDA



Central County Solid Waste Disposal Complex
PHASE II CLASS I LANDFILL EXPANSION
CONSTRUCTION DRAWINGS

FORCEMAIN PLAN



FLOWAGE: 000-29.dwg
 SCALE: 1"=50'

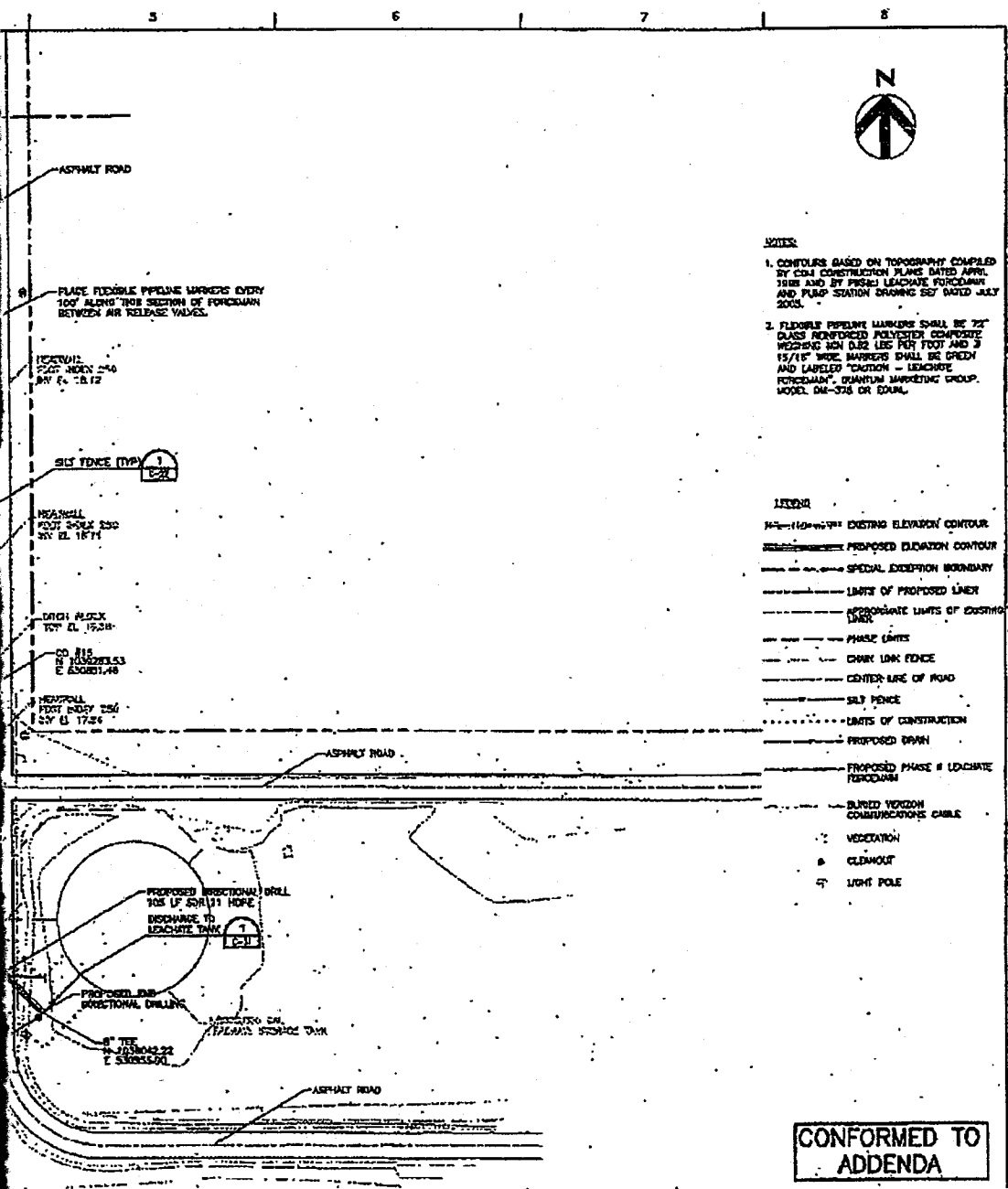
SHEET
C-29

Dept. Of Environmental Protection
FEB 08 2010
 Southwest District

FLORIDA DEPARTMENT OF
 ENVIRONMENTAL PROTECTION
FEB - 8 2010
 SOUTHWEST DISTRICT
 TAMPA



Dept. Of Environmental Protection
FEB 08 2010
 Southwest District

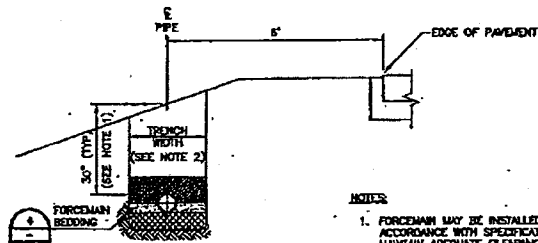


Central County Solid Waste Disposal Complex
PHASE II CLASS I LANDFILL EXPANSION
CONSTRUCTION DRAWINGS

FORCEMAIN PLAN

	FILENAME: OCC-30.dwg SCALE: 1"=50' 	SHEET: 5427 OF: C-30
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FLORIDA DEPARTMENT OF
 ENVIRONMENTAL PROTECTION
FEB - 8 2010
 SOUTHWEST DISTRICT
 TAMPA



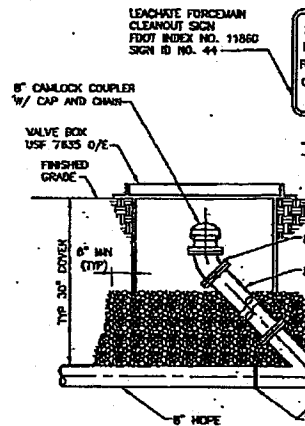
NOTES:

1. FORCEMAIN MAY BE INSTALLED DEEPER IN ACCORDANCE WITH SPECIFICATIONS TO MAINTAIN ADEQUATE CLEARANCE DURING HORIZONTAL DIRECTIONAL DRILLING.
2. SEE DETAIL 4 THIS SHEET FOR MINIMUM AND MAXIMUM TRENCH WIDTHS.

FORCEMAIN LOCATION ON SHOULDER

NTS

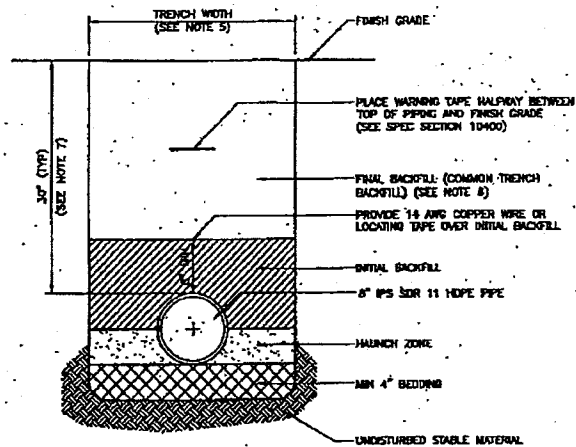
1
C-24



LEACHUTE FORCEMAIN
CLEANOUT SIGN
FOOT INDEX NO. 11860
SIGN ID NO. 44

PIPE LINE CLEANOUT

NTS



NOTES:

1. TRENCHING AND PIPE INSTALLATION SHALL BE PERFORMED IN ACCORDANCE WITH ASTM D2321. MAXIMUM PARTICLE SIZE = 1/2\".
2. BEDDING, HAUNCHING AND INITIAL BACKFILL MATERIAL SHALL BE CLASS II AS PER ASTM D2487, "STANDARD METHOD FOR DETERMINING PURPOSES." THIS MATERIAL SHALL MEET THE REQUIREMENTS OF ASTM D2487. SEE SPECIFICATIONS.
3. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION. TO ONE FOOT BELOW TRENCH BOTTOM, SEE SPECIFICATIONS.
4. INITIAL BACKFILL SHOULD BE PLACED IN 6\".
5. MINIMUM TRENCH WIDTH = PIPE OD + 18\".
6. FINAL BACKFILL SHALL BE CLASS I, CLASS II OR CLASS III AS PER ASTM D2487. THIS MATERIAL SHALL BE COMPACTED TO MEET THE REQUIREMENTS OF ASTM D2487. SEE SPECIFICATIONS.
7. FORCEMAIN MAY BE INSTALLED DEEPER IN ACCORDANCE WITH SPECIFICATIONS TO MAINTAIN ADEQUATE CLEARANCE DURING HORIZONTAL DIRECTIONAL DRILLING.

FORCEMAIN BEDDING

NTS

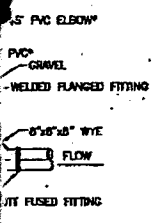
4
C-24

HDR

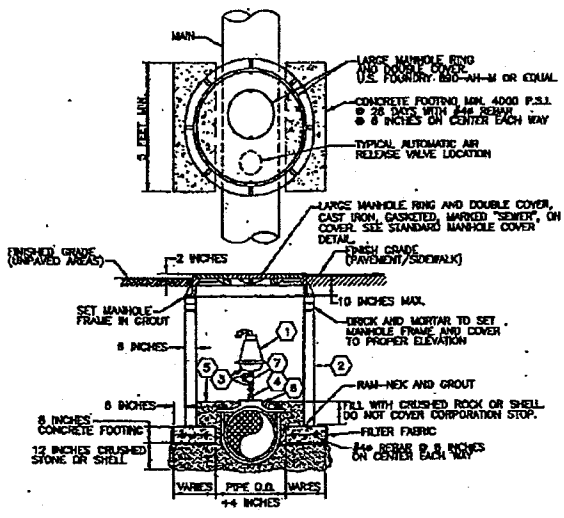
HDR Engineering, Inc.
2001 Bay Center Drive, Suite 200
Tampa, FL 33609-4444
916.263.4200
Florida Certificate of Accreditation
No. 00000071

ISSUE	DATE	DESCRIPTION
A	02/2009	ISSUED FOR CONSTRUCTION, CONFORMED TO ADDENDUM

PROJECT MANAGER	T.M. YANOSCHAK
REVIEWED BY	J.C. READING
DRAWN BY	C.J. BLUE
PROJECT NUMBER	001918-43485-018



* ALL PVC PIPE AND FITTINGS SHALL BE PRESSURE RATED CLASS 150 (OR 18) CONFORMING TO AWWA C900. PIPE AND FITTINGS SHALL BE MADE FROM CLASS 12454-B (ASTM D1784). THE FITTINGS SHALL MEET THE REQUIREMENTS OF STANDARD UN-B-12 (UN-BELL PVC PIPE ASSOCIATION).

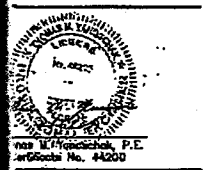


AUTOMATIC AIR RELEASE VALVE

- KEY NOTES:**
1. AUTOMATIC AIR RELEASE VALVE WITH ACCESSORIES. SEE SPECIFICATIONS.
 2. PRECAST CONCRETE MANHOLE SECTION, 4 FEET DIA. UP TO 30 INCH DIA. MANHOLE.
 3. 2 INCH "EXTRA HEAVY" BRASS PIPE PER ASTM B 43-LATEST BRASS FITTINGS SHALL BE "EXTRA HEAVY".
 4. 2 INCH BRASS CORROSION STOP BALL TYPE.
 5. CRUSHED ROCK OR SHEL.
 6. BRASS DOUBLE STRAP SERVICE SADDLE.
 7. 2 INCH BRASS BALL VALVE WITH HAND LEVER.

- NOTES:**
1. FOR FORCEMAIN USE, AUTOMATIC VACUUM AIR RELEASE VALVE WITH BACKWASH ACCESSORIES.
 2. CONTRACTOR SHALL INSTALL AUTOMATIC AIR RELEASE VALVES (ARVS) AT ALL HIGH POINTS ON FORCEMAIN. CONTRACTOR SHALL COORDINATE PROPOSED LOCATIONS OF ARVS WITH ENGINEER PRIOR TO CONSTRUCTION.

**CONFORMED TO
ADDENDA**



Central County Solid Waste Disposal Complex

PHASE II CLASS I LANDFILL EXPANSION

CONSTRUCTION DRAWINGS

FORCEMAIN DETAILS			
		FILENAME: 000-32.dwg SCALE: AS SHOWN	SHEET: C-32



Florida Department of Environmental Protection

Southwest District Office
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

CERTIFIED MAIL #7008 0150 0003 4894 2128
RETURN RECEIPT REQUESTED

July 15, 2009

NOTICE OF PERMIT

Sarasota County Solid Waste Operations
c/o Mr. Frank Coggins, Manager
4000 Knights Trail Road
Nokomis, Fl. 34275

Re: Central County Solid Waste Disposal Complex (CCSWDC)
Phase I Gas Collection and Control System Construction
Permit No.: 130542-009-SC/08, Sarasota County

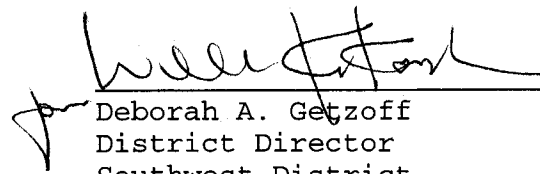
Dear Mr. Coggins:

Enclosed is permit number 130542-009-SC/08, issued pursuant to Section(s) 403.087(1), Florida Statutes.

Any party to this Order (permit) has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 3900 Commonwealth Blvd., Mail Station 35, Tallahassee, 32399-3000; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date this Notice is filed with the Clerk of the Department.

Executed in Hillsborough County, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION


Deborah A. Getzoff
District Director
Southwest District

CERTIFICATE OF SERVICE

This undersigned duly designated deputy clerk hereby certifies that this NOTICE OF PERMIT and all copies were mailed or transmitted electronically to the addressee and the listed persons before the close of business on July 15, 2009 to the listed persons.

Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED,
on this date, pursuant to
Section 120.52(11), Florida
Statutes, with the designated
Department Clerk, receipt of
which is hereby acknowledged.

Anne Brantly
(Clerk)

7/15/2009
(Date)

DAG/sgm

Attachments

Copies furnished to:

Sarasota County Elected Officials Notification
Carlo Lebron, P.E., HDR Engineering, Inc., carlo.lebron@hdrinc.com
Richard Tedder, FDEP Tallahassee, (e-mail)
Frank Hornbrook, FDEP, Tallahassee, (e-mail)
John Morris, P.G., FDEP Tampa (e-mail)
Ronni Moore, OGC Tallahassee (e-mail)
Susan Pelz, P.E., FDEP Tampa (e-mail)



Florida Department of Environmental Protection

Southwest District
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926
Telephone: 813-632-7600

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

PERMITTEE

Sarasota County
Solid Waste Operations
Mr. Frank Coggins, Manager
4000 Knights Trail Road
Nokomis, Florida 34275

PERMIT/CERTIFICATION

WACS ID No: SWD/58/51614
Permit No: **130542-009-SC/08**
Date of Issue: **07/15/2009**
Expiration Date: **07/15/2014**
County: Sarasota
Lat/Long: 27°12'6.57"N
82°23'34.07"W
Sec/Town/Rge: 3/38S/19E
Project: Central County Solid Waste
Disposal Complex (CCSWDC),
Phase I Gas Collection/Control
System Construction

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule(s) 62-4, 62-302, 62-330, 62-520, 62-522, 62-550, and 62-701. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans and other documents, attached hereto or referenced in Specific Condition #A.2., and made a part hereof and specifically described as follows:

To **construct** a landfill gas collection and control system for an existing Class I landfill, referred to as the Central County Solid Waste Disposal Complex (CCSWDC), Class I Landfill (Phase I), subject to the specific and general conditions attached, **located at the north end of Knights Trail Road, 2 miles east of I-75, northeast of Venice, Sarasota County, Florida.** The specific conditions attached are for the construction of:

1. A landfill gas collection and control system.

General information:

Phases I Gas extraction system	70 vertical extraction wells (6-inch slotted PVC pipe), below-grade lateral and header pipelines w/3 condensate knockout pots, 2 condensate sumps (S-2 & S-3) and 3 condensate u-traps (U-1 to U-3). System is also connected to 3 existing leachate cleanouts on south and north sides of Phase I for condensate drainage to existing leachate collection system. Landfill gas conveyed from Phase I via gas transmission line to landfill gas control unit located south of future Phase 3. Transmission line condensate gravity drains to 3 condensate sumps (S-4 to S-6). [ref. Sp. Cond. #A.2.a.(3), Sheets C-03 & C-05]
Gas processing system	Gas inlet from gas extraction system, knockout pot, 2 blowers, vertical candlestick flare unit. Condensate collected at knock down pot, blowers and flare drained via a 2" HDPE gravity drain line to condensate sump S-6. [ref. Sp. Cond. #A.2.a.(3), Sheet C-06]

Replaces Permit No.: N/A, new permit

This permit contains compliance items summarized in **Attachment 1** that shall be complied with and submitted to the Department by the dates noted. If the compliance dates are not met and submittals are not received by the Department on the dates noted, enforcement action may be initiated to assure compliance with the conditions of this permit.

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.161, 403.727, or 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.

3. As provided in subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of rights, nor any infringement of federal, State, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.

4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, are required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:

(a) Have access to and copy any records that must be kept under conditions of the permit;

(b) Inspect the facility, equipment, practices, or operations regulated or required under this permit; and

(c) Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

GENERAL CONDITIONS:

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

(a) A description of and cause of noncompliance; and

(b) The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

11. This permit is transferable only upon Department approval in accordance with Rule 62-4.120 and 62-730.300, Florida Administrative Code, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. This permit also constitutes:

(a) Determination of Best Available Control Technology (BACT)

(b) Determination of Prevention of Significant Deterioration (PSD)

(c) Certification of compliance with State Water Quality Standards (Section 401, PL 92-500)

(d) Compliance with New Source Performance Standards

GENERAL CONDITIONS:

14. The permittee shall comply with the following:

(a) Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.

(b) The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.

(c) Records of monitoring information shall include:

1. the date, exact place, and time of sampling or measurements;
2. the person responsible for performing the sampling or measurements;
3. the dates analyses were performed;
4. the person responsible for performing the analyses;
5. the analytical techniques or methods used;
6. the results of such analyses.

15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware the relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

SPECIFIC CONDITIONS: PART A -Solid Waste Facility General Requirements

1. **Facility Designation.** This gas control system is designed to recover combustible gas and shall be constructed, operated, closed, monitored and maintained in accordance with all applicable requirements of Chapters 62-4, 62-302, 62-330, 62-520, 62-522, 62-550, and 62-701, Florida Administrative Code (F.A.C.) and all applicable requirements of Department rules.
2. **Permit Application Documentation.** This permit is valid for **construction** of a gas collection and control system for existing Central County Solid Waste Disposal Complex (CCSWDC), Class I Landfill (Phase I), in accordance with all applicable requirements of Department rules and in accordance with the reports, plans and other information prepared by HDR Engineering, Inc. (unless otherwise specified) as follows:
 - a. Central County Solid Waste Disposal Complex Class I Landfill Phase I Gas Collection and Control System Construction and Operation Permit Application (3-ring binder & plan set) dated December 29, 2008 (received December 30, 2008), as revised, replaced or amended (information collated into originals*) dated March 13, 2009 (received March 26, 2009) and dated April 20, 2009 (received April 22, 2009). This information includes, but is not limited to:
 - 1) Section 2 - *Engineering Report*;
 - 2) Section 4 - *Specifications*; and
 - 3) Plan Sheets titled, Permit Drawings for Central County Solid Waste Disposal Complex, Sarasota County Phase I Gas Collection and Control System... (17 Sheets) signed and sealed April 20, 2009 (received April 22, 2009).
3. **Permit Modifications.**
 - a. Any construction, operation or other activities not previously approved as part of this permit shall require a separate Department permit unless the Department determines a permit modification to be more appropriate, or unless otherwise approved in writing by the Department. Any significant changes to the construction or operation at the facility shall require a permit modification. Permits shall be modified in accordance with the requirements of Rule 62-4.080, F.A.C. A modification which is reasonably expected to lead to substantially different environmental impacts which require a detailed review by the Department is considered a substantial modification.
 - b. This permit authorizes the construction of the **Phase I** gas collection and control system and other related appurtenances, only.
4. **Permit Renewal.** On or before January 1, 2014 the permittee shall notify the Department in writing or electronically of its intent to apply for renewal of this permit and of the anticipated date of submittal of the permit renewal application. **No later than May 1, 2014**, the permittee shall apply for a renewal of a permit on forms and in a manner prescribed by the Department, in order to assure conformance with all applicable Department rules. Permits shall be renewed at least every five years as required by Rule 62-4.090, F.A.C. and Rule 62-701.320(10)(b), F.A.C. In the event that the regulations governing this permitted construction are revised, the permit renewal shall include modification of those specific construction conditions which are affected by the revision of regulations to incorporate those revisions in accordance with Specific Condition A.8.

* see OCULUS for un-collated submittals

SPECIFIC CONDITIONS: PART A -Solid Waste Facility General Requirements

5. **Professional Certification.** Where required by Chapter 471 (P.E.) or Chapter 492 (P.G.), Florida Statutes, applicable portions of permit applications and supporting documents which are submitted to the Department for public record shall be signed and sealed by the professional(s) who prepared or approved them.

6. **General Conditions.** The permittee shall be aware of and operate under the "General Conditions." General Conditions are binding upon the permittee and enforceable pursuant to Chapter 403, Florida Statutes.

7. **Permit Acceptance.** By acceptance of this Permit, the Permittee certifies that he/she has read and understands the obligations imposed by the Specific and General Conditions contained herein and also including date of permit expiration and renewal deadlines. It is a violation of this permit for failure to comply with all conditions and deadlines.

8. **Regulations.** Chapter 62-701, F.A.C., effective May 27, 2001, is incorporated into this permit by reference. In the event that the regulations governing this permitted operation are revised, the Department shall notify the permittee, and the permittee shall request modification of those specific conditions which are affected by the revision of regulations to incorporate those revisions.

9. **Prohibitions.** The prohibitions of Rule 62-701.300, F.A.C., shall not be violated by the activities at this facility.

a. In the event that limestone is encountered during excavation or construction activities, the excavation/construction activities shall cease and the Department shall be notified **within 24 hours of discovery**. Written notification shall be submitted **within 7 days of discovery**. The written notification shall include the location, elevation, and extent of limestone noted on a plan sheet, a description of the materials encountered, and a plan of action which ensures that groundwater will not be adversely affected by the continued construction and operation of the facility. Excavation or construction activities shall not resume in the affected area until the Department-approved plan of action has been completed.

b. In the event that surface depressions or other occurrences which may be indicative of sinkhole activity or subsurface instability, are discovered on-site, or within 500 feet of the site, the Department shall be notified in accordance with Specific Condition #C.6.b. The written notification shall include a description of the incident, the location and size of the affected area shown on an appropriate plan sheet, and a corrective action plan which describes the actions necessary to prevent the unimpeded discharge of waste or leachate into ground or surface water.

c. Open burning of solid waste is prohibited except in accordance with Rule 62-701.300(3) and Chapter 62-256, F.A.C. All fires which require longer than one (1) hour to extinguish must be promptly reported to the Department in accordance with Specific Condition #C.6.b.

SPECIFIC CONDITIONS: PART B - Construction Requirements

1. **Construction.** All significant construction activities shall be approved by the Department prior to initiating work, unless specifically authorized otherwise.

a. This permit authorizes the construction of the gas collection and control system for Phase I of the Class I landfill and related appurtenances only.

2. **Certification of Construction Completion.** All information required by this Specific Condition shall be signed and sealed by a registered professional engineer or land surveyor as appropriate.

a. **Within sixty (60) days** after the specified construction has been completed, the following activities shall be completed and submitted by the permittee for Department approval. Operation of the constructed systems, structures, equipment, etc., shall not be initiated prior to Department approval of the information required by this Specific Condition:

1) The owner or operator shall submit a Certification of Construction Completion, Form 62-701.900(2), signed and sealed by the professional engineer in charge of construction and quality assurance to the Department for approval, and shall arrange for Department representatives to inspect the construction in the company of the permittee, the engineer, and the facility operator.

2) The owner or operator shall submit Record Drawings/Documents showing all changes (i.e., all additions, deletions, revisions to the plans previously approved by the Department including site grades and elevations). The Record Documents shall include, but not be limited, to as-built plans, details and elevations (survey).

3) The owner or operator shall submit a narrative indicating all changes in plans, the cause of the deviations, and certification of the Record Drawings/Documents by the Engineer to the Department.

4) The professional engineer of record shall submit to the Department a final report to verify conformance with the plans and specifications in accordance with Rules 62-701.400(7) and (8), F.A.C.

3. **Record Drawings/Documents.** The Record Drawings/Documents shall include, but not be limited to, the following information:

a. As-built survey of location and elevations along landfill gas header and transmission lines and condensate discharge lines and drain pipes [ref. Spec 02221-3.9.A.];

b. Ground surface elevations and well depths for each of the extraction wells and horizontal collector vertical borings listed on the "Well Schedule" identified on Sheet D-01 of the Construction Drawings [ref. Sp. Cond. #A.2.a.(3)];

c. Copies of photographs documenting all stages of the construction project;

SPECIFIC CONDITIONS: PART B - Construction Requirements

4. **Pre-Construction Meeting Notification.** Department Solid Waste Permitting staff shall be notified **at least one (1) week prior** to all pre-construction meetings. Prior to initiating construction activities, the permittee shall make arrangements for the Engineer of Record to meet on site and discuss all plan changes with Department Solid Waste Permitting Staff. A copy of the minutes from the pre-construction conference shall be submitted to the Department within two (2) weeks of the conference.

5. **Construction Schedule and Progress Report.**

a. The Engineer of Record or another qualified professional engineer shall make periodic inspections during construction to ensure that design integrity is maintained.

b. An updated construction schedule and progress report shall be submitted to the Department **monthly, by the 15th of each month**. The monthly progress report should be submitted electronically in PDF format or in an appropriately labeled three-ring binder of sufficient size to store the monthly progress reports for the entire project. The monthly progress reports shall include, but not be limited to:

- 1) A narrative explaining the status (and any delays) of major stages of the construction;
- 2) A summary of submittals and change order requests;
- 3) Weekly progress meeting minutes; and
- 4) Color copies of photographs, which are representative of the typical construction activities for the reporting period, and which show overall views and details of major stages of construction. If digital photographs are taken, a CD-Rom containing the photographs may be submitted in lieu of printed copies.

6. **Construction Tolerances.** Invert elevations of the landfill gas collection and control pipes shall be recorded at a frequency sufficient to demonstrate that the headers and laterals have been constructed to the slopes and grades shown on the drawings and will drain adequately. This information shall be included with the Record Documents.

7. **Laboratory and Field Testing Requirements.** Field and laboratory testing during the construction activities shall be conducted by a qualified testing laboratory.

8. **Construction Quality Assurance.**

a. A complete set of construction drawings and shop drawings, which include daily additions, deletions and revisions, shall be maintained on-site at all times for reference.

b. Leachate or gas condensate shall not be deposited, injected, dumped, spilled, leaked, or discharged in any manner to the land, surface water or groundwater at any time during the construction activities.

c. Unsatisfactory, defective or non-conforming work shall be reported to the Engineer and shall be corrected, or the reasons for not correcting the work shall be recorded and maintained onsite for reference and inspections. Documentation of the corrections or reasons for not correcting the work shall be submitted with the Record Documents required by Specific Conditions #B.3.

SPECIFIC CONDITIONS: PART B - Construction Requirements

(Specific Condition #B.8., cont'd)

d. Excavated refuse shall be loaded and transported to the Class I landfill working face by the end of each working day. No refuse shall be allowed to remain uncovered overnight. The refuse must be removed immediately during any rain event to prevent stormwater from contacting the refuse. [ref. Spec 02221-3.3 A. & B.]

e. The non-perforated PVC laterals, leachate and condensate drain lines, connections to LFG header, and air supply lines, shall be subjected to pressure tests to detect any leaks in the piping. [ref. Spec 15060-3.4]

f. All dewatering liquids shall be managed as leachate.

SPECIFIC CONDITIONS: PART C - Operation Requirements

1. Facility Operation Requirements.

- a. The permittee shall operate this facility in accordance with Chapter 62-701, F.A.C., and Operation Permit No. 130542-007-SO-01, (including modifications, if any), or its successors.
- b. This permit does not authorize the operation of the Phase I gas collection and control system and other related appurtenances until the following requirements have been completed and submitted by the Permittee, and approved by the Department:
 - 1) Certification of Construction Completion requirements of Specific Conditions #B.2. and #B.3.,
 - 2) Issuance of a permit modification of Operation Permit No. 130542-007-SO-01 or its successor, which authorizes operation of the landfill gas collection and control system and its related appurtenances.

The permittee may temporarily operate the constructed system for up to 180 days to allow for system start-up and operational adjustments while the certification of construction completion submittals and approvals required by this specific condition are completed. The permit shall notify the Department electronically or in writing of the start date for temporary start-up operation of the system.

- c. Leachate and/or gas condensate shall not be deposited, injected, dumped, spilled, leaked, or discharged in any manner to soils, surface water or groundwater outside the liner and leachate management systems at any time during the construction or operation of this facility.

- 2. Facility Personnel.** The owner or operator shall provide adequate personnel for constructing, operating, monitoring and maintaining the facility in an orderly, safe, and sanitary manner.
- 3. Control of Access.** Access to, and use of, the facility shall be controlled as required by Rule 62-701.500(5), F.A.C.
- 4. Monitoring of Waste.** Wastes shall be monitored as required by Operation Permit No. 130542-007-SO-01, (including modifications, if any), or its successors.
- 5. Control of Nuisance Conditions.** The owner or operator shall control odors, vectors (mosquitoes, other insects, rodents), and fugitive particulates (dust, smoke) arising from the construction and operation so as to protect the public health and welfare. Such control shall minimize the creation of nuisance conditions on adjoining property. Odors observed by Department personnel upon site inspection, shall constitute a nuisance condition, and the permittee must take immediate corrective action to abate the nuisance.

SPECIFIC CONDITIONS: PART C - Operation Requirements

6. Facility Maintenance and Repair.

a. The site shall be properly maintained including maintenance of access roads to disposal areas, equipment, stormwater and leachate management systems, cover systems and berms, gas monitoring and management systems, surface water monitoring system, and groundwater monitoring system. Erosion and ponded water in disposal areas shall be prevented.

b. In the event of damage to any portion of the landfill site facilities, unauthorized leachate discharges, failure of any portion of the landfill systems (including damaged or dry groundwater monitoring wells), fire, explosion, the development of sinkhole(s) or other subsurface instability at the site, the permittee shall **immediately (within 24 hours)** notify the Department explaining such occurrence and remedial measures to be taken, method to prevent reoccurrence, and time needed for repairs. **Written, detailed notification shall be submitted to the Department within seven (7) days following the occurrence.** Routine maintenance does not require notification but shall be noted on daily reports.

7. Stormwater Management. The site shall have a surface water management system designed, constructed, operated, and maintained to prevent surface water from running on to waste filled areas, and a stormwater runoff control system designed, constructed, operated, and maintained to collect and control stormwater to meet the requirements of Chapter 62-330, F.A.C., and the requirements for management and storage of surface water in accordance with Rule 62-701.500(10), F.A.C., to meet applicable standards of Chapters 62-3, 62-302, and 62-330, F.A.C. The stormwater management system shall be inspected for damage and proper operation daily.

SPECIFIC CONDITIONS: PART D - Recordkeeping

1. **Report Submittals.** Unless otherwise specified, all submittals, notifications, requests for permit modification, reports for compliance with this permit, etc., shall be sent to: Solid Waste Section, Department of Environmental Protection, Southwest District Office, 13051 North Telecom Parkway, Temple Terrace, Florida 33637-0926.
2. **Operation Plan and Operating Record.** Each landfill owner or operator shall have an operational plan which meets the requirements of Rule 62-701.500(2), F.A.C. A copy of the Department approved permit, operational plan, construction reports and record drawings, and supporting information shall be kept at the facility at all times for reference and inspections. Operating records as required by Rule 62-701.500(3), F.A.C., are part of the operations plan, and shall also be maintained at the site.
3. **Waste Records.** The permittee shall maintain all records required by the construction specifications, and this permit on-site, and shall provide copies to the Department upon request, unless specified otherwise.
4. **Financial Assurance.** The permittee shall provide adequate financial assurance for this facility and related appurtenances in accordance with Rule 62-701.630, F.A.C. and Operation Permit No. 130542-007-SO-01 (including modifications, if any), or its successors.

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

1. **Water Quality Monitoring Quality Assurance.** Water quality monitoring shall be conducted as required by Operation Permit No. 130542-007-SO-01 (including modifications, if any), or its successors.

SPECIFIC CONDITIONS: PART F - Landfill Gas Management

1. Landfill Gas - NSPS and Title V Air Requirements.

a. This solid waste permit will meet the statutory requirement to obtain an air construction permit before modifying or constructing a source of air pollution, except for those landfills that are subject to the prevention of significant deterioration (PSD) requirements of Chapter 62-212, F.A.C. Facilities that are subject to the PSD requirements shall obtain an air construction permit from the Bureau of Air Regulation prior to beginning construction or modification pursuant to Rule 62-210.400, F.A.C.

b. The permittee shall comply with any applicable Title V air operation permit application requirements of Chapter 62-213, F.A.C., and 40 CFR 60, Subparts WWW and CC, as adopted by reference at Rule 62-204.800, F.A.C. Title V Permit applications shall be submitted to the District Air Program Administrator or County Air Program Administrator with air permitting authority for the landfill.

c. The permittee shall submit to the Division of Air Resources Management, Department of Environmental Protection, Mail Station 5500, 3900 Commonwealth Blvd., Tallahassee, FL 32399-3000, any amended design capacity report and any Non-Methane Organic Compound (NMOC) emission rate report, as applicable, pursuant to 40 CFR 60.757(a)(3) and (b).

2. Gas Monitoring and Control.

a. Landfill gas shall be monitored to demonstrate compliance with the criteria established in Rule 62-701.530(1)(a), F.A.C. (less than 25% of the lower explosive limit (LEL) for combustible gases in structures and less than 100% of the LEL for combustible gases at or beyond the property boundary).

b. The owner or operator shall control landfill gas after the shutdown of the active landfill gas collection system (i.e., gas is no longer routed to the boiler or the flare). In the event that a passive gas venting system is required the owner or operator shall submit an application for minor permit modification to authorize its construction/operation.

3. Gas Monitoring Locations. Landfill gas monitoring shall be conducted as required by Operation Permit No. 130542-007-SO-01 (including modifications, if any), or its successors.

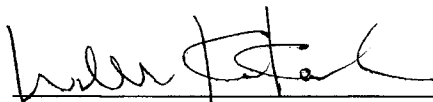
4. Gas Remediation. In the event that the Lower Explosive Limit (LEL) is greater than 25% inside structures both on and off of the landfill site, or greater than 100% at the property boundary, the owner shall submit to the Department, **within 7 days of detection**, a remediation plan detailing the nature and extent of the problem and the proposed remedy. The remedy shall be completed **within 60 days of detection** unless otherwise approved by the Department.

SPECIFIC CONDITIONS: PART G - Closure and Long-Term Care Requirements

1. **Closure Permit Requirements.** No later than ninety (90) days prior to the date when wastes will no longer be accepted for portions of the landfill which have reached closure design dimensions, the landfill owner or operator shall submit a closure permit application to the Department, in order to assure conformance with all applicable Department rules. A closure permit is required prior to implementing closure related activities.
2. **Final Cover.** Portions of the landfill which have been filled with waste to the extent of designed dimensions shall be closed (shall receive final cover) within 180 days after reaching design dimensions, in accordance with Rule 62-701.500(7)(g), F.A.C. and all applicable requirements of Department rules.
3. **Long-Term Care Requirements.**
 - a. The owner or operator shall perform long-term care for the site in accordance with Rule 62-701.620, F.A.C., and the conditions of Operation Permit No. 130542-007-SO-01 (including modifications, if any), or its successors.
 - b. Long-term care includes, but is not limited to, water quality, leachate and gas monitoring, maintenance of the final cover system, maintenance of the leachate collection and removal system, erosion control, and the prevention of ponding within disposal areas.
4. **Use of Closed Landfill Areas.** Prior to implementation, the owner or operator shall submit a plan for any proposed uses of the closed portions of the landfill to the Department for approval. This plan shall include a description of the proposed use and evaluation of the impact on the existing landfill systems (e.g. final cover, leachate collection, bottom liner), engineering designs, calculations and plans as appropriate, etc. The proposed activity shall not be initiated without prior Department approval, and may require a permit modification or separate permit.

Executed in Hillsborough County, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION


Deborah A. Getzoff
District Director
Southwest District

ATTACHMENT 1

SPECIFIC CONDITION	SUBMITTAL DUE DATE	REQUIRED ITEM
A.4	No later than January 1, 2014	Notification of date of permit renewal application submittal
	No later than May 1, 2014	Submit application for permit renewal
A.9.a.	Within 24 hours of discovery	Notification of sinkholes or subsurface instability
	Within 7 days of verbal notification	Written notification & corrective action plan
B.2.a.	Within 60 days of completion	Submit certification of construction completion, record drawings, etc.
B.4.	At least 1 week prior	Notify of preconstruction meeting
	No later than 2 week after pre-construction meeting	Submit meeting minutes
B.5.b.	Monthly, by the 15 th each month	Submit monthly progress report & schedule
C.6.b.	Within 24 hours of discovery	Notification of: sinkholes, failure of landfill systems or equipment, etc.
	Within 7 days of verbal notification	Written notification & corrective action plan

Permitting Application - Events

Events Scheduled 7 of 90

Site # 0130542 Site Name SARASOTA CO CENTRAL COUNTY COMPLEX CLASS I LF (LF1)

Permit # 0130542.009-SC Type/Subtype SC / 08 Received 12/30/2008

Project # 009 Project Name SARASOTA CO LF GAS SYSTEM

> STOP CLOCK: Done

Event	Begin Date	Period	Due Date	Rmn	Status	End Date
Fee Verification	12/30/2008	2	01/01/2009		Sufficient Fee	01/01/2009
Completeness Review	12/30/2008	30	01/29/2009		Incomplete	01/29/2009
RESET CLOCK	01/29/2009	1	01/30/2009		Done	01/29/2009
Awaiting Additional Information	01/29/2009	45	03/15/2009		Received	03/26/2009
Completeness Review	03/26/2009	30	04/25/2009		Complete	03/26/2009
Determine Agency Action	03/26/2009	90	06/24/2009		Issue	06/18/2009
Mail Public Notice of Intent to Applicant and	06/18/2009	10	06/28/2009		Done	06/18/2009
Date of Publication	06/18/2009	999	03/13/2012		Published	07/01/2009
Issue Final Permit	07/01/2009	14	07/15/2009		Issued	07/15/2009
STOP CLOCK	07/15/2009	1	07/16/2009		Done	07/15/2009
ISSUE PERMIT	07/15/2009	1	07/16/2009		Issued	07/15/2009

Permitting Application - Permit Detail and Log Permit									
SITE Permit									
Site Name SARASOTA CO CENTRAL COUNTY COMPLEX CLASS I LF (LF1)						Site # 0130542			
County SARASOTA		Comments N		RPAs N		# Cases 0			
Project									
Permit # - - -		Project # 009		Received 12/30/2008		CRA # 329860			
Permit Office SWD (DISTRICT)		Agency Action Pending							
Project Name SARASOTA CO LF GAS SYSTEM		Desc 							
Type/Sub/Des SC / 08		OTHER 		WACS ID 		OGC 			
Logged 01/22/2009		Issued 		Expires 		Application Action NEW			
Fee 1000.00		Fee Recd 1000.00		Dele 		COE # 		Override NONE	
Related Party									
Role APPLICANT		Begin 01/22/2009		End 					
Name COGGINS, FRANK		Company SARASOTA COUNTY							
Address 4000 KNIGHTS TRAIL ROAD									
City NOKOMIS		State FL		Zip 34275 -		Country U.S.A.			
Phone 941-861-1570		Fax 		Email 					
Processors									
Processor MORGAN, S		Active 01/22/2009		Inactive 		Events 			



Cash Receiving Application - Collection Point Log Remittance

CLAREA SWD

Logged Total CRA006A \$1,000.00

Collection Point Log Remittance

Remittance ID 809384 Type * CP Received Date * 12/30/2008 Status RECEIVED
 System Receipt 649175 PNR Check # * 00956105 Amount * 1,000.00
 SSN/FEID Name * SARASOTA COUNTY BOCC
 First Middle Title Suffix
 Address1 SOLID WASTE OPERATIONS
 Address2 4000 KNIGHTS TRAIL ROAD
 City NOKOMIS ST FL Zip 34275
 Country Short Comments 50-40040-007 130542-009

PAYMENT(S)

Payment ID	CL Area	Object Code/Description	Payment Amount	Reference#	Appl	Fund *	Grant *	Status
010000	SWD	002344 SOLID WASTE-CON	\$1,000.00		PA	FFTF		COMPLETE

COMMIT FREQUENTLY

\$1,000.00 Payment Total

Press <TAB> to accept Collection Point or enter F&A



Permitting Application - Permit Detail and Log Permit

SITE Permit

Site Name SARASOTA CO BEE RIDGE CLASS I LF (LF1) Site # 0040049
 County SARASOTA Comments N RPAs N # Cases 0
 Permit # Project # 007 Received 12/30/2008 CRA # 329159
 Permit Office SWD (DISTRICT) Agency Action Pending
 Project Name SARASOTA CO LF GAS SYSTEM Desc Phase 1
 Type/Sub/Des SC / 08 OTHER COE # OGC
 Logged 01/07/2009 Issued Expires Application Action NEW
 Fee 1000.00 Fee Recd 1000.00 Dele Override NONE
 Related Party
 Role APPLICANT Begin 01/07/2009 End
 Name COGGINS, FRANK Company SARASOTA COUNTY
 Address 4000 KNIGHTS TRAIL ROAD
 City NOKOMIS State FL Zip 34275 Country U.S.A.
 Phone 941-861-1570 Fax Email
 Processors
 Processor MORGAN S Active 01/07/2009 Inactive Events

Enter 'Y' if this is the PRIMARY processor.



Brantley, Anna

From: Brantley, Anna
Sent: Wednesday, July 15, 2009 11:26 AM
To: Tedder, Richard; Hornbrook, Frank; Morris, John R.; Moore, Ronni; Commissioner Carolyn Mason; Commissioner Joe Barbetta; Commissioner Jon Thaxton; Commissioner Nora Patterson; Commissioner Shannon Staub; County Administrator Jim Ley; Representative Darryl E. Rouson; Representative Doug Holder; Representative Keith Fitzgerald; Representative Kenneth Roberson; Representative Ron Reagan; Senator Michael Bennett; Senator Nancy Detert
Cc: Morgan, Steve; Pelz, Susan
Subject: Sarasota CCSWDC Phase II Construction 130542-009-SC-08 NOP dated and mailed 7-15-2009.pdf - Adobe Acrobat Professional
Attachments: Sarasota CCSWDC Phase II Construction 130542-009-SC-08 NOP dated and mailed 7-15-2009

Please find attached an electronic copy of the Issued Final Permit for Sarasota CCSWDC Phase II Construction "Permit #130542-009-SC/08" dated and mailed 7-15-2009.

Anna

Anna Brantley
Administrative Assistant II
FL DEP / SWD / Waste Managment
13051 North Telecom Parkway
Temple Terrace FL 33637-0629
Tel: 813/632-7600, Ext. 377
Fax: 813/632-7664
anna.brantley@dep.state.fl.us

Memorandum

Florida Department of Environmental Protection

PERMIT COVER MEMO

TO: X Deborah A. Getzoff, District Director

FROM/THROUGH:

William Kutash

Susan Pelz, P.E.

Steve Morgan

ENVIRONMENTAL ADMINISTRATOR

SOLID WASTE MANAGER

SOLID WASTE PERMITTING

DATE: July 14, 2009

FILE NAME: Sarasota CCSWDC Phase I Gas Collection
and Control System Construction

PERMIT #: 130542-009-SC/08
COUNTY : Sarasota

PROGRAM : Solid Waste

TYPE OF PERMIT ACTION: ISSUE FINAL PERMIT

PERMIT SUMMARY: This permit application is for construction of a landfill gas collection and control system for Phase I of the existing Sarasota CCSWDC Class I Landfill. An Intent to Issue was sent to the applicant on 6/18/09. Proof of Publication of Notice of Proposed Agency Action was received on July 1, 2009. No third-party petitions filed.

PROFESSIONAL RECOMMENDATION: X APPROVE DENY

EVALUATION SUMMARY: The applicant has provided sufficient information to demonstrate compliance with Department rules to allow issuance of the permit.

TIH= 196; TTP=113 (to 07/14/09)		TTP
Application rec'd	12/30/08	
RAI #1 sent	01/29/09	30
RAI #1 response rec'd	03/26/09	
Supplemental information rec'd	04/22/09	
Application complete	03/26/09	
Intent to Issue to applicant	06/11/09	82
Proof of publication rec'd	07/01/09	
Final Permit routed for signature	07/14/09	1

DAY 90/30 FOR THIS ACTION IS: Day 90 = 07-21-09

7008 0150 0003 4894 2128

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
 (Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com®

OFFICIAL USE

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	

Mailed
7-15-09
 Postmark
 Here

Total Postage

Sent To
 Street, Apt. No.
 or PO Box No.
 City, State, ZIP

Sarasota County Solid Waste Operations
 c/o Mr. Frank Coggins, Manager
 4000 Knights Trail Road
 Nokomis, FL 34275

PS Form 3800, August 2006

See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Sarasota County Solid Waste Operations
 c/o Mr. Frank Coggins, Manager
 4000 Knights Trail Road
 Nokomis, FL 34275

ISSUER PERMIT #130542-009-SC/PS
 Sarasota CC SW DC Phase 1 Gas

2. Article Number

(Transfer from service label)

7008 0150 0003 4894 2128

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

COMPLETE THIS SECTION ON DELIVERY

A. Signature

Nancy L. Miller ☐ Agent ☒ Addressee

B. Received by (Printed Name)

C. Date of Delivery

Nancy L. Miller *7-16-09*

D. Is delivery address different from item 1? ☐ Yes
 If YES, enter delivery address below: ☒ No

3. Service Type

☒ Certified Mail ☐ Express Mail
☐ Registered ☒ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

☐ Yes



Florida Department of Environmental Protection

Southwest District Office
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

CERTIFIED MAIL #7008 0150 0003 4894 2128
RETURN RECEIPT REQUESTED

July 15, 2009

NOTICE OF PERMIT

Sarasota County Solid Waste Operations
c/o Mr. Frank Coggins, Manager
4000 Knights Trail Road
Nokomis, Fl. 34275

Re: Central County Solid Waste Disposal Complex (CCSWDC)
Phase I Gas Collection and Control System Construction
Permit No.: 130542-009-SC/08, Sarasota County

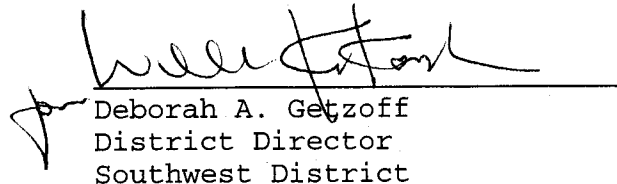
Dear Mr. Coggins:

Enclosed is permit number 130542-009-SC/08, issued pursuant to
Section(s) 403.087(1), Florida Statutes.

Any party to this Order (permit) has the right to seek judicial
review of the Order pursuant to Section 120.68, Florida Statutes, by
the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules
of Appellate Procedure, with the Clerk of the Department in the Office
of General Counsel, 3900 Commonwealth Blvd., Mail Station 35,
Tallahassee, 32399-3000; and by filing a copy of the Notice of Appeal
accompanied by the applicable filing fees with the appropriate
District Court of Appeal. The Notice of Appeal must be filed within
30 days from the date this Notice is filed with the Clerk of the
Department.

Executed in Hillsborough County, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION


Deborah A. Getzoff
District Director
Southwest District

CERTIFICATE OF SERVICE

This undersigned duly designated deputy clerk hereby certifies that this NOTICE OF PERMIT and all copies were mailed or transmitted electronically to the addressee and the listed persons before the close of business on July 15, 2009 to the listed persons.

Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED,
on this date, pursuant to
Section 120.52(11), Florida
Statutes, with the designated
Department Clerk, receipt of
which is hereby acknowledged.

Carle Brantly
(Clerk)

7/15/2009
(Date)

DAG/sgm

Attachments

Copies furnished to:

Sarasota County Elected Officials Notification
Carlo Lebron, P.E., HDR Engineering, Inc., carlo.lebron@hdrinc.com
Richard Tedder, FDEP Tallahassee, (e-mail)
Frank Hornbrook, FDEP, Tallahassee, (e-mail)
John Morris, P.G., FDEP Tampa (e-mail)
Ronni Moore, OGC Tallahassee (e-mail)
Susan Pelz, P.E., FDEP Tampa (e-mail)



Florida Department of Environmental Protection

Southwest District
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926
Telephone: 813-632-7600

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

PERMITTEE

Sarasota County
Solid Waste Operations
Mr. Frank Coggins, Manager
4000 Knights Trail Road
Nokomis, Florida 34275

PERMIT/CERTIFICATION

WACS ID No: SWD/58/51614
Permit No: **130542-009-SC/08**
Date of Issue: **07/15/2009**
Expiration Date: **07/15/2014**
County: Sarasota
Lat/Long: 27°12'6.57"N
82°23'34.07"W
Sec/Town/Rge: 3/38S/19E
Project: Central County Solid Waste
Disposal Complex (CCSWDC),
Phase I Gas Collection/Control
System Construction

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule(s) 62-4, 62-302, 62-330, 62-520, 62-522, 62-550, and 62-701. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans and other documents, attached hereto or referenced in Specific Condition #A.2., and made a part hereof and specifically described as follows:

To **construct** a landfill gas collection and control system for an existing Class I landfill, referred to as the Central County Solid Waste Disposal Complex (CCSWDC), Class I Landfill (Phase I), subject to the specific and general conditions attached, **located at the north end of Knights Trail Road, 2 miles east of I-75, northeast of Venice, Sarasota County, Florida.** The specific conditions attached are for the construction of:

1. A landfill gas collection and control system.

General information:

Phases I Gas extraction system	70 vertical extraction wells (6-inch slotted PVC pipe), below-grade lateral and header pipelines w/3 condensate knockout pots, 2 condensate sumps (S-2 & S-3) and 3 condensate u-traps (U-1 to U-3). System is also connected to 3 existing leachate cleanouts on south and north sides of Phase I for condensate drainage to existing leachate collection system. Landfill gas conveyed from Phase I via gas transmission line to landfill gas control unit located south of future Phase 3. Transmission line condensate gravity drains to 3 condensate sumps (S-4 to S-6). [ref. Sp. Cond. #A.2.a.(3), Sheets C-03 & C-05]
Gas processing system	Gas inlet from gas extraction system, knockout pot, 2 blowers, vertical candlestick flare unit. Condensate collected at knock down pot, blowers and flare drained via a 2" HDPE gravity drain line to condensate sump S-6. [ref. Sp. Cond. #A.2.a.(3), Sheet C-06]

Replaces Permit No.: N/A, new permit

This permit contains compliance items summarized in **Attachment 1** that shall be complied with and submitted to the Department by the dates noted. If the compliance dates are not met and submittals are not received by the Department on the dates noted, enforcement action may be initiated to assure compliance with the conditions of this permit.

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.161, 403.727, or 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of rights, nor any infringement of federal, State, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, are required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:
 - (a) Have access to and copy any records that must be kept under conditions of the permit;
 - (b) Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
 - (c) Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

GENERAL CONDITIONS:

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

(a) A description of and cause of noncompliance; and

(b) The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

11. This permit is transferable only upon Department approval in accordance with Rule 62-4.120 and 62-730.300, Florida Administrative Code, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. This permit also constitutes:

(a) Determination of Best Available Control Technology (BACT)

(b) Determination of Prevention of Significant Deterioration (PSD)

(c) Certification of compliance with State Water Quality Standards (Section 401, PL 92-500)

(d) Compliance with New Source Performance Standards

GENERAL CONDITIONS:

14. The permittee shall comply with the following:

(a) Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.

(b) The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.

(c) Records of monitoring information shall include:

1. the date, exact place, and time of sampling or measurements;
2. the person responsible for performing the sampling or measurements;
3. the dates analyses were performed;
4. the person responsible for performing the analyses;
5. the analytical techniques or methods used;
6. the results of such analyses.

15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware the relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

SPECIFIC CONDITIONS: PART A -Solid Waste Facility General Requirements

1. **Facility Designation.** This gas control system is designed to recover combustible gas and shall be constructed, operated, closed, monitored and maintained in accordance with all applicable requirements of Chapters 62-4, 62-302, 62-330, 62-520, 62-522, 62-550, and 62-701, Florida Administrative Code (F.A.C.) and all applicable requirements of Department rules.

2. **Permit Application Documentation.** This permit is valid for **construction** of a gas collection and control system for existing Central County Solid Waste Disposal Complex (CCSWDC), Class I Landfill (Phase I), in accordance with all applicable requirements of Department rules and in accordance with the reports, plans and other information prepared by HDR Engineering, Inc. (unless otherwise specified) as follows:

a. Central County Solid Waste Disposal Complex Class I Landfill Phase I Gas Collection and Control System Construction and Operation Permit Application (3-ring binder & plan set) dated December 29, 2008 (received December 30, 2008), as revised, replaced or amended (information collated into originals*) dated March 13, 2009 (received March 26, 2009) and dated April 20, 2009 (received April 22, 2009). This information includes, but is not limited to:

- 1) Section 2 - *Engineering Report*;
- 2) Section 4 - *Specifications*; and
- 3) Plan Sheets titled, Permit Drawings for Central County Solid Waste Disposal Complex, Sarasota County Phase I Gas Collection and Control System... (17 Sheets) signed and sealed April 20, 2009 (received April 22, 2009).

3. **Permit Modifications.**

a. Any construction, operation or other activities not previously approved as part of this permit shall require a separate Department permit unless the Department determines a permit modification to be more appropriate, or unless otherwise approved in writing by the Department. Any significant changes to the construction or operation at the facility shall require a permit modification. Permits shall be modified in accordance with the requirements of Rule 62-4.080, F.A.C. A modification which is reasonably expected to lead to substantially different environmental impacts which require a detailed review by the Department is considered a substantial modification.

b. This permit authorizes the construction of the **Phase I** gas collection and control system and other related appurtenances, only.

4. **Permit Renewal.** On or before **January 1, 2014** the permittee shall notify the Department in writing or electronically of its intent to apply for renewal of this permit and of the anticipated date of submittal of the permit renewal application. **No later than May 1, 2014**, the permittee shall apply for a renewal of a permit on forms and in a manner prescribed by the Department, in order to assure conformance with all applicable Department rules. Permits shall be renewed at least every five years as required by Rule 62-4.090, F.A.C. and Rule 62-701.320(10)(b), F.A.C. In the event that the regulations governing this permitted construction are revised, the permit renewal shall include modification of those specific construction conditions which are affected by the revision of regulations to incorporate those revisions in accordance with Specific Condition A.8.

* see OCULUS for un-collated submittals

SPECIFIC CONDITIONS: PART A -Solid Waste Facility General Requirements

5. **Professional Certification.** Where required by Chapter 471 (P.E.) or Chapter 492 (P.G.), Florida Statutes, applicable portions of permit applications and supporting documents which are submitted to the Department for public record shall be signed and sealed by the professional(s) who prepared or approved them.
6. **General Conditions.** The permittee shall be aware of and operate under the "General Conditions." General Conditions are binding upon the permittee and enforceable pursuant to Chapter 403, Florida Statutes.
7. **Permit Acceptance.** By acceptance of this Permit, the Permittee certifies that he/she has read and understands the obligations imposed by the Specific and General Conditions contained herein and also including date of permit expiration and renewal deadlines. It is a violation of this permit for failure to comply with all conditions and deadlines.
8. **Regulations.** Chapter 62-701, F.A.C., effective May 27, 2001, is incorporated into this permit by reference. In the event that the regulations governing this permitted operation are revised, the Department shall notify the permittee, and the permittee shall request modification of those specific conditions which are affected by the revision of regulations to incorporate those revisions.
9. **Prohibitions.** The prohibitions of Rule 62-701.300, F.A.C., shall not be violated by the activities at this facility.
 - a. In the event that limestone is encountered during excavation or construction activities, the excavation/construction activities shall cease and the Department shall be notified **within 24 hours of discovery**. Written notification shall be submitted **within 7 days of discovery**. The written notification shall include the location, elevation, and extent of limestone noted on a plan sheet, a description of the materials encountered, and a plan of action which ensures that groundwater will not be adversely affected by the continued construction and operation of the facility. Excavation or construction activities shall not resume in the affected area until the Department-approved plan of action has been completed.
 - b. In the event that surface depressions or other occurrences which may be indicative of sinkhole activity or subsurface instability, are discovered on-site, or within 500 feet of the site, the Department shall be notified in accordance with Specific Condition #C.6.b. The written notification shall include a description of the incident, the location and size of the affected area shown on an appropriate plan sheet, and a corrective action plan which describes the actions necessary to prevent the unimpeded discharge of waste or leachate into ground or surface water.
 - c. Open burning of solid waste is prohibited except in accordance with Rule 62-701.300(3) and Chapter 62-256, F.A.C. All fires which require longer than one (1) hour to extinguish must be promptly reported to the Department in accordance with Specific Condition #C.6.b.

SPECIFIC CONDITIONS: PART B - Construction Requirements

1. **Construction.** All significant construction activities shall be approved by the Department prior to initiating work, unless specifically authorized otherwise.

a. This permit authorizes the construction of the gas collection and control system for Phase I of the Class I landfill and related appurtenances only.

2. **Certification of Construction Completion.** All information required by this Specific Condition shall be signed and sealed by a registered professional engineer or land surveyor as appropriate.

a. **Within sixty (60) days** after the specified construction has been completed, the following activities shall be completed and submitted by the permittee for Department approval. Operation of the constructed systems, structures, equipment, etc., shall not be initiated prior to Department approval of the information required by this Specific Condition:

1) The owner or operator shall submit a Certification of Construction Completion, Form 62-701.900(2), signed and sealed by the professional engineer in charge of construction and quality assurance to the Department for approval, and shall arrange for Department representatives to inspect the construction in the company of the permittee, the engineer, and the facility operator.

2) The owner or operator shall submit Record Drawings/Documents showing all changes (i.e., all additions, deletions, revisions to the plans previously approved by the Department including site grades and elevations). The Record Documents shall include, but not be limited, to as-built plans, details and elevations (survey).

3) The owner or operator shall submit a narrative indicating all changes in plans, the cause of the deviations, and certification of the Record Drawings/Documents by the Engineer to the Department.

4) The professional engineer of record shall submit to the Department a final report to verify conformance with the plans and specifications in accordance with Rules 62-701.400(7) and (8), F.A.C.

3. **Record Drawings/Documents.** The Record Drawings/Documents shall include, but not be limited to, the following information:

a. As-built survey of location and elevations along landfill gas header and transmission lines and condensate discharge lines and drain pipes [ref. Spec 02221-3.9.A.];

b. Ground surface elevations and well depths for each of the extraction wells and horizontal collector vertical borings listed on the "Well Schedule" identified on Sheet D-01 of the Construction Drawings [ref. Sp. Cond. #A.2.a.(3)];

c. Copies of photographs documenting all stages of the construction project;

SPECIFIC CONDITIONS: PART B - Construction Requirements

4. **Pre-Construction Meeting Notification.** Department Solid Waste Permitting staff shall be notified **at least one (1) week prior** to all pre-construction meetings. Prior to initiating construction activities, the permittee shall make arrangements for the Engineer of Record to meet on site and discuss all plan changes with Department Solid Waste Permitting Staff. A copy of the minutes from the pre-construction conference shall be submitted to the Department within two (2) weeks of the conference.
5. **Construction Schedule and Progress Report.**
 - a. The Engineer of Record or another qualified professional engineer shall make periodic inspections during construction to ensure that design integrity is maintained.
 - b. An updated construction schedule and progress report shall be submitted to the Department **monthly, by the 15th of each month**. The monthly progress report should be submitted electronically in PDF format or in an appropriately labeled three-ring binder of sufficient size to store the monthly progress reports for the entire project. The monthly progress reports shall include, but not be limited to:
 - 1) A narrative explaining the status (and any delays) of major stages of the construction;
 - 2) A summary of submittals and change order requests;
 - 3) Weekly progress meeting minutes; and
 - 4) Color copies of photographs, which are representative of the typical construction activities for the reporting period, and which show overall views and details of major stages of construction. If digital photographs are taken, a CD-Rom containing the photographs may be submitted in lieu of printed copies.
6. **Construction Tolerances.** Invert elevations of the landfill gas collection and control pipes shall be recorded at a frequency sufficient to demonstrate that the headers and laterals have been constructed to the slopes and grades shown on the drawings and will drain adequately. This information shall be included with the Record Documents.
7. **Laboratory and Field Testing Requirements.** Field and laboratory testing during the construction activities shall be conducted by a qualified testing laboratory.
8. **Construction Quality Assurance.**
 - a. A complete set of construction drawings and shop drawings, which include daily additions, deletions and revisions, shall be maintained on-site at all times for reference.
 - b. Leachate or gas condensate shall not be deposited, injected, dumped, spilled, leaked, or discharged in any manner to the land, surface water or groundwater at any time during the construction activities.
 - c. Unsatisfactory, defective or non-conforming work shall be reported to the Engineer and shall be corrected, or the reasons for not correcting the work shall be recorded and maintained onsite for reference and inspections. Documentation of the corrections or reasons for not correcting the work shall be submitted with the Record Documents required by Specific Conditions #B.3.

SPECIFIC CONDITIONS: PART B - Construction Requirements

(Specific Condition #B.8., cont'd)

d. Excavated refuse shall be loaded and transported to the Class I landfill working face by the end of each working day. No refuse shall be allowed to remain uncovered overnight. The refuse must be removed immediately during any rain event to prevent stormwater from contacting the refuse. [ref. Spec 02221-3.3 A. & B.]

e. The non-perforated PVC laterals, leachate and condensate drain lines, connections to LFG header, and air supply lines, shall be subjected to pressure tests to detect any leaks in the piping. [ref. Spec 15060-3.4]

f. All dewatering liquids shall be managed as leachate.

SPECIFIC CONDITIONS: PART C - Operation Requirements

1. Facility Operation Requirements.

a. The permittee shall operate this facility in accordance with Chapter 62-701, F.A.C., and Operation Permit No. 130542-007-SO-01, (including modifications, if any), or its successors.

b. This permit does not authorize the operation of the Phase I gas collection and control system and other related appurtenances until the following requirements have been completed and submitted by the Permittee, and approved by the Department:

1) Certification of Construction Completion requirements of Specific Conditions #B.2. and #B.3.,

2) Issuance of a permit modification of Operation Permit No. 130542-007-SO-01 or its successor, which authorizes operation of the landfill gas collection and control system and its related appurtenances.

The permittee may temporarily operate the constructed system for up to 180 days to allow for system start-up and operational adjustments while the certification of construction completion submittals and approvals required by this specific condition are completed. The permit shall notify the Department electronically or in writing of the start date for temporary start-up operation of the system.

c. Leachate and/or gas condensate shall not be deposited, injected, dumped, spilled, leaked, or discharged in any manner to soils, surface water or groundwater outside the liner and leachate management systems at any time during the construction or operation of this facility.

2. Facility Personnel. The owner or operator shall provide adequate personnel for constructing, operating, monitoring and maintaining the facility in an orderly, safe, and sanitary manner.

3. Control of Access. Access to, and use of, the facility shall be controlled as required by Rule 62-701.500(5), F.A.C.

4. Monitoring of Waste. Wastes shall be monitored as required by Operation Permit No. 130542-007-SO-01, (including modifications, if any), or its successors.

5. Control of Nuisance Conditions. The owner or operator shall control odors, vectors (mosquitoes, other insects, rodents), and fugitive particulates (dust, smoke) arising from the construction and operation so as to protect the public health and welfare. Such control shall minimize the creation of nuisance conditions on adjoining property. Odors observed by Department personnel upon site inspection, shall constitute a nuisance condition, and the permittee must take immediate corrective action to abate the nuisance.

SPECIFIC CONDITIONS: PART C - Operation Requirements

6. Facility Maintenance and Repair.

a. The site shall be properly maintained including maintenance of access roads to disposal areas, equipment, stormwater and leachate management systems, cover systems and berms, gas monitoring and management systems, surface water monitoring system, and groundwater monitoring system. Erosion and ponded water in disposal areas shall be prevented.

b. In the event of damage to any portion of the landfill site facilities, unauthorized leachate discharges, failure of any portion of the landfill systems (including damaged or dry groundwater monitoring wells), fire, explosion, the development of sinkhole(s) or other subsurface instability at the site, the permittee shall **immediately (within 24 hours)** notify the Department explaining such occurrence and remedial measures to be taken, method to prevent reoccurrence, and time needed for repairs. **Written, detailed notification shall be submitted to the Department within seven (7) days following the occurrence.** Routine maintenance does not require notification but shall be noted on daily reports.

7. Stormwater Management. The site shall have a surface water management system designed, constructed, operated, and maintained to prevent surface water from running on to waste filled areas, and a stormwater runoff control system designed, constructed, operated, and maintained to collect and control stormwater to meet the requirements of Chapter 62-330, F.A.C., and the requirements for management and storage of surface water in accordance with Rule 62-701.500(10), F.A.C., to meet applicable standards of Chapters 62-3, 62-302, and 62-330, F.A.C. The stormwater management system shall be inspected for damage and proper operation daily.

SPECIFIC CONDITIONS: PART D - Recordkeeping

1. **Report Submittals.** Unless otherwise specified, all submittals, notifications, requests for permit modification, reports for compliance with this permit, etc., shall be sent to: Solid Waste Section, Department of Environmental Protection, Southwest District Office, 13051 North Telecom Parkway, Temple Terrace, Florida 33637-0926.
2. **Operation Plan and Operating Record.** Each landfill owner or operator shall have an operational plan which meets the requirements of Rule 62-701.500(2), F.A.C. A copy of the Department approved permit, operational plan, construction reports and record drawings, and supporting information shall be kept at the facility at all times for reference and inspections. Operating records as required by Rule 62-701.500(3), F.A.C., are part of the operations plan, and shall also be maintained at the site.
3. **Waste Records.** The permittee shall maintain all records required by the construction specifications, and this permit on-site, and shall provide copies to the Department upon request, unless specified otherwise.
4. **Financial Assurance.** The permittee shall provide adequate financial assurance for this facility and related appurtenances in accordance with Rule 62-701.630, F.A.C. and Operation Permit No. 130542-007-SO-01 (including modifications, if any), or its successors.

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

1. **Water Quality Monitoring Quality Assurance.** Water quality monitoring shall be conducted as required by Operation Permit No. 130542-007-SO-01 (including modifications, if any), or its successors.

SPECIFIC CONDITIONS: PART F - Landfill Gas Management

1. Landfill Gas - NSPS and Title V Air Requirements.

a. This solid waste permit will meet the statutory requirement to obtain an air construction permit before modifying or constructing a source of air pollution, except for those landfills that are subject to the prevention of significant deterioration (PSD) requirements of Chapter 62-212, F.A.C. Facilities that are subject to the PSD requirements shall obtain an air construction permit from the Bureau of Air Regulation prior to beginning construction or modification pursuant to Rule 62-210.400, F.A.C.

b. The permittee shall comply with any applicable Title V air operation permit application requirements of Chapter 62-213, F.A.C., and 40 CFR 60, Subparts WWW and CC, as adopted by reference at Rule 62-204.800, F.A.C. Title V Permit applications shall be submitted to the District Air Program Administrator or County Air Program Administrator with air permitting authority for the landfill.

c. The permittee shall submit to the Division of Air Resources Management, Department of Environmental Protection, Mail Station 5500, 3900 Commonwealth Blvd., Tallahassee, FL 32399-3000, any amended design capacity report and any Non-Methane Organic Compound (NMOC) emission rate report, as applicable, pursuant to 40 CFR 60.757(a)(3) and (b).

2. Gas Monitoring and Control.

a. Landfill gas shall be monitored to demonstrate compliance with the criteria established in Rule 62-701.530(1)(a), F.A.C. (less than 25% of the lower explosive limit (LEL) for combustible gases in structures and less than 100% of the LEL for combustible gases at or beyond the property boundary).

b. The owner or operator shall control landfill gas after the shutdown of the active landfill gas collection system (i.e., gas is no longer routed to the boiler or the flare). In the event that a passive gas venting system is required the owner or operator shall submit an application for minor permit modification to authorize its construction/operation.

3. Gas Monitoring Locations. Landfill gas monitoring shall be conducted as required by Operation Permit No. 130542-007-SO-01 (including modifications, if any), or its successors.

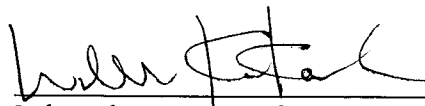
4. Gas Remediation. In the event that the Lower Explosive Limit (LEL) is greater than 25% inside structures both on and off of the landfill site, or greater than 100% at the property boundary, the owner shall submit to the Department, **within 7 days of detection**, a remediation plan detailing the nature and extent of the problem and the proposed remedy. The remedy shall be completed **within 60 days of detection** unless otherwise approved by the Department.

SPECIFIC CONDITIONS: PART G - Closure and Long-Term Care Requirements

1. **Closure Permit Requirements.** No later than ninety (90) days prior to the date when wastes will no longer be accepted for portions of the landfill which have reached closure design dimensions, the landfill owner or operator shall submit a closure permit application to the Department, in order to assure conformance with all applicable Department rules. A closure permit is required prior to implementing closure related activities.
2. **Final Cover.** Portions of the landfill which have been filled with waste to the extent of designed dimensions shall be closed (shall receive final cover) within 180 days after reaching design dimensions, in accordance with Rule 62-701.500(7)(g), F.A.C. and all applicable requirements of Department rules.
3. **Long-Term Care Requirements.**
 - a. The owner or operator shall perform long-term care for the site in accordance with Rule 62-701.620, F.A.C., and the conditions of Operation Permit No. 130542-007-SO-01 (including modifications, if any), or its successors.
 - b. Long-term care includes, but is not limited to, water quality, leachate and gas monitoring, maintenance of the final cover system, maintenance of the leachate collection and removal system, erosion control, and the prevention of ponding within disposal areas.
4. **Use of Closed Landfill Areas.** Prior to implementation, the owner or operator shall submit a plan for any proposed uses of the closed portions of the landfill to the Department for approval. This plan shall include a description of the proposed use and evaluation of the impact on the existing landfill systems (e.g. final cover, leachate collection, bottom liner), engineering designs, calculations and plans as appropriate, etc. The proposed activity shall not be initiated without prior Department approval, and may require a permit modification or separate permit.

Executed in Hillsborough County, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION


Deborah A. Getzoff
District Director
Southwest District

ATTACHMENT 1

SPECIFIC CONDITION	SUBMITTAL DUE DATE	REQUIRED ITEM
A.4	No later than January 1, 2014	Notification of date of permit renewal application submittal
	No later than May 1, 2014	Submit application for permit renewal
A.9.a.	Within 24 hours of discovery	Notification of sinkholes or subsurface instability
	Within 7 days of verbal notification	Written notification & corrective action plan
B.2.a.	Within 60 days of completion	Submit certification of construction completion, record drawings, etc.
B.4.	At least 1 week prior	Notify of preconstruction meeting
	No later than 2 week after pre-construction meeting	Submit meeting minutes
B.5.b.	Monthly, by the 15 th each month	Submit monthly progress report & schedule
C.6.b.	Within 24 hours of discovery	Notification of: sinkholes, failure of landfill systems or equipment, etc.
	Within 7 days of verbal notification	Written notification & corrective action plan

Morgan, Steve

From: Barker, Ashley V. [Ashley.Barker@hdrinc.com]
Sent: Wednesday, July 01, 2009 10:05 AM
To: Morgan, Steve
Cc: btavares@scgov.net; Lebron, Carlo
Subject: Sarasota CCSWDC - Proof of Publication
Attachments: 2266_001.pdf

Good morning Steve,

The Sarasota Central County Solid Waste Disposal Complex has published the Notice of Proposed Agency Action on Permit Application. Attached is a copy the Affidavit of Publication for the 6/23/09 publication.

Thank you,

Ashley Barker, EI, LEED® AP
Project Engineer

HDR Engineering, Inc.
ONE COMPANY | Many Solutions
200 West Forsyth Street | Suite 800
Jacksonville, FL | 32202-4321
Phone: (904) 598-8941 | Fax: (904) 598-8988

 Think Green - Please do not print this e-mail unless necessary

AFFIDAVIT OF PUBLICATION

SARASOTA HERALD-TRIBUNE
PUBLISHED DAILY
SARASOTA, SARASOTA COUNTY, FLORIDA

STATE OF FLORIDA
COUNTY OF SARASOTA

BEFORE THE UNDERSIGNED AUTHORITY PERSONALLY APPEARED SHARI BRICKLEY, WHO ON OATH SAID SHE IS CLASSIFIED DIRECTOR OF ADVERTISING FOR THE SARASOTA HERALD-TRIBUNE, A DAILY NEWSPAPER PUBLISHED AT SARASOTA, IN SARASOTA COUNTY FLORIDA; AND CIRCULATED IN SARASOTA COUNTY DAILY; THAT THE ATTACHED COPY OF ADVERTISEMENT BEING A NOTICE IN THE MATTER OF:

Legal description documented below:

IN THE COURT WAS PUBLISHED IN THE SARASOTA EDITION OF SAID NEWSPAPER IN THE ISSUES OF:

6/23 1x

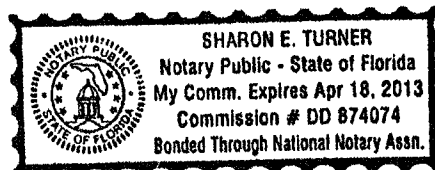
AFFIANT FURTHER SAYS THAT THE SAID SARASOTA HERALD-TRIBUNE IS A NEWSPAPER PUBLISHED AT SARASOTA, IN SAID SARASOTA COUNTY, FLORIDA, AND THAT THE SAID NEWSPAPER HAS THERETOFORE BEEN CONTINUOUSLY PUBLISHED IN SAID SARASOTA COUNTY, FLORIDA, EACH DAY, AND HAS BEEN ENTERED AS SECOND CLASS MAIL MATTER AT THE POST OFFICE IN SARASOTA, IN SAID SARASOTA COUNTY, FLORIDA, FOR A PERIOD OF ONE YEAR NEXT PRECEDING THE FIRST PUBLICATION OF THE ATTACHED COPY OF ADVERTISEMENT; AND AFFIANT FURTHER SAYS THAT SHE HAS NEITHER PAID NOR PROMISED ANY PERSON, FIRM OR CORPORATION ANY DISCOUNT, REBATE, COMMISSION OR REFUND FOR THE PURPOSE OF SECURING THIS ADVERTISEMENT FOR PUBLICATION IN THE SAID NEWSPAPER.

SIGNED

Shari Brickley

SWORN OR AFFIRMED TO, AND SUBSCRIBED BEFORE ME THIS 29th DAY OF June, A.D., 2009
BY SHARI BRICKLEY WHO IS PERSONALLY KNOWN TO ME.

Sharon E. Turner
Notary Public



State of Florida
Department of Environmental Protection
Notice of Proposed Agency Action on
Permit Application

The Department gives notice of its intent to issue a permit (File No. 130542-009-SC/08) to Sarasota County Solid Waste Operations, who applied on December 30, 2008 to the Department of Environmental Protection for a permit to construct a landfill gas collection and control system for Phase I of an existing Class I landfill, referred to as the Central County Solid Waste Disposal Complex, subject to the specific and general conditions attached, located at the north end of Knights Trail Road, 2 miles east of I-75, northeast of Venice, Sarasota County, Florida.

Persons whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below, and must be filed (received) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, within fourteen (14) days of publication of this notice. A copy of the petition must also be mailed at the time of filing to the applicant at the address indicated. Failure to file a request for hearing within this time period shall constitute a waiver any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes. Mediation is not available in this proceeding.

The petition shall contain the following information: (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed; (b) A statement of how and when each petitioner received notice of Department's action, or proposed action; (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action; (d) A statement of the material facts disputed by Petitioner, if any; (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action; and (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of publication of this notice in the Office of General Counsel at the above address of the Department.

Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, Florida Statutes, and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, Florida Administrative Code.

The applications are available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at 13051 North Telecom Parkway, Temple Terrace, Florida 33635-0926.
Date of pub: June 23, 2009

Brantley, Anna

From: Brantley, Anna
Sent: Thursday, June 18, 2009 8:46 AM
To: Tedder, Richard; Hornbrook, Frank; Morris, John R.; Moore, Ronni; Commissioner Carolyn Mason; Commissioner Joe Barbetta; Commissioner Jon Thaxton; Commissioner Nora Patterson; Commissioner Shannon Staub; County Administrator Jim Ley; Representative Darryl E. Rouson; Representative Doug Holder; Representative Keith Fitzgerald; Representative Kenneth Roberson; Representative Ron Reagan; Senator Michael Bennett; Senator Nancy Detert
Cc: Pelz, Susan; Morgan, Steve
Subject: Sarasota CCSWDC Phase I Gas Collection and Control System 130542-009-SC-08 intent to issue - issued 6-18-2009.pdf - Adobe Acrobat Professional
Attachments: Sarasota CCSWDC Phase I Gas Collection and Control System 130542-009-SC-08 intent to issue - issued 6-18-2009

Please find attached electronic copy of the Intent to Issue of Permit to Sarasota County for the Central County Solid Waste Disposal Complex – Permit #130542-009-SC/08 issued and mailed June 18, 2009.

Anna

*Anna Brantley
Administrative Assistant II
FL DEP / SWD / Waste Managment
13051 North Telecom Parkway
Temple Terrace FL 33637-0629
Tel: 813/632-7600, Ext. 377
Fax: 813/632-7664
anna.brantley@dep.state.fl.us*

Memorandum

Florida Department of Environmental Protection

PERMIT COVER MEMO

TO: x Deborah A. Getzoff, District Director

FROM/THROUGH:

William Kutash

Susan Pelz, P.E.

Steve Morgan

ENVIRONMENTAL ADMINISTRATOR

SOLID WASTE MANAGER

SOLID WASTE PERMITTING

DATE: June 11, 2009

FILE NAME: Sarasota CCSWDC Phase I Gas Collection
and Control System Construction

PERMIT #: 130542-009-SC/08
COUNTY : Sarasota

PROGRAM : Solid Waste

TYPE OF PERMIT ACTION: INTENT TO ISSUE PERMIT

PERMIT SUMMARY: This permit application is for construction of a landfill gas collection and control system for Phase I of the existing Sarasota CCSWDC Class I Landfill.

PROFESSIONAL RECOMMENDATION: X APPROVE DENY

EVALUATION SUMMARY: The applicant has provided sufficient information to demonstrate compliance with Department rules to allow issuance of the permit.

TIH= 163; TTP=108 (to 06/11/09)		TTP
Application rec'd	12/30/08	
RAI #1 sent	01/29/09	30
RAI #1 response rec'd	03/26/09	
Supplemental information rec'd	04/22/09	
Application complete	03/26/09	
Intent to Issue routed for signature	06/11/09	78

DAY 90/30 FOR THIS ACTION IS: Day 90 = 06-23-09

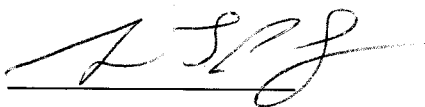
CERTIFICATION

Application #130542-009-SC/08, Sarasota County

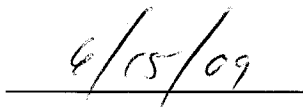
Sarasota Central County Solid Waste Disposal Facility-
Phase I landfill gas extraction system

I hereby certify that the engineering features described in the above-referenced application **provide** reasonable assurance of compliance with applicable provisions of Chapter 403, Florida Statutes, and Chapters 62-701, Florida Administrative Code.

However, I have not evaluated and I do not certify aspects of the proposal outside my area of expertise (including but not limited to the electrical, mechanical and structural features).



Susan J. Pelz, P.E.



date

PE#50835

7008 0150 0003 4893 7667

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Sarasota County
c/o Mr. Frank Coggins
Landfill Manager
4000 Knights Trail Road
Nokomis, FL 34275

PS Form 3800, August 2006

See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

- Complete items 1; 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Sarasota County
c/o Mr. Frank Coggins
Landfill Manager
4000 Knights Trail Road
Nokomis, FL 34275

*Intent To Issue Permit
#130542-009-SC/08*

2. Article Number
(Transfer from service label)

7008 0150 0003 4893 7667

COMPLETE THIS SECTION ON DELIVERY

A. Signature ☐ Agent
☒ *Becky Tavares* ☐ Addressee

B. Received by (Printed Name) C. Date of Delivery

Becky Tavares

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☒ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

**THE STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION**

CERTIFIED MAIL 7008 0150 0003 4893 7667
RETURN RECEIPT REQUESTED

June 18, 2009

In the matter of
Application for Permit by:

Permit No.: 130542-009-SC/08

Sarasota County Solid Waste Operations
Mr. Frank Coggins, Manager
4000 Knights Trail Road
Nokomis, Fl. 34275

INTENT TO ISSUE

The Department of Environmental Protection gives notice of its Intent to Issue a construction permit (copy attached) for the proposed project as detailed in the application specified above, for the reasons stated below.

The applicant, Sarasota County Solid Waste Operations, applied on December 30, 2008 to the Department of Environmental Protection for a permit to construct a landfill gas collection and control system for Phase I of an existing Class I landfill, referred to as the Central County Solid Waste Disposal Complex, subject to the specific and general conditions attached, located at the north end of Knights Trail Road, 2 miles east of I-75, northeast of Venice, Sarasota County, Florida.

The Department has permitting jurisdiction under Sections 403.707 and 403.861, Florida Statutes (F.S.), and Chapters 62-4 and 62-701, Florida Administrative Code (F.A.C.). The project is not exempt from permitting procedures. The Department has determined that a solid waste construction permit is required for the proposed work.

The Department intends to issue this permit based on its belief that reasonable assurances have been provided to indicate that the proposed project will not adversely impact water quality and the proposed project will comply with appropriate provisions of Chapters 62-4 and 62-701, F.A.C., subject to the specific conditions attached in the permit.

Pursuant to Section 403.815, Florida Statutes and Chapters 62-110 and 28-106, F.A.C., you (the applicant) are required to publish at your own expense the enclosed Notice of Proposed Agency Action on Permit Application. The notice must be published one time only within thirty (30) days of receipt of this intent in the legal ad section of a newspaper of general circulation in the area affected. Proof of publication must be provided to the Department within seven (7) days of publication of the notice. Failure to publish the notice and provide proof of publication within the allotted time may result in the denial of the permit. The Department will issue the permit with the attached conditions unless petition for administrative proceeding (hearing) is filed pursuant to the provisions of Sections 120.569 and 120.57, Florida Statutes.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57 of the Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000. Petitions filed by the permit applicant or any of the parties listed below must be filed within fourteen days of receipt of this notice of intent. Petitions filed by

any other person must be filed within fourteen days of publication of the public notice or within fourteen days of receipt of this notice of intent, whichever occurs first. A petitioner must mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition (or a request for mediation, as discussed below) within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57 of the Florida Statutes, or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-5.207 of the Florida Administrative Code.

A petition must contain the following information:

- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number, and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by the petitioner, if any;
- (e) A statement of the facts that the petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (f) A statement identifying the rules or statutes that the petitioner contends require reversal or modification of the Department's action or proposed action; and
- (g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wants the Department to take with respect to the action or proposed action addressed in this notice of intent.

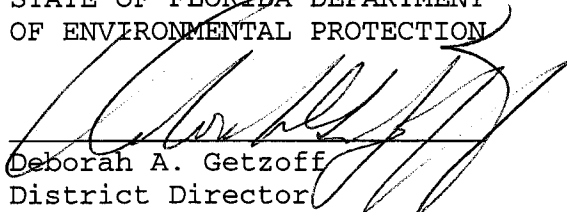
Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice of intent. Persons whose substantial interests will be affected by any such final decision of the Department on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above. Mediation is not available in this proceeding.

Persons whose substantial interests will be affected by such a modified final decision of the Department have a right to petition for a hearing only in accordance with the requirements for such petitions set forth above, and must therefore file their petitions within fourteen days of receipt of this notice of intent.

When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the Clerk of the Department.

Executed in Hillsborough County, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION


Deborah A. Getzoff
District Director
Southwest District

DAG/sgm

Attachments

Copies furnished to:

Sarasota County Elected Officials Notification
Carlo Lebron, P.E., HDR Engineering, Inc., carlo.lebron@hdrinc.com
Richard Tedder, FDEP Tallahassee, (e-mail)
Frank Hornbrook, FDEP, Tallahassee, (e-mail)
John Morris, P.G., FDEP Tampa (e-mail)
Ronni Moore, OGC Tallahassee (e-mail)
Susan Pelz, P.E., FDEP Tampa (e-mail)

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this **NOTICE OF INTENT TO ISSUE** and all copies were mailed or transmitted electronically to the addressee and the listed persons before the close of business on June 18, 2009 to the listed persons.
Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED,
on this date, pursuant to Section
120.52(11), Florida Statutes, with the
designated Department Clerk, receipt of
which is hereby acknowledged.

Anna Brantley
(Clerk)

6-18-09
(Date)

State of Florida
Department of Environmental Protection
Notice of Proposed Agency Action on Permit Application

The Department gives notice of its intent to issue a permit (File No. 130542-009-SC/08) to Sarasota County Solid Waste Operations, who applied on December 30, 2008 to the Department of Environmental Protection for a permit to construct a landfill gas collection and control system for Phase I of an existing Class I landfill, referred to as the Central County Solid Waste Disposal Complex, subject to the specific and general conditions attached, located at the north end of Knights Trail Road, 2 miles east of I-75, northeast of Venice, Sarasota County, Florida.

Persons whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below, and must be filed (received) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, within fourteen (14) days of publication of this notice. A copy of the petition must also be mailed at the time of filing to the applicant at the address indicated. Failure to file a request for hearing within this time period shall constitute a waiver any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes. Mediation is not available in this proceeding.

The petition shall contain the following information; (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed; (b) A statement of how and when each petitioner received notice of Department's action, or proposed action; (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action; (d) A statement of the material facts disputed by Petitioner, if any; (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action; and (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of publication of this notice in the Office of General Counsel at the above address of the Department.

Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, Florida Statutes, and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, Florida Administrative Code.

The applications are available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at 13051 North Telecom Parkway, Temple Terrace, Florida 33635-0926.



Florida Department of Environmental Protection

Southwest District
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926
Telephone: 813-632-7600

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

PERMITTEE

Sarasota County
Solid Waste Operations
Mr. Frank Coggins, Manager
4000 Knights Trail Road
Nokomis, Florida 34275

PERMIT/CERTIFICATION

WACS ID No: SWD/58/51614
Permit No: 130542-009-SC/08
Date of Issue:
Expiration Date:
County: Sarasota
Lat/Long: 27°12'6.57"N
82°23'34.07"W
Sec/Town/Rge: 3/38S/19E
Project: Central County Solid Waste
Disposal Complex (CCSWDC),
Phase I Gas Collection/Control
System Construction

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule(s) 62-4, 62-302, 62-330, 62-520, 62-522, 62-550, and 62-701. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans and other documents, attached hereto or referenced in Specific Condition #A.2., and made a part hereof and specifically described as follows:

To **construct** a landfill gas collection and control system for an existing Class I landfill, referred to as the Central County Solid Waste Disposal Complex (CCSWDC), Class I Landfill (Phase I), subject to the specific and general conditions attached, **located at the north end of Knights Trail Road, 2 miles east of I-75, northeast of Venice, Sarasota County, Florida.** The specific conditions attached are for the construction of:

1. A landfill gas collection and control system.

General information:

Phases I Gas extraction system	70 vertical extraction wells (6-inch slotted PVC pipe), below-grade lateral and header pipelines w/3 condensate knockout pots, 2 condensate sumps (S-2 & S-3) and 3 condensate u-traps (U-1 to U-3). System is also connected to 3 existing leachate cleanouts on south and north sides of Phase I for condensate drainage to existing leachate collection system. Landfill gas conveyed from Phase I via gas transmission line to landfill gas control unit located south of future Phase 3. Transmission line condensate gravity drains to 3 condensate sumps (S-4 to S-6). [ref. Sp. Cond. #A.2.a.(3), Sheets C-03 & C-05]
Gas processing system	Gas inlet from gas extraction system, knockout pot, 2 blowers, vertical candlestick flare unit. Condensate collected at knock down pot, blowers and flare drained via a 2" HDPE gravity drain line to condensate sump S-6. [ref. Sp. Cond. #A.2.a.(3), Sheet C-06]

Replaces Permit No.: N/A, new permit

This permit contains compliance items summarized in **Attachment 1** that shall be complied with and submitted to the Department by the dates noted. If the compliance dates are not met and submittals are not received by the Department on the dates noted, enforcement action may be initiated to assure compliance with the conditions of this permit.

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.161, 403.727, or 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of rights, nor any infringement of federal, State, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, are required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:
 - (a) Have access to and copy any records that must be kept under conditions of the permit;
 - (b) Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
 - (c) Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

GENERAL CONDITIONS:

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

- (a) A description of and cause of noncompliance; and
- (b) The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

11. This permit is transferable only upon Department approval in accordance with Rule 62-4.120 and 62-730.300, Florida Administrative Code, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. This permit also constitutes:

- (a) Determination of Best Available Control Technology (BACT)
- (b) Determination of Prevention of Significant Deterioration (PSD)
- (c) Certification of compliance with State Water Quality Standards (Section 401, PL 92-500)
- (d) Compliance with New Source Performance Standards

GENERAL CONDITIONS:

14. The permittee shall comply with the following:

(a) Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.

(b) The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.

(c) Records of monitoring information shall include:

1. the date, exact place, and time of sampling or measurements;
2. the person responsible for performing the sampling or measurements;
3. the dates analyses were performed;
4. the person responsible for performing the analyses;
5. the analytical techniques or methods used;
6. the results of such analyses.

15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware the relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

SPECIFIC CONDITIONS: PART A -Solid Waste Facility General Requirements

1. **Facility Designation.** This gas control system is designed to recover combustible gas and shall be constructed, operated, closed, monitored and maintained in accordance with all applicable requirements of Chapters 62-4, 62-302, 62-330, 62-520, 62-522, 62-550, and 62-701, Florida Administrative Code (F.A.C.) and all applicable requirements of Department rules.

2. **Permit Application Documentation.** This permit is valid for construction of a gas collection and control system for existing Central County Solid Waste Disposal Complex (CCSWDC), Class I Landfill (Phase I), in accordance with all applicable requirements of Department rules and in accordance with the reports, plans and other information prepared by HDR Engineering, Inc. (unless otherwise specified) as follows:

a. Central County Solid Waste Disposal Complex Class I Landfill Phase I Gas Collection and Control System Construction and Operation Permit Application (3-ring binder & plan set) dated December 29, 2008 (received December 30, 2008), as revised, replaced or amended (information collated into originals*) dated March 13, 2009 (received March 26, 2009) and dated April 20, 2009 (received April 22, 2009). This information includes, but is not limited to:

- 1) Section 2 - *Engineering Report*;
- 2) Section 4 - *Specifications*; and
- 3) Plan Sheets titled, Permit Drawings for Central County Solid Waste Disposal Complex, Sarasota County Phase I Gas Collection and Control System... (17 Sheets) signed and sealed April 20, 2009 (received April 22, 2009).

3. **Permit Modifications.**

a. Any construction, operation or other activities not previously approved as part of this permit shall require a separate Department permit unless the Department determines a permit modification to be more appropriate, or unless otherwise approved in writing by the Department. Any significant changes to the construction or operation at the facility shall require a permit modification. Permits shall be modified in accordance with the requirements of Rule 62-4.080, F.A.C. A modification which is reasonably expected to lead to substantially different environmental impacts which require a detailed review by the Department is considered a substantial modification.

b. This permit authorizes the construction of the **Phase I** gas collection and control system and other related appurtenances, only.

4. **Permit Renewal.** On or before January 1, 2014 the permittee shall notify the Department in writing or electronically of its intent to apply for renewal of this permit and of the anticipated date of submittal of the permit renewal application. No later than May 1, 2014, the permittee shall apply for a renewal of a permit on forms and in a manner prescribed by the Department, in order to assure conformance with all applicable Department rules. Permits shall be renewed at least every five years as required by Rule 62-4.090, F.A.C. and Rule 62-701.320(10)(b), F.A.C. In the event that the regulations governing this permitted construction are revised, the permit renewal shall include modification of those specific construction conditions which are affected by the revision of regulations to incorporate those revisions in accordance with Specific Condition A.8.

* see OCULUS for un-collated submittals

SPECIFIC CONDITIONS: PART A -Solid Waste Facility General Requirements

5. **Professional Certification.** Where required by Chapter 471 (P.E.) or Chapter 492 (P.G.), Florida Statutes, applicable portions of permit applications and supporting documents which are submitted to the Department for public record shall be signed and sealed by the professional(s) who prepared or approved them.
6. **General Conditions.** The permittee shall be aware of and operate under the "General Conditions." General Conditions are binding upon the permittee and enforceable pursuant to Chapter 403, Florida Statutes.
7. **Permit Acceptance.** By acceptance of this Permit, the Permittee certifies that he/she has read and understands the obligations imposed by the Specific and General Conditions contained herein and also including date of permit expiration and renewal deadlines. It is a violation of this permit for failure to comply with all conditions and deadlines.
8. **Regulations.** Chapter 62-701, F.A.C., effective May 27, 2001, is incorporated into this permit by reference. In the event that the regulations governing this permitted operation are revised, the Department shall notify the permittee, and the permittee shall request modification of those specific conditions which are affected by the revision of regulations to incorporate those revisions.
9. **Prohibitions.** The prohibitions of Rule 62-701.300, F.A.C., shall not be violated by the activities at this facility.
- a. In the event that limestone is encountered during excavation or construction activities, the excavation/construction activities shall cease and the Department shall be notified **within 24 hours of discovery**. Written notification shall be submitted **within 7 days of discovery**. The written notification shall include the location, elevation, and extent of limestone noted on a plan sheet, a description of the materials encountered, and a plan of action which ensures that groundwater will not be adversely affected by the continued construction and operation of the facility. Excavation or construction activities shall not resume in the affected area until the Department-approved plan of action has been completed.
- b. In the event that surface depressions or other occurrences which may be indicative of sinkhole activity or subsurface instability, are discovered on-site, or within 500 feet of the site, the Department shall be notified in accordance with Specific Condition #C.6.b. The written notification shall include a description of the incident, the location and size of the affected area shown on an appropriate plan sheet, and a corrective action plan which describes the actions necessary to prevent the unimpeded discharge of waste or leachate into ground or surface water.
- c. Open burning of solid waste is prohibited except in accordance with Rule 62-701.300(3) and Chapter 62-256, F.A.C. All fires which require longer than one (1) hour to extinguish must be promptly reported to the Department in accordance with Specific Condition #C.6.b.

SPECIFIC CONDITIONS: PART B - Construction Requirements

1. **Construction.** All significant construction activities shall be approved by the Department prior to initiating work, unless specifically authorized otherwise.

a. This permit authorizes the construction of the gas collection and control system for Phase I of the Class I landfill and related appurtenances only.

2. **Certification of Construction Completion.** All information required by this Specific Condition shall be signed and sealed by a registered professional engineer or land surveyor as appropriate.

a. **Within sixty (60) days** after the specified construction has been completed, the following activities shall be completed and submitted by the permittee for Department approval. Operation of the constructed systems, structures, equipment, etc., shall not be initiated prior to Department approval of the information required by this Specific Condition:

1) The owner or operator shall submit a Certification of Construction Completion, Form 62-701.900(2), signed and sealed by the professional engineer in charge of construction and quality assurance to the Department for approval, and shall arrange for Department representatives to inspect the construction in the company of the permittee, the engineer, and the facility operator.

2) The owner or operator shall submit Record Drawings/Documents showing all changes (i.e., all additions, deletions, revisions to the plans previously approved by the Department including site grades and elevations). The Record Documents shall include, but not be limited, to as-built plans, details and elevations (survey).

3) The owner or operator shall submit a narrative indicating all changes in plans, the cause of the deviations, and certification of the Record Drawings/Documents by the Engineer to the Department.

4) The professional engineer of record shall submit to the Department a final report to verify conformance with the plans and specifications in accordance with Rules 62-701.400(7) and (8), F.A.C.

3. **Record Drawings/Documents.** The Record Drawings/Documents shall include, but not be limited to, the following information:

a. As-built survey of location and elevations along landfill gas header and transmission lines and condensate discharge lines and drain pipes [ref. Spec 02221-3.9.A.];

b. Ground surface elevations and well depths for each of the extraction wells and horizontal collector vertical borings listed on the "Well Schedule" identified on Sheet D-01 of the Construction Drawings [ref. Sp. Cond. #A.2.a.(3)];

c. Copies of photographs documenting all stages of the construction project;

SPECIFIC CONDITIONS: PART B - Construction Requirements

4. **Pre-Construction Meeting Notification.** Department Solid Waste Permitting staff shall be notified **at least one (1) week prior** to all pre-construction meetings. Prior to initiating construction activities, the permittee shall make arrangements for the Engineer of Record to meet on site and discuss all plan changes with Department Solid Waste Permitting Staff. A copy of the minutes from the pre-construction conference shall be submitted to the Department within two (2) weeks of the conference.
5. **Construction Schedule and Progress Report.**
 - a. The Engineer of Record or another qualified professional engineer shall make periodic inspections during construction to ensure that design integrity is maintained.
 - b. An updated construction schedule and progress report shall be submitted to the Department **monthly, by the 15th of each month**. The monthly progress report should be submitted electronically in PDF format or in an appropriately labeled three-ring binder of sufficient size to store the monthly progress reports for the entire project. The monthly progress reports shall include, but not be limited to:
 - 1) A narrative explaining the status (and any delays) of major stages of the construction;
 - 2) A summary of submittals and change order requests;
 - 3) Weekly progress meeting minutes; and
 - 4) Color copies of photographs, which are representative of the typical construction activities for the reporting period, and which show overall views and details of major stages of construction. If digital photographs are taken, a CD-Rom containing the photographs may be submitted in lieu of printed copies.
6. **Construction Tolerances.** Invert elevations of the landfill gas collection and control pipes shall be recorded at a frequency sufficient to demonstrate that the headers and laterals have been constructed to the slopes and grades shown on the drawings and will drain adequately. This information shall be included with the Record Documents.
7. **Laboratory and Field Testing Requirements.** Field and laboratory testing during the construction activities shall be conducted by a qualified testing laboratory.
8. **Construction Quality Assurance.**
 - a. A complete set of construction drawings and shop drawings, which include daily additions, deletions and revisions, shall be maintained on-site at all times for reference.
 - b. Leachate or gas condensate shall not be deposited, injected, dumped, spilled, leaked, or discharged in any manner to the land, surface water or groundwater at any time during the construction activities.
 - c. Unsatisfactory, defective or non-conforming work shall be reported to the Engineer and shall be corrected, or the reasons for not correcting the work shall be recorded and maintained onsite for reference and inspections. Documentation of the corrections or reasons for not correcting the work shall be submitted with the Record Documents required by Specific Conditions #B.3.

SPECIFIC CONDITIONS: PART B - Construction Requirements

(Specific Condition #B.8., cont'd)

d. Excavated refuse shall be loaded and transported to the Class I landfill working face by the end of each working day. No refuse shall be allowed to remain uncovered overnight. The refuse must be removed immediately during any rain event to prevent stormwater from contacting the refuse. [ref. Spec 02221-3.3 A. & B.]

e. The non-perforated PVC laterals, leachate and condensate drain lines, connections to LFG header, and air supply lines, shall be subjected to pressure tests to detect any leaks in the piping. [ref. Spec 15060-3.4]

f. All dewatering liquids shall be managed as leachate.

DRAFT

SPECIFIC CONDITIONS: PART C - Operation Requirements

1. Facility Operation Requirements.

a. The permittee shall operate this facility in accordance with Chapter 62-701, F.A.C., and Operation Permit No. 130542-007-SO-01, (including modifications, if any), or its successors.

b. This permit does not authorize the operation of the Phase I gas collection and control system and other related appurtenances until the following requirements have been completed and submitted by the Permittee, and approved by the Department:

1) Certification of Construction Completion requirements of Specific Conditions #B.2. and #B.3.,

2) Issuance of a permit modification of Operation Permit No. 130542-007-SO-01 or its successor, which authorizes operation of the landfill gas collection and control system and its related appurtenances.

The permittee may temporarily operate the constructed system for up to 180 days to allow for system start-up and operational adjustments while the certification of construction completion submittals and approvals required by this specific condition are completed. The permit shall notify the Department electronically or in writing of the start date for temporary start-up operation of the system.

c. Leachate and/or gas condensate shall not be deposited, injected, dumped, spilled, leaked, or discharged in any manner to soils, surface water or groundwater outside the liner and leachate management systems at any time during the construction or operation of this facility.

2. Facility Personnel. The owner or operator shall provide adequate personnel for constructing, operating, monitoring and maintaining the facility in an orderly, safe, and sanitary manner.

3. Control of Access. Access to, and use of, the facility shall be controlled as required by Rule 62-701.500(5), F.A.C.

4. Monitoring of Waste. Wastes shall be monitored as required by Operation Permit No. 130542-007-SO-01, (including modifications, if any), or its successors.

5. Control of Nuisance Conditions. The owner or operator shall control odors, vectors (mosquitoes, other insects, rodents), and fugitive particulates (dust, smoke) arising from the construction and operation so as to protect the public health and welfare. Such control shall minimize the creation of nuisance conditions on adjoining property. Odors observed by Department personnel upon site inspection, shall constitute a nuisance condition, and the permittee must take immediate corrective action to abate the nuisance.

SPECIFIC CONDITIONS: PART C - Operation Requirements

6. Facility Maintenance and Repair.

a. The site shall be properly maintained including maintenance of access roads to disposal areas, equipment, stormwater and leachate management systems, cover systems and berms, gas monitoring and management systems, surface water monitoring system, and groundwater monitoring system. Erosion and ponded water in disposal areas shall be prevented.

b. In the event of damage to any portion of the landfill site facilities, unauthorized leachate discharges, failure of any portion of the landfill systems (including damaged or dry groundwater monitoring wells), fire, explosion, the development of sinkhole(s) or other subsurface instability at the site, the permittee shall **immediately (within 24 hours)** notify the Department explaining such occurrence and remedial measures to be taken, method to prevent reoccurrence, and time needed for repairs. **Written, detailed notification shall be submitted to the Department within seven (7) days following the occurrence.** Routine maintenance does not require notification but shall be noted on daily reports.

7. Stormwater Management. The site shall have a surface water management system designed, constructed, operated, and maintained to prevent surface water from running on to waste filled areas, and a stormwater runoff control system designed, constructed, operated, and maintained to collect and control stormwater to meet the requirements of Chapter 62-330, F.A.C., and the requirements for management and storage of surface water in accordance with Rule 62-701.500(10), F.A.C., to meet applicable standards of Chapters 62-3, 62-302, and 62-330, F.A.C. The stormwater management system shall be inspected for damage and proper operation daily.

SPECIFIC CONDITIONS: PART D - Recordkeeping

1. **Report Submittals.** Unless otherwise specified, all submittals, notifications, requests for permit modification, reports for compliance with this permit, etc., shall be sent to: Solid Waste Section, Department of Environmental Protection, Southwest District Office, 13051 North Telecom Parkway, Temple Terrace, Florida 33637-0926.
2. **Operation Plan and Operating Record.** Each landfill owner or operator shall have an operational plan which meets the requirements of Rule 62-701.500(2), F.A.C. A copy of the Department approved permit, operational plan, construction reports and record drawings, and supporting information shall be kept at the facility at all times for reference and inspections. Operating records as required by Rule 62-701.500(3), F.A.C., are part of the operations plan, and shall also be maintained at the site.
3. **Waste Records.** The permittee shall maintain all records required by the construction specifications, and this permit on-site, and shall provide copies to the Department upon request, unless specified otherwise.
4. **Financial Assurance.** The permittee shall provide adequate financial assurance for this facility and related appurtenances in accordance with Rule 62-701.630, F.A.C. and Operation Permit No. 130542-007-SO-01 (including modifications, if any), or its successors.

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

1. **Water Quality Monitoring Quality Assurance.** Water quality monitoring shall be conducted as required by Operation Permit No. 130542-007-SO-01 (including modifications, if any), or its successors.

SPECIFIC CONDITIONS: PART F - Landfill Gas Management

1. Landfill Gas - NSPS and Title V Air Requirements.

a. This solid waste permit will meet the statutory requirement to obtain an air construction permit before modifying or constructing a source of air pollution, except for those landfills that are subject to the prevention of significant deterioration (PSD) requirements of Chapter 62-212, F.A.C. Facilities that are subject to the PSD requirements shall obtain an air construction permit from the Bureau of Air Regulation prior to beginning construction or modification pursuant to Rule 62-210.400, F.A.C.

b. The permittee shall comply with any applicable Title V air operation permit application requirements of Chapter 62-213, F.A.C., and 40 CFR 60, Subparts WWW and CC, as adopted by reference at Rule 62-204.800, F.A.C. Title V Permit applications shall be submitted to the District Air Program Administrator or County Air Program Administrator with air permitting authority for the landfill.

c. The permittee shall submit to the Division of Air Resources Management, Department of Environmental Protection, Mail Station 5500, 3900 Commonwealth Blvd., Tallahassee, FL 32399-3000, any amended design capacity report and any Non-Methane Organic Compound (NMOC) emission rate report, as applicable, pursuant to 40 CFR 60.757(a)(3) and (b).

2. Gas Monitoring and Control.

a. Landfill gas shall be monitored to demonstrate compliance with the criteria established in Rule 62-701.530(1)(a), F.A.C. (less than 25% of the lower explosive limit (LEL) for combustible gases in structures and less than 100% of the LEL for combustible gases at or beyond the property boundary).

b. The owner or operator shall control landfill gas after the shutdown of the active landfill gas collection system (i.e., gas is no longer routed to the boiler or the flare). In the event that a passive gas venting system is required the owner or operator shall submit an application for minor permit modification to authorize its construction/operation.

3. Gas Monitoring Locations. Landfill gas monitoring shall be conducted as required by Operation Permit No. 130542-007-SO-01 (including modifications, if any), or its successors.

4. Gas Remediation. In the event that the Lower Explosive Limit (LEL) is greater than 25% inside structures both on and off of the landfill site, or greater than 100% at the property boundary, the owner shall submit to the Department, **within 7 days of detection**, a remediation plan detailing the nature and extent of the problem and the proposed remedy. The remedy shall be completed **within 60 days of detection** unless otherwise approved by the Department.

SPECIFIC CONDITIONS: PART G - Closure and Long-Term Care Requirements

1. **Closure Permit Requirements.** No later than ninety (90) days prior to the date when wastes will no longer be accepted for portions of the landfill which have reached closure design dimensions, the landfill owner or operator shall submit a closure permit application to the Department, in order to assure conformance with all applicable Department rules. A closure permit is required prior to implementing closure related activities.
2. **Final Cover.** Portions of the landfill which have been filled with waste to the extent of designed dimensions shall be closed (shall receive final cover) within 180 days after reaching design dimensions, in accordance with Rule 62-701.500(7)(g), F.A.C. and all applicable requirements of Department rules.
3. **Long-Term Care Requirements.**
 - a. The owner or operator shall perform long-term care for the site in accordance with Rule 62-701.620, F.A.C., and the conditions of Operation Permit No. 130542-007-SO-01 (including modifications, if any), or its successors.
 - b. Long-term care includes, but is not limited to, water quality, leachate and gas monitoring, maintenance of the final cover system, maintenance of the leachate collection and removal system, erosion control, and the prevention of ponding within disposal areas.
4. **Use of Closed Landfill Areas.** Prior to implementation, the owner or operator shall submit a plan for any proposed uses of the closed portions of the landfill to the Department for approval. This plan shall include a description of the proposed use and evaluation of the impact on the existing landfill systems (e.g. final cover, leachate collection, bottom liner), engineering designs, calculations and plans as appropriate, etc. The proposed activity shall not be initiated without prior Department approval, and may require a permit modification or separate permit.

Executed in Hillsborough County, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

Deborah A. Getzoff
District Director
Southwest District

ATTACHMENT 1

SPECIFIC CONDITION	SUBMITTAL DUE DATE	REQUIRED ITEM
A.4	No later than January 1, 2014 No later than May 1, 2014	Notification of date of permit renewal application submittal Submit application for permit renewal
A.9.a.	Within 24 hours of discovery Within 7 days of verbal notification	Notification of sinkholes or subsurface instability Written notification & corrective action plan
B.2.a.	Within 60 days of completion	Submit certification of construction completion, record drawings, etc.
B.4.	At least 1 week prior No later than 2 week after pre-construction meeting	Notify of preconstruction meeting Submit meeting minutes
B.5.b.	Monthly, by the 15 th each month	Submit monthly progress report & schedule
C.6.b.	Within 24 hours of discovery Within 7 days of verbal notification	Notification of: sinkholes, failure of landfill systems or equipment, etc. Written notification & corrective action plan

Brantley, Anna

To: Wick, Fred; Hornbrook, Frank; Morris, John R.
Cc: Morgan, Steve; Pelz, Susan
Subject: Sarasota CCSWDC CLI LF GAS RAI #1 - 1-29-2009.pdf - Adobe Acrobat Professional
Attachments: Sarasota CCSWDC CLI LF GAS RAI #1 - 1-29-2009



Florida Department of Environmental Protection

Southwest District Office
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

Mr. Frank Coggins, Manager
Sarasota County Solid Waste Operations
4000 Knights Trail Road
Nokomis, Fl. 34275

January 29, 2009

**RE: Central County Solid Waste Disposal Complex, Sarasota County
Phase I Gas Collection and Control System Construction
Pending Permit No.: 130542-009-SO/08
WACS No.: SWD/58/51614**

Dear Mr. Coggins:

This is to acknowledge receipt of the permit application prepared by HDR Engineering, Inc., dated December 29, 2008 (received December 30, 2008), for construction of a landfill gas collection and control system in Phase I of a Class I landfill, at the solid waste management facility referred to as the Central County Solid Waste Disposal Complex.

This letter constitutes notice that a permit will be required for your project pursuant to Chapter(s) 403, Florida Statutes.

Your application for a permit is incomplete. This is the Department's first request for information. Please provide the information listed below promptly. Evaluation of your proposed project will be delayed until all requested information has been received.

GENERAL:

1. The requested information and comments below do not necessarily repeat the information submitted by the applicant. However, every effort has been made to concisely refer to the section, page, drawing detail number, etc. where the information has been presented in the original submittal.

2. Please submit **4 copies** of all requested information. Please specify if revised information is intended to supplement, or replace, previously submitted information. Please submit all revised plans and reports as a complete package. For revisions to the narrative reports, deletions may be struckthrough (~~struckthrough~~) and additions may be shaded ~~shaded~~ or similar notation method. This format will expedite the review process. Please include revision date on all revised pages.

3. Please provide a summary of all revisions to drawings, and indicate the revision on each of the applicable plan sheets. Please use a consistent numbering system for drawings. If new sheets must be added to the original plan set, please use the same numbering system with a prefix or suffix to indicate the sheet was an addition, e.g. Sheet 1A, 1B, P1-A, etc.

4. Please be advised that although some comments do not explicitly request additional information, the intent of all comments shall be to request revised calculations, narrative, technical specifications, QA documentation, plan sheets, clarification to the item, and/or other information as appropriate. **Please be reminded that all calculations must be signed and sealed by the registered professional engineer (or geologist as appropriate) who prepared them.**

The following information is needed in support of the solid waste application [Chapter 62-701, Florida Administrative Code (F.A.C.)]:

1. **Rule 62-701.320(7)(b), F.A.C. Application Form #62-701.900(1), Part B.1:** The narrative in this section indicates that the information provided in this application supports the construction and operation of the proposed gas collection system. Except as indicated in the comments provided below, the Department agrees with this statement. However Parts A.2 and A.3 indicate that this application is only for a permit to construct the gas system and the \$1,000.00 application fee is only for a construction other permit. If the applicant wishes the Department to review and process the information provided in this application for both a permit to construct the gas system and a modification of the existing operation permit to operation the system, please revise Part A.2 to also check the "Operation" box, revise Part A.3 to also check the "Minor Modification" box, and provide an additional \$250.00 application fee with your response to this letter for a minor modification permit application. Otherwise, please revise Part B.2 to indicate that this application is for construction only.

SECTION E - GENERAL REQUIREMENTS (Rule 62-701.320, F.A.C.):

2. **Section E.12:** The applicant entered into a Consent Order with the Department (OGC Case No. 08-1728) on October 8, 2008 and this case is still open. Please revise the narrative in section accordingly.

3. **Section E.13:** Please publish the attached Notice of Application and provide proof of publication to the Department.

SECTION H - LANDFIL CONSTRUCTION REQUIREMENTS (Rule 62-701.400, F.A.C.):

4. **Section H.1:** Phase 2, Cell 1 construction includes the installation of an overlay liner on the western slope of Phase I and operation of Phase 2, Cell 1 includes additional waste disposal on this slope. It therefore does not appear that installation of the side slope trench collection system can be delayed until Phase 2 of the Phase 1 gas collection system construction; that the header pipe system on the west slope will function as designed under the proposed Phase 2 expansion (i.e. Condensate Sump S-1, knockout pots, access points); and that Phase 2 expansion on the west slope of Phase I was considered into design of the side slope trench collection system or the header pipe system on the west slope. Please verify and revise the narrative in this section and all other applicable sections of this application (See additional comments below) to discuss and address these issues.

SECTION H - LANDFILL CONSTRUCTION REQUIREMENTS (Rule 62-701.400, F.A.C.):

5. **Section M.1:** The list of parameters for condensate sampling in this section appears to be inconsistent with the list of parameters for leachate sampling in Specific Condition #E.9.b. of Operation Permit 130542-007-SO/01. Please verify and revise this section, as applicable.

SECTION O - GAS MANAGEMENT SYSTEM (RULE 62-701.520, F.A.C.):

6. **Section 0.1:** Please revise this section to discuss the rationale for the side slope trench collection system design, as applicable.
7. **Section 0.4.d:**
 - a. It would appear that condensate sampling from a condensate sump adjacent to Phase 1 would be more representative of condensate quality than at the condensate sump selected. Please explain the rationale for the proposed sampling location.
 - b. Detail 5 on Sheet D-04 specifies a 6" blind flange access on the condensate sump. Please verify and revise this section and/or Detail 5 on Sheet D-04, as appropriate.

SECTION B - ENGINEERING REPORT (Rule 62-701.320(7)(d), F.A.C.):

8. **Section 2.0:** Please revise this section to discuss the rationale for the use of side slope trench collection system on the west slope of Phase I and address the issues raised in Comment #4 above.
9. **Section 3.0:** Please revise this section to identify the side slope trench collection system as a component of the LFG system, as applicable.
10. **Section 3.1b:**
 - a. Being much more pervious than the gravel layer, it would appear that the use of a geonet may create a preferential pathway for gas above the perforated pipe. Please verify and reevaluate the use of geonet w/geotextile and soil rather geotextile and soil as a barrier between the gravel and bentonite.
 - b. Please revise this section to specify whether the geonet will have geotextile on both sides (i.e. is a double-sided geocomposite).
11. **Section 3.1c:** Please revise this section, as applicable based on your responses to the issues raised in Comment #4 above.
12. **Section 3.3 & Appendix A - Condensate Generation Calculations:** Minimum landfill gas temperatures of 50-60°F have been assumed in condensate generation calculations provided to Department for other landfill gas system projects. Please provide the supporting reference for the assumption that the minimum temperature of landfill gas is 86°F. and/or revise these calculations accordingly.
13. **Appendix A:**
 - a. The calculations and models presented in Appendix A were only reviewed as they relate to the Phase I gas collection system. **This comment is for information purposes only and does not necessarily require a response.**
 - b. Ring Deflection and Wall Buckling: Please provide additional calculations for wall crushing, ring deflection, and wall buckling for the perforated piping in the side slope trench system and for ring deflection and wall buckling for the header piping on the west slope of Phase I, that take into consideration the overburden pressure of the Phase II expansion.

Appendix B - LFG System Design Plans (Rule 62-701.320(7)(f), F.A.C.)

Due to complexity of the propped design and the difficulty in the describing some Department's comments and questions related to these drawings in writing, these drawings will be discussed in detail at the meeting requested at the end of this letter. Please provide revised drawings that address the comments provided below and at the above-referenced meeting, including all necessary details for the construction and operation of the facility. **The drawings will be reviewed in their entirety after the responses to these requests for information are submitted.**

14. Please revise the design plans, as applicable, based on your responses to Comment #4 above.

15. **Sheet C-03:**

a. Detail 5 on Sheet D-04 indicates that the 4" condensate force main go to the leachate lift station, as shown on Sheet C-03. However it is unclear how or where this is shown on this sheet. Please verify and explain and revise this sheet, as applicable.

b. Please explain and clarify the orientation and function of the connection to the leachate cleanout and connection to the existing leachate sump, as depicted on this sheet and detailed on Sheet D-06 and revise this sheet and Sheet D-06, as appropriate.

16. **Sheet C-04:**

a. Please explain the reference to "Remote Wellhead" on this sheet and the reference to the "Side Slope Gas Trench Connection Detail" on Sheet D-03 for these wellheads.

17. **Sheet C-05:**

a. Please verify the orientation of the north arrow on this sheet and revise this sheet, as applicable.

18. **Sheets D-01 through D-06 and D-08:**

a. Please revise the details references for the details on these sheets to reference back to a plan view sheet where the location of the detail is shown.

19. **Sheet D-03:**

a. Detail 3:

1) Please revise the specification of the geotextile to be consistent with the geotextile specification section provided, as applicable (See Comment #23 below).

2) Please verify the apparent reference to a "varied" pipe size on this detail and revise the detail, as appropriate.

SECTION 3 - LFGCCS OPERATIONS AND MAINTENANCE PLAN (RULE 62-701.500, F.A.C.):

20. **Section 6.2:** It is the Department experience that landfill gas very quickly accumulates under a geomembrane final cover system when a gas collection system is turned off and gas is not allowed to vent. This can cause the liner system to displace the soil cover system and bulge (aka landfill whales). Please revise this section to provide procedures for venting of the landfill gas in the event that the system will be shut off for an extended period of time.

21. **CCSWDC Operations Plan - March 2008:** In the event that the applicant wishes to include the minor modification for operation of the gas system in this application (See Comment # 1 above), please revise the Operations Plan as follows:

a. **Table of Contents:** Please revise the Attachment section of the Table of Contents to reference the LFGCCS Operation and Maintenance Plan as an attachment to the Operations Plan.

b. **Section L.2.h.:** Please revise Section L.2.h., as applicable to describe the proposed Phase I gas collection system.

SECTION 4 - Specifications (Rules 62-701.400(3), (7) and (8), F.A.C.)

Please revise the Technical Specifications and/or other referenced application documents, as appropriate, to address the following comments and/or inconsistencies. The Technical Specifications will be reviewed in their entirety after receipt of this information.

22. Please provide a Table of Contents for the Section 4.

23. Please provide Technical Specifications for the geotextile and geocomposite (geonet w/heat bonded geotextile) proposed to be used on this project.

24. Section 02130 - Vertical Extraction Wells:

a. **Part 2.2:** Please revise this part to include the geonet w/geotextile or geotextile to be utilized in the extraction well, as applicable.

b. **Part 3.2.C.13.:** Please verify and revise the geotextile description in this part, as applicable, based on the provided geonet w/geotextile specification section (See Comment #23).

25. Section 02135 - Side Slope Excavation Trenches:

a. **Part 2.2:** Please revise this part to include the geotextile to be utilized in the trench.

26. Section 15060 - Pipe and Pipe Fittings:

a. **Part 3.4.F:** The pressure drop failure criterion in this part appears inconsistent with that provide in Part 3.5.A of this specification section. Please verify and revise accordingly.

SECTION 5 - FINANCIAL RESPONSIBILITY (RULE 62-701.630, F.A.C.):

27. Gas Control: Active Extraction:

a. Please provide the calculations and third-party quotes utilized in support of the unit costs provided in this section.

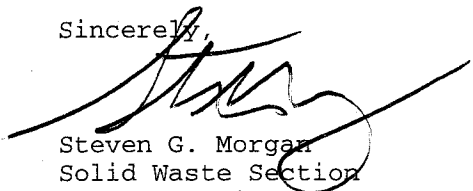
Please provide all responses that relate to engineering for design and operation, including plan sheets, signed and sealed by a professional engineer. Responses that relate to the facility operations should be included as part of the Operation Plan. All replacement pages should be numbered, and with revision date.

This staff assessment is preliminary and is designed to assist in the review of the application prior to final agency action. The comments provided herein are not the final position of the Department and may be subject to revision pursuant to additional information and further review.

Please respond by the date established in the meeting requested above, responding to all of the information requests and indicating when a response to any unanswered questions will be submitted. If the response will require longer than **the date established in the meeting**, you should develop an alternate specific timetable for the submission of the requested information for Department review and consideration. Pursuant to the provisions of Rule 62-4.055(1), F.A.C., if the Department does not receive a timely, complete response to this request for information the Department may issue a final order denying your application. A denial for lack of information or response will be unbiased as to the merits of the application. The applicant may reapply as soon as the requested information is available.

You are requested to submit 4 copies of your response to this letter as one complete package with an original and three copies of all correspondence. Please contact me at (813) 632-7600 ext. 385 the Department to set up a meeting to discuss this letter and subsequent submittals.

Sincerely,



Steven G. Morgan
Solid Waste Section
Southwest District

SM/sgm

Attachments

cc: Carlo Lebron, P.E., HDR Engineering, Inc., carlo.lebron@hdrinc.com
Frank Hornbrook, FDEP, Tallahassee, (e-mail)
John Morris, P.G., FDEP Tampa (e-mail)
Susan Pelz, P.E., FDEP Tampa (e-mail)

62-110.106(5). Notices: General Requirements.

Each person who files an application for a Department permit or other notice as may publish or be required to publish a notice of application or other notice as set forth below in this section. Except as specifically provided otherwise in this paragraph, each person publishing such a notice under this section shall do so at his own expense in the legal advertisements section a newspaper of general circulation (i.e., one that meets the requirements of sections 50.011 and 50.031 of the Florida Statutes) in the county or counties in which the activity will take place or the effects of the Department's proposed action will occur, and shall provide proof of the publication to the Department within seven days of the publication.

62-110.106(6). If required, the notice shall be published by the applicant one time only within fourteen days after a complete application is filed and shall contain the name of the applicant, a brief description of the project and its location, the location of the application file, and the times when it is available for public inspection. The notice shall be prepared by the Department and shall comply with the following format:

**State of Florida
Department of Environmental Protection
Notice of Application**

The Department announces receipt of an application for permit to construct a landfill gas collection and control system, subject to Department rules, at the solid waste management facility referred to as the Sarasota County Central Solid Waste Disposal Complex, located at 4000 Knights Trail Road, Nokomis, Sarasota County, Florida.

This application is being processed and is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at the Department of Environmental Protection, Southwest District Office, 13051 North Telecom Parkway, Temple Terrace, Florida 33637-0926.

Pelz, Susan

From: Pelz, Susan
Sent: Tuesday, November 04, 2008 8:27 AM
To: 'Lebron, Carlo'; Zell, David
Cc: Siemering, Richard; Franklin D. Coggins; Morgan, Steve; Morris, John R.
Subject: RE: meeting minutes

Carlo,

Minor point of clarification-

#15- While the Department does not object to dewatering pumps in all of the wells, we don't necessarily "suggest" them. We have no opinion on whether the County should or should not use them. If they are included in design & not constructed, no mod will be needed. If they are not included in design & later need to be installed, a mod may be required.

If you have any questions, please call or email (email is better).

Susan J. Pelz, P.E.
Solid Waste Program Manager
Southwest District

13051 N. Telecom Parkway
Temple Terrace, FL 33637
813-632-7600 x 386
susan.pelz@dep.state.fl.us

From: Lebron, Carlo [mailto:Carlo.Lebron@hdrinc.com]
Sent: Tuesday, October 28, 2008 6:10 PM
To: Pelz, Susan; Zell, David
Cc: Siemering, Richard; Franklin D. Coggins
Subject: meeting minutes

Susan/David;
Attached are our meeting minutes for your review and comment.
Please let me know if I misunderstood something during our meeting the other week.
Thank you.

Carlo Lebron, PE
Sr. Project Mgr

HDR ONE COMPANY | Many Solutions
200 West Forsyth Street | Suite 800 | Jacksonville, FL | 32202
Direct: 904.598.8928 | Cell: 904-535-4812 | Fax: 904.598.8988

Tracking:

Recipient

'Lebron, Carlo'

Zell, David

Siemering, Richard

Franklin D. Coggins

Morgan, Steve

Morris, John R.

Read

Read: 11/4/2008 8:30 AM

Subject: Central County Solid Waste Disposal Complex Pre-Application Meeting	
Client: Sarasota County	
Project: Landfill Gas Permit Application	Project No: 85237
Meeting Date: October 17, 2008	Meeting Location: FDEP SW District Office
Notes by: Carlo Lebron	

N:\users\Gail\Stationery & Forms\Forms\MeetingNotes.doc

Attendees: See Attached List

Topics Discussed: Solid Waste Application Permit and Air Construction Permit Application

Action/Notes: The following points were discussed and agreed to during the aforementioned meeting.

1. FDEP has no objections with HDR using proposed final grading plan for Phase I.
2. This permit application is only for the construction of Phase I landfill gas collection system (LFGCS).
3. Two sequences of construction for Phase I (the first for wells at elevation 80 and the second for wells on the top deck).
4. The LFGCS in Phase I is sized for the capacity of the current permitted landfill.
5. FDEP has no objections with side slope wells located between the intersection of Phase I and Phase II.
6. The condensate forcemain outside of waste does not have to be dual contained
7. Condensate can be disposed into the leachate collection system, preferably on the north side of the landfill.
8. The FDEP is not concerned about specific orientation or layout of the flare station but more on the certainty that components shown are installed. A note stating what is shown is a general arrangement and actual arrangement may differ.
9. The FDEP requires an air construction permit be prepared for the installation and operation of the flare station. A revision to the Title V permit will be required to include the flare station.
10. No need to show detailed electrical connections. General notes and a description showing connection will be sufficient.
11. FDEP requests design drawings showing how disposal of condensate will take place on the flare station.
12. FDEP requests only upper 2/3 of solid waste column be penetrated with vertical gas extraction wells.
13. HDR must present pipe strength (crush) calculations, specifically crushing based on weight of equipment in Phase II area over side slope wells.
14. HDR to provide clogging calculations for pipe perforation versus non-calcerous stone for side slope wells with permit application.
15. FDEP suggests including dewatering pumps in all wells of the LFGCS design, (if not needed it is okay not to install).
16. FDEP permit application form will be "New construction other".
17. In order to operate the landfill gas collection system we will need to apply for a minor modification to operate. The minor modification can be submitted with the certification report.
18. There will be two separate certification reports based on two separate construction events for the LFGCS.
19. The solid waste permit application should include an updated financial assurance (FA) document. The updated FA will note for item 7 under closing costs passive vents will be for Phase II only and item 8 Active extraction will be for Phase I only.
20. FDEP suggests HDR to reference "Pending" Phase II permit application where appropriate.
21. Provide documentation of methodology Kentucky (KY) pipe uses along with inputs and outputs.

22. The Central County Solid Waste Disposal Complex will need to submit a Title V permit renewal by 10/26/2009. This permit renewal can include information on the flare station.
23. Identify deviations from design on certification form.
24. The FDEP has no apparent issues with the proposed final grades within the top deck of Phase I (e.g., 5 percent cross slopes and 0.5 trench slope).
25. FDEP will allow an exposed geomembrane cover (EGC) along the south side of Phase I as "Temporary Final Cover."
26. The Phase I closure application should reference the "Pending" FDEP LFG permit application where appropriate.



Florida Department of Environmental Protection

Southwest District
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

DATE: OCTOBER 17, 2008 TIME: 1000

LOCATION/CONFERENCE ROOM: #221

SUBJECT: SARASOTA CENTRAL LANDFILL

ATTENDEES

<u>NAME</u>	<u>AFFILIATION</u>	<u>TELEPHONE NUMBER</u>
<u>Susan Pelz</u>	<u>DEP SW</u>	<u>813-632-7600 x386</u>
<u>John Morris</u>	<u>DEP SOLID WASTE SECTION</u>	<u>813-632-7600 x336</u>
<u>David Zell</u>	<u>DEP SWD Air Permitting</u>	<u>" x118</u>
<u>Nancy E. Knight</u>	<u>DEP SWD Air Permitting</u>	<u>" x120</u>
<u>Max Gron Dahl</u>	<u>DEP AIR COMPLIANCE</u>	<u>x116</u>
<u>Carlo Lebron</u>	<u>HDZ ENG</u>	<u>9045988900</u>
<u>Rich Siemerink</u>	<u>MDR</u>	<u>8132622776</u>
<u>Frank Caggins</u>	<u>SARASOTA CEM</u>	<u>941-861-1577</u>

Pelz, Susan

From: Lebron, Carlo [Carlo.Lebon@hdrinc.com]
Sent: Monday, October 13, 2008 8:43 AM
To: Pelz, Susan
Subject: Pre Application Mtg for Sarasota County
Attachments: FDEP Meeting Agenda 10-17 ver sent to FDEP.pdf

Susan,

As requested, attached is the agenda for the pre-application meeting we are scheduled to have with you Friday at 10 am in regards to Sarasota County wanting to install a landfill gas collection system at the Central County Landfill.

I appreciate the Department accommodating our change in the meeting time.

In attendance will be:

Frank Coggins, Sarasota County

Rich Siemering, HDR

Cliff Koenig, HDR

Ashley Barker, HDR

Myself

If you have any questions please feel free to contact me or Cliff Koenig (904-598-8931) at your convenience.

Thanks

Carlo Lebron, PE

Sr. Project Mgr

HDR ONE COMPANY | *Many Solutions*

200 West Forsyth Street | Suite 800 | Jacksonville, FL | 32202

Direct: 904.598.8928 | Cell: 904-535-4812 | Fax: 904.598.8988



CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX

PHASE I GAS COLLECTION AND CONTROL SYSTEM DESIGN

PROJECT PRE-APPLICATION MEETING – OCTOBER 17, 2008, 10:00 AM

AGENDA

- **Brief discussion of site background, current activities, and overall project goals**
- **Discussion of Permit Application Requirements**
 - **FDEP Application Form**
 - **Engineering Report**
 - **Design Calculations**
 - **LFG Design Plans**
 - **Financial Assurance Documents**
 - **Cut Sheets (Necessary??)**
 - **Operations and Maintenance Manuals**
 - **Specifications**
 - **Advertisements**
 - **Additional Information**
- **Discussion of Approach to Gas System Design**
- **Schedule**
- **Miscellaneous Items**



CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX

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- Schedule
- Miscellaneous Items

RICH SUMMERS }
CARLO LEBLANC }
FRANK CORREAS

DINO ZEAL }
NANCY KNIGHT } AIR TREAT.
MAX GRONDEL - AIR COMP.

JEM NOTES
Pg 1/3

10/17/08

SARASOTA CENTRAL LANDFILL - GAS COLLECTION SYSTEM PRE-APPLICATION MEETING

- NSPS THRESHOLD EXCEEDED
- ~~WORKING~~ DURING 2008 WILL BE CRUCIAL FOR IMPLEMENTATION OF GAS RECOVERY (NSPS TIMELINE)
- WILL BE SUBMITTING EARLY - AHEAD OF REQUIRED SCHEDULE (FOR CARBON CREDITS & REVENUE REC'D)
- WILL OPERATE GAS RECOVERY SYSTEM AHEAD OF NSPS DEADLINE, SO WON'T BE REPORTING ALL THE NSPS REQUIREMENTS UNTIL REQUIRED

- IF GAS SYSTEM WILL BE BUILT IN PHASES; ONLY DOING PHASE I NOW, BUT PIPING WILL BE DEVELOPED TO ACCOMMODATE FULL CAPACITY OF PHASES I THROUGH V
- DESIGN DRAWINGS WILL BE BASED ON FINAL FILL RESUME DRAWINGS ELEVATIONS, MIGHT NEED TO BRING UP TO FINAL GRADE & SOIL IF DON'T HAVE WASTE UP TO FINAL ELEVATION WHEN START DOING CONSTRUCTION OF GAS SYSTEM
- TRYING TO INSTALL GAS SYSTEM BEFORE PLACE FINAL COVER/CLAP SYSTEM TO MINIMIZE PENETRATIONS OF CH

- INITIAL SET OF GAS EXHAUSTION DEELS AT 80 FT NEED BENCH
- SECOND PHASE OF GAS EXTRACTION WILL REACH TOP OF FOOTPRINT
- PERMIT APPLICATION WILL INCLUDE BOTH PHASES OF GAS SYSTEM CONSTRUCTION ELEVATIONS IN PHASE I ACHIEVED
- ANTICIPATE FINAL ~~PERMIT~~ IN EARLY 2010

- FLARES ON LEACHATE COLLECTION SYSTEM (EXISTING) WILL BE TAKEN OUT & THE LEACHATE COLLECTION SYSTEM WILL BE CONVERTED TO THE GAS EXTRACTION SYSTEM
- COUNTY HAS PLANS TO USE WASTE ENERGY FROM ENGINES FOR SLUDGE DRYING & BIO-DIESEL PRODUCTION; FLARE SYSTEM TO BE DEVELOPED PRIOR TO ENGINE INSTALLATION WILL BE SIZED FOR PHASE I & II
- FLARE WILL BE SOUTH OF PHASE ~~III~~ III
- CONDENSATE FORCE MAIN MAY RUN ALONG SIDE THE GAS LINE (3 CONDENSATE SUMPS & KNOCK OUT AT FORCE STATION); PLAN TO DRAIN CONDENSATE TO LEACHATE COLLECTION SYSTEM SUMPS FOR PHASE I (FOR FOR ADDITION TO LOW END OF L.C. SYSTEM & ALLOW THEM TO

- CONSISTENT w/ FINAL ELEVATIONS SUBMITTED FOR PHASE I/PHASE II PERMIT

SALISBURY CENTRAL - GAS EXTRACTION SYSTEM PRE-APPLICATION MTE

FLARE STATION -

- INTERESTED IN PATHWAYS/DISCHARGE FROM SYSTEM FROM SUB-COMPONENTS OF FLARE STATION (PIPING, BURNER, FLAME ARRESTOR, ETC. NEED TO BE (CONSTRUCTION-LEVEL DRAWINGS) - IDENTIFICATION OF COMPONENTS IS NOT SO CRITICAL
- DRAWING CAN HAVE NOTATION THAT MATERIALS MAY VARY DEPENDING ON VENDORS SELECTED
- SITE DRAWINGS TO BE SUBMITTED PRIOR TO CONSTRUCTION TO SHOW THE MATERIALS THAT WILL BE INSTALLED

- GAS EXTRACTION IS REQUIRED TO ACCOMMODATE APPROX 2/3 OF WASTE THICKNESS
- BUT SATELLITE IS BETTER TO STAY AWAY FROM LINER SYSTEM
- GAS LINES ~ 3 FT DIA
- WILL LOOK FOR PIPE STRENGTH CLIPS TO HANDLE EQUIPMENT RUNNING OVER TOP OF PIPE
- NEED A CLOGGING CALCULATIONS FOR PERFORATIONS IN GRAVEL PACK
- PNEUMATIC PUMPS WILL BE INSTALLED ON CONDENSATE SUMPS, MAY ALSO BE INSTALLED IN EXHAUSTION WELLS OR, BUT WOULD NEED TO SPEC OUT PUMPS & INCLUDE IN O&S PLAN - EASIER TO INCLUDE DESIGN FOR PUMPS & ~~BE~~ DECIDE TO NOT INSTALL THEM ~~BE~~ DEPENDING ON AMT OF MOISTURE ENCOUNTERED WHEN INSTALL GAS WELLS (OVER PERMIT & UNDER CONSTRUCT IS OTHER)
- EROSION/SEDIMENT CONTROL MEASURES FOR PHASE GAS SYSTEM - ERP QUESTION

ANTICIPATE SUBMITTAL IN MID-NOVEMBER (BOTH SOLID WASTE & AIR APPLICATIONS)

- LOWER TIER / TOP TIER CAN BE CONSTRUCTION (OTHER FOR NEW CONSTRUCTION) (SC/OS)^{#100}
- OPERATION OF GAS EXTRACTION SYSTEM SHOULD BE HANDLED AS MINOR MOD TO O&S PERMIT
- CLOSURE PERMIT FOR PHASE I SLOPS WILL BE SEPARATE (COME IN LATER)
- CERTIFICATION OF LOWER TIER GAS COLLECTION SYSTEM SHOULD BE THE TIME TO SUBMIT THE MINOR MOD FOR GAS PERMIT (WILL NEED 2 MINOR MODS FOR 2 DIFFERENT

FINANCIAL ESTIMATES

- UPDATED ^{FINANCIAL} COSTS REQUIRED FOR ACTIVE RECOVERY FOR PHASE I FOOTPRINT
- PHASE II COSTS WILL STILL REFLECT PASSIVE RECOVERY
- ONCE THE SYSTEM IS CONSTRUCTED & CERTIFIED, THEN CAN REDUCE FINANCIAL ESTIMATES

- CLOSURE (FOR PHASE I) ^{APPLICATION} WILL COME IN AFTER THE CONSTRUCTION PERMIT FOR GAS CONSTRUCTION

- CONSISTENTLY ^{PROVIDING} REFERENCE PERMIT # FOR SUBMITTALS ^{ASSOCIATED W/ CONSTRUCTION PERMIT} TO BE REBOLANCED IN THE CLOSURE APPLICATION TO SIMPLIFY

KENTUCKY PIPE SOFTWARE WILL LIKELY BE USED - HOW TO DOCUMENT?

- WANT TO BE ABLE TO FOLLOW THE ADDRESS PROTOCOL
- NEED REFERENCES/LITERATURE FOR INPUTS TO MODEL

CLOSURE APPLICATION FOR PHASE I

PHASE I WEST SIDE AGAINST PHASE II

PHASE II SOUTH SIDE AGAINST PHASE III

CONSIDER EXPOSED GEOMORPHIC AS TEMPORARY FINAL COVER UNTIL FILL OVER IT LATER - OK?

- YES OR FOR TEMP FINAL COVER USE (NEED SUPPORTING CASE FOR UPLIFT, ETC.)
- IF CALL IT TEMP FINAL COVER THEN DON'T NEED TO GET ACT. PROC. FROM HALL
- TRANSITION BETWEEN SOIL COVER & EXPOSED GEOMORPHIC TO STABILIZE SOIL COVER
- WILL HAVE PIPE SIZE CALCULATIONS FOR HOTTING STIMULATED OFF THE HILL, THE STIMULATED BONDS WERE ADDRESSED BY ERP PERMIT - OK

Sarabeta County gas system

10/17/08

Site is NSPS - ~~have~~ ^{will} trigger 50 megatons in 2009
submittal is not GCCS, but will submit that
later

- not subject to NSPS recordkeeping & monitoring yet

Phased approach -

- Phase I only at this time

- will design for final build out of all Phases
(eg. piping sizes)

want to construct next year so design
based on final design grades for Phase I

- plan is to install gas wells in trees
mostly complete

~~order~~ sequence of gas construction

- 1st step Along lower bench (soft el)

- 2nd step up on top

- 3rd step is closure construction

Exposed geomembrane cover on west slope

they will remove the ^(existing us) Flares & connect them
to gas system

- Flaring can be used to get carbon credits

in the future they want to use UFG for sludge drying
& biodiesel production

Flare will be sized for 15 years capacity (^{Phase I & II})

future use of site \Rightarrow concept is Eco Park

pipeline inside waste 5% slope
outside waste 1% slope

condensate accumulation \Rightarrow ^(need) not double-walled
Phase I connected to LCS sumps (^{DEEP} ^{prefer north side} ^(low end))

Flare stations

- don't want to pick mfg now
 - so design should include list of units that ~~would~~ will be included
 - confirmed docs will have actual mfg info
- An construction permit \Rightarrow to build flare
then modify Title II permit to include flare
~~operation~~ operation

depths of wells - try to get $\frac{2}{3}$ depth of waste

horizontal gas trench -

- \approx 2-3 ft below grade
- clogging cables for horiz pipe & ~~perforated~~ perfs & gravel
- strength cables for horiz pipes

~~if~~ if want to have condensate pumps in wells
better to permit it now if don't need them

then identify it on as-built as not installed
silt fencing \Rightarrow ask ERP

submit in November

new construction "other" \Rightarrow \$1000

operation of system - minor mod to op permit
to operate it

- submit minor mod w/ certification
can certify lower than separate

- as part of construction other
will update financial assurance
to include active system in Phase I

- suggested they not

- pipe sizing \Rightarrow we want to be able to ~~we~~ follow
it through

- give us inputs, outputs, assumptions
& description of how program works

10/26/09 Title II renewal due

How determine date NSPS is triggered?

2010 new source emission report due

they will
return
and then

can generate old report w/ be to see when
report is due based on land use

Sanaseta Phase I closure -

want to do a "temporary" final cover ECC
on south side

- when go to Phase III they will take
it up & build new bottom liner
for vertical expansion

transition zones ~~between~~ between exposed liner
& final cover

stormwater catchers - only for piping to get
water off landfill

**Southwest District
Permitting Application**

New Site

Site Name:
Site ID:
County:
Type/Subcode:
Fee submitted: () correct () incorrect
Total Fee Required \$ _____ Need \$ _____ Refund \$ _____

Existing Site

Site ID: 130542-009
Project Name: 40049-007 SARASOTA CO LF Phase I gas system
Type/Subcode: SC 08 New Modification Renewal
Fee submitted: \$1000 <input checked="" type="checkbox"/> correct () incorrect
Total Fee Required \$ _____ Need \$ _____ Refund \$ _____

Applicant Information

Name: Frank Coggins
Role: Applicant
Company: Sarasota County
Address: ON FILE
City: Zip Code:
Phone:

Fee verified by: PELZ

Application Assigned To: Morgan Date: 1/6/09

Permitting Application - Permit Detail and Log Permit					
SITE Permit					
Site Name		SARASOTA CO SEE RIDGE CLASS I LF (LF1)		Site # 0040049	
County		SARASOTA		Comments N	
		RPAs N		# Cases 0	
Project					
Permit #		Project # 007		Received 12/30/2008	
Permit Office		SWD (DISTRICT)		CRA # 329159	
Project Name		SARASOTA CO LF GAS SYSTEM		Agency Action Pending	
Deso		Phase 1			
Type/Sub/Des		SC / 03 OTHER		WACS ID	
Logged		01/07/2009		OGC	
Issued				Application Action NEW	
Expires					
Fee		1000.00		Fee Recd 1000.00	
Delete				COE #	
				Override NONE	
Related Party					
Role		APPLICANT		Begin 01/07/2009	
Name		COGGINS, FRANK		End	
Company		SARASOTA COUNTY			
Address 4000 KNIGHTS TRAIL ROAD					
City		NOKOMIS		State FL	
Zip		34275		Country U.S.A.	
Phone		941-861-1570		Fax	
Email					
Processors					
Processor		MORGAN, S		Active 01/07/2009	
Inactive				Events	

Attention: Susan Pelz, PE
Solid Waste Program Manager

Date: December 29, 2008 Job No: 87559

To: Florida Department of Environmental Protection
Solid Waste Program – Southwest District
13051 North Telecom Parkway
Temple Terrace, Florida 33637

Phone: 813-632-7600

Regarding: Sarasota County – Central County Solid Waste Disposal Complex

We are sending you: ☒ **Attached** ☐ **Under separate cover via _____ the following items**

☐ Shop drawings ☐ Prints ☒ Plans ☐ Samples ☐ Specifications
☐ Copy of letter ☐ Change Order ☒ Other Binder

Copies	Date	No.	Description
4	Dec 2008		Construction Permit Application for the Ph.1 LFGCCS
4	Dec 2008		Permit Drawings
1	11/19/08	956105	Check for Payment of Application Fee
			Dept. of Environmental Protection
			DEC 30 2008
			Southwest District

These are transmitted as checked below:

- ☒ For approval ☐ Approved as submitted ☐ Resubmit _____ copies for approval
☐ For your use ☐ Approved as noted ☐ Submit _____ copies for distribution
☐ As requested ☐ Returned for corrections ☐ Return _____ corrected prints
☐ For review/comment ☐ Other _____
☐ For bids due _____ ☐ Prints returned after loan to us

Remarks Enclosed are 4 copies of the Construction Permit Application and drawings for the Central County Waste Disposal Complex – Phase 1 Landfill Gas Collection and Control System for your approval. Should you have any questions, please contact Carlo Lebron at 904-598-8928. Thank you.

Copy to Frank Coggins (Sarasota County), Carlo Lebron, PE (HDR), File Signed Ashley Barker, EI

If enclosures are not as noted, please notify us at once

N:\Users\Gail\Stationery & Forms\Forms\Transmittal.doc



SARASOTA COUNTY

"Dedicated to Quality Service"

March 3, 2009

Steven G. Morgan
Solid Waste Section
Florida Department of Environmental Protection
Southwest District
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

Dept. of Environmental
Protection

MAR 06 2009

Southwest District

RE: Central County Solid Waste Disposal Complex, Sarasota County
Pending Permit No.: 130542-009-SO/08
WACS No.: SWD/58/51614

Dear Mr. Morgan:

Pursuant to Rule 62-110.106(5), F.A.C. – Notices: General Requirements

Attached is an Affidavit of Publication from the Sarasota Herald-Tribune on February 24, 2009.

If you have any questions, please do not hesitate to contact me directly at (941) 861-1571,
Cell (941) 650-4160, or email at fcoggins@scgov.net.

Sincerely,

Frank Coggins
Manager, Solid Waste Operations

Attachment

c: Gary Bennett, General Manager, Solid Waste
Frank Hornbrook, FDEP, Tallahassee, FL
Carlo Lebron, P.E., HDR Engineering, Inc., Jacksonville, FL
John Morris, P.G., FDEP, Temple Terrace, FL
Susan Pelz, P.E., FDEP, Temple Terrace, FL

AFFIDAVIT OF PUBLICATION

SARASOTA HERALD-TRIBUNE
PUBLISHED DAILY
SARASOTA, SARASOTA COUNTY, FLORIDA

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
MAR - 6 2008
SOUTHWEST DISTRICT
TAMPA

STATE OF FLORIDA
COUNTY OF SARASOTA

BEFORE THE UNDERSIGNED AUTHORITY PERSONALLY APPEARED SHARI BRICKLEY, WHO ON OATH SAID SHE IS CLASSIFIED DIRECTOR OF ADVERTISING FOR THE SARASOTA HERALD-TRIBUNE, A DAILY NEWSPAPER PUBLISHED AT SARASOTA, IN SARASOTA COUNTY FLORIDA; AND CIRCULATED IN SARASOTA COUNTY DAILY; THAT THE ATTACHED COPY OF ADVERTISEMENT BEING A NOTICE IN THE MATTER OF:

State of Florida Department of Environmental Protection Notice of Application The Department announces receipt of an application for permit to construct a landfill gas collection and control system, subject to Department rules, at the solid waste managem

IN THE COURT WAS PUBLISHED IN THE SARASOTA EDITION OF SAID NEWSPAPER IN THE ISSUES OF:

2/24 1x

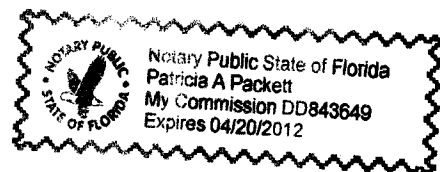
AFFIANT FURTHER SAYS THAT THE SAID SARASOTA HERALD-TRIBUNE IS A NEWSPAPER PUBLISHED AT SARASOTA, IN SAID SARASOTA COUNTY, FLORIDA, AND THAT THE SAID NEWSPAPER HAS THERETOFORE BEEN CONTINUOUSLY PUBLISHED IN SAID SARASOTA COUNTY, FLORIDA, EACH DAY, AND HAS BEEN ENTERED AS SECOND CLASS MAIL MATTER AT THE POST OFFICE IN SARASOTA, IN SAID SARASOTA COUNTY, FLORIDA, FOR A PERIOD OF ONE YEAR NEXT PRECEDING THE FIRST PUBLICATION OF THE ATTACHED COPY OF ADVERTISEMENT; AND AFFIANT FURTHER SAYS THAT SHE HAS NEITHER PAID NOR PROMISED ANY PERSON, FIRM OR CORPORATION ANY DISCOUNT, REBATE, COMMISSION OR REFUND FOR THE PURPOSE OF SECURING THIS ADVERTISEMENT FOR PUBLICATION IN THE SAID NEWSPAPER.

SIGNED

Shari Brickley

SWORN OR AFFIRMED TO, AND SUBSCRIBED BEFORE ME THIS 25 DAY OF Feb, A.D., 20 09
BY SHARI BRICKLEY WHO IS PERSONALLY KNOWN TO ME.

Patricia A. Packett
Notary Public



My commission expires 20 day of April, 20 12

State of Florida
Department of Environmental Protection
Notice of Application

The Department announces receipt of an application for permit to construct a landfill gas collection and control system, subject to Department rules, at the solid waste management facility referred to as the Sarasota County Central Solid Waste Disposal Complex, located at 4000 Knights Trail Road, Nokomis, Sarasota County, Florida.

This application is being processed and is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at the Department of Environmental Protection, Southwest District Office, 13051 North Telecom Parkway, Temple Terrace, Florida 33637-0926.

Pub: February 24, 2009

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
MAR - 6 2008
SOUTHWEST DISTRICT
TAMPA