

# SOURCE

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## ENGINEERS & CONSULTANTS

October 11, 2011

Ms. Fabienne Rambaud  
Municipal Solid Waste Permits Section  
Waste Permits Division  
Texas Commission on Environmental Quality, MC 124  
P.O. Box 13087  
Austin, Texas 78711-3087

Re: EER La Porte Recycling Center – Harris County  
Municipal Solid Waste (MSW) – Registration No. 40257 (pending)  
Registration Application – First Technical Notice of Deficiency (NOD)  
Tracking No. 14696576; RN105981062/CN603538240

Dear Ms. Rimbaud:

On behalf of EER (Texas) Environmental Technologies, Inc., Source Environmental Sciences, Inc. respectfully submits this revised registration application information for the subject facility. This submission is in response to your letter dated July 19, 2011. We are submitting additional information to demonstrate compliance with Title 30 Texas Administrative Code (30 TAC) Chapter 305 and Chapter 330. The information below is necessary for a complete registration application and is addressed in this response.

We have submitted to you an original and two (2) separate copies of the revised pages of the registration application, and we have submitted to the Region 12, TCEQ Houston office, one (1) copy of the revised pages. We have also submitted a "marked-up" copy of the revised pages of the registration application. Each revised page of the registration application is marked to highlight the changes that have been made from the April 2011 application compared to the current application being submitted.

In accordance with 30 TAC 305.44, we have included an original certification statement with the revision.

By this letter, we have responded to each deficiency that was described in your letter. For your convenience when you review the changes we have made to the application, we have provided a written summary of each action step that we performed for each item of your letter. Our response therefore contains each of your numbered discrepancy items followed by a remark in bold type written by us that summarizes the action we took to correct that discrepancy.

Here are the comments in your letter dated July 19, 2011 and our response to each item:

Part I and Part II

1. The Table of Content is missing a page, page vi, and instead has "page v" twice. In



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accordance with 30 TAC Section (§)330.57(g)(3) please provide a complete table of content.

**Response: A complete table of contents which includes the missing page vi is submitted with this response as Exhibit A.**

2. In accordance with 30 TAC §330.57(h)(1), all information contained on a drawing must be legible even if it has been reduced. The following figures are illegible: Figures A1 through, A5, Figure II.D, FEMA Flood Insurance Rate Map of Attachment C, and Figures E1 through E4. Please resubmit legible copies of these drawings and figures.

**Response: Legible copies of the following figures are included in Exhibit B with this response: Figures A1 through A5, Figure II.D, FEMA Flood Insurance Rate Map of Attachment C, and Figures E1 through E4.**

3. In accordance with 30 TAC §330.57(h)(2), color coding on drawings must be distinct when reproduced on a black and white photocopy machine. Figure II.H(1) Published Zoning Map, is not legible after copying in black and white. Please resubmit a legible copy.

**Response: A legible copy of Figure II.H(1) entitled Published Zoning Map has been prepared and is included as Exhibit C.**

4. In accordance with 30 TAC §330.57(h)(4)(B) all drawings must have a bar scale at least one inch long. Please revise the following figures: A2-A7, ID, II.D (2 different scales are present on this drawing), E1-E3.

**Response: Figures A-2 through A-7, I.D, II.D, and Figures E-1 and E-2 have been revised and each now has a bar scale at least one inch long. Figures A-2 through A-7 are in Exhibit B; Figures E-1 and E-2 are in Exhibit B; Figure II.H is in Exhibit C; and Figure I.D is in Exhibit D. Figure II.D has 2 different bar scales for the following reason: a second inset figure with its own separate bar scale is included in Figure II.D to provide details on the curb construction specifications typical for the waste storage area. Figure E-3 entitled "Port Central SWQ Improvements, 10845 Strang Road, La Porte, Tx 77571" consists of five (5) diagrams illustrating plan views and cross sections with dimensions, construction materials, and other information about the storm water sewer grates, foundation, bedding, and backfill. As indicated in the captions to each diagram, these diagrams are not to scale; therefore, there are no bar scales shown in the diagrams.**

5. In accordance with 30 TAC §330.57(h)(5)(A) all drawings must have a north arrow. Please revise figures ID and FEMA Flood Insurance Rate Map of Attachment C.

**Response: The FEMA Flood Insurance Rate Map in Exhibit B and Figure I.D in Exhibit D have been revised so that each has a north arrow.**

### Part III.B: General Facility Design

6. Section 2.E, page III-7, states “the slab under the Plasma Gasification Melting...will be determined during the detailed design phase of the project.” In accordance with 30 TAC §330.63(b)(E), please provide this information at this time.

**Response:** Section 2.E, page III-7, has been revised to include design information for the slab under the Plasma Gasification Melting vessel and the Thermal Residence Chamber. In accordance with 30 TAC 330.63(b)(E) which states that “generalized construction details of slab and subsurface supports of all storage and processing components” must be provided in the application, Figure II.G(3) and Figure II.G(4) in Exhibit F show the generalized foundation plan for the storage area and the Plasma Gasification Melting reactors, and Figure II.G(5), in Exhibit F shows a cross-section section of the slab. As per our discussion with Ms. Rambaud, the description and drawing of the foundation design in the application is a generalized construction detail of slab and subsurface supports of the Plasma Gasification Melting vessel and the Thermal Residence Chamber.

7. Section 2.F, page III-7 states “The medical waste and processing components are stored in the enclosed building. Therefore, there are no containment dikes for waste storage or processing components. Loading and unloading areas will be contained with a 6 inch curb.” It appears that the location of the loading and unloading areas are not clearly depicted on the schematic view drawing of the facility, note as Figure II.D, and the engineering design of all walls proposed to enclose all storage and processing components has not been discussed. In accordance with 30 TAC §330.63(b)(2)(F) the owner or operator shall submit documentation of the location and engineering design detail of all containment dikes or walls (with indicated freeboard) proposed to enclose all storage and processing components and all loading and unloading areas. Please provide engineering design of all walls proposed to enclosed all storage and processing components and the location and containment curb for all loading and unloading areas as required by 30 TAC §330.63(b)(2)(F). Please revise the application throughout for consistency.

**Response:** There are no containment dikes or walls to enclose waste storage and processing components. The medical waste and processing components are stored in the enclosed building. Figure II.D shows the loading/unloading area and the curb to the waste receiving area within the enclosed building. In addition, Figure II.D shows a detail drawing of the curb (as an inset, highlighted as a “ballooned” area on the left side of the figure, with its own separate bar scale and labeled as II.D. B). Because any liquids on the floor would result only from accidental spills or wash downs of the floor, which will be minimal, the 6 inch curb will be sufficient. Therefore, there are no engineering designs of any walls because no walls are proposed to enclose all storage and processing components. The application has been revised throughout for consistency with these aspects of the facility design.

### Part IV, Site Operating Plan

8. Section 4, page IV-6, states “the facility operator will collect wastewater used for cleaning of solid waste facilities through floor drains in the medical waste processing facility. The building drainage will be directed toward a 500-gallon sump to capture any water from the concrete wash

down area. Contaminated wash waters will be collected and sent off to an authorized facility.” In accordance with 30TAC §330.297, §330.63(b)(2)(F), and §330.63(d)(1)(B), please provide design specifications for the area where the contaminated water will be held and for secondary containment.

**Response:** Design specifications for the area where the contaminated water will be held and for secondary containment are now provided in Section 4, page IV-6. Figure E-1 shows the drainage flow of wastewater within the building. The water drainage system in the building used to extract the wastewater from the enclosed area will be collected by drains in the floor of the processing area, conveyed by a system of buried piping to a completely enclosed 500 gallon sump [referred to as the Process Holding Concentration Box (PHCB) in Figure E-1], and then discharged from the PHCB to a pipe that conveys the wastewater to the City of La Porte wastewater treatment plant. The 500 gallon sump is shown in Figure E-1 and is identified as D2, located just beneath D1, a surface drainage point. From the 500 gallon sump, water flows through the completely enclosed system to the City of La Porte wastewater treatment plant, an authorized permitted wastewater treatment facility.

9. Section 8, page IV-8 states “An adequate supply of water under pressure is provided by the private water well. Firefighting equipment is readily available, and a standard water hose is located inside the facility building and available for fire protection.” In accordance with 30 TAC §330.221(a) an adequate water supply under pressure must be made available for firefighting purposes. Please note that this statement does not clearly indicate whether the facility has adequate water supply under pressure to fight fires. Please provide the water flow on the well and indicate if the facility has adequate water supply under pressure to fight fires as required in 30 TAC §330.221(a).

**Response:** The process water and firewater tank, which were actually noted on the right side of drawing II.D, is the source for the process and firefighting water stream. The well on the property will serve only as makeup to the tank as needed. We currently estimate the process and firefighting water tank to have a volume of 63,000 gallons which will be physically split in half within the tank so the fire fighting water cannot be used by the process. The physical division of the tank into two is so that the tank will keep water used for fire fighting physically separate from the water used in the process.

This design for the tank is based on the experience EER has had in the Israeli I'blin plant which is of the same hourly waste treatment capacity. The Israeli plant water tank has a volume of 48,000 gallons. It was decided to increase the volume of the proposed La Porte plant to 63,000 gallons to be on the conservative side. The fire fighting pumps, also indicated on the right side of II.D, will be designed to provide a water pressure of 60 psig. Experience indicates that this is more than adequate. A volume of 63,000 gallons and a pressure of 60 psig has proven more than adequate for facilities in Israel and complies with EU regulations.

**Exhibit F to this response is a statement signed and sealed by a licensed Texas Professional Engineer stating that the water is adequate for fire fighting on the EER La Porte Recycling Facility.**

10. Section 18, page IV-13, Sanitation (30 TAC §330.243) and Employee Sanitation Facilities (30 TAC §330.249): Please clarify the text to explicitly state that wash waters cannot be discharged to the septic system and add a description of the facilities available to employees, in accordance with 30 TAC §330.249 that requires that potable water and sanitary facilities be provided for all employees and visitors.

**Response: We have clarified the text in Section 18, page IV-13 to explicitly state that wash waters cannot be discharged to the septic system. The septic system is designed and used to collect only domestic waste originating in the facility. In addition, we have added a description of the facilities available to employees, in accordance with 30 TAC §330.249.**

**The EER La Porte Recycling Center will provide potable water from the City of La Porte water supply system to all facility employees and visitors. The facility is equipped with sanitary facilities (sinks and toilets) to accommodate 10 people per shift, 30 people per day. All facility employees and visitors will have access to sanitation facilities at the EER La Porte Recycling Center.**

Close: Our response package also includes a certification statement (Page 10, Signature Page, of TCEQ Form 0650) that indicates the name, title, and address of the responsible official, that is signed by the responsible official, and that is notarized. This is included in Exhibit G.

We wish to thank you for your assistance and patience during the review and preparation of this response. Should you have any comments or questions, I hope you will contact me and I guarantee that I will respond without delay.

Sincerely yours,



George Chandlee  
Senior Consultant

Source Environmental Sciences, Inc.

Email: [george@source-environmental.com](mailto:george@source-environmental.com)

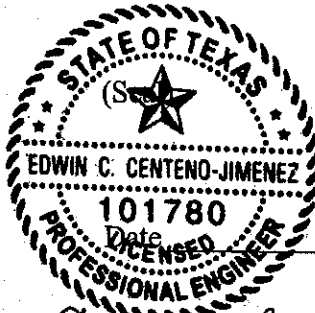
cc: L. Dor, Environmental Technologies, Inc. (EER), CTO and Technical Director, 7 Jabotinski St., Ramat-Gan, Israel  
D. Gossman-Vitory, Project Engineer, Environmental Energy Resources, 7 Jabotinski St., Ramat-Gan, Israel  
J. Kauachi, Vice President Business Development, Environmental Technologies, Inc., (EER, Texas), Attn. 1674 Luckenback-Cain City Rd., Fredericksburg, Texas 78624-4949

**Exhibit A**

**Complete Table of Contents for EER La Porte Recycling Center  
Municipal Solid Waste Registration Application**

**EER LA PORTE RECYCLING CENTER  
NEW REGISTRATION APPLICATION FOR MSW FACILITY**

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*Edwin C. Centeno-Jimenez*  
Registered P.E.: Edwin Centeno,, P.E. 3  
Registration No. 101780 State Texas  
Source Environmental Sciences, Inc.  
Firm Registration No. F-13211

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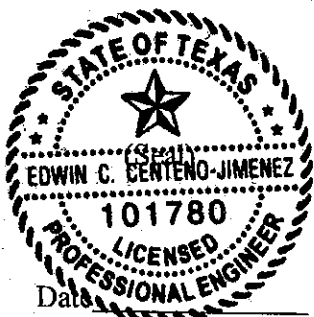
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10-11-2011

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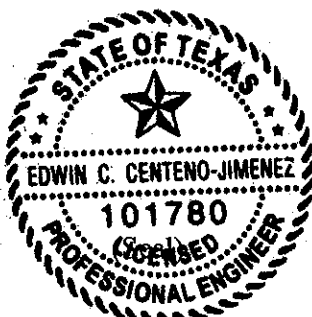
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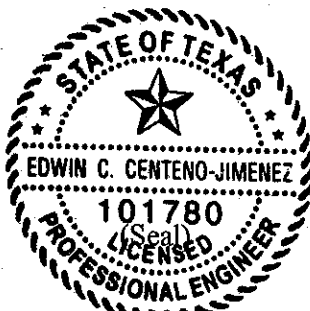


Date 10-11-2011

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Source Environmental Sciences Inc.  
Firm Registration No. F-13211

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Date 10-11-2011

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## EER LA PORTE RECYCLING CENTER REGISTRATION APPLICATION FOR MSW FACILITY

### LIST OF FIGURES (ATTACHMENT A)

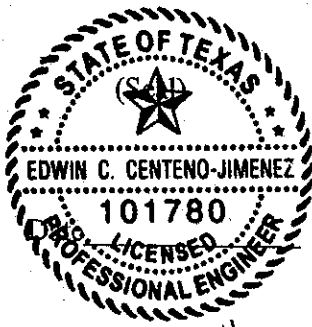
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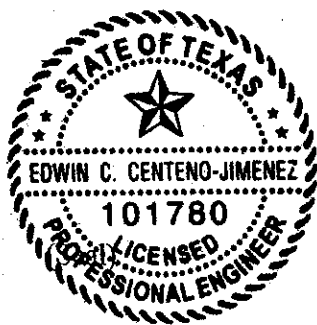
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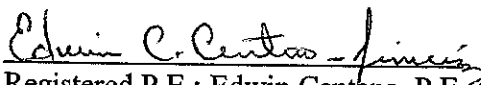
**EER LA PORTE RECYCLING CENTER  
REGISTRATION APPLICATION FOR MSW FACILITY**

**LIST OF ATTACHMENTS**

- ATTACHMENT A: SUPPLEMENTAL TECHNICAL REPORT  
ATTACHMENT B: FIGURES/MAPS  
ATTACHMENT C: SUPPORTING DOCUMENTATION  
ATTACHMENT D: DEMONSTRATION OF COORDINATION  
ATTACHMENT E: DRAINAGE CALCULATION DRAWINGS/FIGURES  
ATTACHMENT F: FACILITY ENGINEERING DESIGN REPORT  
ATTACHMENT G: FIRE PREVENTION AND SUPPRESSION PLAN  
ATTACHMENT H: HEALTH AND SAFETY PLAN



Date 10-11-2011

  
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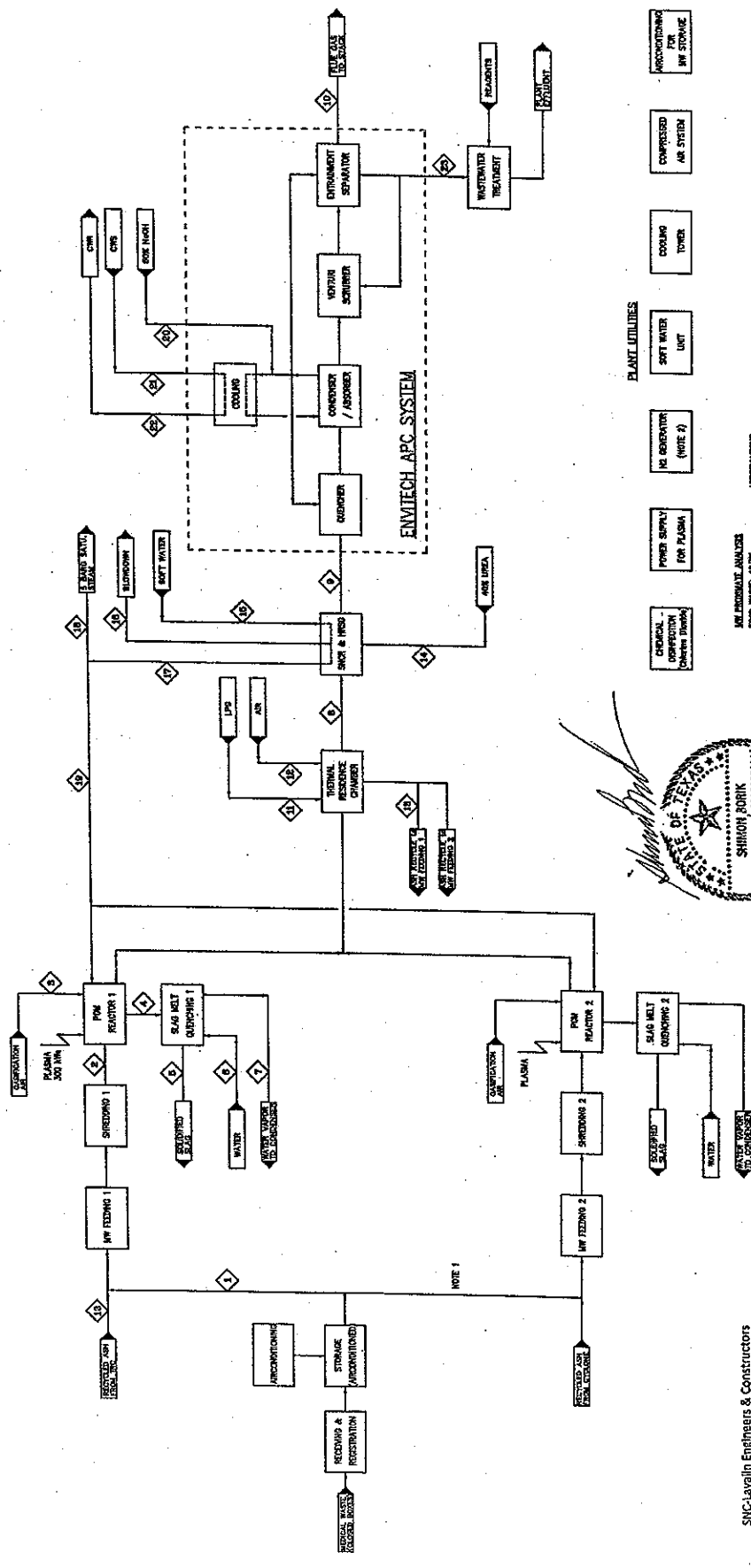
## **Exhibit B**

- Figure A-1. Block Diagram and General Material Balance
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**APPROXIMATIONS:**  
 1. FOOD WASTE 81.7%  
 2. PLASTIC PRODUCTS 16.9%  
 3. METALS 1.4%  
 4. OTHER 1.0%  
 5. WASTE 8.0%  
 6. GLASS AND OTHERS 0.0%
 7. BOUND MOISTURE 16.7%

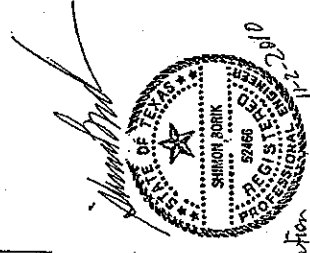
**NOTES:**  
 1. 100% RECOVERY FOR PPM REACTOR AND SHREDDER.  
 2. 100% RECOVERY IS USED BY PLASMA TREATMENT.  
 3. PLASMA POWER FROM POWER INCLUDES LOSSES IN THE POWER SUPPLY UNIT.

**25 TONNE/DAY MEDICAL WASTE TREATMENT PLANT**  
**BLOCK DIAGRAM & GENERAL MATERIAL BALANCE**  
**APC SYSTEM BY ENVITECH**

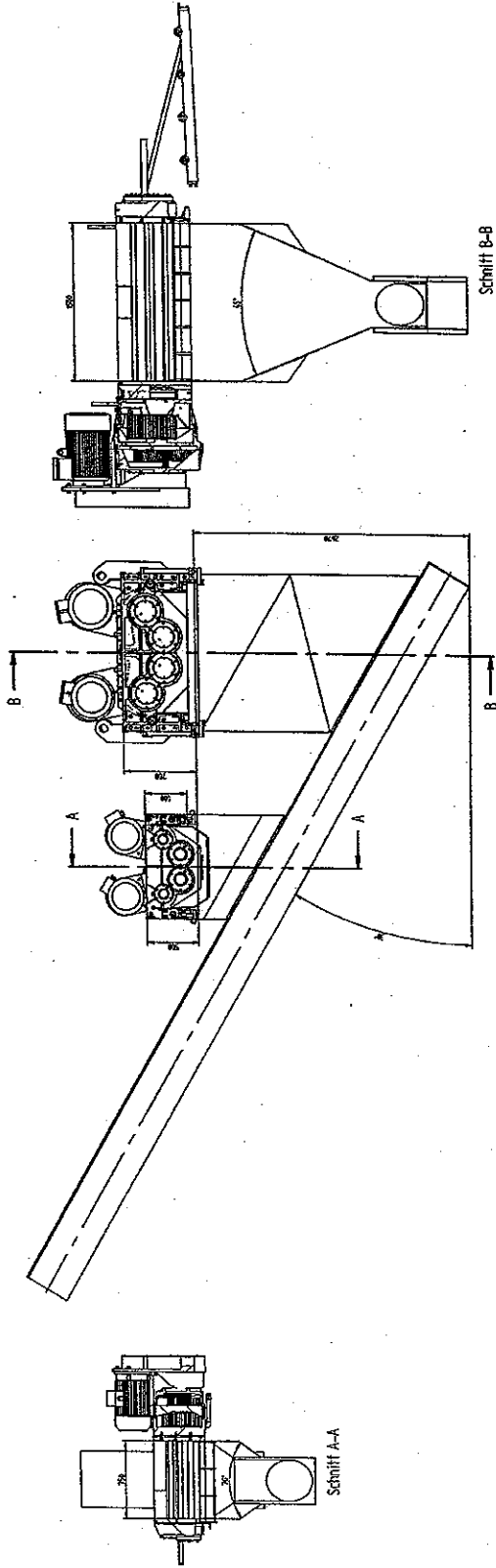
Figures A-1  
 Process Block Flow Diagram  
 ESP LaPorte Recycling Center  
 LaPorte, Texas  
 Tech-Revision #1 October 2011)

**APPROXIMATE ANALYSES:**  
 FOOD WASTE 81.7%  
 PLASTIC PRODUCTS 16.9%  
 METALS 1.4%  
 OTHER 1.0%  
 WASTE 8.0%  
 GLASS AND OTHERS 0.0%  
 BOUND MOISTURE 16.7%

No	Name	1	2	3	4	5	6	7	8	9	10	11
	WV to Feeding System	1,910	1,910	1,910	1,910	1,910	1,910	1,910	1,910	1,910	1,910	1,910
	Flowrate (kg/h)	250	250	250	250	250	250	250	250	250	250	250
	Temperature (°C)	25	25	25	25	25	25	25	25	25	25	25
	Pressure (bars)	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	Density (kg/m³)	1,192	1,192	1,192	1,192	1,192	1,192	1,192	1,192	1,192	1,192	1,192
	Flowrate (m³/h)	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
	WV to Recycled Ash	13,694	13,694	13,694	13,694	13,694	13,694	13,694	13,694	13,694	13,694	13,694
	Flowrate (kg/h)	28	28	28	28	28	28	28	28	28	28	28
	Temperature (°C)	15	15	15	15	15	15	15	15	15	15	15
	Pressure (bars)	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	Density (kg/m³)	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
	Flowrate (m³/h)	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
	WV to HRSG	5,695	5,695	5,695	5,695	5,695	5,695	5,695	5,695	5,695	5,695	5,695
	Flowrate (kg/h)	275	275	275	275	275	275	275	275	275	275	275
	Temperature (°C)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
	Pressure (bars)	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	Density (kg/m³)	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
	Flowrate (m³/h)	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
	WV to Condenser	5,235	5,235	5,235	5,235	5,235	5,235	5,235	5,235	5,235	5,235	5,235
	Flowrate (kg/h)	199	199	199	199	199	199	199	199	199	199	199
	Temperature (°C)	150	150	150	150	150	150	150	150	150	150	150
	Pressure (bars)	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	Density (kg/m³)	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
	Flowrate (m³/h)	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
	WV to Stack	14,741	14,741	14,741	14,741	14,741	14,741	14,741	14,741	14,741	14,741	14,741
	Flowrate (kg/h)	28	28	28	28	28	28	28	28	28	28	28
	Temperature (°C)	23	23	23	23	23	23	23	23	23	23	23
	Pressure (bars)	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	Density (kg/m³)	1,192	1,192	1,192	1,192	1,192	1,192	1,192	1,192	1,192	1,192	1,192
	Flowrate (m³/h)	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
	WV to CWR	20,438	20,438	20,438	20,438	20,438	20,438	20,438	20,438	20,438	20,438	20,438
	Flowrate (kg/h)	28	28	28	28	28	28	28	28	28	28	28
	Temperature (°C)	23	23	23	23	23	23	23	23	23	23	23
	Pressure (bars)	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	Density (kg/m³)	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
	Flowrate (m³/h)	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024



SHC-Lavelin Engineers & Constructors  
 Texas State Board of Professional  
 Engineers Registration No. 1178



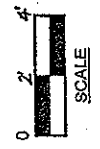
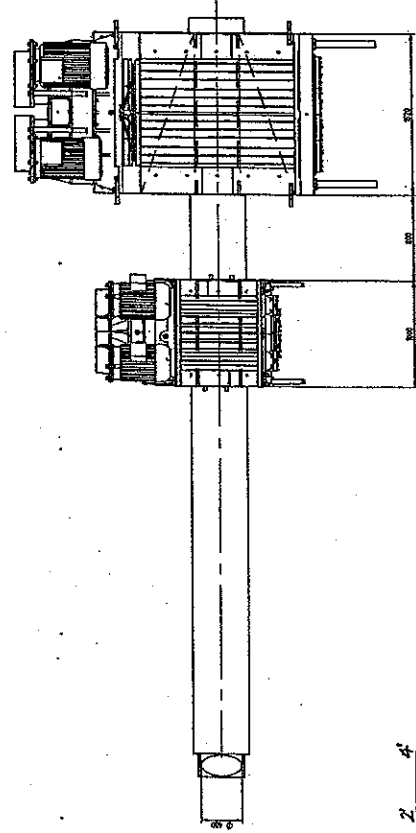
Schnitt B-B

Schnitt A-A

Figure A-2  
 Shredders-Schematic Cross  
 Section  
 EER LaPorte Recycling Center  
 LaPorte, Texas  
 Tech-Revision #1 October 2011  
 SNC-Lavalin Engineers & Constructors  
 Texas State Board of Professional  
 Engineers Registration No. 1178



*Registration*



NO.	DATE	BY	CHKD.	APP'D.	REVISION
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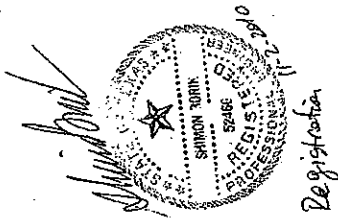
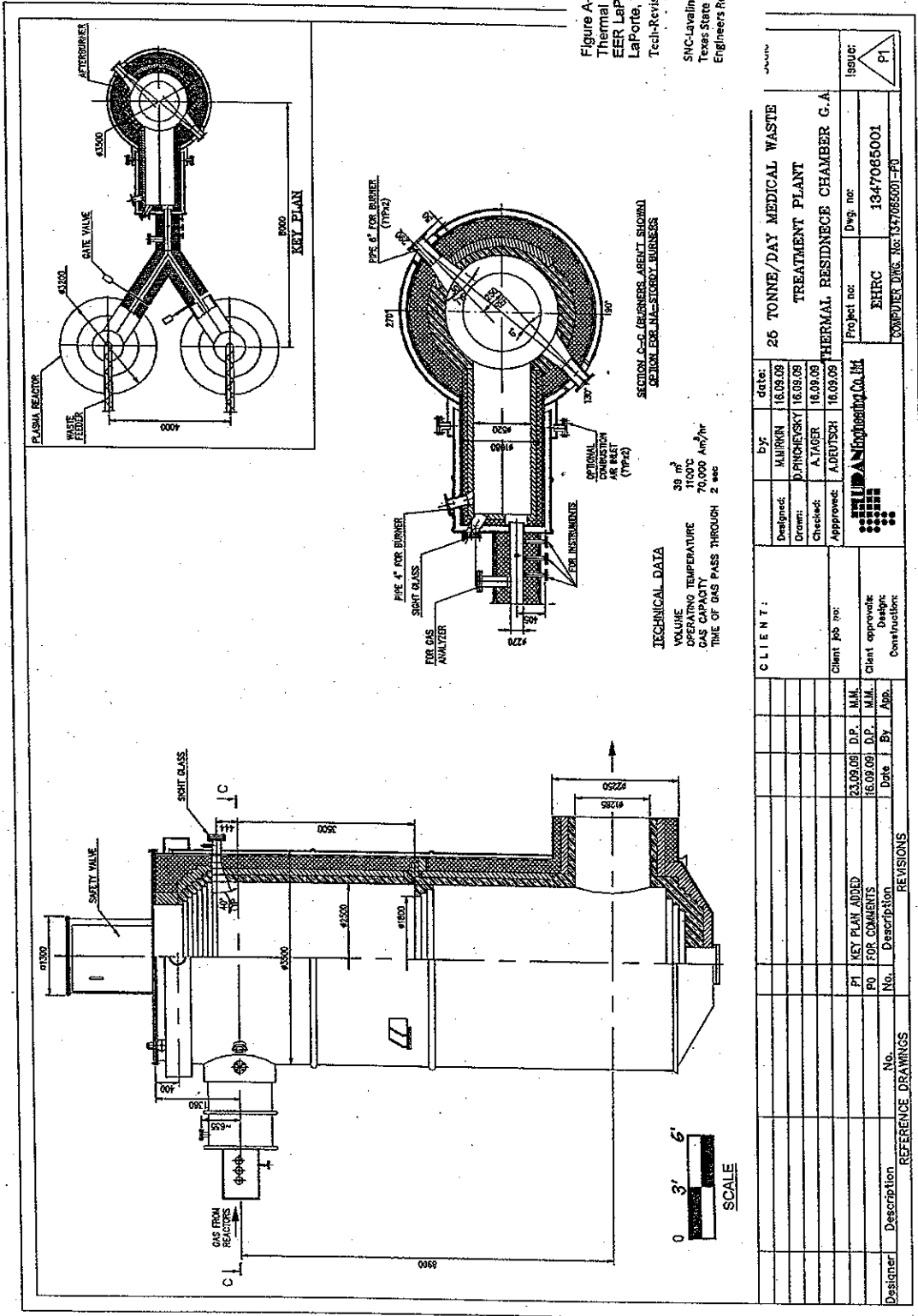


Figure A-3  
 Thermal Residence Chamber  
 EER LaPorte Recycling Center  
 LaPorte, Texas  
 Tech-Revision #1 October 2011

SHC/Lavelin Engineers & Constructors  
 Texas State Board of Professional  
 Engineers Registration No. 1178



**TECHNICAL DATA**  
 VOLUME 39 m<sup>3</sup>  
 OPERATING TEMPERATURE 1000C  
 GAS CAPACITY 70,000 Am<sup>3</sup>/hr  
 TIME OF GAS PASS THROUGH 2 sec



DESIGNER		DESCRIPTION		NO.		REFERENCE DRAWINGS	
No.	Description	Date	By	App.			
P1	KEY PLAN ADDED	23.09.09	D.P.	M.M.			
P0	FOR COMMENTS	16.09.09	D.P.	M.M.			

CLIENT:		DATE:	
25 TONNE/DAY MEDICAL WASTE TREATMENT PLANT	THERMAL RESIDENCE CHAMBER G.A.	16.09.09	16.09.09
Designed: M. RUBIN Drawn: D. PRINGSKY Checked: A. JAGER Approved: A. DEUTSCH	Project no: EHRG 1347065001 COMPUTER DWG. NO. 1347065001-F0	Issue: P1	Project no: EHRG 1347065001 COMPUTER DWG. NO. 1347065001-F0

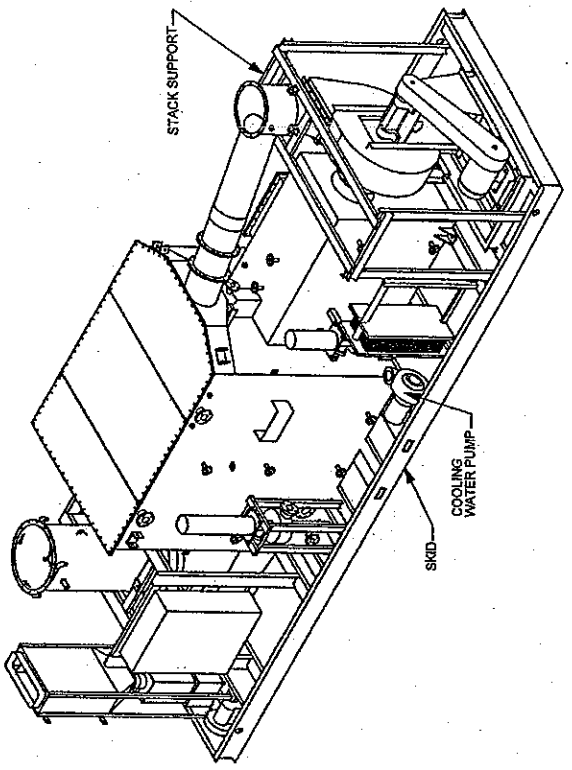
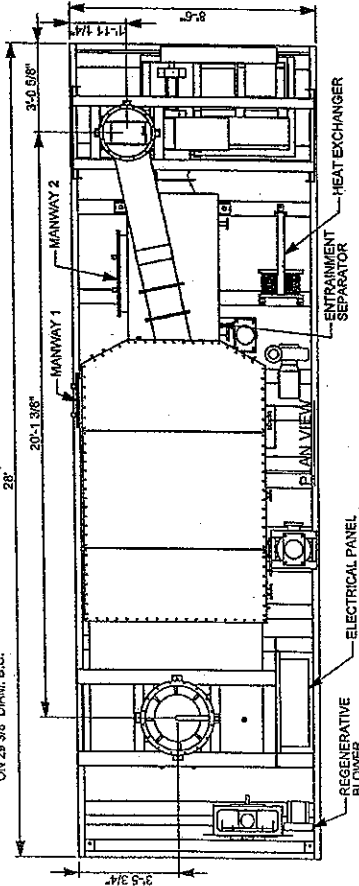
CLIENT:		DATE:	
25 TONNE/DAY MEDICAL WASTE TREATMENT PLANT	THERMAL RESIDENCE CHAMBER G.A.	16.09.09	16.09.09
Designed: M. RUBIN Drawn: D. PRINGSKY Checked: A. JAGER Approved: A. DEUTSCH	Project no: EHRG 1347065001 COMPUTER DWG. NO. 1347065001-F0	Issue: P1	Project no: EHRG 1347065001 COMPUTER DWG. NO. 1347065001-F0



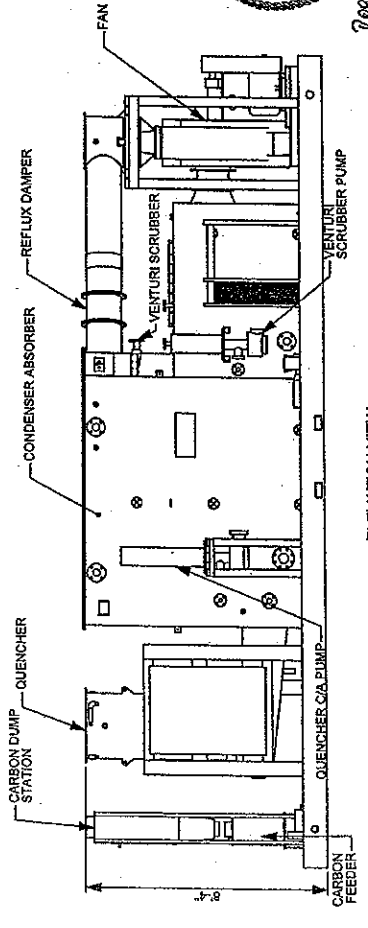
REV.	DESCRIPTION	DATE	APPROVED
A.	INITIAL RELEASE	7/27/09	A. GUDS
B.	ADDITIONAL DETAIL	9/22/09	A. GUDS

STACK FLANGE:  
27" I.D. 31" O.D.  
12 HOLES Ø 7/16" THRU  
ON 21 3/4" DIAM. B.C.

QUENCHER FLANGE:  
27" I.D. 31" O.D.  
12 HOLES Ø 7/16" THRU  
ON 23 9/8" DIAM. B.C.



ISOMETRIC VIEW



ELEVATION VIEW

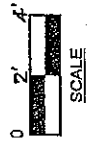


Figure A-5  
Air Pollution Control System  
EER LaPorte Recycling Center  
LaPorte, Texas  
Tech-Revision #1 October 2011

DATE	NAME	DATE	NAME
9/22/09	S. OGDEN	9/22/09	A. GUDS
	CHECKED		
	PROJECT		
	MATERIAL		
	FINISH		

UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN INCHES  
TOLERANCES: FRACTIONAL 1/4" ± 0.015  
DECIMAL 0.001 ± 0.001  
TWO PLACE DECIMAL ± 0.005  
THREE PLACE DECIMAL ± 0.005

INTERFERE GEOMETRIC TO ENLARGING TIE

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PROJECT: EER TEXAS

TITLE: GENERAL ASSEMBLY

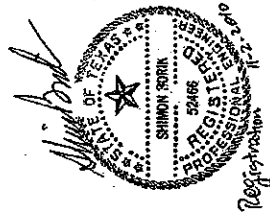
SIZE: B

DWG. NO.: 28044GA

REV: B

SCALE: 1:48

WEIGHT: SHEET 1 OF 1



SNC-Lavelin Engineers & Constructors  
Texas State Board of Professional  
Engineers Registration No. 1178



**SNC-LAVALIN**

8009 West Loop South, #900  
Houston, TX 77096-1719  
(713) 667-9162  
Fax: (713) 667-9241

2800 Decker Drive  
Baytown, TX 77520  
(281) 428-1333  
Fax: (281) 425-8846 & 8849



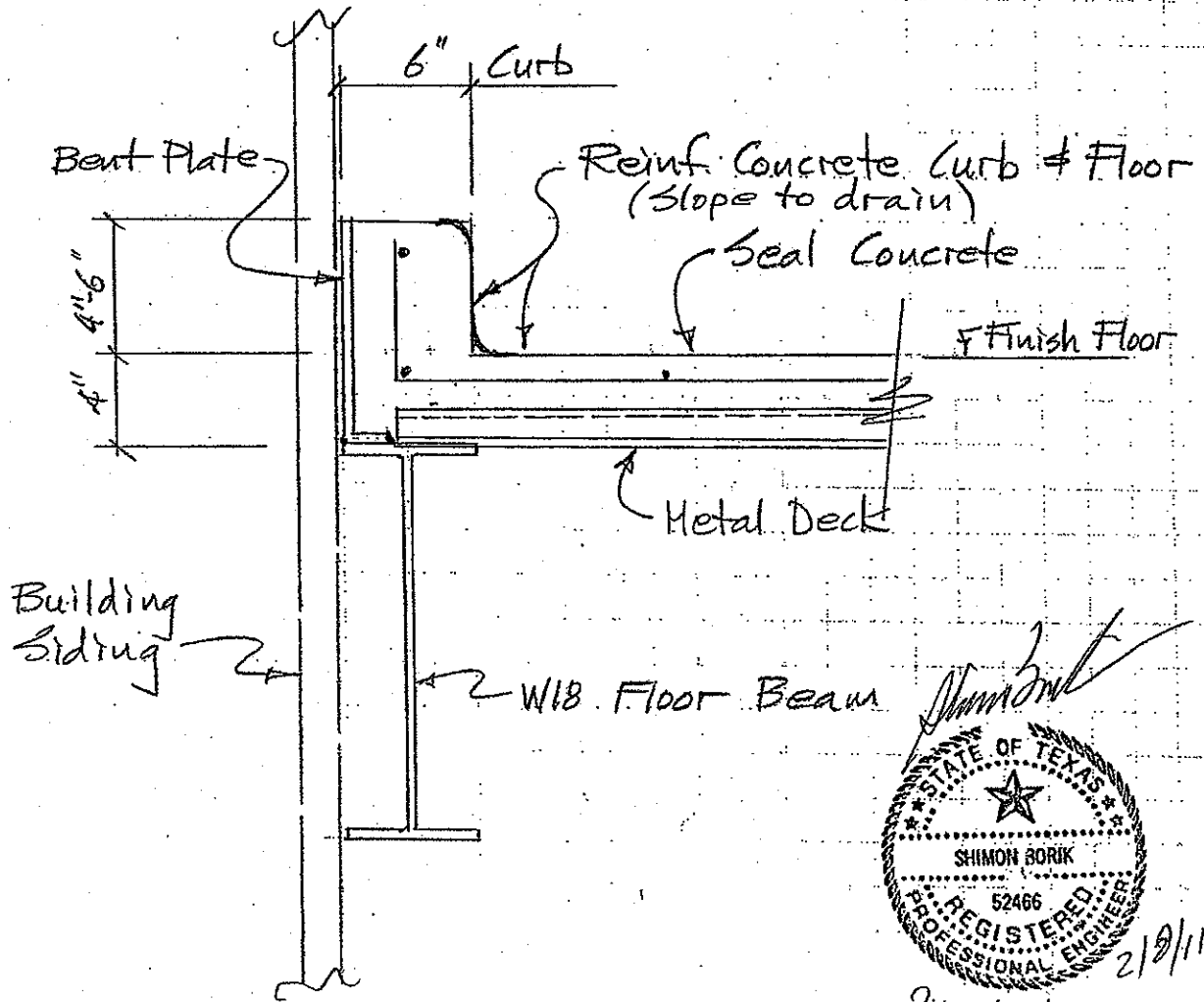
JOB EER-Medical Waste Treatment

SHEET NO. SK-1 OF \_\_\_\_\_

CALCULATED BY GH DATE 2/2/11

CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_

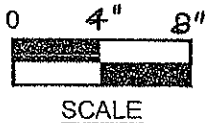
SCALE Preliminary



*Shimon Borik*  
 STATE OF TEXAS  
 SHIMON BORIK  
 52466  
 REGISTERED PROFESSIONAL ENGINEER  
 2/2/11  
 Registration

CURB DETAIL

(Typ. for Waste Storage Area)



SNC-Lavalin Engineers & Constructors  
Texas State Board of Professional  
Engineers Registration No. 1178

Figure A-6  
Typical Curb Detail  
EER LaPorte Recycling Center  
LaPorte, Texas  
Tech-Revision #1 October 2011





**SNC-LAVALIN**

9009 West Loop South, #600  
Houston, TX 77096-1719  
(713) 667-9162  
Fax: (713) 667-9241

2800 Decker Drive  
Baytown, TX 77520  
(281) 428-1333  
Fax: (281) 425-8848 & 8849



JOB EER-Medical Waste Treatment

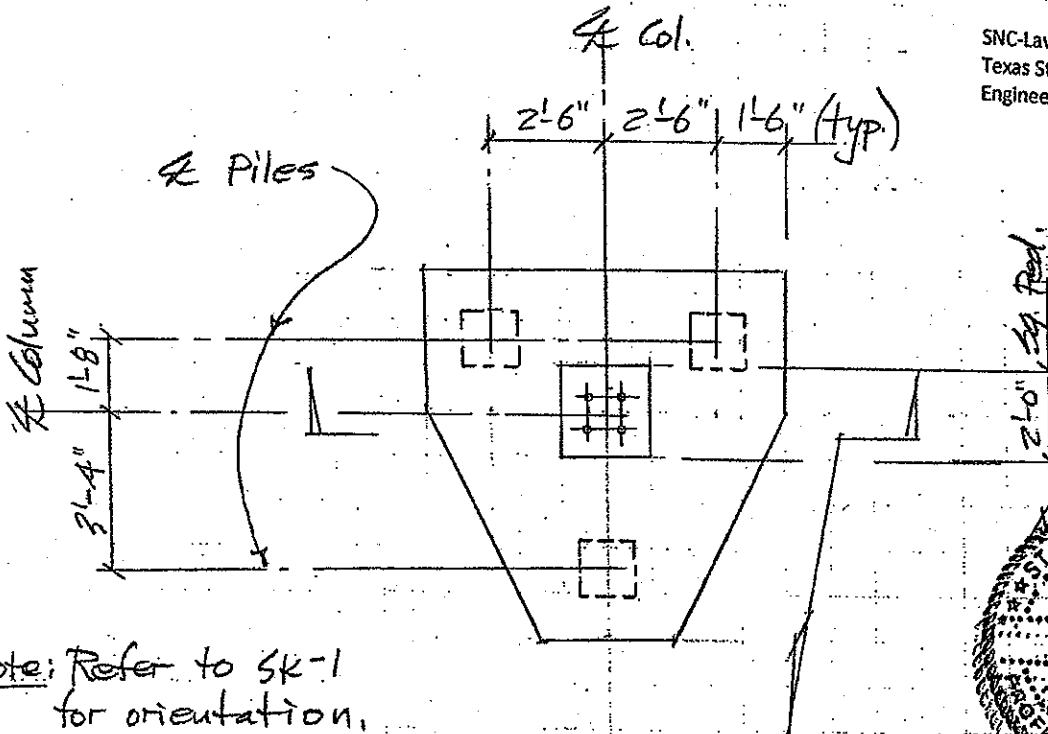
SHEET NO. SK-2 OF \_\_\_\_\_

CALCULATED BY JH DATE 2/7/11

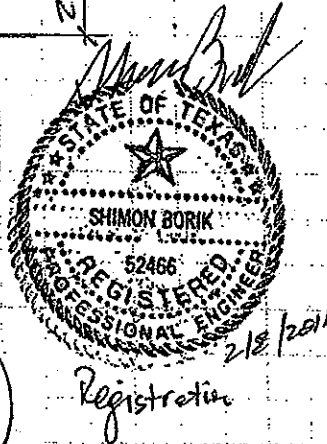
CHECKED BY 15054 DATE \_\_\_\_\_

SCALE PGM Reactor Structure Fdn.  
(Preliminary)

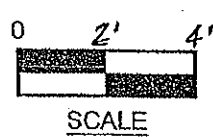
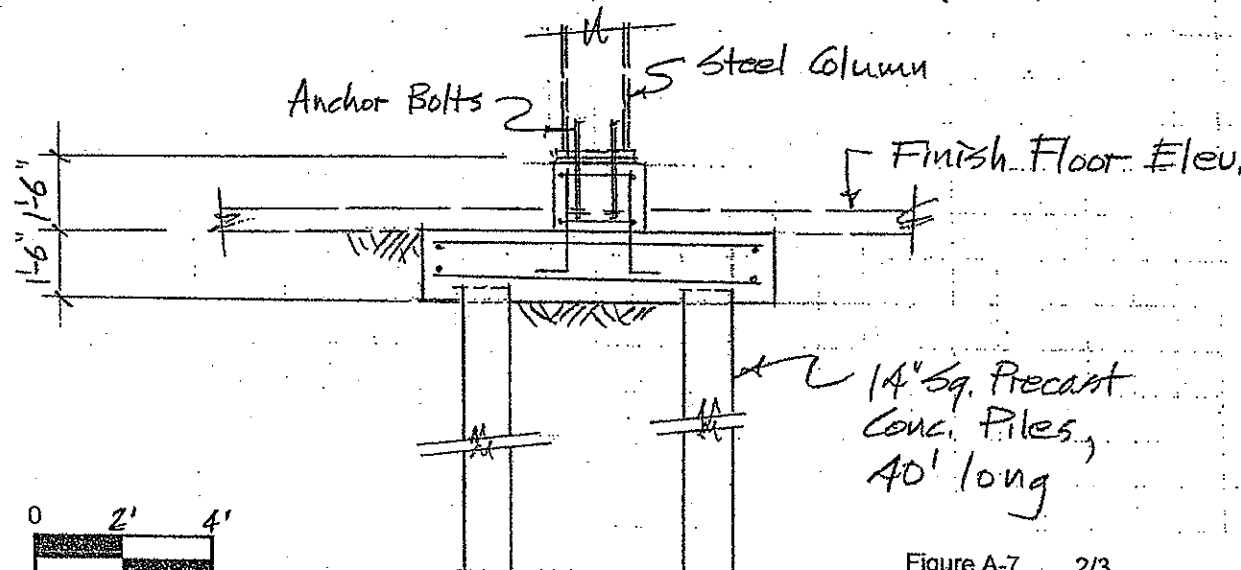
SNC-Lavalin Engineers & Constructors  
Texas State Board of Professional  
Engineers Registration No. 1178



Note: Refer to SK-1 for orientation.



PLAN  
(Typ. Fdn. for PGM Reactor Structure)



SECTION

Figure A-7 2/3  
PGM™ Reactor Foundation  
EER LaPorte Recycling Center  
LaPorte, Texas  
Tech-Revision #1 October 2011



**SNC • LAVALIN**

9009 West Loop South, #800  
Houston, TX 77098-1719  
(713) 667-8162  
Fax: (713) 667-9241

2800 Decker Drive  
Baytown, TX 77520  
(281) 428-1333  
Fax: (281) 428-8848 & 8849



JOB EER-Medical Waste Treatment

SHEET NO. SK-1 OF \_\_\_\_\_

CALCULATED BY JHH DATE 2/7/11

CHECKED BY 15054 DATE \_\_\_\_\_

SCALE Thermal Residence Chamber Fdn.  
(Preliminary)

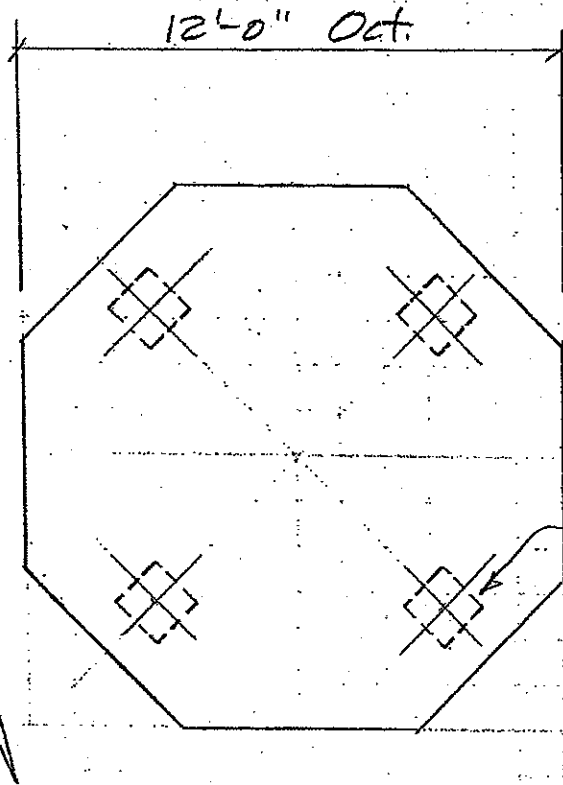
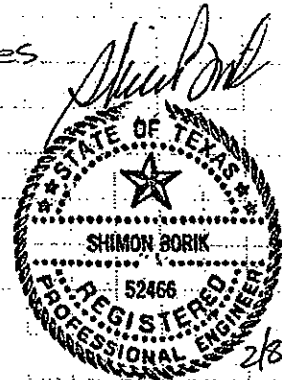
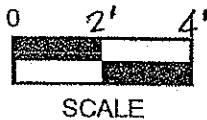
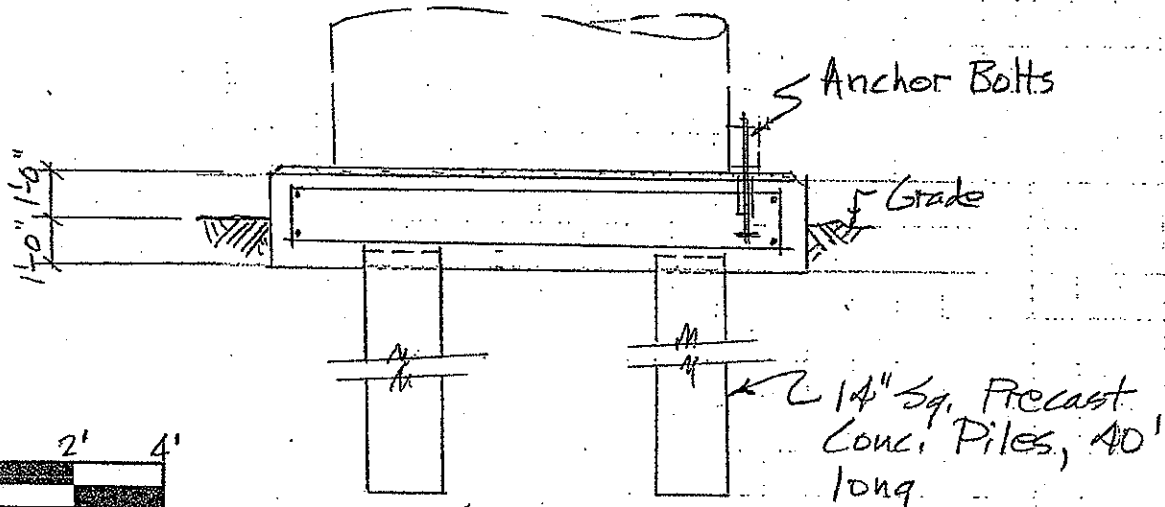


Figure A-7 3/3  
PGM™ Reactor Foundation  
EER LaPorte Recycling Center  
LaPorte, Texas  
Tech-Revision #1 October 2011  
SNC-Lavalin Engineers & Constructors  
Texas State Board of Professional  
Engineers Registration No. 1178



FOUNDATION PLAN  
(Thermal Residence Chamber) Registration



SECTION



SNC-Lavalin Engineers & Constructors  
 Texas State Board of Professional  
 Engineers Registration No. 1178

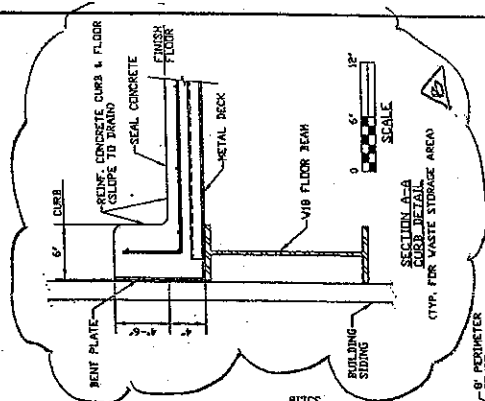


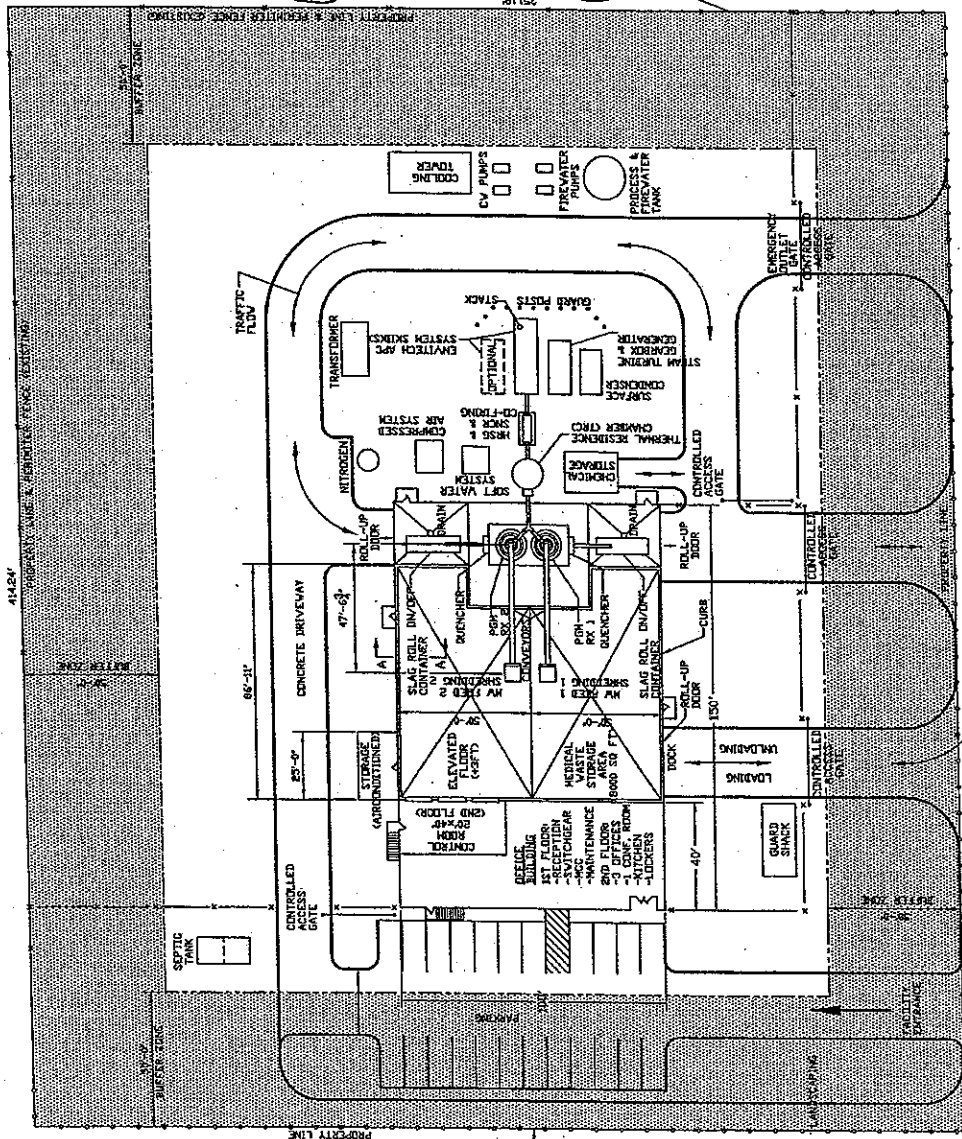
Figure II.D  
 Conceptual Plot Plan  
 EER LaPorte Recycling Center  
 LaPorte, Texas  
 Tech-Revision #1 October 2011

PRELIMINARY

**SNC-LAVALIN**  
 ENGINEERS & CONSTRUCTORS INC.  
 15054-0000-46D2-0001

**CONCEPTUAL PLOT PLAN**  
 25 TON/DAY MEDICAL WASTE TREATMENT PLANT  
 ENVIRONMENTAL ENERGY RESOURCES LTD  
 LA PORTE, TEXAS

DATE: 07/29/09  
 SCALE: 1"=50'  
 PROJECT NO.: 15054-0000-46D2-0001



NO.	REVISION	DESCRIPTION	BY	DATE
1	ISSUED FOR REVIEW		ME	07/21
2	ADDED GARDEN DETAIL		ME	



*Handwritten signature*

STATE OF TEXAS  
 SHIRLEY BORK  
 53466  
 REGISTERED PROFESSIONAL ENGINEER  
 2/16/11  
 Registration

41424

PROPERTY LINE & EXISTING FENCE (CONTINUED)

PROPERTY LINE

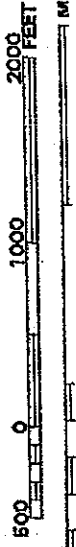
STRANS ROAD

MILLENNIUM ROAD (ACCESS RD. PRIVATE)

APPROXIMATE 500'-0"  
 N.T.S.



MAP SCALE 1" = 1000'



PANEL 0530L

# FIRM FLOOD INSURANCE RATE MAP

HARRIS COUNTY, TEXAS AND INCORPORATED AREAS

PANEL 930 OF 1150  
1976 MAP INDEX FOR FIRM PANEL LAYOUT

CONTAINS:	ALIGNED PANEL:	SUBDIVISION:
REPUBLICAN CITY OF HARRIS COUNTY, TEXAS	40247	L
INCORPORATED AREAS	40247	L
HARRIS COUNTY OF TEXAS	40248	L

Notice to User: The map numbers shown below should be used when making map orders; the Department website should be used to determine appropriate for the subject community.

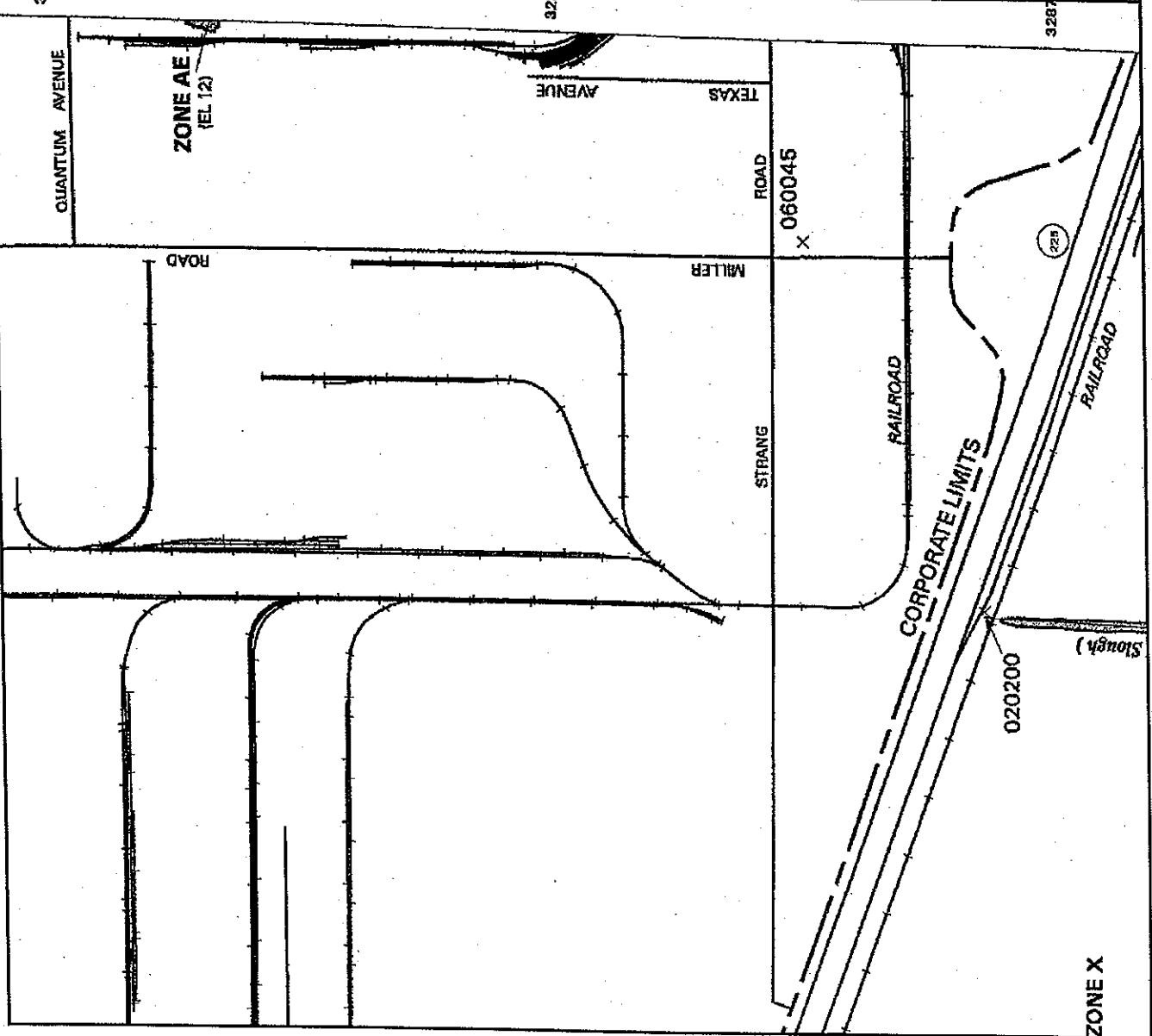


MAP NUMBER  
48207C0930L

MAP REVISED:  
JUNE 18, 2007

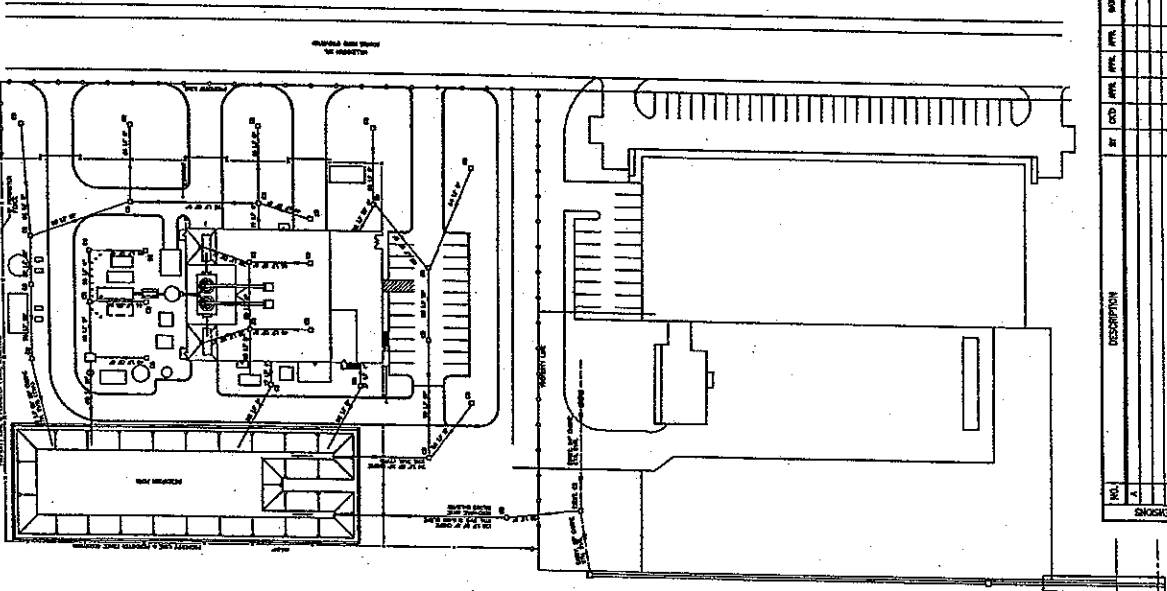
Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the site block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at [www.msc.fema.gov](http://www.msc.fema.gov)



EER La Porte Recycling Center, FEMA Flood Insurance Rate Map





*Mark Burt*

11-2-2010

*Registration*

SNC-Lavalin Engineers & Constructors  
 Texas State Board of Professional  
 Engineers Registration No. 1178

10/17/10

**PRELIMINARY**

Figure E-2  
 Overall Drainage Plan for Area  
 EER LaPorte Recycling Center  
 LaPorte, Texas  
 Tech-Revision #1 October 2011

**SNC-LAVALIN**

INCORPORATED

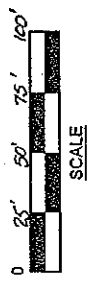
OVERALL DRAINAGE PLAN FOR AREA  
 EER LA PORTE RECYCLING CENTER  
 ENVIRONMENTAL ENERGY RESOURCES LTD  
 LA PORTE, TEXAS

SCALE: 1"=50'

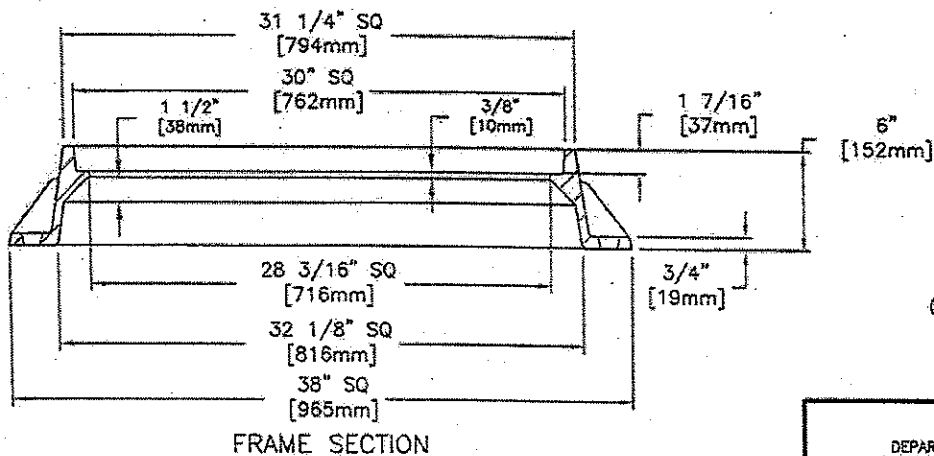
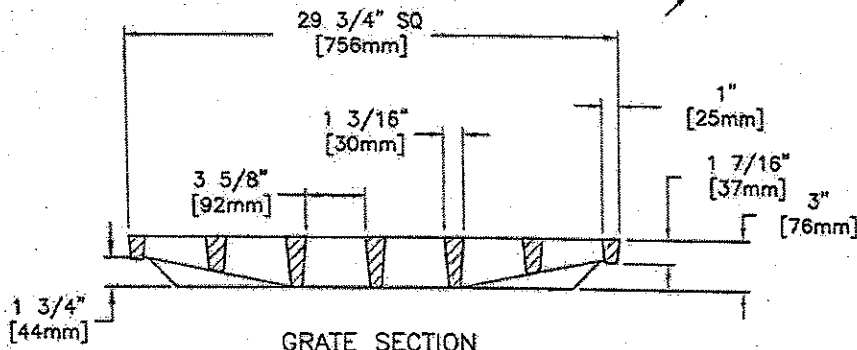
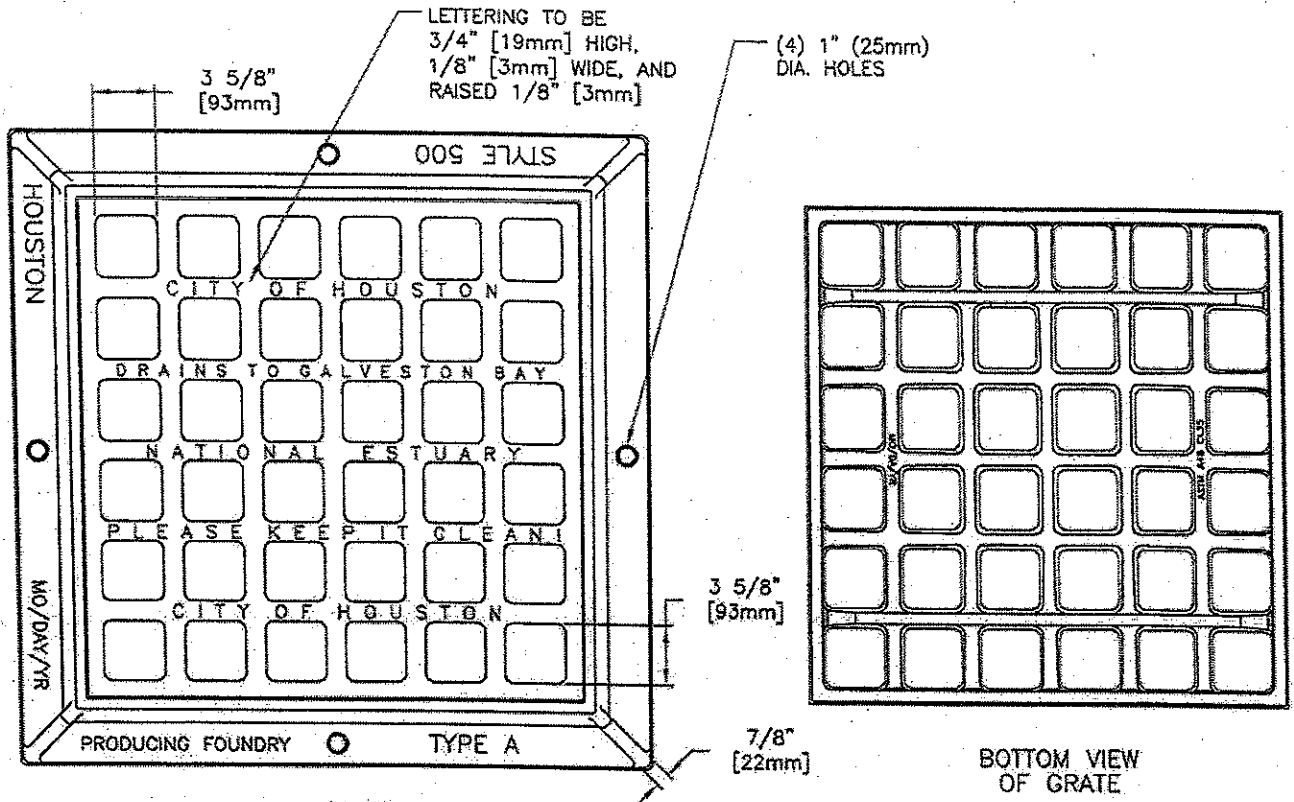
DATE: 10/17/10

PROJECT NO: 15054-0000-41D2-0002

NO.	DESCRIPTION	BY	DATE	APPR.	DATE
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3					
4					
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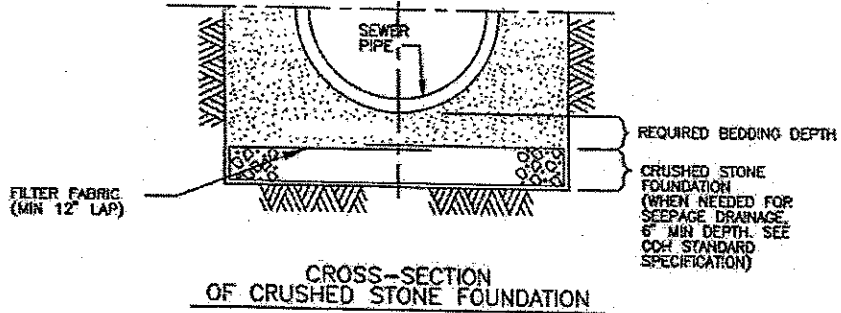
OPEN AREA OF GRATE  
473 SQ. IN.  
[3051 SQ. cm.]

- 1) NOTE: APPROXIMATE WEIGHTS.  
GRATE- 190 LBS 86kg  
FRAME- 235 LBS 107kg  
UNIT- 425 LBS 193kg
- 2) MATERIAL- GRAY IRON ASTM A48 CL35B
- 3) CASTING TO MEET M306 PROOF LOAD SPECIFICATION
- 4) EJIW V-4880 ASY OR APPROVED EQUAL

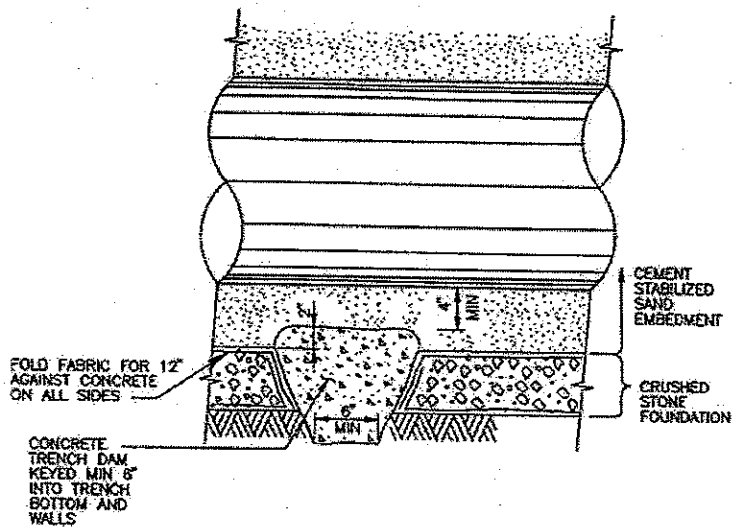
<b>CITY OF HOUSTON</b> DEPARTMENT OF PUBLIC WORKS AND ENGINEERING ENGINEERING, CONSTRUCTION AND REAL ESTATE GROUP	
<b>STORM SEWER TYPE "A" INLET GRATE AND FRAME</b> (NOT TO SCALE)	
APPROVED BY: <i>[Signature]</i> CITY ENGINEER	APPROVED BY: <i>[Signature]</i> DIRECTOR OF PUBLIC WORKS AND ENGINEERING
EFF. DATE: 04-01-07	DWG. NO: 02CB4-08

**NOTES:**

1. ACTUAL SHAPE OF CONCRETE TRENCH DAM CROSS SECTION MAY BE DETERMINED BY CONTRACTOR IN FIELD, MEETING MINIMUM THICKNESS AND KEY DEPTH REQUIREMENTS.
2. THIS DETAIL SHALL BE USED WITH CEMENT STABILIZED SAND EMBEDMENT, OR OTHER CLASS II EMBEDMENT, IN WET STABLE TRENCH CONDITIONS.
3. PLACE TRENCH DAMS IN CLASS I EMBEDMENTS AT THE MIDPOINT OF LINE SEGMENTS LONGER THAN 100 FEET BETWEEN MANHOLES.



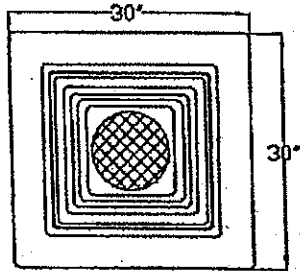
**CROSS-SECTION OF CRUSHED STONE FOUNDATION**



**LONGITUDINAL SECTION ALONG PIPE  $\phi$  AT FOUNDATION TRENCH DAM**

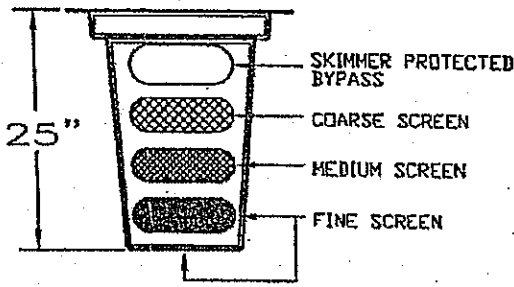
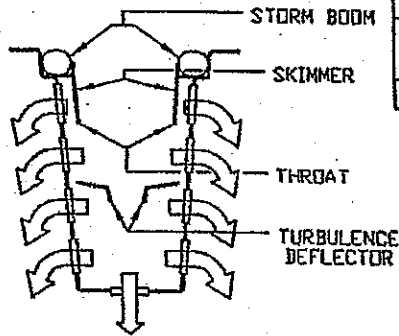
<b>CITY OF HOUSTON</b> DEPARTMENT OF PUBLIC WORKS AND ENGINEERING ENGINEERING, CONSTRUCTION AND REAL ESTATE DIVISION	
<b>SANITARY OR STORM SEWER          CRUSHED STONE FOUNDATION          FOR WET STABLE TRENCH</b>	
(NOT TO SCALE)	
APPROVED BY: <i>S. S. S. S.</i> CITY ENGINEER	APPROVED BY: <i>[Signature]</i> DIRECTOR OF PUBLIC WORKS AND ENGINEERING
EFF DATE: OCT-01-2002	DWG NO: 02317-02

Part # GISB-30-20-25



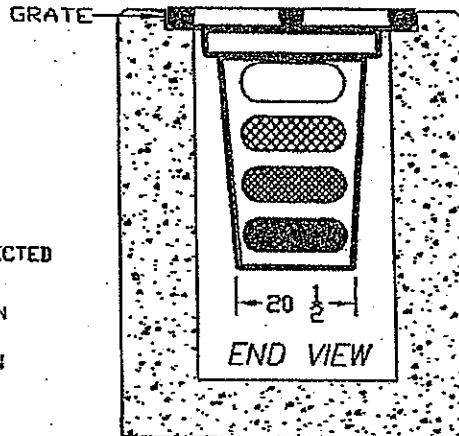
TOP VIEW

FLOW SCHEMATIC



SIDE VIEW

Description of filter opening	Percent Open <small>Based on Screen Dimensions</small>	Total Square Inches per Unit	Square Inches of Total Unobstructed Openings	Flow Rate (Cubic Feet per Second)
Skimmer protected By-Pass	100%	283.3	283.3	9.8 cfs
Coarse Screen 3/4" x 1-3/4" stainless steel flattened expanded	62%	249.2	154.5	6.6 cfs
Medium Screen 10x10 mesh stainless steel	56%	249.2	139.5	6.0 cfs
Fine screen 14 x 18 mesh stainless steel	63%	374.7	251.7	14.3 cfs
THROAT FLOW RATE Total: 11.9 cfs		TREATED FLOW RATE Total: 27.8 cfs		
FLOW RATES BASED ON UNOBSTRUCTED OPENINGS				



CONCRETE STRUCTURE

REMOVE GRATE  
INSERT GISB  
REINSTALL GRATE

BOX MANUFACTURED FROM MARINE GRADE FIBERGLASS & GEL COATED FOR UV PROTECTION

5 YEAR MANUFACTURERS WARRANTY

**PATENTED**

ALL FILTER SCREENS ARE STAINLESS STEEL

DISTRIBUTED BY:

STORMWATER STRUCTURES, INC.  
HOUSTON, TX. 77038  
TEL. 832-456-1000  
FAX: 832-456-1010

SUNTREE QUALITY PRODUCTS ARE BUILT FOR EASY CLEANING AND ARE DESIGNED TO BE PERMANENT INFRASTRUCTURE AND SHOULD LAST FOR DECADES.

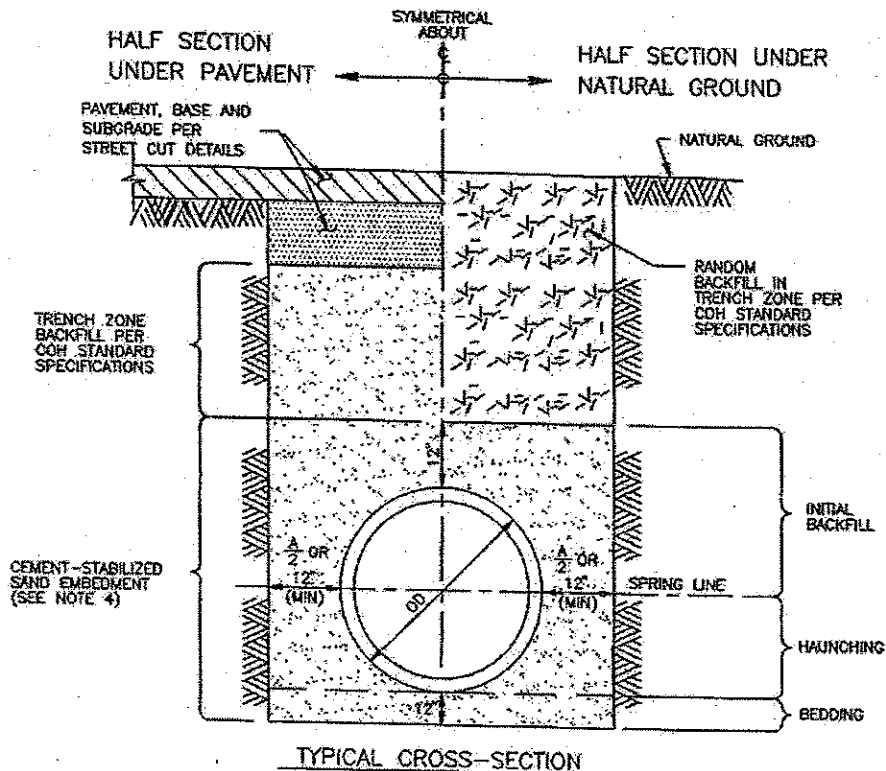
SUNTREE TECHNOLOGIES 798 CLEARLAKE RD, SUITE #8 COCOA FL 32908 TEL. 321-637-7338 FAX 321-637-7554		DATE:	SCALE:
GRATE INLET SKIMMER BOX GISB-30-30-25		DATE: 05/20/04	SCALE: N.T.S.
DRAFTER:	UNITS = INCHES	DATE:	SCALE:

7  
L  
6  
2

**NOTES:**

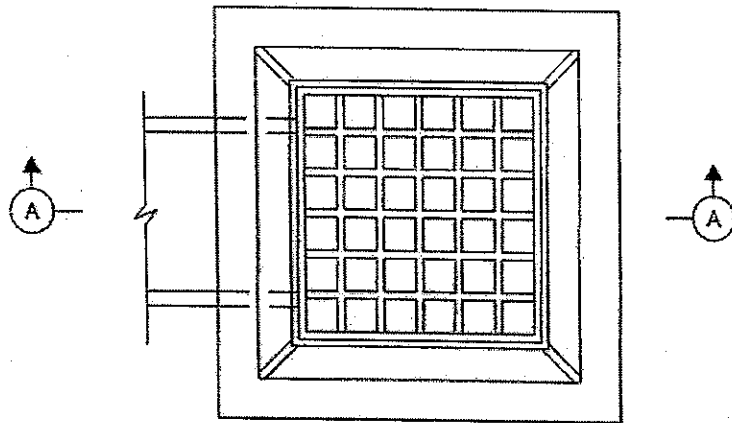
1. THIS DETAIL MAY BE USED ONLY FOR DRY STABLE TRENCH CONDITIONS PER COH STANDARD. SEE COH STANDARD SPECIFICATION FOR REQUIREMENTS IN OTHER CONDITIONS.
2. MIN TRENCH WIDTH SHALL BE PIPE OD PLUS AN ALLOWANCE "A" FOR THE NOMINAL PIPE SIZE:  

NOMINAL PIPE SIZE	"A"
18" TO 30"	24"
OVER 30"	36"
3. MAX TRENCH WIDTH SHALL BE NOT GREATER THAN MIN TRENCH WIDTH PLUS 24 INCHES, UNLESS OTHERWISE NOTED.
4. ALTERNATIVE EMBEDMENT BACKFILL MATERIALS FOR FORCE MAINS MAY BE ALLOWED. SEE COH STANDARD SPECIFICATIONS.

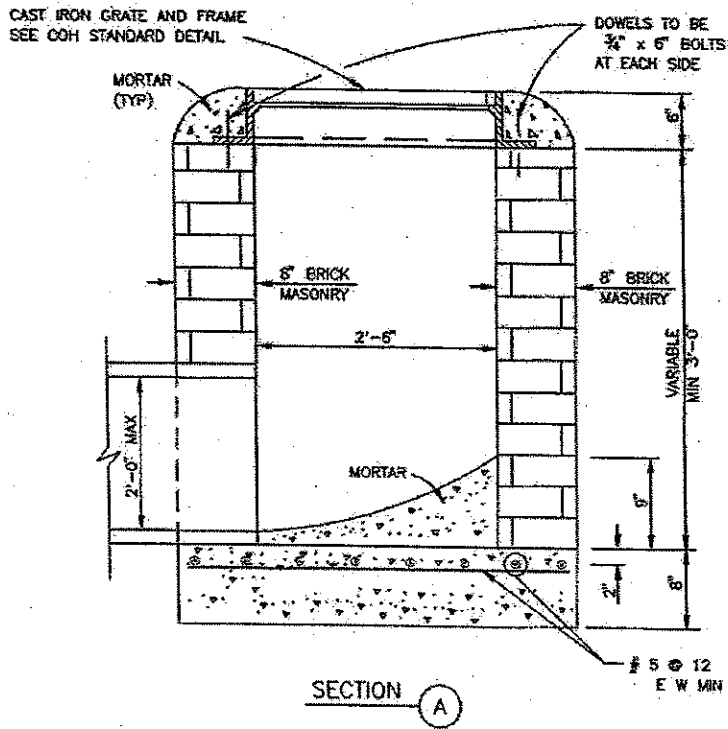


TYPICAL CROSS-SECTION

<b>CITY OF HOUSTON</b> DEPARTMENT OF PUBLIC WORKS AND ENGINEERING ENGINEERING, CONSTRUCTION AND REAL ESTATE DIVISION	
<b>SANITARY OR STORM SEWER          BEDDING AND BACKFILL          FOR DRY STABLE TRENCH</b> (NOT TO SCALE)	
APPROVED BY: <i>Fraudigri</i> CITY ENGINEER	APPROVED BY: <i>[Signature]</i> DIRECTOR OF PUBLIC WORKS AND ENGINEERING
EFF DATE: OCT-01-2002	DWG NO: 02317-03



PLAN



SECTION A

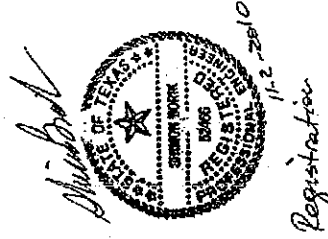
<b>CITY OF HOUSTON</b> DEPARTMENT OF PUBLIC WORKS AND ENGINEERING ENGINEERING, CONSTRUCTION AND REAL ESTATE DIVISION	
<b>STORM SEWER</b> <b>TYPE "A" GRATE INLET</b> (NOT TO SCALE)	
APPROVED BY: <i>Snadafin</i> CITY ENGINEER	APPROVED BY:  DIRECTOR OF PUBLIC WORKS AND ENGINEERING
EFF DATE: OCT-01-2002	DWG NO: 02632-01

25 YEAR DRAINAGE CALCULATIONS

AREA	ADJACENT	L	TE	1	25 YEAR	MANHOLE	PIPE SIZE	SLOPE	VELOCITY	PIPE CAPACITY
					DEPTH	IN	IN	%	FT/SEC	LSQ/SEC
A1	0.11	0.8	-	4	0.39	0.02	4	0.15	1.97	0.87
A2	0.03	0.8	-	4	0.41	0.02	8	0.15	3.78	0.89
A3	0.13	0.8	-	4	0.45	0.02	8	0.15	3.70	0.88
A4	0.24	0.8	-	4	0.42	0.02	8	0.15	3.70	0.88
A5	0.23	0.8	-	4	0.42	0.02	8	0.15	3.70	0.88
A6	0.27	0.8	-	4	0.42	0.02	10	0.15	5.70	0.87
A7	0.16	0.8	-	4	0.37	0.02	8	0.15	3.78	0.89
A8	0.22	0.8	-	4	0.41	0.02	12	0.15	5.24	0.79
A9	0.09	0.8	-	4	0.36	0.02	12	0.15	5.24	0.79
A10	1.00	0.8	-	4	2.55	0.02	12	0.08	3.58	0.70
B1	0.14	0.8	-	4	0.50	0.02	8	0.13	3.54	0.83
B2	0.06	0.8	-	4	0.21	0.02	4	0.13	0.96	0.07
B3	0.13	0.8	-	4	0.33	0.02	8	0.13	3.54	0.83
B4	0.19	0.8	-	4	0.44	0.02	8	0.13	3.54	0.83
B5	0.42	0.8	-	4	1.49	0.02	10	0.13	3.78	0.87
B6	0.31	0.8	-	4	1.01	0.02	10	0.13	3.78	0.87
B7	0.08	0.8	-	4	0.28	0.02	8	0.13	3.54	0.83
B8	0.59	0.8	-	4	2.09	0.02	12	0.08	3.58	0.70
C1	0.46	0.8	-	4	0.21	0.02	4	0.40	1.68	0.07
C2	0.12	0.8	-	4	0.46	0.02	8	0.40	2.70	0.28
D1	0.11	0.8	-	4	0.39	0.02	4	0.40	1.68	0.07
D2	0.09	0.8	-	4	0.67	0.02	8	0.40	2.70	0.28
E1	0.49	0.8	-	4	0.26	0.02	5	0.40	2.16	0.14
E2	0.49	0.8	-	4	0.11	0.02	5	0.40	2.16	0.14
E3	0.17	0.8	-	4	0.69	0.02	5	0.40	2.16	0.14
E4	0.49	0.8	-	4	0.32	0.02	5	0.40	2.16	0.14
E5	0.23	0.8	-	4	0.11	0.02	5	0.40	2.16	0.14
E6	0.34	0.8	-	4	1.01	0.02	8	0.40	2.70	0.28
F1	0.05	0.8	-	4	0.21	0.02	5	0.45	1.27	0.14
F2	0.04	0.8	-	4	0.21	0.02	5	0.45	1.27	0.14
F3	0.28	0.8	-	4	0.43	0.02	5	0.45	1.27	0.14
F4	0.24	0.8	-	4	0.65	0.02	5	0.45	1.27	0.14
F5	0.14	0.8	-	4	0.20	0.02	5	0.45	1.27	0.14
F6	0.08	0.8	-	4	1.25	0.02	10	0.45	1.27	0.14
G1	0.17	0.8	-	4	1.04	0.02	8	0.40	2.70	0.28
G2	0.31	0.8	-	4	1.16	0.02	8	0.40	2.70	0.28

\* BASED ON 75% FULL

\* EQUATION 1.2 = C<sub>1</sub> COEFF  
C<sub>2</sub> = 1.49 CORRECTION FACTOR



SNC-Lavalin Engineers & Constructors  
Texas State Board of Professional  
Engineers Registration No. 1178

10/24/79



Figure E-4  
Drainage Calculation Table  
EER LaPorte Recycling Center  
LaPorte, Texas  
Tech Revision #1 October 201

NO.	DESCRIPTION	IN	OUT	IN	OUT	IN	OUT
1							
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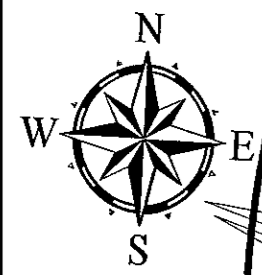
DRAINAGE CALCULATION TABLE  
25 TON/DAY MEDICAL WASTE TREATMENT PLANT  
ENVIRONMENTAL RESOURCES LTD

DATE: 10/24/79  
BY: [Signature]  
CHECKED: [Signature]  
SCALE: AS SHOWN

PROJECT NO: 15054-0000-41EB-0001

**Exhibit C**

**Figure II.H(1) - Published Zoning Map**



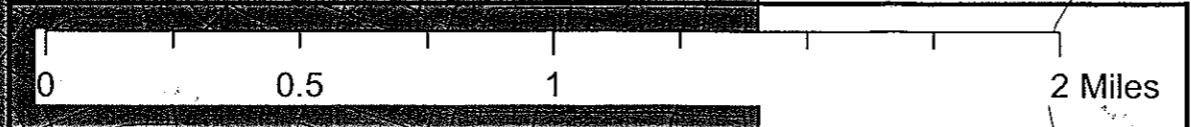
EER La Porte Recycling Center

10845 STRANG RD.

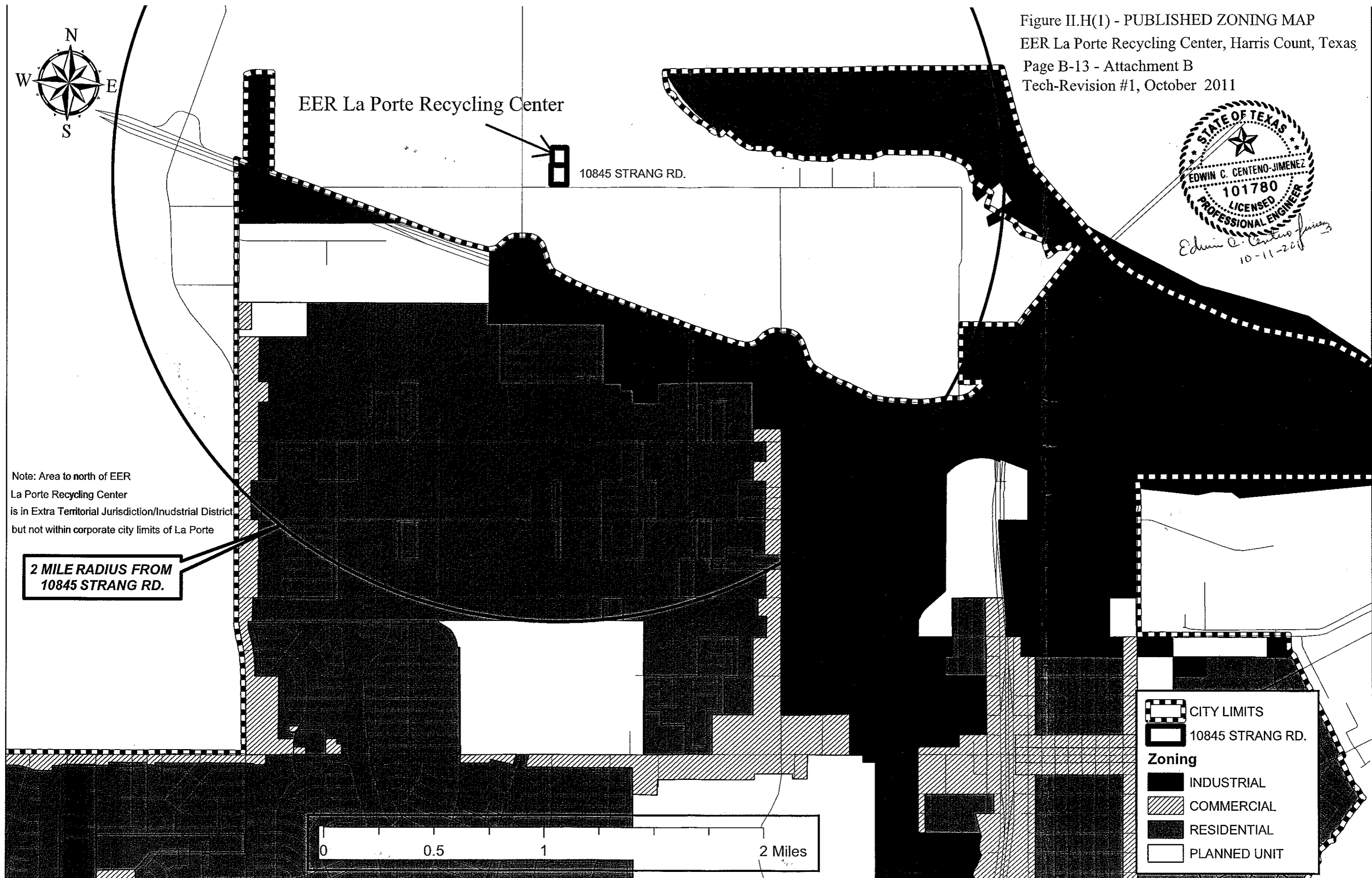


Note: Area to north of EER  
La Porte Recycling Center  
is in Extra Territorial Jurisdiction/Industrial District  
but not within corporate city limits of La Porte

**2 MILE RADIUS FROM  
10845 STRANG RD.**



	CITY LIMITS
	10845 STRANG RD.
<b>Zoning</b>	
	INDUSTRIAL
	COMMERCIAL
	RESIDENTIAL
	PLANNED UNIT

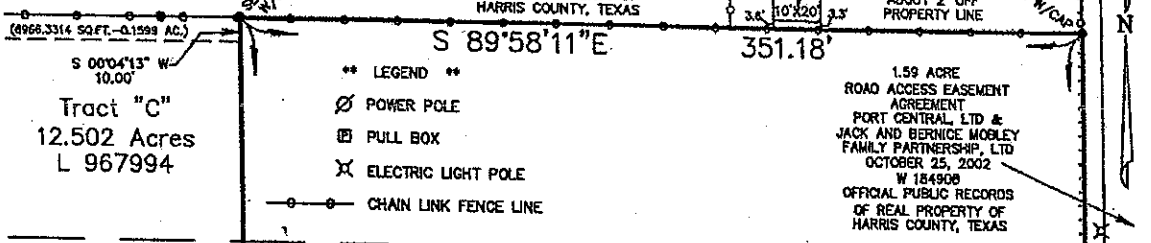
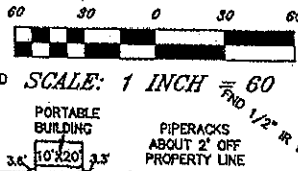


**Exhibit D**

**Figure I.D - Drawing of Metes and Bounds Description**

**Enoch Brinson Survey  
Abstract No. 5**

6.86 ACRES  
PORT CENTRAL, LTD  
TO  
JACK AND BERNICE MOBLEY FAMILY PARTNERSHIP, LTD  
OCTOBER 25, 2002  
W 184907  
OFFICIAL PUBLIC RECORDS  
OF REAL PROPERTY OF  
HARRIS COUNTY, TEXAS



- \*\* LEGEND \*\***
- ⊗ POWER POLE
  - ⊠ PULL BOX
  - ⊗ ELECTRIC LIGHT POLE
  - CHAIN LINK FENCE LINE

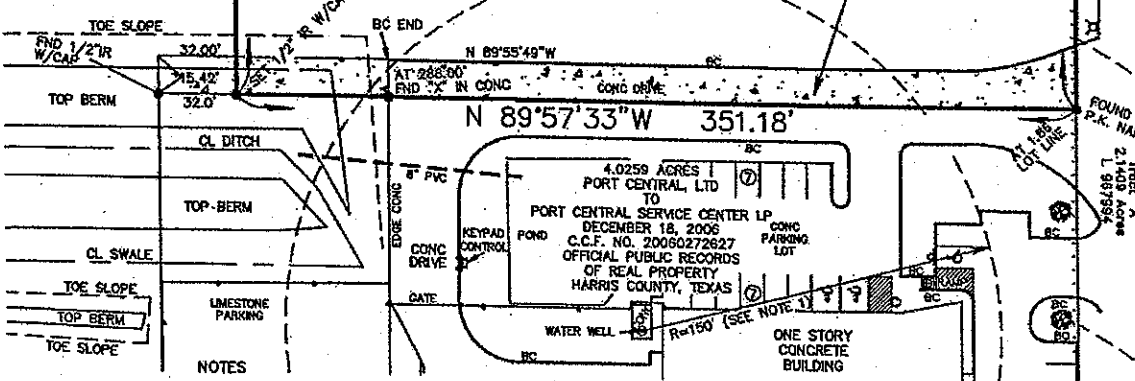
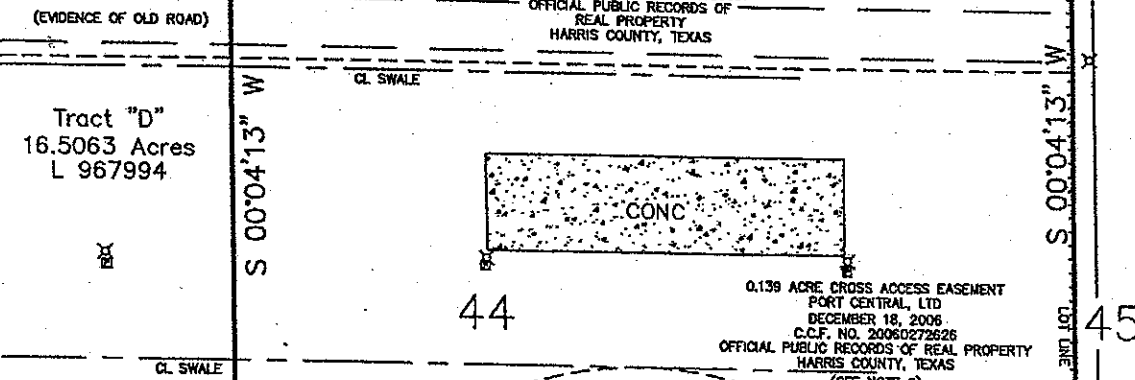
Tract "C"  
12.502 Acres  
L 967994

1.59 ACRE  
ROAD ACCESS EASEMENT  
AGREEMENT  
PORT CENTRAL, LTD &  
JACK AND BERNICE MOBLEY  
FAMILY PARTNERSHIP, LTD  
OCTOBER 25, 2002  
W 184908  
OFFICIAL PUBLIC RECORDS  
OF REAL PROPERTY OF  
HARRIS COUNTY, TEXAS

**3.3398 ACRES**

PART OF 27.8233 ACRES  
MILLENNIUM PETROCHEMICALS, INC.  
TO  
PORT CENTRAL, LTD  
OCTOBER 21, 2002  
COUNTY CLERK'S FILE NO. W174501  
OFFICIAL PUBLIC RECORDS  
OF REAL PROPERTY  
HARRIS COUNTY, TEXAS  
&  
MODIFICATION AND EXTENSION AGREEMENT  
BETWEEN PORT CENTRAL, LTD., ET AL  
OCTOBER 24, 2004  
COUNTY CLERK'S FILE NO. Y138037  
OFFICIAL PUBLIC RECORDS OF  
REAL PROPERTY  
HARRIS COUNTY, TEXAS

RESIDUE OF 27.8233 ACRES  
MILLENNIUM PETROCHEMICALS, INC.  
TO  
PORT CENTRAL, LTD  
OCTOBER 21, 2002  
COUNTY CLERK'S FILE NO. W174501  
OFFICIAL PUBLIC RECORDS OF REAL PROPERTY  
HARRIS COUNTY, TEXAS  
&  
MODIFICATION AND EXTENSION AGREEMENT  
BETWEEN PORT CENTRAL, LTD., ET AL  
OCTOBER 24, 2004  
COUNTY CLERK'S FILE NO. Y138037  
OFFICIAL PUBLIC RECORDS OF  
REAL PROPERTY  
HARRIS COUNTY, TEXAS



- NOTE 1:** SANITARY CONTROL EASEMENT DATED MARCH 19, 2004 FROM PORT CENTRAL, LTD TO PORT CENTRAL, LTD, FOR ALL OF THE AREA WITHIN A 150 FOOT RADIUS OF THE WATER WELL, RECORDED IN COUNTY CLERK'S FILE NO. X479332 OF THE OFFICIAL PUBLIC RECORDS OF REAL PROPERTY OF HARRIS COUNTY, TEXAS.
- NOTE 2:** 20 FEET RIGHT-OF-WAY AND EASEMENT FROM PORT CENTRAL, LTD. TO GULFTERRA INTRASTATE, L.P. DATED FEBRUARY 24, 2004 AND RECORDED IN COUNTY CLERK'S FILE NO. X415882 OF THE OFFICIAL PUBLIC RECORDS OF REAL PROPERTY OF HARRIS COUNTY, TEXAS; BEING 5 FEET NORTH AND WEST AND 15 FEET SOUTH AND EAST OF BASELINE DESCRIBED IN SAID INSTRUMENT.
- NOTE 3:** ACCORDING TO REVISED PRELIMINARY FLOOD INSURANCE RATE MAP COMMUNITY PANEL NO. 46201C0930L, PRELIMINARY DATE OF JUNE 8, 2006, THE TRACTS OF LAND SHOWN HEREON ARE IN ZONE "X" (UNSHADED) AND IN AN AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.
- NOTE 4:** LOTS 43, 44 AND 45 REFERENCED HEREON ARE OUT OF THE STRANG SUBDIVISION AS RECORDED IN VOLUME 75 AT PAGE 22 OF THE DEED RECORDS OF HARRIS COUNTY, TEXAS.
- NOTE 5:** 13.5977 ACRE TRACT SHOWN HEREON IS SUBJECT TO RESTRICTIVE COVENANTS AS SET OUT UNDER CLERK'S FILE NO. W174501 OF THE REAL PROPERTY RECORDS OF HARRIS COUNTY, TEXAS.
- NOTE 6:** 13.5977 ACRE TRACT SHOWN HEREON IS SUBJECT TO EASEMENTS AND TERMS, CONDITIONS AND STIPULATIONS AS SET FORTH IN DECLARATION OF ACCESS EASEMENT AS RECORDED UNDER CLERK'S FILE NO. 2006027262 OF THE REAL PROPERTY RECORDS OF HARRIS COUNTY, TEXAS.

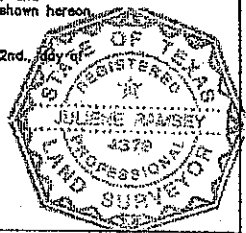
NOTE: COORDINATES AND BEARINGS REFER TO QUANTUM PLANT COORDINATES AND BEARINGS. BEARINGS ARE ALSO BASED ON DEED BEARINGS AND FOUND MONUMENTS IN THE SOUTH LINE OF THAT CERTAIN 6.86 ACRE TRACT OF LAND AS CONVEYED BY PORT CENTRAL, LTD. TO JACK AND BERNICE MOBLEY FAMILY PARTNERSHIP, LTD., BY DEED DATED OCTOBER 25, 2002 AND RECORDED UNDER COUNTY CLERK'S FILE NO. W184907 OF THE OFFICIAL PUBLIC RECORDS OF REAL PROPERTY OF HARRIS COUNTY, TEXAS.

REFERENCE IS MADE TO METES AND BOUNDS DESCRIPTION OF EVEN DATE ACCOMPANYING THIS PLAT.

I, Juliene Ramsey, Reg. Professional Land Surveyor No. 4379, do hereby certify that this plat delineates the results of an on the ground survey made under my supervision in March, 2007 and that all lines, boundaries, and landmarks are accurately shown hereon.

WITNESS my hand and seal at Baytown, Texas, this the 2nd, April, A. D., 2007.

*Julienne Ramsey*  
REG. PROFESSIONAL LAND SURVEYOR  
NO. 4379



<b>BHA-HUTCHISON &amp; ASSOCIATES</b> ENGINEERS & SURVEYORS 1209 DECKER DRIVE, BAYTOWN, TEXAS 281/422-8213	SCALE:	1" = 60'	JOB NO.:	072985B
	DRAWN BY:	AR	DRWN-NAME:	2985B-1.DWG
			CHECKED BY:	AJR

Figure I.D -Drawing of Boundary Metes and Bounds Description, EER La Porte Recycling Center - December 1, 2010 Page B-5

**Exhibit E**

**Texas Registered Professional Engineer Statement**



**SNC • LAVALIN**



**SNC • LAVALIN**  
**ENGINEERS & CONSTRUCTORS INC.**  
9009 West Loop South  
Suite 800  
Houston, Texas 77096-1719  
USA

Telephone: (713) 667-9162  
Fax: (713) 667-9241  
www.snclavalin.com

October 5, 2011

To Whom It May Concern:

Subject: EER La Porte Recycling Facility

In the opinion of Mr. Shimon Borik, Texas Registered P.E., License Number 53466, on the basis of a review of the equipment specifications and water supply calculations, there is an adequate water supply under pressure to fight fires at the EER LaPorte Recycling Facility.

Sincerely,

Shimon Borik  
Sr. Project Manager  
SNC-Lavalin Engineers & Constructors Inc.  
9009 West Loop South  
Suite 800  
Houston, TX 77096



**Exhibit F**

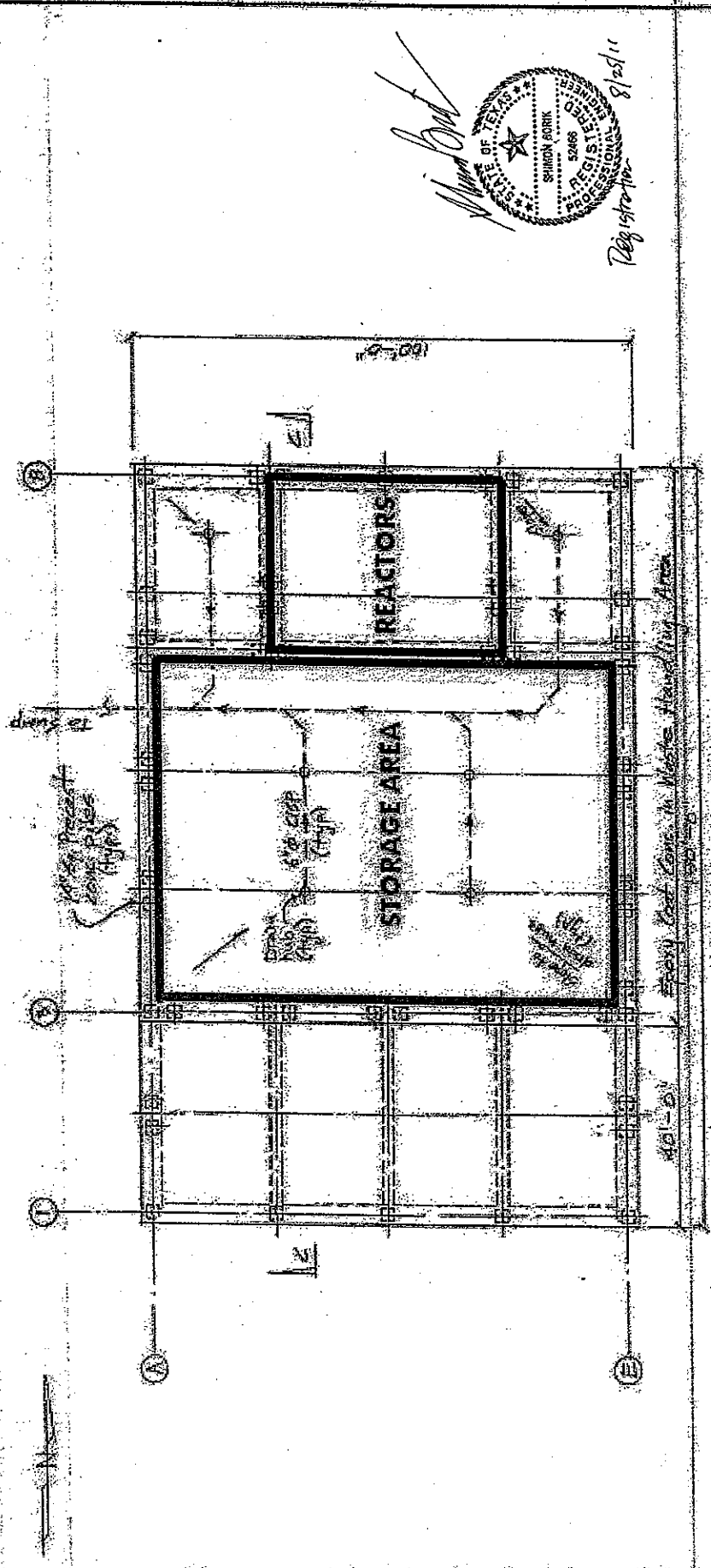
Figure II.G(3) – Plan View, Generalized Medical Waste Treatment Facility Foundation Plan  
Figure II.G(4) – Plan View, Generalized Medical Waste Treatment Facility Foundation Plan  
Figure II.G(5) – Medical Waste Treatment Facility Foundation Cross Section (Section C-C)

15054

SHEET NO. SK-8  
 DATE 8/21/11  
 PROJECT NO. 15054  
 PROJECT NAME Subsiding Medical Waste Treatment  
 CLIENT Greif Bros Pharmacy

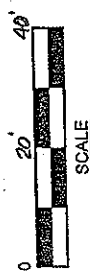


**SNC-LAVALIN**  
 A DIVISION OF  
 BENTLEY SYSTEMS INC.  
 1000 UNIVERSITY AVENUE  
 SUITE 1000  
 BENTLEY, ONTARIO  
 L5R 9Y7



[Signature]  
 REGISTERED PROFESSIONAL ENGINEER  
 STATE OF TEXAS  
 SHAWN COOK  
 REG. NO. 812511  
 Registration 8/21/11

FOUNDATION PLAN



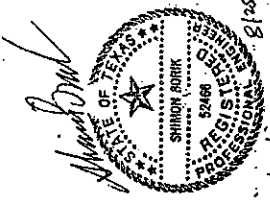
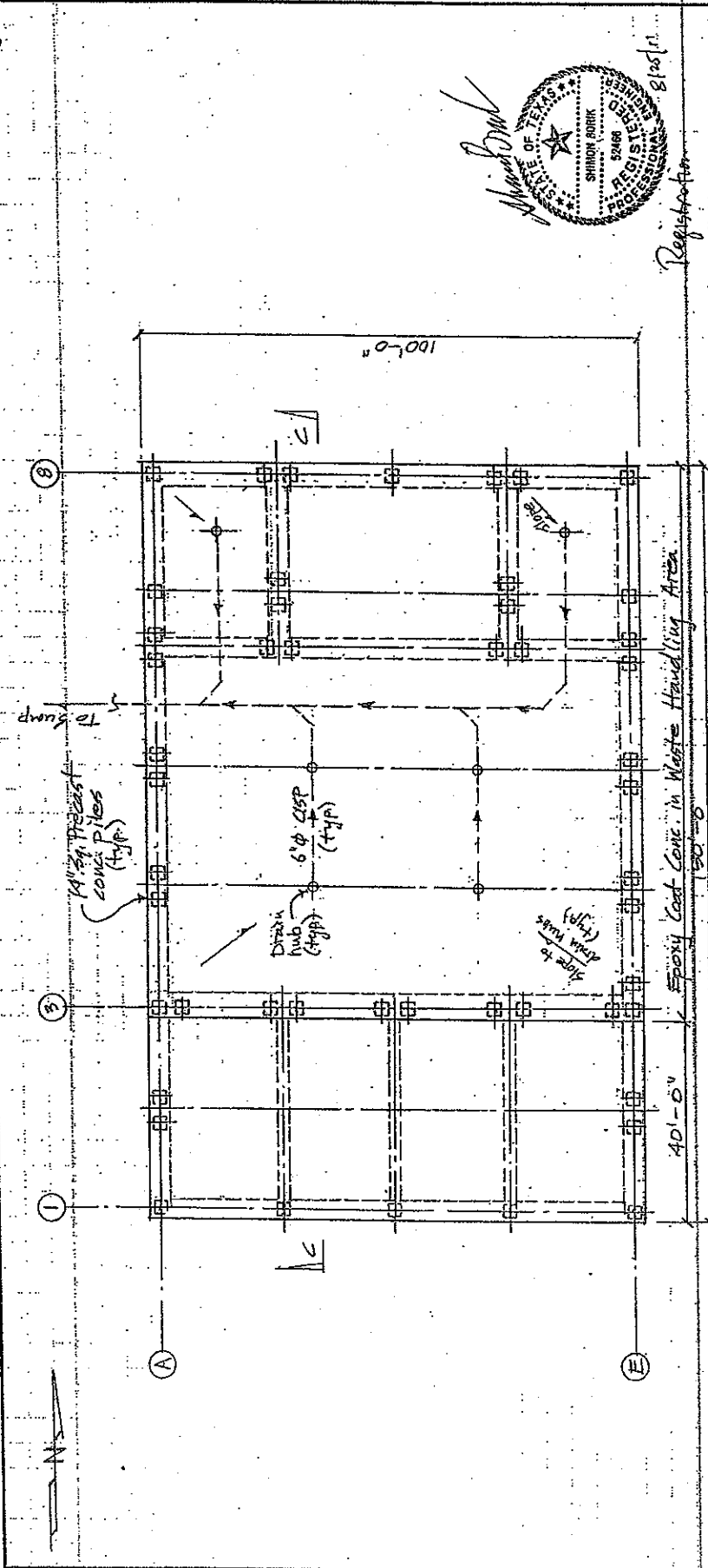
Tech-Revision #1, October 2011

JOB BER 15054  
 SHEET NO. SK-8 OF \_\_\_\_\_ DATE 6/7/11  
 CALCULATED BY [Signature]  
 CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 PROJECT 25 bed/day Medical Waste Treatment (Preliminary)



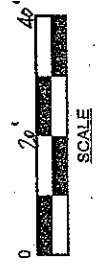
**SNC-LAVALIN**

500 West Loop South, #800  
 Houston, TX 77056-2719  
 Tel: (281) 867-6241  
 Fax: (281) 867-6242



[Signature] 8/15/11  
 Registrar

FOUNDATION PLAN



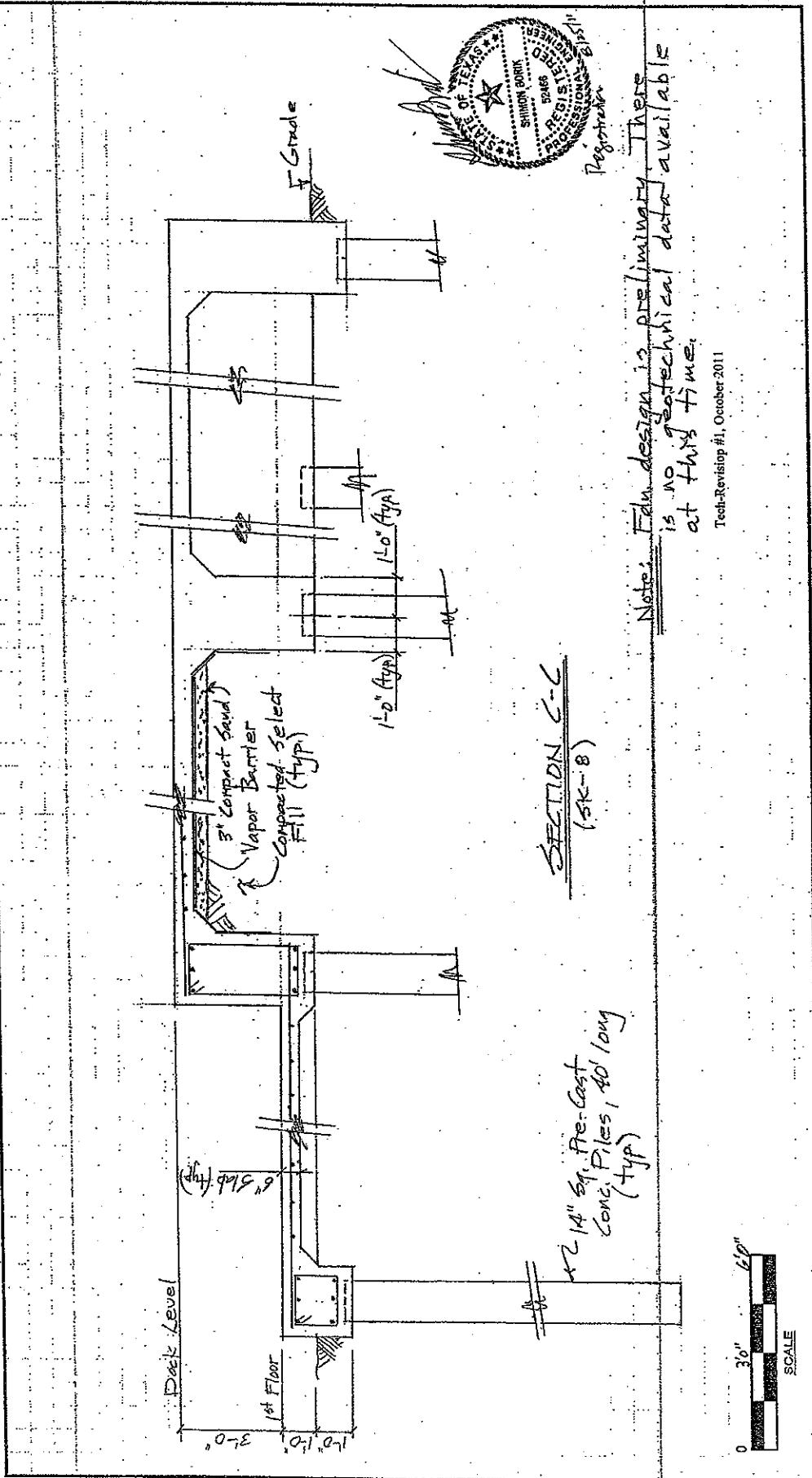
Tech-Revision #1, October 2011

JOB FER 17054  
 SHEET NO. SK-9 OF 9/11  
 CALCULATED BY GAH DATE 6/7/11  
 CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 SCALE 25 ton/day Medical Waste Treatment  
Preliminary

**SNC-LAVALIN**  
 6591 W. 14th Street, 8500  
 Houston, TX 77050-7170  
 (713) 867-9162  
 Fax: (713) 867-9241

2800 Drake Drive  
 Baytown, TX 77520  
 (281) 426-1323  
 Fax: (281) 426-1648 & 8146

Certified  
**ISO**  
**9001**

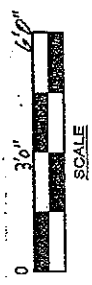


**SECTION C-C**  
**(SK-8)**

2 14" sq. fire-cast  
 conc. Piles, 40' long  
 (typ)

Note: Elevation design is preliminary. There  
 is no geotechnical data available  
 at this time.

Tech-Revision #1, October 2011



**Exhibit G**

TCEQ Form 0650, Page 10, Signed Certification Page

Signature Page

I, YITZHAK APELOIG  
(Operator)

CHAIRMAN  
(Title)

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

Signature: [Handwritten Signature]

Date: Sep. 14, 2011

-----  
TO BE COMPLETED BY THE OPERATOR IF THE APPLICATION IS SIGNED BY AN AUTHORIZED REPRESENTATIVE FOR THE OPERATOR

I, \_\_\_\_\_, hereby designate \_\_\_\_\_  
(Print or Type Operator Name) (Print or Type Representative Name)

as my representative and hereby authorize said representative to sign any application, submit additional information as may be requested by the Commission; and/or appear for me at any hearing or before the Texas Commission on Environmental Quality in conjunction with this request for a Texas Water Code or Texas Solid Waste Disposal Act permit. I further understand that I am responsible for the contents of this application, for oral statements given by my authorized representative in support of the application, and for compliance with the terms and conditions of any permit which might be issued based upon this application.

\_\_\_\_\_  
Printed or Typed Name of Operator or Principal Executive Officer

\_\_\_\_\_  
Signature

SUBSCRIBED AND SWORN to before me by the said YITZHAK APELOIG.

On this 14<sup>th</sup> day of SEPT., 2011

My commission expires on the 9<sup>th</sup> day of DECEMBER, 2013.

[Handwritten Signature]  
Notary Public in and for

HARRIS County, Texas

(Note: Application Must Bear Signature & Seal of Notary Public)

