

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
NOTICE OF FINAL PERMIT

In the Matter of an
Application for Permit by:


Ms. Nancy McCann
Urban Environmental Coordinator
City of Tampa
306 East Jackson Street, 5N
Tampa, Florida 33602

DEP File No. 0570127-003-AC
PSD-FL-086B
McKay Bay Refuse-to-Energy Facility
Hillsborough County

Enclosed is final PSD permit modification number 0570127-003-AC and PSD-FL-086B. This permit authorizes the City of Tampa to revise the number of lime and carbon silos and provides for a description of the control equipment for those silos and the ash and scalper buildings. This permit is issued pursuant to Chapter 403, Florida Statutes.

Any party to this order has the right to seek judicial review of it under section 120.68 of the Florida Statutes, by filing a notice of appeal under rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department of Environmental Protection in the Office of General Counsel, Mail Station #35, 3900 Commonwealth Boulevard, 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 must be filed within thirty days after this order is filed with the clerk of the Department.

Executed in Tallahassee, Florida.


C. H. Fancy, P.E., Chief
Bureau of Air Regulation

CERTIFICATE OF SERVICE


The undersigned duly designated deputy agency clerk hereby certifies that this Notice of Final Permit (including the Final permit) was sent by certified mail (*) and copies were mailed by U.S. Mail before the close of business on 6-15-00 to the person(s) listed:

Nancy McCann, City of Tampa *
Dick Greco, Mayor, City of Tampa
Greg Grotecloss, City of Tampa
Daniel Kleman, Hillsborough County Administrator
Douglas W. Fredericks, P.E., CDM
Don Elias, RTP

David S. Dee, Landers & Parsons
Bill Thomas, P.E., DEP SWD
Jerry Campbell, Hillsborough County EPC
Mr. Gregg Worley, EPA
Mr. John Bunyak, NPS

Clerk Stamp

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


(Clerk) 6-15-00
(Date)

BEST AVAILABLE COPY

7 341 355 314

US Postal Service
Receipt for Certified Mail

No Insurance Coverage Provided.
Do not use for International Mail (See reverse)

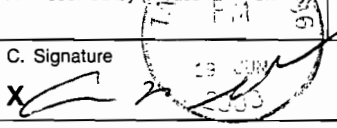
Sent to	Nancy McCann	
Street & Number	City of Tampa	
Post Office, State, & ZIP Code	Tampa, FL	
Postage	\$	
Certified Fee		
Special Delivery Fee		
Restricted Delivery Fee		
Return Receipt Showing to Whom & Date Delivered		
Return Receipt Showing to Whom, Date, & Addressee's Address		
TOTAL Postage & Fees	\$	
Postmark or Date	6-15-00	
	0570127-03-AC PSD-F1-086B	

PS Form 3800, April 1995

- 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:
 Ms. Nancy McCann
 Urban Env. Coordinator
 City of Tampa
 306 E. Jackson St., 5N
 Tampa, FL 33602

Received by (Please Print Clearly) _____ Date of Delivery _____

C. Signature  Agent
 Addressee

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

2. Article Number (Copy from service label) **7 341 355 314**

FINAL DETERMINATION

City of Tampa
McKay Bay Refuse-to-Energy Facility
DEP File No. 0570127-003-AC, PSD-FL-086B

The Department distributed a public notice package on April 18, 2000 to allow the applicant to modify PSD permit PSD-FL-086A for the City's McKay Bay Refuse-to-Energy Facility located at 107 North 34th Street, Tampa, Hillsborough County, to revise the number of lime and carbon silos and describe the control equipment for those silos and the ash and scalper buildings. The Public Notice of Intent to Issue was published in The Tampa Tribune on May 2, 2000.

COMMENTS/CHANGES

No comments were received by the Department from the public, EPA, NPS/FWS, Hillsborough County EPC, or the applicant.

CONCLUSION

The final action of the Department is to issue the permit with no changes.



Department of Environmental Protection

Jeb Bush
Governor

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

David B. Struhs
Secretary

June 5, 2000

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Ms. Nancy McCann
Urban Environmental Coordinator
City of Tampa
306 East Jackson Street, 5N
Tampa, Florida 33602

Re: DEP File No. 0570127-003-AC, PSD-FL-086B
Modification of Permit No. 0570127-002-AC, PSD-FL-086A
McKay Bay Refuse-to-Energy Facility

The applicant, the City of Tampa, applied on March 29, 2000, to the Department for a modification to PSD permit number 0570127-002-AC, PSD-FL-086A for its McKay Bay Refuse-to-Energy Facility located at 107 North 34th Street, Tampa, Hillsborough County. The modification is to revise the number of lime and carbon silos and describe the control equipment for those silos and the ash and scalper buildings. The Department has reviewed the modification request. The referenced permit is hereby modified as follows:

The entries for emissions units 100, 101 and 102 for the emissions units tables in the permit (in Section III, Subsections A (EU 100), C and D) shall be revised as follows:

EMISSIONS UNIT NO.	EMISSIONS UNITS DESCRIPTION
100	<u>Ash building and handling system, including scrubbers for ash building and scalper building</u>
101	<u>Two lime silos with common vent filter</u>
102	<u>Two carbon silos each with vent filter</u>

Section III, Subsection C shall be revised as follows:

EMISSION LIMITATIONS

C.1 Lime & Carbon Silos and Ash Handling System:

Particulate emissions from these emissions units shall be limited as follows:

- (a) In no case shall PM emissions from the lime storage silos' common exhaust exceed 0.015 gr/dscf during filling operations of the lime storage silos. Visible emissions shall not exceed 5% opacity in accordance with specific condition C.3.
- (b) In no case shall particulate matter emissions from ~~the~~ either activated carbon storage silo exhaust exceed 0.015 gr/dscf during filling operations of the activated carbon storage silos. Visible emissions shall not exceed 5% opacity in accordance with specific condition C.3.
- (c) Visible emissions from the ash conveyor systems, transfer points, buildings, scrubber exhausts for the ash building and scalper building, or enclosures of ash conveying systems

"More Protection, Less Process"

shall not occur more than 5 percent of the time during the observation period, except during times of maintenance or repair of these systems. This emission limit does not cover visible emissions discharged inside buildings or enclosures of ash conveying systems.

- (d) The potential for dust generation by ash handling activities will be mitigated by quenching the ash prior to loading in ash transport trucks. The ash handling facilities shall be enclosed and the permittee is authorized to install scrubbers on the ash building and scalper building to control particulate emissions. Residue from the grates, grate siftings, and ash from the combustor/boiler and fabric filter hoppers during normal operations shall be discharged into the ash quenching system, or otherwise handled in a manner to minimize visible dust. The ash/residue in the ash handling building shall remain sufficiently moist to prevent dust during storage and handling operations.

[Rule 62-4.070(3), F.A.C., 40 CFR 60.36b and 40 CFR 60.55b]

[Note: The fugitive particulate matter control requirements for the ash handling activities specified in 40 CFR 60.55b and in this permit represent RACT for this facility pursuant to the Department's authority of Rule 62-296.711(2)(c), F.A.C.]

COMPLIANCE AND PERFORMANCE TESTING

C.2 Fugitives Emissions Compliance: The compliance method for the ash handling facilities, including the ash ~~handling building vent~~ and scalper building scrubber exhausts, shall be EPA Method 22, Visual Determination of Fugitives Emissions From Material Sources.

- (a) The minimum observation time ~~will~~ shall be three ~~hours~~ one hour periods, and ~~will~~ shall include periods when ash is being transferred from the MWC unit to the storage area, and when ash is being loaded for disposal.
- (b) Compliance testing for the ~~Ash Handling Building vent~~ and ash conveyor system and scrubber exhausts for the ash building and scalper building shall be conducted within 180 days of completion of construction and initial operation and annually thereafter.

Permanent stack testing facilities are not required for the ~~ash handling building vent~~ scrubber exhausts for the ash building and scalper building.

[Rule 62-4.070(3), F.A.C., 40 CFR 60.36b and 40 CFR ~~60.55b~~ 60.58b]

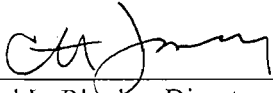
C.3. Carbon and Lime Storage Silos PM Compliance Requirements: The PM compliance test requirements are waived for the lime and carbon storage silos and an alternate standard of 5 percent opacity shall apply. Compliance testing for the lime and carbon silos shall be conducted within 180 days of completion of construction and initial operation and annually thereafter. The visible emission tests shall be performed for each silo during filling operations using EPA Method 9. A visible emission reading greater than 5 percent opacity does not create a presumption that the emission limit (in gr/dscf) is being violated, but may require the owner or operator to perform a particulate stack test. Permanent stack testing facilities are not required for the lime and carbon silos. The owner or operator may install temporary stack sampling facilities to conduct such a test, if required.

[Rule 62-297.620(4), F.A.C.]

A copy of this letter shall be filed with the referenced permit and shall become part of the permit. This permit modification is issued pursuant to Chapter 403, Florida Statutes.

Any party to this order (permit modification) has the right to seek judicial review of it under Section 120.68, F.S., by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department of Environmental Protection in the Office of General Counsel, Mail Station #35, 3900 Commonwealth Boulevard, 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 must be filed within thirty days after this order is filed with the clerk of the Department.

Executed in Tallahassee, Florida.


for Howard L. Rhodes, Director
Division of Air Resources
Management

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this permit modification was sent by certified mail (*) and copies were mailed by U.S. Mail before the close of business on 6-15-00 to the person(s) listed:

Nancy McCann, City of Tampa *
Dick Greco, Mayor, City of Tampa
Greg Grotecloss, City of Tampa
Daniel Kleman, Hillsborough County Administrator
Douglas W. Fredericks, P.E., CDM
Don Elias, RTP
David S. Dee, Landers & Parsons
Bill Thomas, P.E., DEP SWD
Jerry Campbell, Hillsborough County EPC
Mr. Gregg Worley, EPA
Mr. John Bunyak, NPS

Clerk Stamp

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

Kerni Seber 6-15-00
(Clerk:) (Date)

Florida Department of
Environmental Protection

Memorandum

TO: Howard L. Rhodes

THRU: Clair Fancy
Al Linero *AL Linero AAC*

FROM: Joe Kahn *JK*

DATE: June 5, 2000

SUBJECT: DEP File No. 0570127-003-AC, PSD-FL-086B
Modification of Permit No. 0570127-002-AC, PSD-FL-086A
McKay Bay Refuse-to-Energy Facility

Attached for approval and signature is the final modification to PSD permit number 0570127-002-AC, PSD-FL-086A for the City of Tampa's McKay Bay Refuse-to-Energy Facility located at 107 North 34th Street, Tampa, Hillsborough County. The modification is to revise the number of lime and carbon silos and describe the control equipment for those silos and the ash and scalper buildings.

The Public Notice requirements have been met on May 2, 2000 by publishing in The Tampa Tribune.

I recommend your approval and signature.

Day 90 is July 31, 2000.

Attachments

/jk

1,
RECEIVED

MAY 10 2000



BUREAU OF AIR REGULATION

WHEELABRATOR MCKAY BAY, INC.
A WASTE MANAGEMENT COMPANY

107 North 34th Street
Tampa, Florida 33605
(813) 248-1457
(813) 247-2052 Fax

May 8, 2000

Mr. Joe Kahn
Florida Department of Environmental Protection
Division of Air Management
Mail Station 5505
2600 Blirstone Road
Tallahassee, Florida 32399-2400

RE: Modification of Permit No. 0570127-002-AC, PSD-FL-086A

Dear Mr. Kahn:

Regarding your telephone conversation with Mr. Greig Grotecloss of the City of Tampa on May 5, he has requested that we forward the original copy of the public notice for the subject permit modification directly to you. The notarized original is attached for your use.

If you have any questions, please call Mr. Grotecloss or myself.

Sincerely,

William F. Hooper
Director of Environmental Compliance,
Health and Safety

Attachment

Cc: G. Grotecloss
N. McCann
M. Killeen
L. Koon

cc: File
Hillsboro Co.
SWD
EPA
NPS

RECEIVED

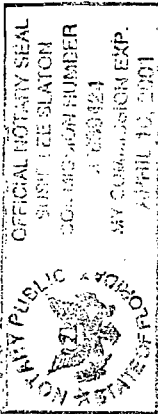
BEST AVAILABLE COPY

MAY 10 2000

THE TAMPA TRIBUNE
Published Daily
Tampa, Hillsborough County, Florida

BUREAU OF AIR REGULATION
State of Florida
County of Hillsborough } ss.

Before the undersigned authority personally appeared J. Rosenthal, who on oath says that she is Classified Billing Manager of The Tampa Tribune, a daily newspaper published at Tampa in Hillsborough County, Florida; that the attached copy of advertisement being a



LEGAL NOTICE

in the matter of

PUBLIC NOTICE OF INTENT

was published in said newspaper in the issues of
MAY 2, 2000

Affiant further says that the said The Tampa Tribune is a newspaper published at Tampa in said Hillsborough County, Florida, and that the said newspaper has heretofore been continuously published in said Hillsborough County, Florida, each day and has been entered as second class mail matter at the post office in Tampa, in said Hillsborough 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, this advertisement for publication in the said newspaper.

J. Rosenthal (handwritten signature)

Sworn to and subscribed by me, this 3 day
of MAY 00 A.D. 20

Personally Known [checked] or Product Identification
Type of Identification Produced

(SEAL)

Susie Lee Slaton (handwritten signature)

PUBLIC NOTICE OF INTENT TO ISSUE PSD PERMIT MODIFICATION STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION DEP File No 0570127-003-AC PSD-FL-086B City of Tampa McKay Bay Refuse-to-Energy Facility

Hillsborough County The Department of Environmental Protection (Department) gives notice of its intent to issue a PSD permit modification to the City of Tampa for its McKay Bay Refuse-to-Energy Facility located at 10 North 34th Street, Tampa Hillsborough County. The modification is to revise the number of lime and carbon silos and describe the control equipment for those silos and the ash and scrapper buildings. The applicant's mailing address is 306 East Jackson Street, 5N, Tampa, Florida 33602. A revised Best Available Control Technology (BACT) determination was not required pursuant to Rule 62-212.400, F.A.C., Prevention of Significant Deterioration (PSD).

Total emissions of pollutants will not increase as a result of this project. An air quality impact analysis was not required for this project. This project is not subject to review under Section 403.506 F.S. (Power Plant Siting Act), because it provides for no expansion in steam generating capacity.

The Department will issue the final PSD permit modification with the attached conditions unless a response received in accordance with the following procedures results in a different decision or significant change of terms or conditions. The Department will accept written comments and requests for public meetings concerning the proposed PSD permit modification. Issuance action for a period of 30 (thirty) days from the date of publication of this Public Notice of Intent to Issue PSD Permit modification. Written comments and requests for public meetings should be provided to the Department's Bureau of Air Regulation at 2600 Blair Stone Road, Mail Station # 5505, Tallahassee, FL 32399-2400. Any written comments filed shall be made available for public inspection. If written comments received result in a significant change in the proposed agency action, the Department shall revise the proposed PSD permit modification and require, if applicable, another Public Notice.

The Department will issue the PSD permit modification with the attached conditions unless a timely petition for an administrative hearing is filed pursuant to sections 120.569 and 120.57 F.S., before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below. Mediation is not available in this proceeding.

A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative proceeding (hearing) under 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 persons other than those entitled to written notice under section 120.60(3) of the Florida Statutes 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. Under section 120.60(3), however, any person who asked the Department for notice of agency action may file a petition within fourteen days of receipt of that notice, regardless of the date of publication. A petitioner shall 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 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 F. S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205 of the Florida Administrative Code.

A petition that disputes the material facts on which the Department's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address, and telephone number of the petitioner, the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding, and an explanation of how the petitioner's substantial interests will be affected by the agency determination; (c) A statement of how and when petitioner received notice of the agency action or proposed action; (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate; (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action; and (g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the agency to take with respect to the agency's proposed action.

A petition that does not dispute the material facts upon which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain

the same information as set forth above, as required by rule 28-106.301.

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. 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.

A complete project file 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:

Dept. of Environmental Protection
Bureau of Air Regulation
Suite 4, 111 S. Magnolia Drive
Tallahassee, Florida, 32301
Telephone: 850/488-0114
Fax 850/922-6979
Air Management Division
Hillsborough County
Environmental Protection Commission
1410 North 21 Street
Tampa, Florida 33605
Telephone: 813/272-5530
Fax: 813/272-5605
Dept. of Environmental Protection
Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619-8218
Telephone: 813/744-6100
Fax 813/744-6084

The complete project file includes the application, technical evaluations, draft PSD permit modification, and the information submitted by the responsible official, exclusive of confidential records under Section 403.111, F.S. Interested persons may contact the Administrator, New Source Review Section, or the Department's reviewing engineer for this project, Joseph Kahn, P.E., at 111 South Magnolia Drive, Suite 4, Tallahassee, Florida 32301, or call 850/488-0114, for additional information.

2468 5/2/00



Department of Environmental Protection

Jeb Bush
Governor

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

David B. Struhs
Secretary

April 10, 2000

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Ms. Nancy McCann
Urban Environmental Coordinator
City of Tampa
306 East Jackson Street, 5N
Tampa, Florida 33602

Re: DEP File No. 0570127-003-AC, PSD-FL-086B
Modification of Permit No. 0570127-002-AC, PSD-FL-086A
McKay Bay Refuse-to-Energy Facility

Dear Ms. McCann:

Enclosed is one copy of the draft PSD permit modification for the McKay Bay Refuse-to-Energy Facility located at 107 North 34th Street, Tampa, Hillsborough County. The Technical Evaluation and Preliminary Determination, the Department's Intent to Issue PSD Permit Modification and the Public Notice of Intent to Issue PSD Permit Modification are also included.

The Public Notice of Intent to Issue PSD Permit Modification must be published one time only, as soon as possible, in the legal advertisement section of a newspaper of general circulation in the area affected, pursuant to the requirements Chapter 50, Florida Statutes. Proof of publication, i.e., newspaper affidavit, must be provided to the Department's Bureau of Air Regulation office within seven days of publication. Failure to publish the notice and provide proof of publication may result in the denial of the permit modification.

Please submit any written comments you wish to have considered concerning the Department's proposed action to A. A. Linero, P.E., Administrator, New Source Review Section at the above letterhead address. If you have any other questions, please contact Joseph Kahn, P.E., at 850/921-9519 or Mr. Linero at 850/488-0114.

Sincerely,

C. H. Fancy, P.E., Chief,
Bureau of Air Regulation

CHF/jk

Enclosures

"More Protection, Less Process"

Printed on recycled paper.

In the Matter of an
Application for PSD permit modification by:

Ms. Nancy McCann
Urban Environmental Coordinator
City of Tampa
306 East Jackson Street, 5N
Tampa, Florida 33602

DEP File No. 0570127-003-AC
PSD-FL-086B
McKay Bay Refuse-to-Energy Facility
Hillsborough County

INTENT TO ISSUE PSD PERMIT MODIFICATION

The Department of Environmental Protection (Department) gives notice of its intent to issue a PSD permit modification (copy of draft PSD permit modification attached) for the proposed project, detailed in the application specified above and the enclosed Technical Evaluation and Preliminary Determination, for the reasons stated below.

The applicant, the City of Tampa, applied on March 29, 2000, to the Department for a modification to PSD permit number 0570127-002-AC, PSD-FL-086A for its McKay Bay Refuse-to-Energy Facility located at 107 North 34th Street, Tampa, Hillsborough County. The modification is to revise the number of lime and carbon silos and describe the control equipment for those silos and the ash and scalper buildings.

The Department has permitting jurisdiction under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210, and 62-212. The above actions are not exempt from permitting procedures. The Department has determined that a PSD permit modification is required to make these changes.

The Department intends to issue this PSD permit modification based on the belief that reasonable assurances have been provided to indicate that operation of these emission units will not adversely impact air quality, and the emission units will comply with all appropriate provisions of Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297, F.A.C.

Pursuant to Section 403.815, F.S., and Rule 62-110.106(7)(a)1., F.A.C., you (the applicant) are required to publish at your own expense the enclosed Public Notice of Intent to Issue PSD Permit Modification. The notice shall be published one time only in the legal advertisement section of a newspaper of general circulation in the area affected. Rule 62-110.106(7)(b), F.A.C., requires that the applicant cause the notice to be published as soon as possible after notification by the Department of its intended action. For the purpose of these rules, "publication in a newspaper of general circulation in the area affected" means publication in a newspaper meeting the requirements of Sections 50.011 and 50.031, F.S., in the county where the activity is to take place. If you are uncertain that a newspaper meets these requirements, please contact the Department at the address or telephone number listed below. The applicant shall provide proof of publication to the Department's Bureau of Air Regulation, at 2600 Blair Stone Road, Mail Station #5505, Tallahassee, Florida 32399-2400 (Telephone: 850/488-0114; Fax 850/ 922-6979). You must provide proof of publication within seven days of publication, pursuant to Rule 62-110.106(5), F.A.C. No permitting action for which published notice is required shall be granted until proof of publication of notice is made by furnishing a uniform affidavit in substantially the form prescribed in section 50.051, F.S. to the office of the Department issuing the permit. Failure to publish the notice and provide proof of publication may result in the denial of the permit modification pursuant to Rules 62-110.106(9) & (11), F.A.C.

The Department will issue the final permit modification with the attached conditions unless a response received in accordance with the following procedures results in a different decision or significant change of terms or conditions.

The Department will accept written comments and requests for public meetings concerning the proposed PSD permit modification issuance action for a period of 30 (thirty) days from the date of publication of Public Notice of Intent to Issue PSD Permit Modification. Written comments and requests for public meetings should be provided to the Department's Bureau of Air Regulation at 2600 Blair Stone Road, Mail Station #5505, Tallahassee, FL 32399-2400. Any written comments filed shall be made available for public inspection. If written comments received result in a significant change in the proposed agency action, the Department shall revise the proposed permit modification and require, if applicable, another Public Notice.

The Department will issue the PSD permit modification with the attached conditions unless a timely petition for an administrative hearing is filed pursuant to sections 120.569 and 120.57 F.S., before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below.

A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative proceeding (hearing) under 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 persons other than those entitled to written notice under section 120.60(3) of the Florida Statutes 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. Under section 120.60(3), however, any person who asked the Department for notice of agency action may file a petition within fourteen days of receipt of that notice, regardless of the date of publication. A petitioner shall 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 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 F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205 of the Florida Administrative Code.

A petition that disputes the material facts on which the Department's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address, and telephone number of the petitioner, the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination; (c) A statement of how and when petitioner received notice of the agency action or proposed action; (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate; (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action; and (g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the agency to take with respect to the agency's proposed action.

A petition that does not dispute the material facts upon which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301.

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. 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.

In addition to the above, a person subject to regulation has a right to apply for a variance from or waiver of the requirements of particular rules, on certain conditions, under Section 120.542 F.S. The relief provided by this state statute applies only to state rules, not statutes, and not to any federal regulatory requirements. Applying for a variance or waiver does not substitute or extend the time for filing a petition for an administrative hearing or exercising any other right that a person may have in relation to the action proposed in this notice of intent.

The application for a variance or waiver is made by filing a petition with the Office of General Counsel of the Department, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000. The petition must specify the following information: (a) The name, address, and telephone number of the petitioner; (b) The name, address, and telephone number of the attorney or qualified representative of the petitioner, if any; (c) Each rule or portion of a rule from which a variance or waiver is requested; (d) The citation to the statute underlying (implemented by) the rule identified in (c) above; (e) The type of action requested; (f) The specific facts that would justify a variance or waiver for the petitioner; (g) The reason why the variance or waiver would serve the purposes

of the underlying statute (implemented by the rule); and (h) A statement whether the variance or waiver is permanent or temporary and, if temporary, a statement of the dates showing the duration of the variance or waiver requested.

The Department will grant a variance or waiver when the petition demonstrates both that the application of the rule would create a substantial hardship or violate principles of fairness, as each of those terms is defined in Section 120.542(2) F.S., and that the purpose of the underlying statute will be or has been achieved by other means by the petitioner.

Persons subject to regulation pursuant to any federally delegated or approved air program should be aware that Florida is specifically not authorized to issue variances or waivers from any requirements of any such federally delegated or approved program. The requirements of the program remain fully enforceable by the Administrator of the EPA and by any person under the Clean Air Act unless and until the Administrator separately approves any variance or waiver in accordance with the procedures of the federal program.

Executed in Tallahassee, Florida.



C. H. Fancy, P.E., Chief
Bureau of Air Regulation

CERTIFICATE OF SERVICE

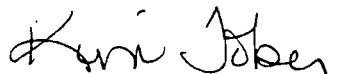
The undersigned duly designated deputy agency clerk hereby certifies that this Intent to Issue PSD Permit Modification (including the Public Notice of Intent to Issue PSD Permit Modification, Technical Evaluation and Preliminary Determination, and the draft PSD permit modification) was sent by certified mail (*) and copies were mailed by U.S. Mail before the close of business on 4-18-00 to the person(s) listed:

Nancy McCann, City of Tampa *
Dick Greco, Mayor, City of Tampa
Greg Grotecloss, City of Tampa
Daniel Kleman, Hillsborough County Administrator
Douglas W. Fredericks, P.E., CDM
Don Elias, RTP

David S. Dee, Landers & Parsons
Bill Thomas, P.E., DEP SWD
Jerry Campbell, Hillsborough County EPC
Mr. Gregg Worley, EPA
Mr. John Bunyak, NPS

Clerk Stamp

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


(Clerk)

4-18-00
(Date)

Z 031 391 950

US Postal Service

Receipt for Certified Mail

No Insurance Coverage Provided.

Do not use for International Mail (See reverse)

PS Form 3800, April 1995

Sent to: Nancy McCann	
Street & Number: City of Tampa	
Post Office, State, & ZIP Code: Tampa FL	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date: 0570127-003-AC 4-18-60 PSD-FI-086A	

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:
 Nancy McCann, UEC
 City of Tampa
 306 E Jackson St. SW
 Tampa, FL 33602

COMPLETE THIS SECTION ON DELIVERY

A. Received by (Please Print Clearly) _____ B. Date of Delivery _____

C. Signature: *[Signature]* Agent Addressee

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

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

4. Restricted Delivery? (Extra Fee) Yes

2. Article Number (Copy from service label)

Z 031 391 950

PUBLIC NOTICE OF INTENT TO ISSUE PSD PERMIT MODIFICATION

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

DEP File No. 0570127-003-AC, PSD-FL-086B

City of Tampa
McKay Bay Refuse-to-Energy Facility
Hillsborough County

The Department of Environmental Protection (Department) gives notice of its intent to issue a PSD permit modification to the City of Tampa for its McKay Bay Refuse-to-Energy Facility located at 107 North 34th Street, Tampa, Hillsborough County. The modification is to revise the number of lime and carbon silos and describe the control equipment for those silos and the ash and scalper buildings. The applicant's mailing address is: 306 East Jackson Street, 5N, Tampa, Florida 33602. A revised Best Available Control Technology (BACT) determination was not required pursuant to Rule 62-212.400, F.A.C., Prevention of Significant Deterioration (PSD).

Total emissions of pollutants will not increase as a result of this project. An air quality impact analysis was not required for this project. This project is not subject to review under Section 403.506 F.S. (Power Plant Siting Act), because it provides for no expansion in steam generating capacity.

The Department will issue the final PSD permit modification with the attached conditions unless a response received in accordance with the following procedures results in a different decision or significant change of terms or conditions.

The Department will accept written comments and requests for public meetings concerning the proposed PSD permit modification issuance action for a period of 30 (thirty) days from the date of publication of this Public Notice of Intent to Issue PSD Permit modification. Written comments and requests for public meetings should be provided to the Department's Bureau of Air Regulation at 2600 Blair Stone Road, Mail Station #5505, Tallahassee, FL 32399-2400. Any written comments filed shall be made available for public inspection. If written comments received result in a significant change in the proposed agency action, the Department shall revise the proposed PSD permit modification and require, if applicable, another Public Notice.

The Department will issue the PSD permit modification with the attached conditions unless a timely petition for an administrative hearing is filed pursuant to sections 120.569 and 120.57 F.S., before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below.

Mediation is not available in this proceeding.

A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative proceeding (hearing) under 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 persons other than those entitled to written notice under section 120.60(3) of the Florida Statutes 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. Under section 120.60(3), however, any person who asked the Department for notice of agency action may file a petition within fourteen days of receipt of that notice, regardless of the date of publication. A petitioner shall 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 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 F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205 of the Florida Administrative Code.

NOTICE TO BE PUBLISHED IN THE NEWSPAPER

A petition that disputes the material facts on which the Department's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address, and telephone number of the petitioner, the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination; (c) A statement of how and when petitioner received notice of the agency action or proposed action; (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate; (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action; and (g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the agency to take with respect to the agency's proposed action.

A petition that does not dispute the material facts upon which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by rule 28-106.301

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. 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..

A complete project file 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:

Dept. of Environmental Protection
Bureau of Air Regulation
Suite 4, 111 S. Magnolia Drive
Tallahassee, Florida, 32301
Telephone: 850/488-0114
Fax: 850/922-6979

Air Management Division
Hillsborough County
Environmental
Protection Commission
1410 North 21 Street
Tampa, Florida 33605
Telephone: 813/272-5530
Fax: 813/272-5605

Dept. of Environmental Protection
Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619-8218
Telephone: 813/744-6100
Fax: 813/744-6084

The complete project file includes the application, technical evaluations, draft PSD permit modification, and the information submitted by the responsible official, exclusive of confidential records under Section 403.111, F.S. Interested persons may contact the Administrator, New Source Review Section, or the Department's reviewing engineer for this project, Joseph Kahn, P.E., at 111 South Magnolia Drive, Suite 4, Tallahassee, Florida 32301, or call 850/488-0114, for additional information.

TECHNICAL EVALUATION
AND
PRELIMINARY DETERMINATION

City of Tampa
McKay Bay Refuse-to-Energy Facility
Hillsborough County

DEP File No. 0570127-003-AC
PSD-FL-086B

Department of Environmental Protection
Division of Air Resources Management
Bureau of Air Regulation

April 10, 2000

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

1. GENERAL INFORMATION

1.1 APPLICANT NAME AND ADDRESS

City of Tampa
306 East Jackson Street, 5N
Tampa, Florida 33602

Authorized Representative: Nancy McCann, Urban Environmental Coordinator

1.2 REVIEWING AND PROCESS SCHEDULE

March 29, 2000 Received permit application and fee
March 29, 2000 Application complete

2. FACILITY INFORMATION

The facility is located at 107 North 3rd Street, Tampa, Hillsborough County. The UTM coordinates of this facility are Zone 17 ; 360.0 km E ; 3091.9 km N. SIC codes are:

Industry Group No.	49	Electric, Gas and Sanitary Services
Industry No.	4953	Refuse Systems

The facility is a waste-to-energy installation employing mass burning of solid waste, heat recovery as superheated steam, and power generation in a steam electric cycle. The permittee is currently upgrading the existing four mass-burn combustion units to achieve greater combustion control and improve combustion efficiency, as well as replace air pollution control equipment, to comply with the emission limits and monitoring requirements of the Federal emission guidelines for large municipal waste combustors, 40 CFR 60 Subpart Cb.

This facility is classified as a Major or Title V Source of air pollution because emissions of at least one regulated air pollutant, such as particulate matter (PM/PM₁₀), sulfur dioxide (SO₂), nitrogen oxides (NO_x), carbon monoxide (CO), or volatile organic compounds (VOC) exceeds 100 tons per year (TPY).

This facility is within an industry included in the list of the 28 Major Facility Categories per Table 62-212.400-1, F.A.C. Because emissions are greater than 100 TPY for at least one criteria pollutant, the facility is also a Major Facility with respect to Rule 62-212.400, Prevention of Significant Deterioration (PSD). Accordingly, the facility was issued a PSD permit, PSD-FL-086, including a determination of Best Available Control Technology (BACT), by the United States Environmental Protection Agency (EPA) on July 2, 1982. A PSD permit modification, PSD-FL-086A, was issued by the Department on April 1, 1998 to allow the permittee to upgrade the existing four mass-burn combustion units and replace air pollution control equipment, as described above.

This facility is a major source of hazardous air pollutants (HAPs).

3. PROJECT DESCRIPTION

The applicant proposes to revise the number of lime and carbon silos and describe the control equipment for those silos and the ash and scalper buildings.

This project addresses emissions units 100, the ash handling system; 101, the lime silos; and 102 the carbon silos.

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

4. PROJECT EMISSIONS & RULE APPLICABILITY

There are no emission changes associated with this project. This change constitutes a minor modification of PSD permit number PSD-FL-086A. Therefore the modification is not subject to review under Rule 62-212.400., F.A.C., Prevention of Significant Deterioration (PSD), so neither a revised Best Available Control Technology (BACT) determination nor an analysis of the air quality impact is required. However, because this project requires a modification of a PSD permit, the public notice requirements for PSD permits are applicable.

The proposed project is otherwise subject to preconstruction review requirements under the provisions of Chapter 403, Florida Statutes, and Chapters 62-4, 62-204, 62-210, 62-212, 62-214, 62-296, and 62-297 of the Florida Administrative Code (F.A.C.). Allowable excess emissions will not change as a result of this project.

The facility is located in an area (Hillsborough County) designated "unclassifiable" for SO₂, "maintenance" for Ozone (O₃), PM, and lead (Pb), and "attainment" for all the other criteria pollutants (Rule 62-204.360, F.A.C.). One of the requirements under the maintenance plan for the area is implementation of Reasonable Available Control Technology (RACT) pursuant to Rule 62-296.711, F.A.C. The Department previously found that the requirements of permit number PSD-FL-086A constitute RACT for particulate matter, pursuant to Rule 62-296.711(2)(c), F.A.C. This project will not change these requirements.

The emission units affected by this permit shall comply with all applicable provisions of the Florida Administrative Code (including applicable portions of the Code of Federal Regulations incorporated therein).

5. AIR POLLUTION CONTROL TECHNIQUES

The applicant proposes to construct two lime silos and two carbon silos, instead of one each, and will control emissions from both lime silos with one filter vent, and from each carbon silo with a filter vent on each silo. The applicant also proposes to add a scrubber to control emissions from each of the building vents for the ash and scalper buildings. No emission limits or compliance requirements will change as a result of this project.

6. CONCLUSION

Based on the foregoing technical evaluation of the application and additional information submitted by the applicant and other available information, the Department has made a preliminary determination that the proposed project will comply with all applicable state and federal air pollution regulations. The Department will issue a draft PSD permit modification to the applicant that provides for the above changes.

Joseph Kahn, P.E.
Mail Station #5505
2600 Blair Stone Road
Tallahassee, Florida 32399-2400
850/921-9519

DRAFT

DRAFT

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Ms. Nancy McCann
Urban Environmental Coordinator
City of Tampa
306 East Jackson Street, 5N
Tampa, Florida 33602

Re: DEP File No. 0570127-003-AC, PSD-FL-086B
Modification of Permit No. 0570127-002-AC, PSD-FL-086A
McKay Bay Refuse-to-Energy Facility

The applicant, the City of Tampa, applied on March 29, 2000, to the Department for a modification to PSD permit number 0570127-002-AC, PSD-FL-086A for its McKay Bay Refuse-to-Energy Facility located at 107 North 34th Street, Tampa, Hillsborough County. The modification is to revise the number of lime and carbon silos and describe the control equipment for those silos and the ash and scalper buildings. The Department has reviewed the modification request. The referenced permit is hereby modified as follows:

The entries for emissions units 100, 101 and 102 for the emissions units tables in the permit (in Section III, Subsections A (EU 100), C and D) shall be revised as follows:

EMISSIONS UNIT NO.	EMISSIONS UNITS DESCRIPTION
100	Ash building and handling system, including scrubbers for ash building and scalper building
101	<u>Two lime silos with common vent filter</u>
102	<u>Two carbon silos each with vent filter</u>

Section III, Subsection C shall be revised as follows:

EMISSION LIMITATIONS

C.1 Lime & Carbon Silos and Ash Handling System:

Particulate emissions from these emissions units shall be limited as follows:

- (a) In no case shall PM emissions from the lime storage silos' common exhaust exceed 0.015 gr/dscf during filling operations of the lime storage silos. Visible emissions shall not exceed 5% opacity in accordance with specific condition C.3.
- (b) In no case shall particulate matter emissions from ~~the~~ either activated carbon storage silo exhaust exceed 0.015 gr/dscf during filling operations of the activated carbon storage silos. Visible emissions shall not exceed 5% opacity in accordance with specific condition C.3.
- (c) Visible emissions from the ash conveyor systems, transfer points, buildings, scrubber exhausts for the ash building and scalper building, or enclosures of ash conveying systems

shall not occur more than 5 percent of the time during the observation period, except during times of maintenance or repair of these systems. This emission limit does not cover visible emissions discharged inside buildings or enclosures of ash conveying systems.

- (d) The potential for dust generation by ash handling activities will be mitigated by quenching the ash prior to loading in ash transport trucks. The ash handling facilities shall be enclosed and the permittee is authorized to install scrubbers on the ash building and scalper building to control particulate emissions. Residue from the grates, grate siftings, and ash from the combustor/boiler and fabric filter hoppers during normal operations shall be discharged into the ash quenching system, or otherwise handled in a manner to minimize visible dust. The ash/residue in the ash handling building shall remain sufficiently moist to prevent dust during storage and handling operations.

[Rule 62-4.070(3), F.A.C., 40 CFR 60.36b and 40 CFR 60.55b]

[Note: The fugitive particulate matter control requirements for the ash handling activities specified in 40 CFR 60.55b and in this permit represent RACT for this facility pursuant to the Department's authority of Rule 62-296.711(2)(c), F.A.C.]

COMPLIANCE AND PERFORMANCE TESTING

C.2 Fugitives Emissions Compliance: The compliance method for the ash handling facilities, including the ash ~~handling building vent~~ and scalper building scrubber exhausts, shall be EPA Method 22, Visual Determination of Fugitives Emissions From Material Sources.

- (a) The minimum observation time ~~will~~ shall be three ~~hours~~ one hour periods, and ~~will~~ shall include periods when ash is being transferred from the MWC unit to the storage area, and when ash is being loaded for disposal.
- (b) Compliance testing for the ~~Ash Handling Building vent~~ and ash conveyor system and scrubber exhausts for the ash building and scalper building shall be conducted within 180 days of completion of construction and initial operation and annually thereafter.

Permanent stack testing facilities are not required for the ~~ash handling building vent~~ scrubber exhausts for the ash building and scalper building.

[Rule 62-4.070(3), F.A.C., 40 CFR 60.36b and 40 CFR ~~60.55b~~ 60.58b]

C.3. Carbon and Lime Storage Silos PM Compliance Requirements: The PM compliance test requirements are waived for the lime and carbon storage silos and an alternate standard of 5 percent opacity shall apply. Compliance testing for the lime and carbon silos shall be conducted within 180 days of completion of construction and initial operation and annually thereafter. The visible emission tests shall be performed for each silo during filling operations using EPA Method 9. A visible emission reading greater than 5 percent opacity does not create a presumption that the emission limit (in gr/dscf) is being violated, but may require the owner or operator to perform a particulate stack test. Permanent stack testing facilities are not required for the lime and carbon silos. The owner or operator may install temporary stack sampling facilities to conduct such a test, if required.

[Rule 62-297.620(4), F.A.C.]

A copy of this letter shall be filed with the referenced permit and shall become part of the permit. This permit modification is issued pursuant to Chapter 403, Florida Statutes.

Any party to this order (permit modification) has the right to seek judicial review of it under Section 120.68, F.S., by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department of Environmental Protection in the Office of General Counsel, Mail Station #35, 3900 Commonwealth Boulevard, 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 must be filed within thirty days after this order is filed with the clerk of the Department.

Executed in Tallahassee, Florida.

DRAFT

Howard L. Rhodes, Director
Division of Air Resources
Management

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this permit modification was sent by certified mail (*) and copies were mailed by U.S. Mail before the close of business on _____ to the person(s) listed:

Nancy McCann, City of Tampa *
Dick Greco, Mayor, City of Tampa
Greg Grotecloss, City of Tampa
Daniel Kleman, Hillsborough County Administrator
Douglas W. Fredericks, P.E., CDM
Don Elias, RTP
David S. Dee, Landers & Parsons
Bill Thomas, P.E., DEP SWD
Jerry Campbell, Hillsborough County EPC
Mr. Gregg Worley, EPA
Mr. John Bunyak, NPS

Clerk Stamp

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

(Clerk)

(Date)

Memorandum

Florida Department of Environmental Protection

TO: Clair Fancy

THRU: Al Linero *all 4/10*

FROM: Joe Kahn *JK*

DATE: April 10, 2000

SUBJECT: DEP File No. 0570127-003-AC, PSD-FL-086B
Modification of Permit No. 0570127-002-AC, PSD-FL-086A
McKay Bay Refuse-to-Energy Facility

Attached for approval and signature is the intent to issue a modification to PSD permit number 0570127-002-AC, PSD-FL-086A for the City of Tampa's McKay Bay Refuse-to-Energy Facility located at 107 North 34th Street, Tampa, Hillsborough County. The modification is to revise the number of lime and carbon silos and describe the control equipment for those silos and the ash and scalper buildings.

I recommend your approval and signature.

April 10th is day 13 of the 90 day timeclock.

Attachments

/jk

CITY OF TAMPA

MEMORANDUM

DATE: September 29, 2000

TO: BRIAN BEALS, EPA
CLAIR FANCY, DEP
MARY JEAN YON, DEP
BOB BUTERA, DEP
JERRY CAMPBELL, EPC
PAUL SCHIPFER, EPC
DAVID DEE, Landers and Parsons

FROM: GREIG GROTECLOSS, City of Tampa 

SUBJECT: McKay Bay Refuse-to-Energy Facility

The quarterly progress report for the Clean Air Act retrofit of the McKay Bay Refuse-to-Energy Facility is attached. This is submitted in accordance with the dioxin agreement, the ash building variance and the yard waste variance.

Please call me at (813) 242-5408 if you have any questions or would like additional information.

McKay Bay Refuse-to-Energy Facility
Clean Air Act Retrofit Status Report

RECEIVED

OCT 06 2000

Actions Taken Last Quarter (3Q00)

BUREAU OF AIR REGULATION

Completed construction of units 3 and 4. Unit 3 started burning waste on August 24 and unit 4 on September 10.

Completed the rehabilitation of the west crane.

Began renovations in the offices in the administration building.

Completed the TCLP tests on treated (WES-Phix) ash and untreated ash from the new units. Both sets of ash passed the tests as nonhazardous waste.

Continued diverting half of the City's waste to the Southeast County Landfill.

Actions Planned For Next Quarter (4Q00)

Complete the demonstration testing of units 3 and 4. This includes performance testing and stacks testing.

Demolish units 1 and 2. By the end of October the facility should be in compliance with the EPA Emission Guidelines and the FDEP Ash Rule.

Begin the reconstruction of units 1 and 2.

CITY OF TAMPA
MEMORANDUM

RECEIVED

JUL 03 2000

BUREAU OF AIR REGULATION

DATE: June 28, 2000

TO: BRIAN BEALS, EPA
CLAIR FANCY, DEP
MARY JEAN YON, DEP
BOB BUTERA, DEP
JERRY CAMPBELL, EPC
PAUL SCHIPFER, EPC
DAVID DEE, Landers and Parsons

FROM: GREIG GROTECLOSS, City of Tampa 

SUBJECT: McKay Bay Refuse-to-Energy Facility

The quarterly progress report for the Clean Air Act retrofit of the McKay Bay Refuse-to-Energy Facility is attached. This is submitted in accordance with the dioxin agreement, the ash building variance and the yard waste variance.

Please call me at (813) 242-5408 if you have any questions or would like additional information.

McKay Bay Refuse-to-Energy Facility Clean Air Act Retrofit Status Report

Actions Taken Last Quarter (2Q00)

Completed construction of the new ash building.

Completed erection of units 3 and 4.

Completed construction of the new floor in the tipping building (12 inch concrete).

Completed the rehabilitation of the east refuse crane.

Completed construction of two new lime silos, a new carbon silo, the urea tank, the wastewater storage tank and the wastewater settling basin.

Continued diverting half of the City's waste to the Southeast County Landfill.

Actions Planned For Next Quarter (3Q00)

Complete the installation of the control systems for units 3 and 4.

Continue construction of the ash conveyance systems.

Begin the west refuse crane rehabilitation.

Complete the air compliance testing and the contractual performance testing of units 3 and 4.

Begin the demolition of units 1 and 2. By the end of the third quarter the facility should be in compliance with the EPA Emission Guidelines and the FDEP Ash Rule.



CITY OF TAMPA

Department of Solid Waste

Office of Environmental Coordination

March 23, 2000

Mr. Joe Kahn, P.E.
Department of Environmental Protection
Bureau of Air Regulation
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

BUREAU OF AIR REGULATION

MAR 29 2000

RECEIVED

RE: Minor Modification of Permit No. 0570127-AC-PSD-FL-086(A)

0570127-003-AC

Dear Mr. Kahn:

The subject permit was issued prior to the selection of the contractor for retrofit construction of the McKay Bay Refuse-to-Energy Facility. The permit specifies Emissions Units 100, 101 and 102 for the Ash Building and Handling System, Lime Silo and Carbon Silo respectively. Enhancements to the facility design have resulted in changes to these sources. Two wet scrubber dust collection systems were added to the ash handling system. One is in the scalper building and one is in the ash building. Both systems are designed to meet a 0.015 grains/acf emissions limit. The scrubber specifications are attached. Two lime silos are being constructed instead of one lime silo. The two lime silos are connected to a common vent filter, which is designed to meet the emission limits in the permit. Two carbon silos are also being constructed and each silo has a separate vent filter which is designed to meet the emission limits in the permit. These are minor emissions sources and should result in decreased emissions as compared to the original design.

These minor modifications are being addressed in the Title V permit process with the Department, however, the new equipment may be constructed prior to the Department's issuance of the Title V permit. Therefore, a minor modification of the existing permit is requested. A site plan is included which shows the revised plant layout. Plans for the ash building and the scalper building are attached showing details of the wet scrubber dust collectors. A check for \$250 is also attached to cover the review fee.

If you have any questions, please contact Greig Grotecloss at 813-242-5408.

Sincerely,

Nancy McCann
Urban Environmental Coordinator

cc: SWD
Hillsboro Co
EPA
NPS



CITY OF TAMPA

Dick A. Greco, Mayor

November 4, 1997

NOV - 4 1997

Dr. Rick Garrity
Department of Environmental Protection of Hillsborough County
3804 Coconut Palm Drive
Tampa, FL 33619

Dear Dr. Garrity:

Please accept this letter as authorization for Nancy McCann, Urban Environmental Coordinator for the City of Tampa's Solid Waste Department to sign permit applications and other related documents pertaining to the McKay Bay Refuse-to-Energy Complex. Ms. McCann is the City's authorized representative for dealing with regulatory agencies on issues concerning the McKay Bay Refuse-to-Energy Complex.

Please contact Ms. McCann if any additional documentation is required. She can be reached at (813)274-8090.

Sincerely,

Dick A. Greco
Mayor

cc: Sam Halter, Chief Administrative Officer
Mike Salmon, Environmental Services/Public Works Projects Coordinator
Wayne Brookins, Director, Solid Waste Department
Nancy McCann, Urban Environmental Coordinator

Rev.	Issued for	Originator's Signature	Date	Proj. Manager's Signature	Date
A	Approval	S. J. Charney	7/21/99	S. Kranz	7/21/99
B	Bid	S. J. Charney	9/3/99	S. Kranz	9/3/99
C	Bid	S. J. Charney	9/28/99	S. Kranz	9/28/99
D	Purchase	<i>S. J. Charney</i>	10/12/99	<i>SK</i>	10/12/99

SPECIFICATION NO. 1588/60

WET SCRUBBER DUST COLLECTION SYSTEM

**WHEELABRATOR McKAY BAY INC.
McKAY BAY RETROFIT PROJECT
Tampa, Florida**

Prepared by:

S/D Engineers, Inc.
Pittsburgh, Pennsylvania

Contract No. 01-0083-00

September 3, 1999

SPECIFICATION NO. 1588/60
WET SCRUBBER DUST COLLECTION SYSTEM

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SPECIFICATION NO. 1588/60

WET SCRUBBER DUST COLLECTION SYSTEM

1.0 INTENT

This Specification accompanies a Purchase Order to supply a wet scrubber dust collection system complete with all accessories for Wheelabrator McKay Bay, Inc. McKay Bay Retrofit Project, Tampa, Florida. The function of the scrubbers are to limit fugitive dust emissions during conveying and truck loading operations of combined fly ash and bottom ash.

2.0 SCOPE OF WORK

The Vendor shall furnish the design, fabrication, and test of two wet scrubbers in accordance with the design and performance requirements of this Specification. Except for those items specifically listed in Section 3.0, Vendor shall supply all materials, engineering, and services required for a functional system.

The Vendor shall perform the work as follows:

- 2.1 Design, fabricate, and test two (2) wet scrubber dust collection systems.
- 2.2 Furnish two (2) exhaust fans for remote mounting per Section 6.5.2 of this Specification.
- 2.3 Furnish all required documentation.

3.0 WORK, EQUIPMENT, AND SERVICES BY OTHERS

- 3.1 Installation
- 3.2 Anchor bolts.
- 3.3 Electrical power.
- 3.4 Piping and ductwork connections.

4.0 APPLICABLE STANDARDS AND CODES

- 4.1 Equipment and materials shall be furnished in accordance with all appropriate Standards and Codes, in effect as of the date of this Specification. These shall include the following:

AISC American Institute of Steel Construction

- ANSI American National Standards Institute
 - ANSI 7-95 Minimum Design Loads for Buildings and Other Structures
 - ANSI B16.5 Pipe Flanges and Flanged Fittings
 - ANSI B16.21 Nonmetallic Gaskets for Pipe Flanges
- ASTM American Society for Testing and Materials (as applicable)
- NEMA National Electrical Manufacturers Association
- OSHA Occupational Safety and Health Act of 1970, as amended

Florida State Building Code

All applicable Local, County, State, and Federal rules, regulations, and codes

- 4.2 Modifications to equipment to meet local, county or state government rules, regulations, and codes, or Purchaser's specification requirements, shall be made only if they exceed the requirements of the above Standards and Codes.
- 4.3 If Specification requirements exceed the requirement of any standard or code, the Specification shall govern.

5.0 SITE DATA

5.1 Site and general data:

- 5.1.1 DELETED
- 5.1.2 Ambient temperature range will be from 36°F to 104°F.
- 5.1.3 Wind load: 130 MPH 3-minute gust or 90 mph sustained wind load. Seismic Zone 0 design requirements apply.
- 5.1.4 If the loading requirements of the Design Code are more conservative than those stated above, then the Design Code requirements shall govern.

6.0 PROJECT REQUIREMENTS

6.1 General

- 6.1.1 This Specification represents the minimum requirements for the specified scope of supply. It is the Vendor's responsibility to furnish services and materials to meet the requirements of the Specification as described herein. Exceptions may be taken to any portion of this Specification, but they must be clearly identified in Vendor's proposal. All exceptions are subject to the approval of the Purchaser.

6.2 Description of Service

6.2.1 The wet scrubber dust collection systems will be installed in the Wheelabrator McKay, Inc. McKay Bay Retrofit Project, refuse-to-energy facility located in Tampa, Florida.

6.3 Design and Operating Conditions

6.3.1 Design and Operating Conditions are as follows:

Equipment Number	01-M-5200	01-M-5210
Gas Volume:	10,000ACFM @ 68 °F	10,150 ACFM @ 68 °F
Inlet Air Temperature:	36 °F to 104 °F	36 °F to 104 °F
Air Analysis:	Median diameter of 5 microns with a range of 1.0 to 25 microns	Median diameter of 5 microns with a range of 1.0 to 25 microns
Inlet Dust Loading:	1.0 grains/acf	1.0 grains/acf
Required Outlet Dust Loading:	0.015 grains/acf	0.015 grains/acf
Air Inlet/Discharge Location	Side/Side	Top/Top
Service:	Continuous	Continuous
Location:	Indoors – Unheated Ash Handling Bldg.	Indoors–Unheated Scalper Bldg.
Ambient Temperature:	36 °F to 104 °F	36 °F to 104 °F
Scrubbing Fluid:	Waste Water	Waste Water
Power Supply:	460/3/60	460/3/60
Piping:	Feed line, 10 fps max Drain line, 5 fps max.	Feed line, 10 fps max. Drain line, 5 fps max.

6.3.2 Visible emissions from the scrubber exhaust vents shall not occur more than 5% of the time, except during times of maintenance or repairs of the scrubbers.

6.4 Materials

Materials selection for the wet scrubber systems shall be as specified below:

Scrubbers – Solid polypropylene or Fiberglass Reinforced Plastic (FRP)

DELETED

Pipe nozzles – ASTM D-4101 Polypropylene or FRP

Pipe Flanges – ASTM D-4101 Polypropylene or FRP

Bolts, studs and nuts – ASTM 193, 316 stainless steel Grade B; ASTM A194, 316 stainless steel Grade 8M

Access Door Gaskets – non asbestos type

Exhaust fans – Housing – Heavy gauge FRP

Where material is not specified, an appropriate material for the application shall be selected by Vendor.

6.5 Design and Construction Features

6.5.1 General Design Requirements

The wet scrubbers shall be designed to operate by mixing the air stream, particulate, and scrubbing liquid and then infusing the particulate with water droplets in a contact chamber. Mixing between the dust-laden airstream and the scrubbing liquid shall take place in the contact chamber.

The scrubbers shall be equipped with mist eliminators designed for 99 percent removal of particulate and 30 micron droplets and larger. The mist eliminator section shall be a fixed chevron blade design.

The scrubbers shall be equipped with electronic level controls connected to a N.C. solenoid valve. The feed shall be adjusted for automatic "Fill on", "Fill Off", "Low Level Alarm", and "High Level Alarm" operation.

The scrubbers shall be the hopper-type solids collector complete with an automatically timed drain down system. The drain down shall be interfaced with an electrical control relay package to open the drain, close the drain, and activate the make-up water feed to assure proper liquid level. All controls including scrubber fan motor starter shall be mounted in a NEMA 4X control panel mounted on the scrubbers.

The scrubbers shall be capable of operating over the full range of operating conditions specified.

DELETED

DELETED

6.5.2 Scrubber Exhaust Fans

Belt-driven centrifugal fan consisting of housing, wheel, fan shaft, bearings, motor and NEMA 4X disconnect switch, drive assembly, and support structure suitable for outdoor installation **for fan equipment number 01-F-5210.**

Fans shall be sized to provide a maximum of 85 dBA when measured at five feet from the fan.

Fans shall be constructed of fiberglass and shall be AMCA Class I, II, or III.

Fan wheel shall be non-overloading backward inclined blades and shall be statically and dynamically balanced.

Fans shall have inlet and outlet flanges and shall have a bolted cleanout door and housing drain.

Bearings shall be grease lubricated shaft bearings, self-aligning, pillow block type; tapered roller bearings with double locking collars and two piece, cast iron housing. Bearing life shall be AFBMA 9, L-10 of 120,000 hours.

Motor pulley shall be fixed pitch for use with motors larger than 5 horsepower. Select pulley so pitch adjustment is at the middle of the adjustment range at fan design conditions.

Belt guards shall be fabricated to comply with OSHA requirements and shall include provision for adjustments and use of tachometer with guard in place.

Fans shall have adjustable motor mount to adjust belt tensioning.

Motor shall be NEMA MG 1, general purpose, continuous duty, Design B, energy efficient and shall be totally enclosed fan cooled.

The fans shall be designed for the following conditions:

Fan Equipment Number	01-F-5200	01-F-5210
Fan Motor Equipment Number	01-FM-5200	01-FM-5210
Gas Volume:	10,000 CFM	10,150 CFM
Operating Temperature:	36 °F to 104 °F	36 °F to 104 °F
Grade Elevation:	10 FT	10 FT
Total Static Press. Duct + Scrubber:	6+8=14.0 in W.G.	7+8=15.0 in W.G.
Fan Discharge:	Bottom Angular Up	Upblast
Fan Rotation:	CW	CCW
Fan Arrangement:	9	9
Electrical Power:	460/3/60	460/3/60
Location:	Indoors	Outdoors
	Ash Handling Bldg.	Scalper Bldg.

6.5.3 Quality Assurance

The vendor shall employ such quality assurance measures as are necessary to ensure that the work provided conforms to this specification.

6.5.4 Packaging, Shipping and Marking

A nameplate shall be attached to the scrubbers in a clearly visible, easily accessible location.

Vendor shall meet the requirements of WAPC Specification 3838-2315 "Supplemental Requirements for Shipping and Marking."

7.0 **INSTALLATION**

Installation of the scrubbers and exhaust fans will be performed by others.

8.0 **TESTING**

8.1 **Shop Testing**

Vendor's standard shop tests shall be performed on all equipment. As a minimum, fan and motor shall be operated as a unit at design speed to check fan stability. Accessories shall be tested to ensure proper operation. Vendor shall correct all anomalies and defects prior to shipment.

Purchaser reserves the right to witness all shop tests. Vendor shall notify Purchaser of the tests at least 15 days in advance of the dates for the tests.

Certified test reports shall be prepared for all shop tests.

8.2 **Field Tests**

Purchaser will perform field tests on the scrubbers and exhaust fans after installation of the equipment.

The object of these tests will be to check mechanical performance of the units including vibration, noise, overheating of fan bearings, lubricating system, fan and motor driver alignment, and for any indication of unfavorable operating characteristics.

Any deficiencies or faulty conditions determined during these tests shall be corrected by the Vendor at no cost to the Purchaser, after which, additional tests will be run to confirm satisfactory performance and operation.

9.0 **INFORMATION TO BE SUBMITTED**

The equipment and services furnished by Bidder shall be in technical compliance with the latest revision to this Specification, its attachments and all purchasing documents. Any exception or deviation from the Specification must receive prior written approval from the Purchaser or Purchaser's Engineer before proceeding with implementation.

9.1 **Documents required with Bid**

Bidder shall furnish with the bid all documents as required in the RFP, including:

- Catalog cuts and arrangement drawings showing overall dimensions and weights of scrubbers, exhaust fans, and accessories.

9.2 **Documents Required After Award**

Submittal requirements are specified in TABLE A, "Information to be submitted," of this Section of the Specification. Submittal procedure shall conform to WAPC Specification 3838-2310, "Supplemental Requirements for Vendor Documents/Equipment."

TABLE A

**DUST COLLECTION SCRUBBER SYSTEM
Information to be Submitted
For Specification No. 1588/60**

Sheet 1 of 1

Vendor shall submit the following:

Submittal Document	Described in Div, Sec, Para.	Submitted for	Submitted By	Remarks
Outline Drawings	3838-2310	R	15 DAAC	
Foundation Loading and Anchor Bolt Locations	3838-2310	R	15 DAAC	
Installation Drawings	3838-2310	R	15 DAAC	
Certified Shop Test Reports	3838-2310	I	10 DATC	
Recommended Spare Parts	3838-2310	I	30 DAAC	
Storage and Handling Procedures	3838-2310	I	30 DPS	
Instruction Manuals	3838-2310	I	UCW	Final

LEGEND FOR TABLE A (Days identified are calendar days)

R- Submit for Review
 DAAC Days after award of Contract
 DPT Days prior to test
 DATC Days after test completion

I – Submit for Information
 DPRF Days prior to release for fabrication
 DPS Days prior to shipment
 UCW Upon Completion of work

ATTACHMENT AT-1

The following checked "X" Supplemental Requirements documents become a part of this Specification. Other documents also checked "X" hereon are attachments to this Specification. Drawings, charts, lists, sketches, etc., when listed and attached, are specifically applicable to this Specification.

- () BID EVALUATION DATA SHEETS
- () DATA SHEETS
- () MANUFACTURER'S DATA SHEETS
- () NOISE LEVEL DATA REQUEST SHEET

DOCUMENT IDENTIFICATION

(x) SUPPLEMENTAL REQUIREMENTS FOR:

- | | |
|---|-------------|
| (x) VENDOR DOCUMENTS/EQUIPMENT | 3838-2310 |
| () VENDOR SURVEILLANCE | SR-VS |
| () COUPLINGS AND MECHANICAL DRIVES | SR-CMD |
| () VIBRATION PARAMETERS FOR ROTATING EQUIPMENT | SR-VPRE |
| (x) ELECTRIC MOTORS BELOW 2300V, AC | SR-EM-2300V |
| (x) SPARE PARTS | 3838-SRSP |
| () ASME CODE DOCUMENTATION | SR-ASME |
| (x) EQUIPMENT/MATERIAL SHIPPING AND MARKING | 3838-2315 |
| () <u>DRAWINGS/SKETCHES</u> | |

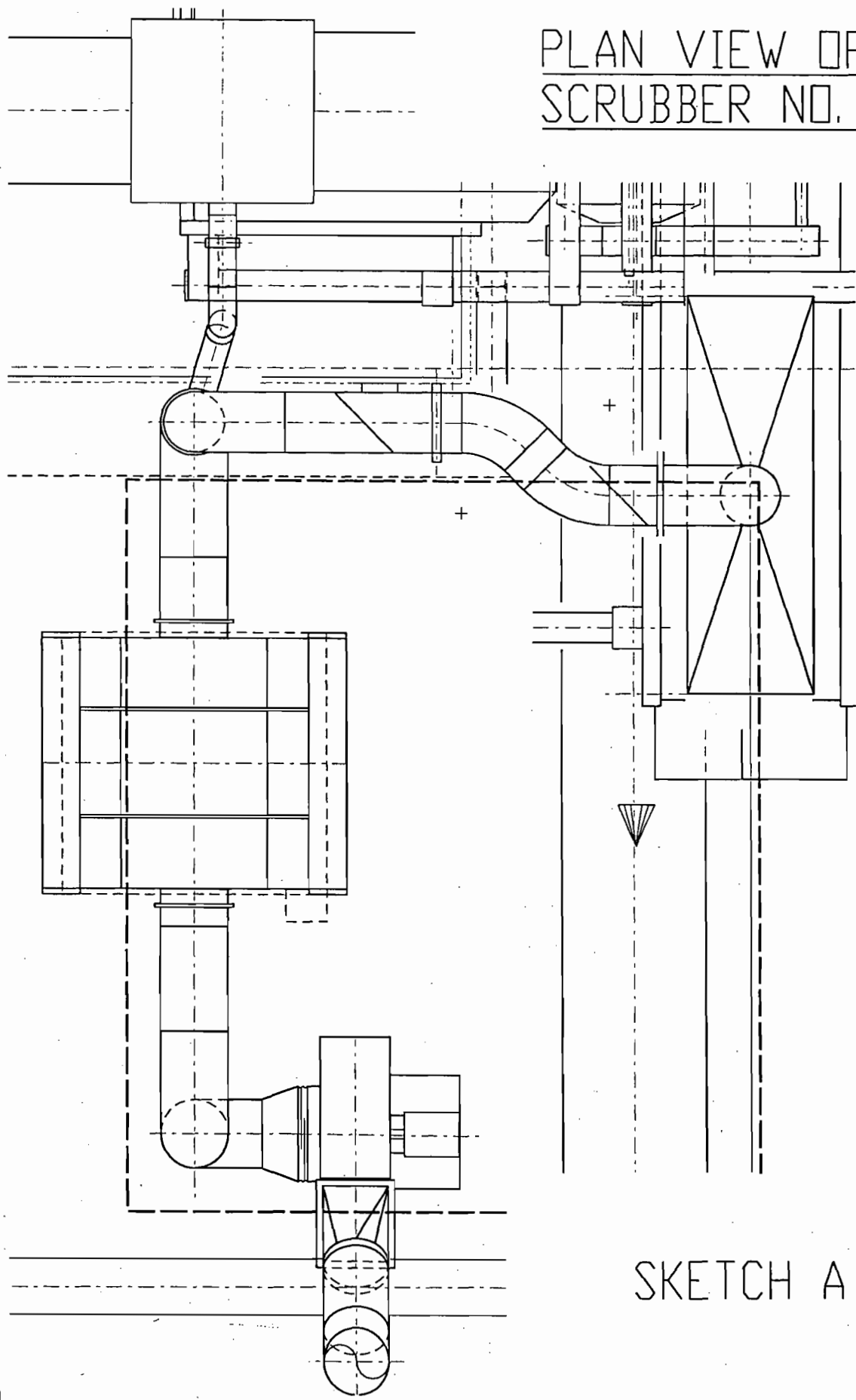
() OTHER REQUIREMENTS

NONE

DRAWING LIST

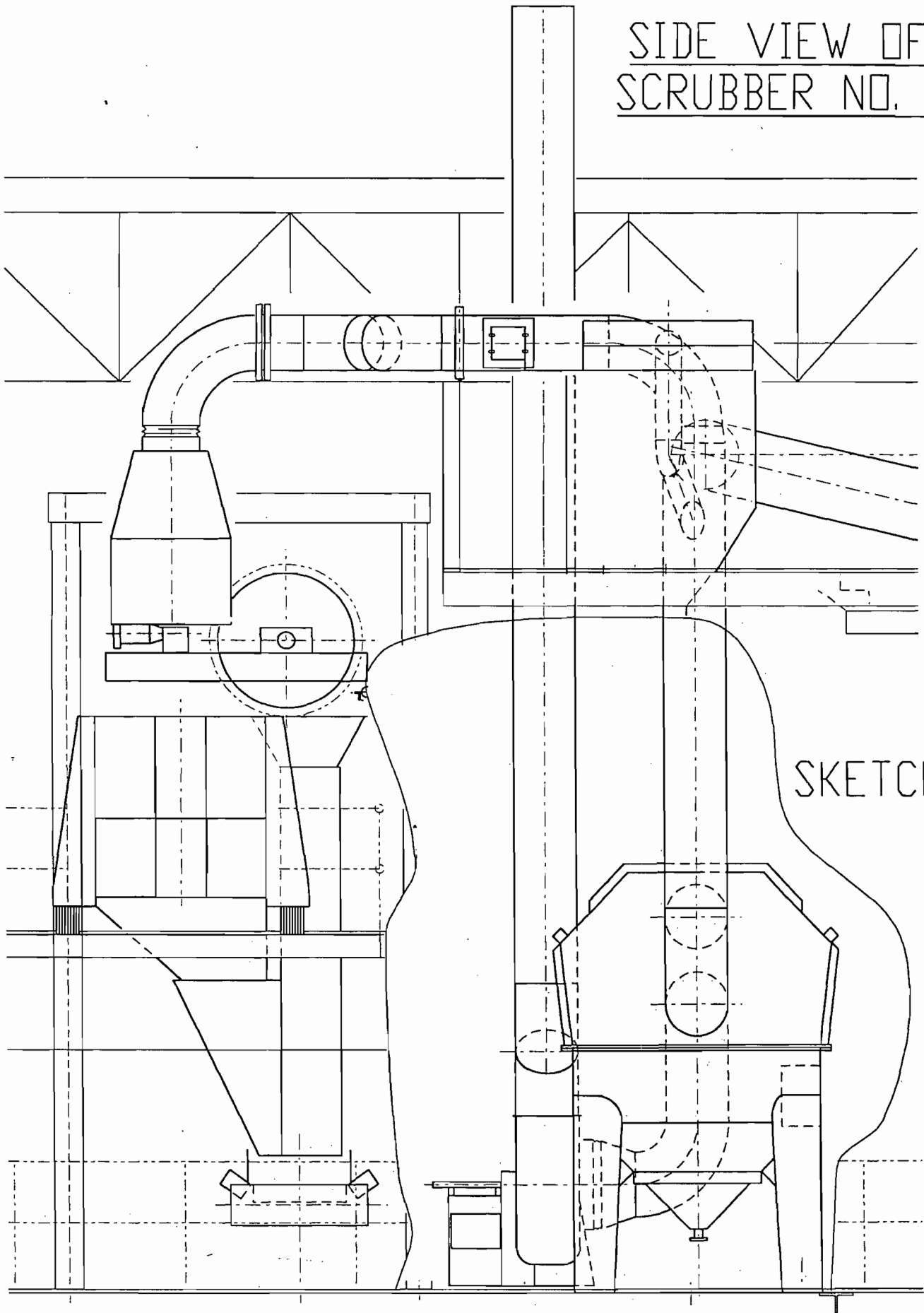
<u>Drawing No.</u>	<u>Title/Description</u>	<u>Revision/Date</u>
Sketch A	Plan View of Scrubber No. 1	Rev 1 / 10/12/99
Sketch B	Side View of Scrubber No. 1	Rev 1 / 10/12/99
Sketch C	Plan View of Scrubber No. 2	Rev 1 / 10/12/99
Sketch D	Side View of Scrubber No. 2	Rev 1 / 10/12/99

PLAN VIEW OF
SCRUBBER NO. 1



SKETCH A

SIDE VIEW OF
SCRUBBER NO. 1



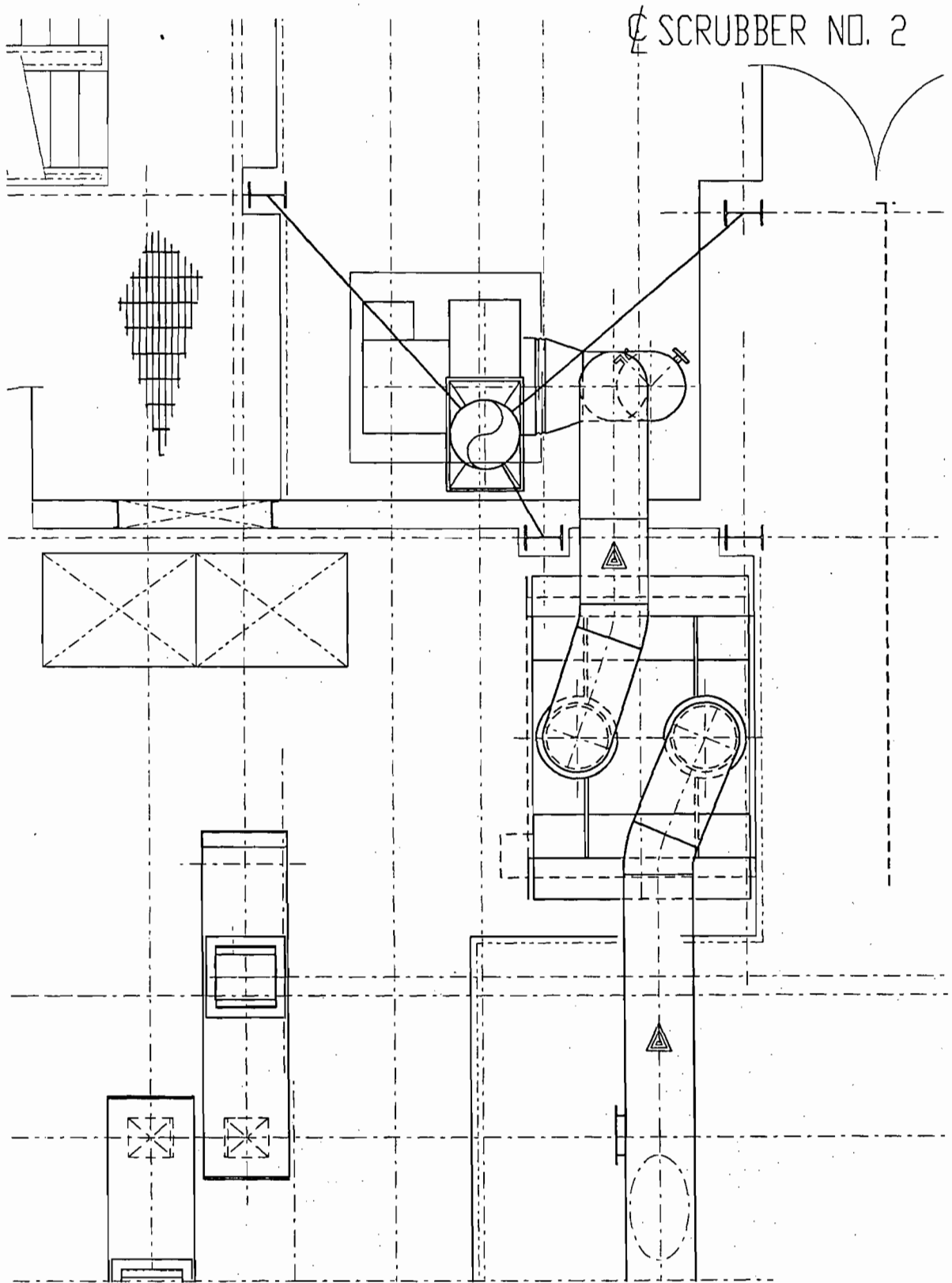
SKETCH B

10-12-99

REV. 1

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PLAN VIEW OF SCRUBBER NO. 2



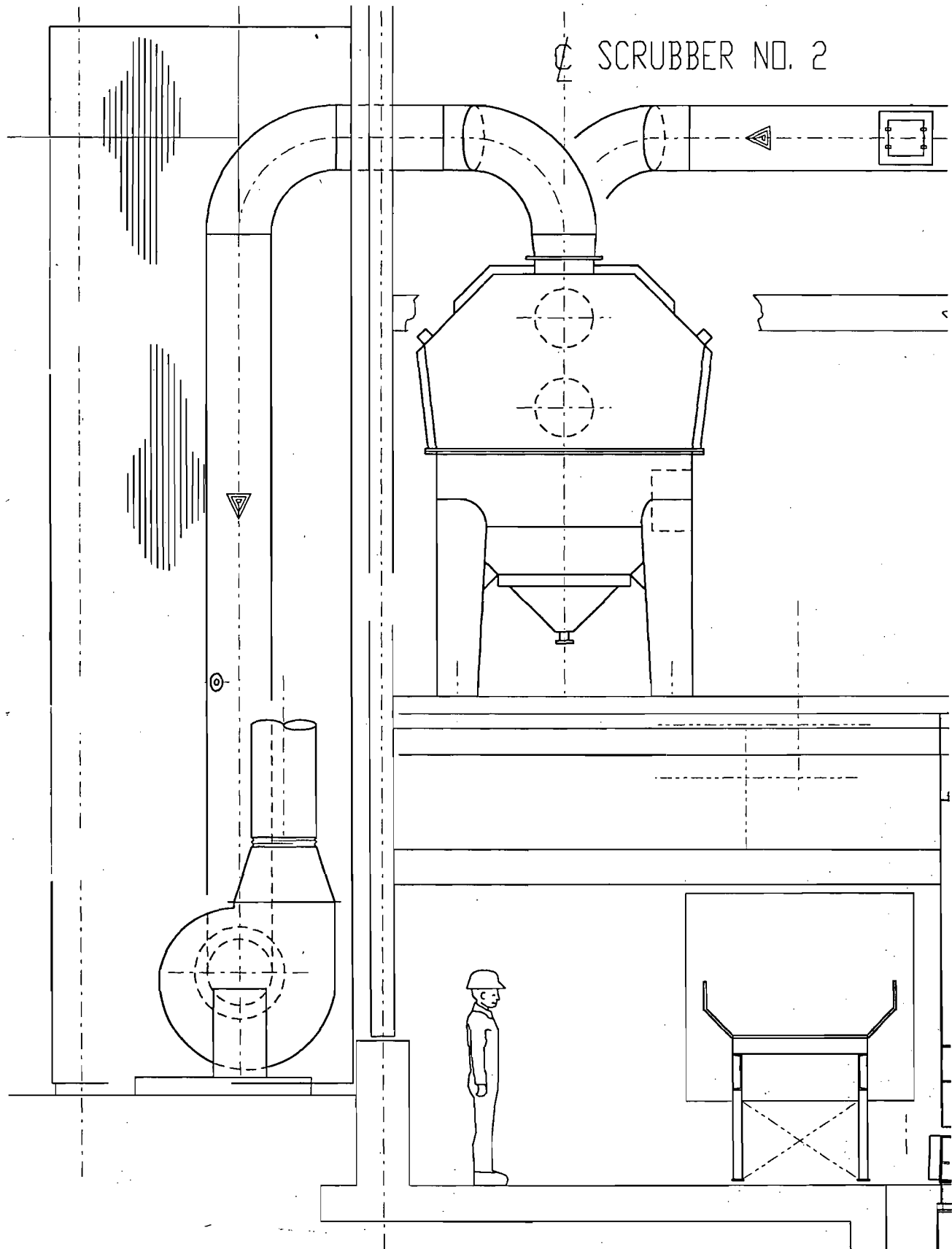
SKETCH C

10-12-99

REV. 1

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SIDE VIEW OF SCRUBBER NO. 2



8-23-99

SKETCH D

REV. 0

177/200-348 *Go in light gray tone is not present on back of document - Do not cash.

WHEELABRATOR MCKAY BAY
PH. 813-241-1457
107 NORTH 34TH ST.
TAMPA, FL 33605

1720

63-751/631
00460

PAY TO THE ORDER OF Florida Department of Environmental Protection \$ 250.00

-----Two Hundred Fifty & 00/100----- DOLLARS

FIRST UNION

First Union National Bank
of Florida
Tampa, Florida
24 Hour Information Service
1-800-735-1012

FOR Air Const. Permit Mod

Frank Lereb

MP

[REDACTED]

CLARENCE AND HUGHES, INC.

W

RECEIVED

MAR 27 2000

BUREAU OF AIR REGULATION

WHEELABRATOR MCKAY BAY, INC.
A WASTE MANAGEMENT COMPANY

107 North 34th Street
Tampa, Florida 33605
(813) 248-1457
(813) 247-2052 Fax

March 9, 2000

Florida Department of Environmental Protection
Southwest District Office
3804 Coconut Palm Drive
Tampa, Florida 33619
RE: Air Construction Permit 050127-AC, PSD-FL-086(A)

MAR 13 2000

Dear Sir:

Section III B.4 of the subject permit requires submittal of technical data pertaining to the selected emission control systems, including guaranteed efficiency, emission rates and major design parameters.

In order to comply with this permit requirement, we have attached the following data sheets:

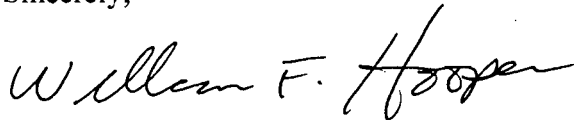
- 1) Overall APC System Emission Guarantees
- 2) Acid Scrubbing Equipment
- 3) Boiler Fabric Filter
- 4) Carbon Injection System Equipment
- 5) Nitrogen Oxide Control Equipment
- 6) Pebble Lime Silo Bin Vent
- 7) Powdered Activated Carbon Silo Bin Vent
- 8) Ash Handling System Fugitive Emission Vent Scrubbers

Page 2 of 2

Air Construction Permit 050127-AC, PSD-FL-086(A)

If you have any questions, please call.

Sincerely,



William F. Hooper
Director of Environmental
Compliance, Health and Safety

Attachments

Cc: Sterlin Woodard – Hillsborough County Environmental Protection Commission –
w/ attachments
G. Grotecloss – City of Tampa w/ attachments
L. Koon
L. Rettura
M. Killeen
T. White

A. A. Rinero FDEP
-JK 3/21/00

City of Tampa

AQCS System Design Parameters

Wheelabrator McKay Bay Refuse to Energy Facility Retrofit Project

March 7, 2000

Table 1.0 Air Pollution Control System Emission Guarantees	
<u>Parameter</u>	<u>Limit*</u>
MWC Organics (as measured as total mass dioxin/furans)	13 nanograms/dscm
Particulate Matter (PM)	24 mg/dscm (9.910 gr/dscf)
Opacity	10 percent (6-minute average)
Cadmium (Cd)	0.020 mg/dscm
Lead (Pb)	0.20 mg/dscm
Mercury (Hg)	70 μ g/dscm or 85% reduction in Hg emissions (whichever is less stringent)
Sulfur Dioxide (SO ₂)	29 ppmv or 80% reduction in SO ₂ emissions (whichever is less stringent)
Hydrogen Chloride (HCL)	25 ppmv or 95% reduction in HCL emissions (whichever is less stringent)
Nitrogen Oxides (NO _x)	180 ppmv during the first year of operation and 150 ppmv thereafter
Fluoride (F)	1.5 lb/hr
Beryllium (Be)	0.000115 lb/hr
Fugitive Ash Emissions (for the Facility)	Visible emissions less than 5% of the observation period (i.e., 9 minutes per 3-hour period) from the Process Residue transfer system except for maintenance and repair activities
* - Dry Gas Basis corrected to 7% O ₂	

City of Tampa

AQCS System Design Parameters

Wheelabrator McKay Bay Refuse to Energy Facility Retrofit Project

March 7, 2000

TABLE 2 ACID GAS SCRUBBING EQUIPMENT

1. Number of Units:	Four (4)
2. Manufacturer (& License if applicable):	Wheelabrator Air Pollution Control
3. Flue Gas Data (Per Unit):	
a. Maximum Flow (ACFM):	110% MCR - 66,440
b. Maximum Velocity (Ft/Sec):	7
c. Maximum Temperature (°F):	550°F
d. Flange to Flange Pressure Drop (In W.C.):	2.5
e. Flue Gas Residence Time (s)	11 sec. @ MCR
4. TYPE	Two Fluid Nozzle Spray Dryer Absorber
5. Chemical Used for Neutralization:	Pebble Lime Supplied (CAO) Calcium Hydroxide (Ca(OH) ₂) used in SDA
6. Atomization System:	
a. Type:	Two Fluid Nozzle (Compressed Air)
b. Manufacturer:	Wheelabrator Air Pollution Control
c. Number:	One Operating & One Spare / Boiler
7. Materials of Construction and Item Description:	
a. Lime Storage:	2 - 75 Ton, Carbon Steel
b. Lime Slaker:	2 - 2000 lb/hr Carbon Steel
c. Lime Pump:	2 - Nihard Impeller & Casing Liner
d. Chemical/Water Solution Percent at Atomizer:	2-5 wt %

City of Tampa **AQCS System Design Parameters**
Wheelabrator McKay Bay Refuse to Energy Facility Retrofit Project **March 7, 2000**

- e. Scrubber Shell Material & Thickness: A-36 / 0.25 in.
- f. Dry Particulate Removal Equipment: Pulse Jet Fabric Filter
8. Description of Instrumentation/Control System for HCl & SO₂ Emission Control: Temperature feedback to control total slurry flow; SO₂ feedback to control ratio concentrated slurry and dilution water.
Minimum lime/dilution water setting to maintain HCl compliance.
9. Description of Control for Temperature of Outlet Gases from Dry Scrubber: Outlet temperature feedback to control total slurry flow control valve
10. Outlet Gas Temperature Design / Maximum(degrees F): 285 / 300

City of Tampa

AQCS System Design Parameters

Wheelabrator McKay Bay Refuse to Energy Facility Retrofit Project

March 7, 2000

TABLE 2.0 BOILER FABRIC FILTER

1. Number of Units and Type:	Four (4)	
2. Manufacturer:	Wheelabrator Air Pollution Control	
3. Flue Gas Data (per unit):		
a. Maximum Flow (ACFM):	58,080 (Design - 52,800) @285°F	
b. Maximum Temperature (°F):	525	
c. Flange to Flange Pressure Drop (In W.C.):	8	
d. Air-to-Cloth Ratio:	Design	Maximum
Full Mode Operation:	2.65:1	2.92:1
One Module Out of Service:	3.18:1	3.50:1
Two Modules Out of Service:	3.98:1	4.39:1
4. (Not Used)		
5. Number of Modules per Unit:	6	
a. Number of Bags per Module:	132	
6. Materials of Construction and Items Description:		
a. Bags (including diameter & length of bag):	6" dia. x 192" long glass fiber	
b. Bag Frames:	Snap ring tube sheet (carbon steel)	
c. Shells:	0.25 in. carbon steel	
d. Hoppers:	0.25 in. carbon steel	
7. Description of Bag Cleaning System:	on line and off line cleaning pressure loss, timer or manual initiation	

City of Tampa
Wheelabrator McKay Bay Refuse to Energy Facility Retrofit Project

AQCS System Design Parameters
March 7, 2000

TABLE 3.0 CARBON INJECTION SYSTEM EQUIPMENT

1. Description of Carbon Injection System:	Dry Powdered Activated Carbon (PAC) Injection System. PAC is metered to a venturi/eductor using a screw feeder High pressure air from a dedicated blower pneumatically transports PAC to SDA inlet. Nominal feed is 5 lb/hr per operating boiler.
2. Number of Units:	Four operating/One spare /4 Boilers.
3. Carbon Grade Used for Reagent:	Noritt Darco FGD or Calgon Flupac A or B

City of Tampa

AQCS System Design Parameters

Wheelabrator McKay Bay Refuse to Energy Facility Retrofit Project

March 7, 2000

TABLE 4.0 NITROGEN OXIDES CONTROL EQUIPMENT

1. Description of NO _x Control System:	The SNCR process offered employs the controlled injection of an aqueous solution containing a proprietary urea based reagent into the combustion gases. The reagent reacts chemically with the NO _x in the combustion gas to form molecular nitrogen and water.
2. Number of Units:	4
3. Manufacturer (& License if applicable):	Wheelabrator APC - (Fuel Tech, Inc.)
4. Flue Gas Data (per unit):	
a. Maximum Flow (ACFM):	60,395 @ 485°F
b. Maximum Velocity (Ft/Sec):	--
c. Maximum Temperature (°F):	485°F
5. [Not used]	50% By Weight
6. Chemical Used for Reagent:	NO _x Out A (Urea based reagent)
7. Description of Instrumentation/Controls for NO _x Emission Control:	NO _x Emissions will be controlled by using the CEMS signal to DCS to adjust the quantity of reagent injected flows and pressures from all pumps will be monitored.

City of Tampa **AQCS System Design Parameters**
Wheelabrator McKay Bay Refuse to Energy Facility Retrofit Project **March 7, 2000**

TABLE 5.0 PEBBLE LIME SILO BIN VENT

<u>General Information</u>	<u>Proposer-Specific Information</u>
Name of Equipment/System	Lime Silo Bin Vent
Manufacturer	Wheelabrator Air Pollution Control
Identification/Model No.	Size 22, Model 36
Number of Units	One (1)
Guaranteed Outlet Emission	0.015 gr/ACF
<u>Design/Operational Parameters(2)</u>	<u>Proposer-Specific Information(3)</u>
Capacity	1600 CFM
<u>Materials of Construction(4)</u>	<u>Proposer-Specific Information(5)</u>
Casing: Carbon Steel painted	Rating 1600 ACFM
Filter Elements: Polyester Felt	Expected Flow 500 ACFM
	4 Filter Elements @ 50 FT ² each
	A/C Ratio = 8.0:1 max.
	4.0:1 expected
<u>Other Features: Automatic Pulse Cleaning on Pressure Loss Signal.</u>	

City of Tampa **AQCS System Design Parameters**
Wheelabrator McKay Bay Refuse to Energy Facility Retrofit Project **March 7, 2000**

TABLE 6.0 PAC SILO BIN VENT

<u>General Information</u>	<u>Proposer-Specific Information</u>
Name of Equipment/System	PAC Silo Bin Vent
Manufacturer	Wheelabrator Air Pollution Control
Identification/Model No.	Size 22, Model 36
Number of Units	Two
Guaranteed Outlet Emission	0.015 gr/ACF
<u>Design/Operational Parameters(2)</u>	<u>Proposer-Specific Information(3)</u>
Capacity	1600 CFM
<u>Materials of Construction(4)</u>	<u>Proposer-Specific Information(5)</u>
Casing carbon steel painted	Rating 1600 ACFM
filter elements: Polyester felt	Expected flow 800 ACFM
	4 filter elements @ 50 ft ² each
	A/C Ratio = 8.0:1 max.
	4.0:1 expected
<u>Other Features</u>	Automatic Pulse Cleaning on Pressure Loss Signal

City of Tampa AQCS System Design Parameters
 Wheelabrator McKay Bay Refuse to Energy Facility Retrofit Project March 7, 2000

TABLE 7.0 ASH HANDLING SYSTEM FUGITIVE EMISSION VENT SCRUBBERS

General Information

Name of Equipment/System

Manufacturer

Identification/Model No.

Number of Units

Guaranteed Outlet Emission

Design/Operational Parameters(2)

Capacity

Type:

Materials of Construction(4)

FRP / Polypropylene

Proposer-Specific Information

Ash System Wet Scrubbers

Tri-Mer

Size 100, Model H

Two

0.015 gr/ACF

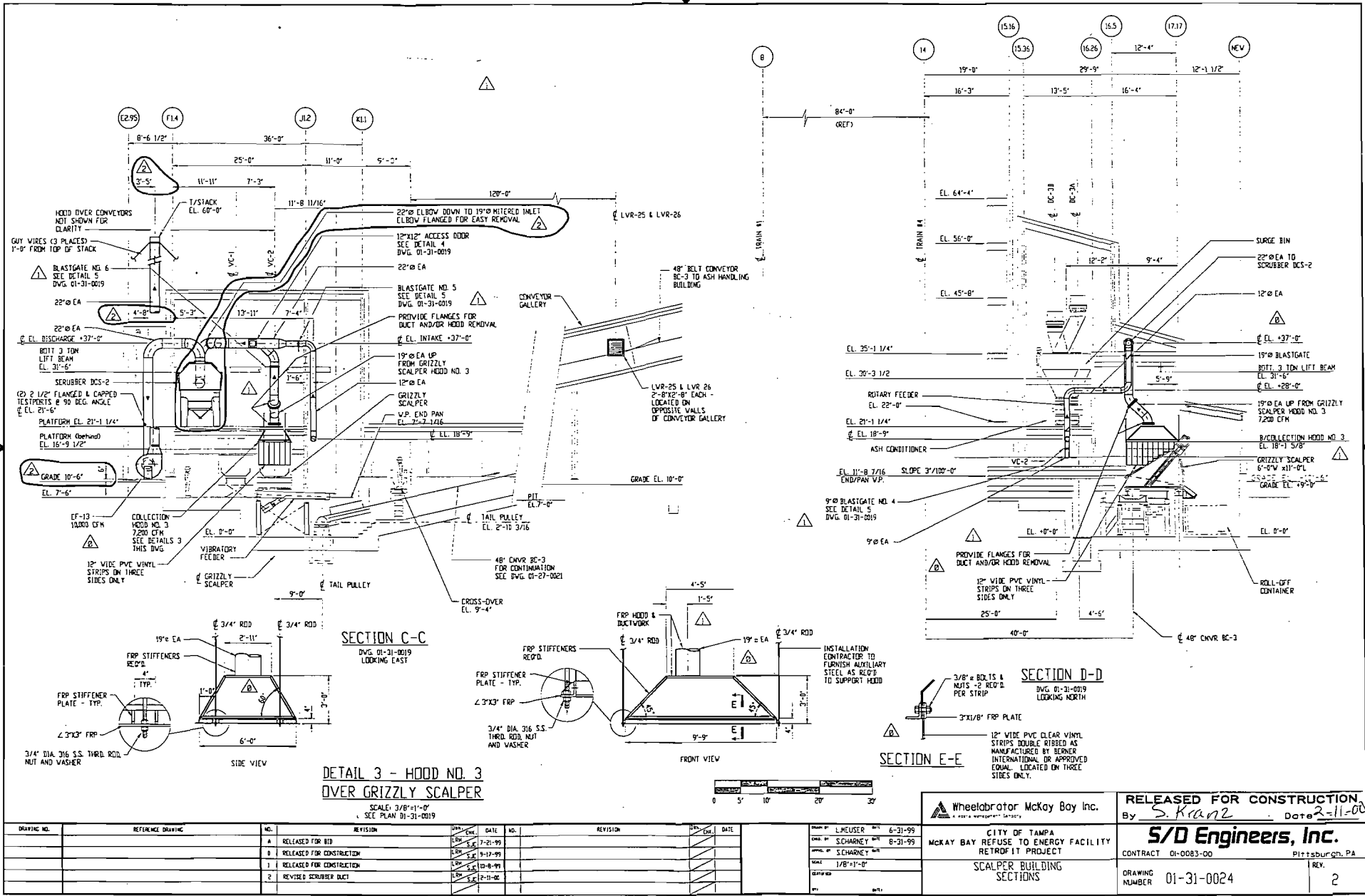
Proposer-Specific Information(3)

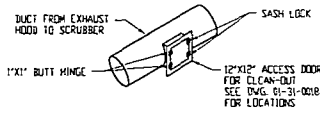
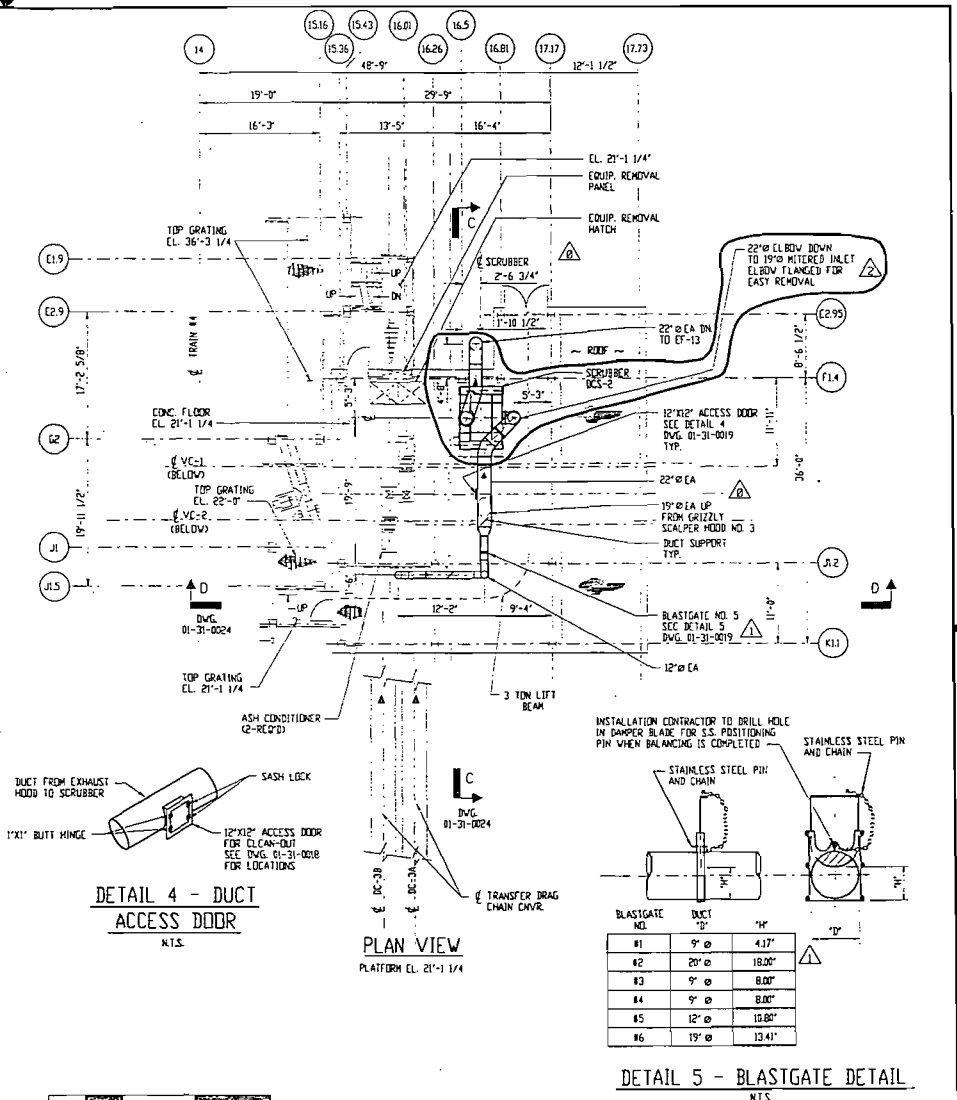
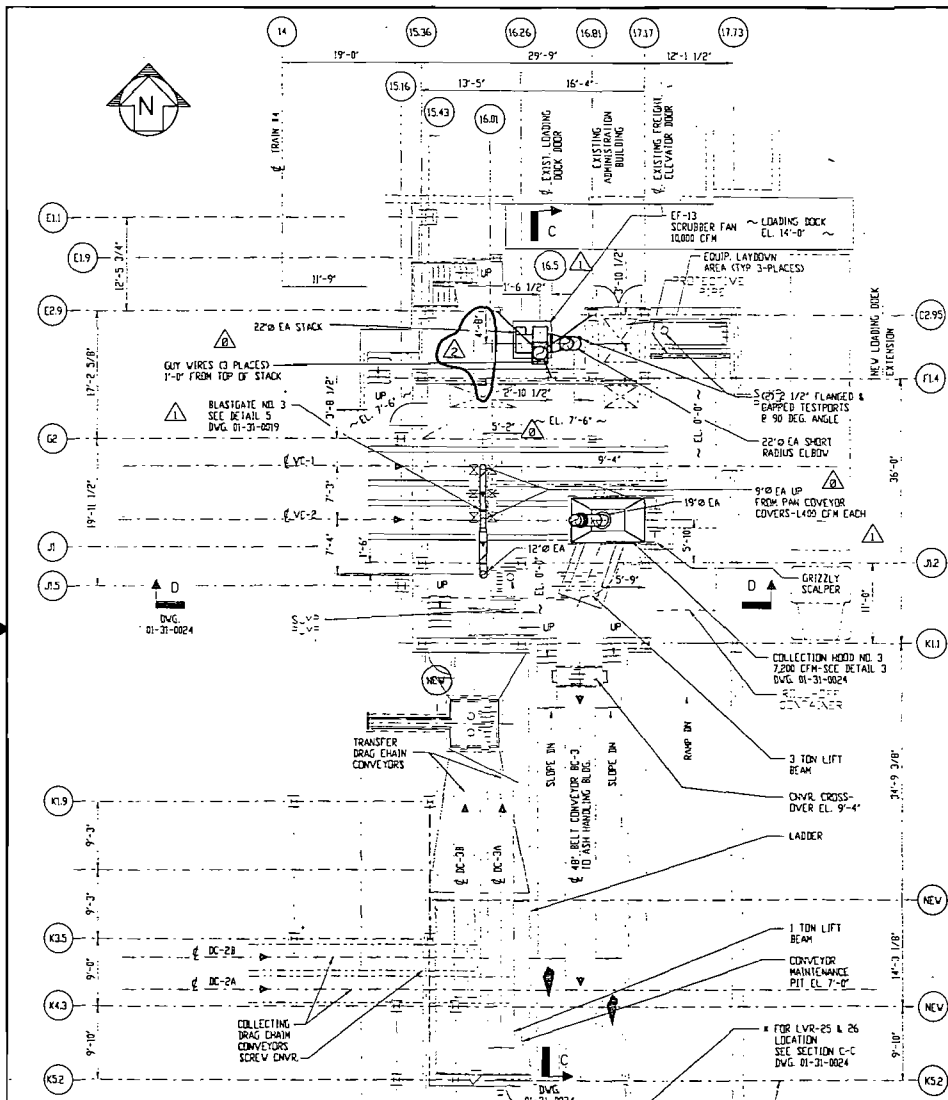
10,000 / 10,150 ACFM @ 68°F

Prepares-Specific Information(5)

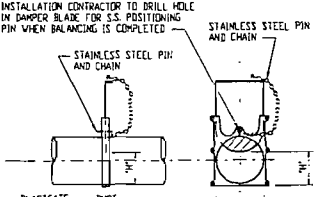
Rating 10,000 / 10,150 ACFM

Pressure Loss: 14/15.4 in. W.G.





DETAIL 4 - DUCT ACCESS DOOR
N.T.S.



BLASTGATE NO. DUCT "Ø" "H"

#1	9" Ø	4.17"
#2	20" Ø	18.00"
#3	9" Ø	8.00"
#4	9" Ø	8.00"
#5	12" Ø	10.80"
#6	19" Ø	13.41"

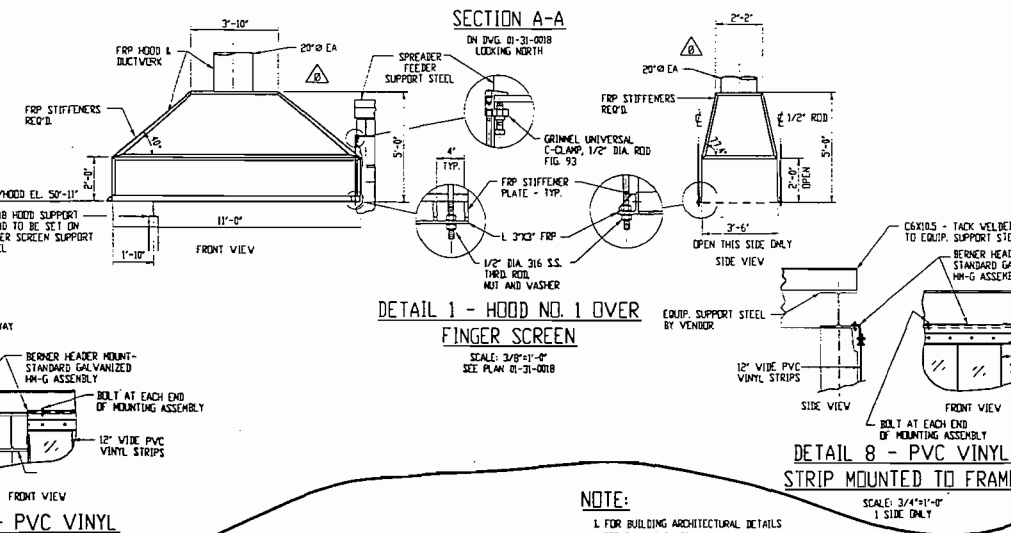
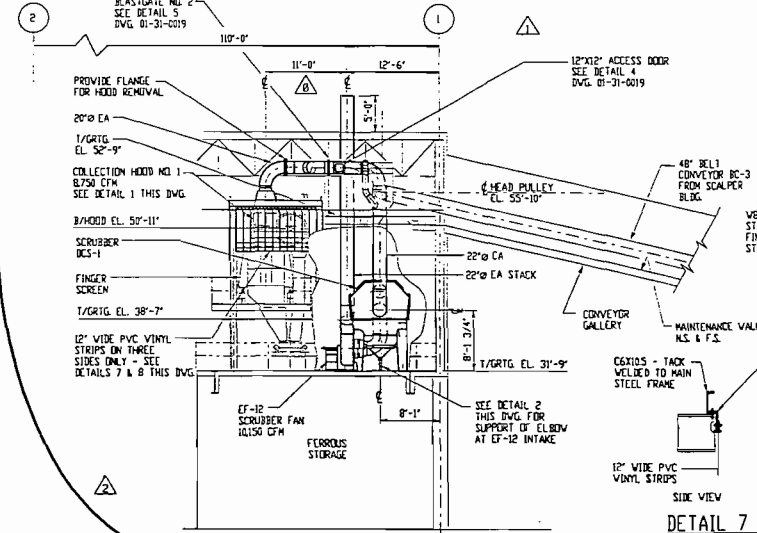
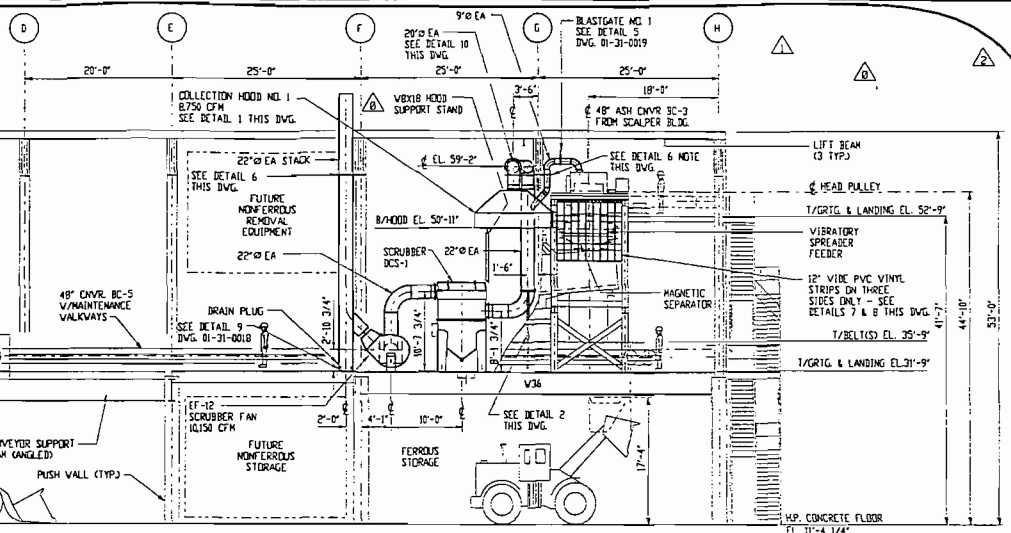
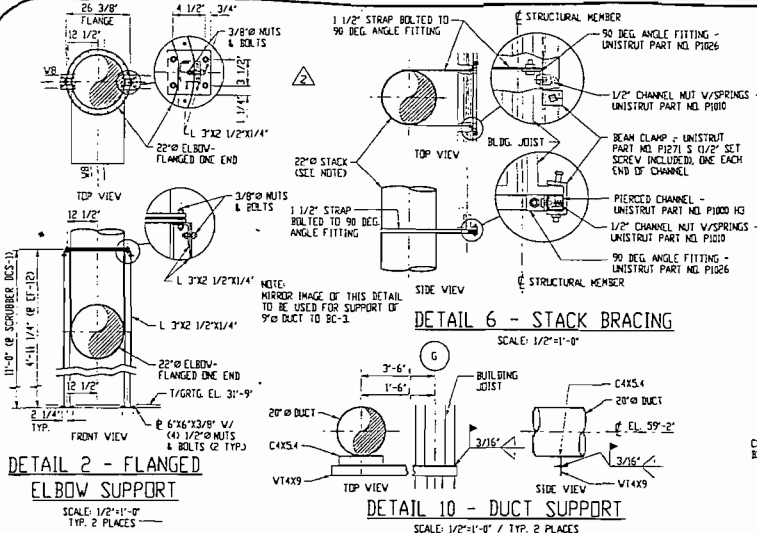
DETAIL 5 - BLASTGATE DETAIL
N.T.S.

DRAWING NO.	REFERENCE DRAWING	NO.	REVISION	DATE	NO.	REVISION	DATE
01-31-0010	SCALPER BLDG. & CONVEYOR GALLERY - PLAN, ELEV'S. & SECT'S	A	RELEASED FOR BID	7-21-99			
01-31-0050	SCALPER BUILDING GA - PLAN @ GRADE & ELEV. 7'-4"	B	RELEASED FOR CONSTRUCTION	9-17-99			
		1	RELEASED FOR CONSTRUCTION	10-8-99			
		2	REVISED SCRUBBER DUCT	2-11-00			

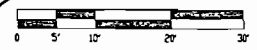
Wheelabrator McKay Bay Inc.
CITY OF TAMPA
McKAY BAY REFUSE TO ENERGY FACILITY
RETROFIT PROJECT
SCALPER BUILDING
SCRUBBER PLAN & SECTION

RELEASED FOR CONSTRUCTION
By *S. Krapp* Date *2-11-00*

S/D Engineers, Inc.
CONTRACT 01-0083-00
DRAWING NUMBER 01-31-0019
REV. 2



NOTE:
L FOR BUILDING ARCHITECTURAL DETAILS
SEE DWG. 01-24-001L



DRAWING NO.	REFERENCE DRAWING	NO.	REVISION	DATE
01-24-001L	ASH HANDLING BUILDING - PLANS & ELEVATIONS/SECTIONS & DETAILS	A	RELEASED FOR BID	7-21-99
01-25-0111	ASH HANDLING BUILDING - LIGHTING & HVAC PLANS	0	RELEASED FOR CONSTRUCTION	9-11-99
01-27-0041	ASH HANDLING BUILDING - GENERAL ARRANGEMENT SECTIONS	1	RELEASED FOR CONSTRUCTION	10-4-99
01-30-2016	FIRE PROTECTION SYSTEM GA - ASH HANDLING BUILDING	2	RELEASED FOR CONSTRUCTION	10-23-99

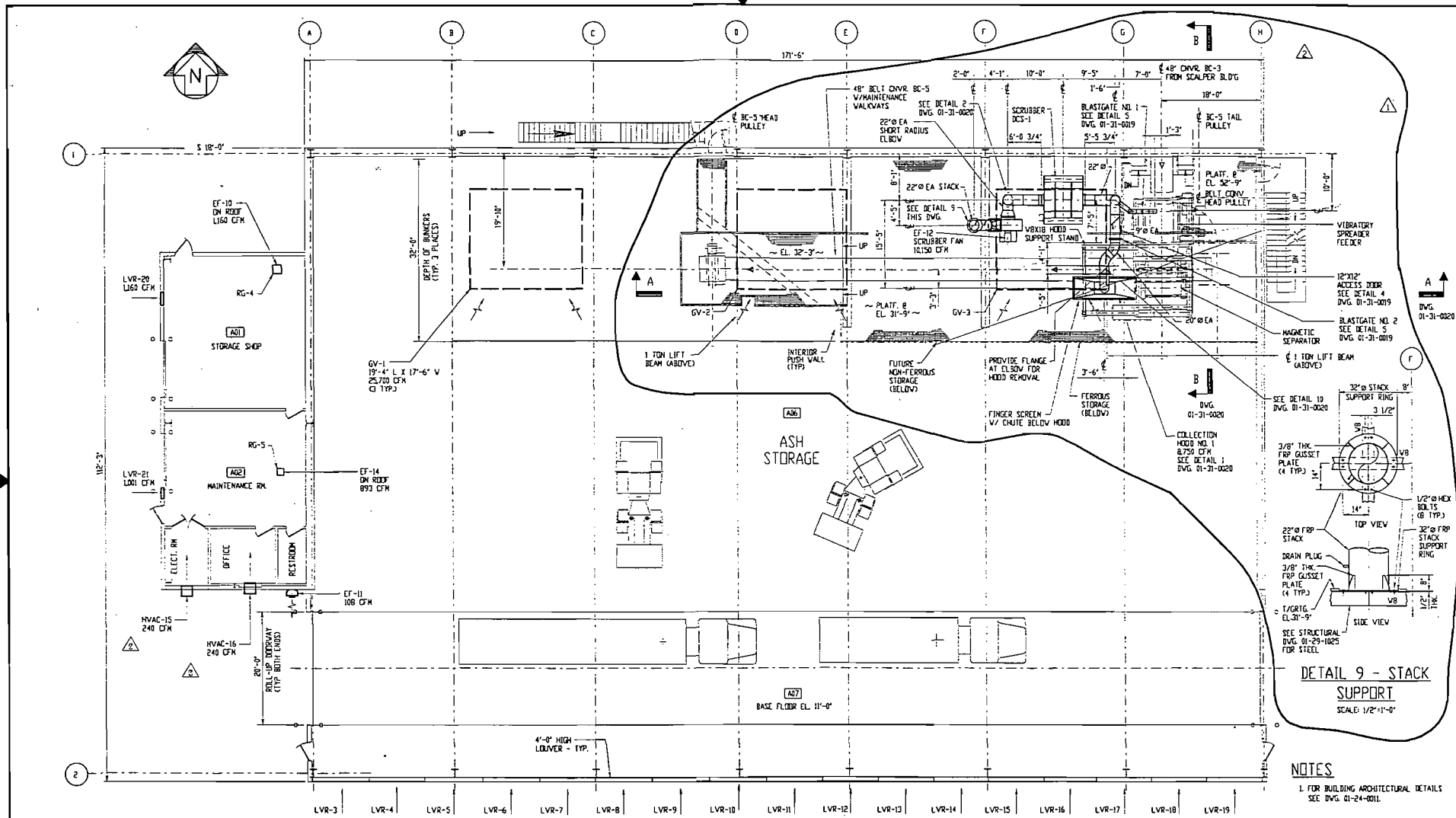
DRAWING NO.	REFERENCE DRAWING	NO.	REVISION	DATE
01-24-001L	ASH HANDLING BUILDING - PLANS & ELEVATIONS/SECTIONS & DETAILS	A	RELEASED FOR BID	7-21-99
01-25-0111	ASH HANDLING BUILDING - LIGHTING & HVAC PLANS	0	RELEASED FOR CONSTRUCTION	9-11-99
01-27-0041	ASH HANDLING BUILDING - GENERAL ARRANGEMENT SECTIONS	1	RELEASED FOR CONSTRUCTION	10-4-99
01-30-2016	FIRE PROTECTION SYSTEM GA - ASH HANDLING BUILDING	2	RELEASED FOR CONSTRUCTION	10-23-99

NO.	DATE	BY	CHKD.
1	2-25-99	L. NEUSER	
2	8-31-99	S. SCHARNEY	
3	8-31-99	S. SCHARNEY	
4	10-4-99		
5	10-23-99		

Wheelabrator McKay Bay Inc.
CITY OF TAMPA
MCKAY BAY REFUSE TO ENERGY FACILITY
RETROFIT PROJECT
ASH HANDLING BUILDING
SECTIONS

RELEASED FOR CONSTRUCTION
By *[Signature]* Date *01-31-99*

S/D Engineers, Inc.
CONTRACT 01-0083-00
Pittsburgh, PA.
DRAWING NUMBER 01-31-0020
REV. 2



PLAN VIEW



DRAWING NO.	REFERENCE DRAWING	NO.	REVISION	DATE	NO.	REVISION	DATE
01-24-0011	ASH HANDLING BUILDING - PLAN & ELEVATIONS/SECTIONS & DETAILS	1	RELEASED FOR BID	7-21-99			
01-25-0011	ASH HANDLING BUILDING - LIGHTING & HVAC PLANS	0	RELEASED FOR CONSTRUCTION	8-3-99			
01-27-0040	ASH HANDLING BUILDING - GENERAL ARRANGEMENT PLAN	1	RELEASED FOR CONSTRUCTION	9-17-99			
01-30-0016	FIRE PROTECTION SYSTEM GA - ASH HANDLING BUILDING	2	RELEASED FOR CONSTRUCTION	10-28-99			

Wheelabrator McKay Bay Inc.
 a Public Improvement Company

DESIGNED BY: L. WEISER DATE: 2-24-99
 CHECKED BY: S. SCHARNEY DATE: 8-31-99
 SCALE: 1/8"=1'-0"

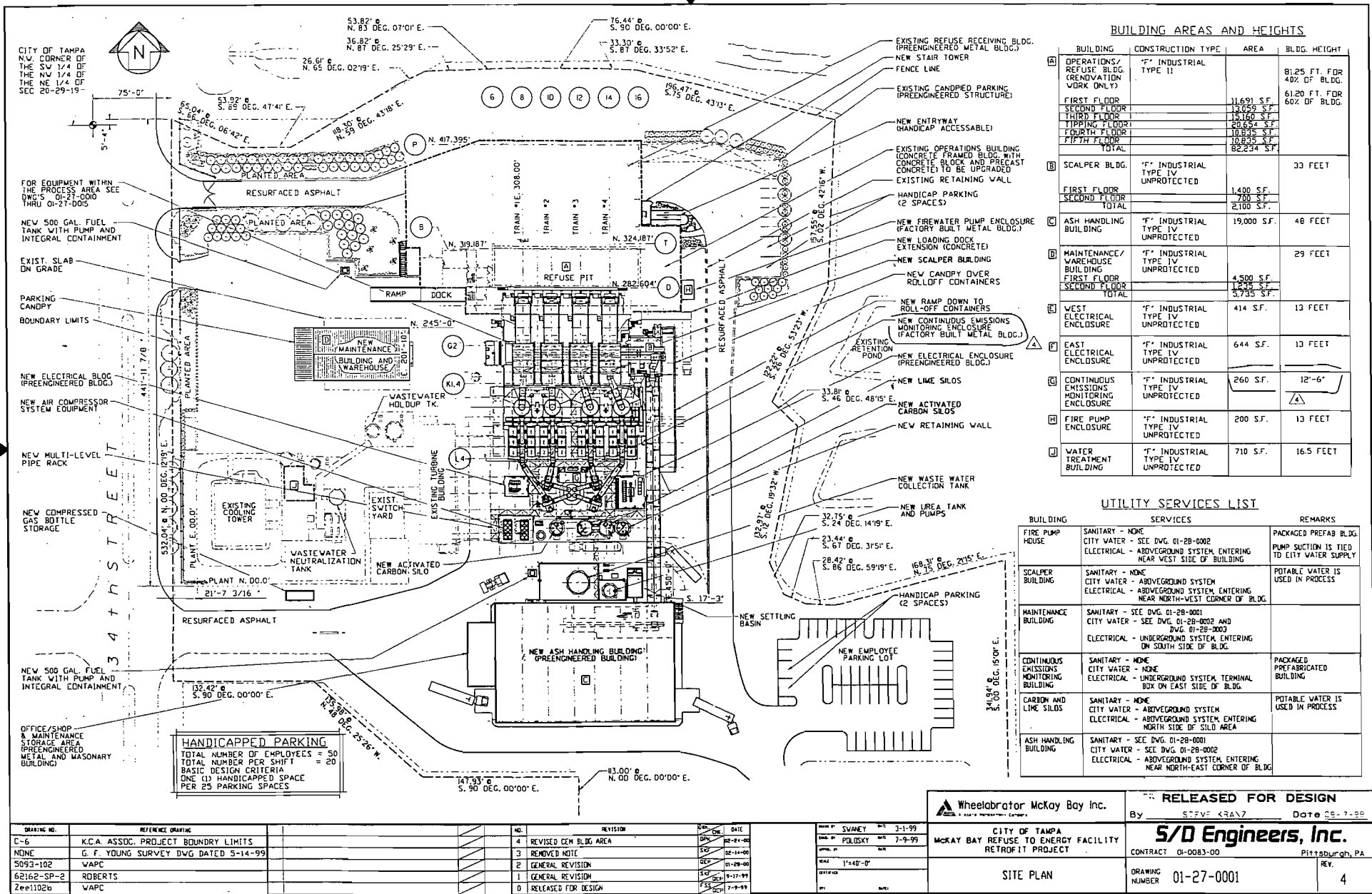
RELEASED FOR CONSTRUCTION
 By: [Signature] Date: 10-28-99

CITY OF TAMPA
 MCKAY BAY REFUSE TO ENERGY FACILITY
 RETROFIT PROJECT

ASH HANDLING BUILDING
 HVAC & SCRUBBER PLAN

CONTRACT: 01-0083-00
 DRAWING NUMBER: 01-31-0018
 REV: 2

S/D Engineers, Inc.
 Pittsburgh, Pa.



BUILDING AREAS AND HEIGHTS

BUILDING	CONSTRUCTION TYPE	AREA	BLDG. HEIGHT
A	"F" INDUSTRIAL TYPE II	OPERATIONS/REFUSE BLDG. (RENOVATION WORK ONLY)	8:25 FT. FOR 40% OF BLDG.
		FIRST FLOOR	6:20 FT. FOR 60% OF BLDG.
		SECOND FLOOR	
		THIRD FLOOR	
		FOURTH FLOOR	
B	"F" INDUSTRIAL TYPE IV UNPROTECTED	SCALPER BLDG.	33 FEET
		TOTAL	
C	"F" INDUSTRIAL TYPE IV UNPROTECTED	ASH HANDLING BUILDING	48 FEET
		TOTAL	
D	"F" INDUSTRIAL TYPE IV UNPROTECTED	MAINTENANCE/WAREHOUSE BUILDING	29 FEET
		TOTAL	
E	"F" INDUSTRIAL TYPE IV UNPROTECTED	WEST ELECTRICAL ENCLOSURE	13 FEET
		TOTAL	
F	"F" INDUSTRIAL TYPE IV UNPROTECTED	EAST ELECTRICAL ENCLOSURE	13 FEET
		TOTAL	
G	"F" INDUSTRIAL TYPE IV UNPROTECTED	CONTINUOUS EMISSIONS MONITORING ENCLOSURE	12'-6"
		TOTAL	
H	"F" INDUSTRIAL TYPE IV UNPROTECTED	FIRE PUMP ENCLOSURE	13 FEET
		TOTAL	
I	"F" INDUSTRIAL TYPE IV UNPROTECTED	WATER TREATMENT BUILDING	16.5 FEET
		TOTAL	

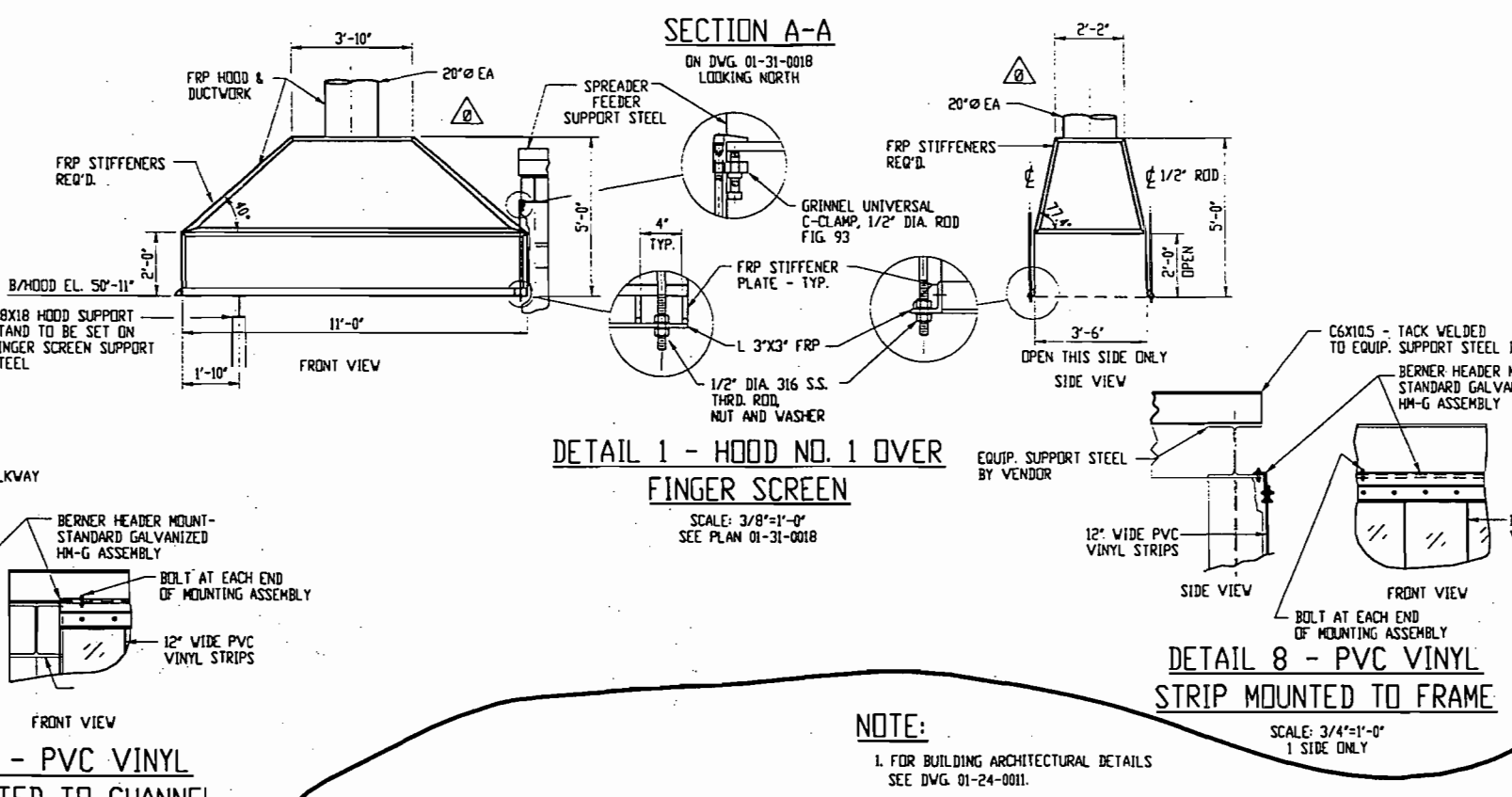
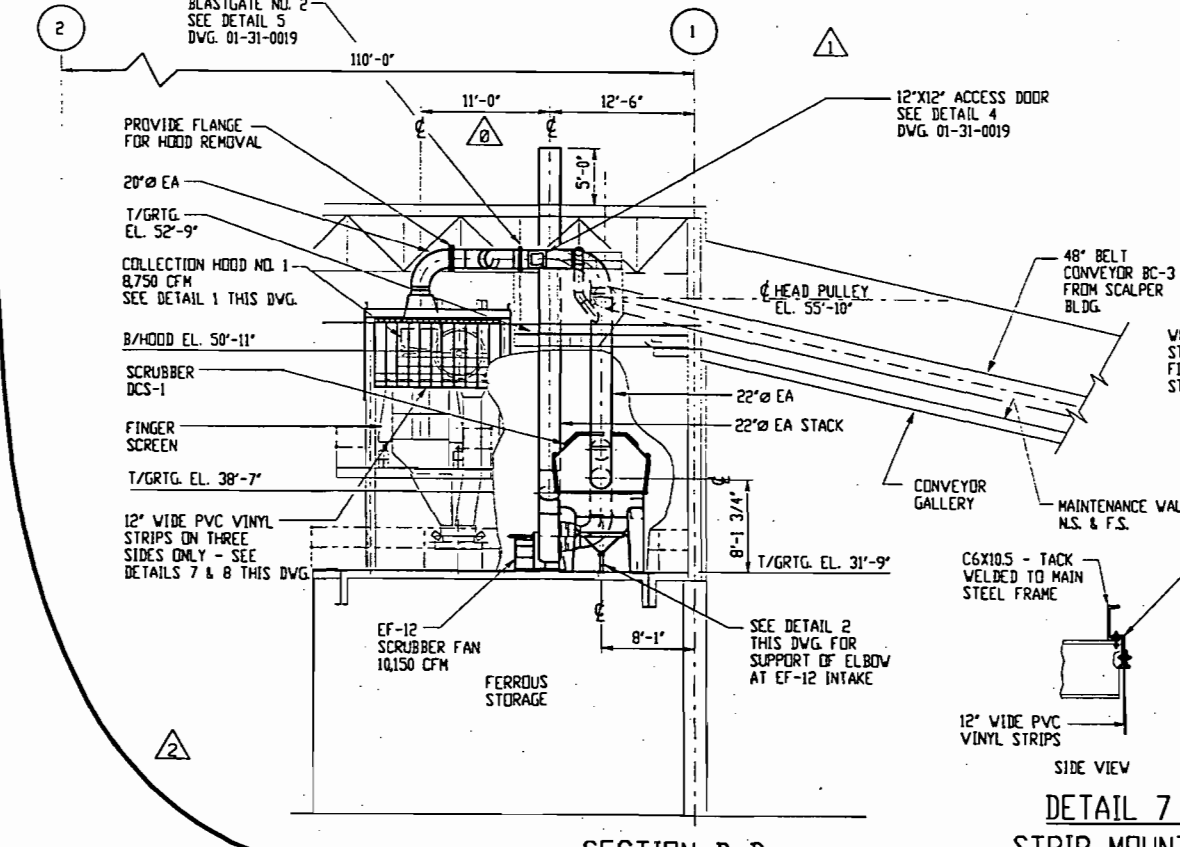
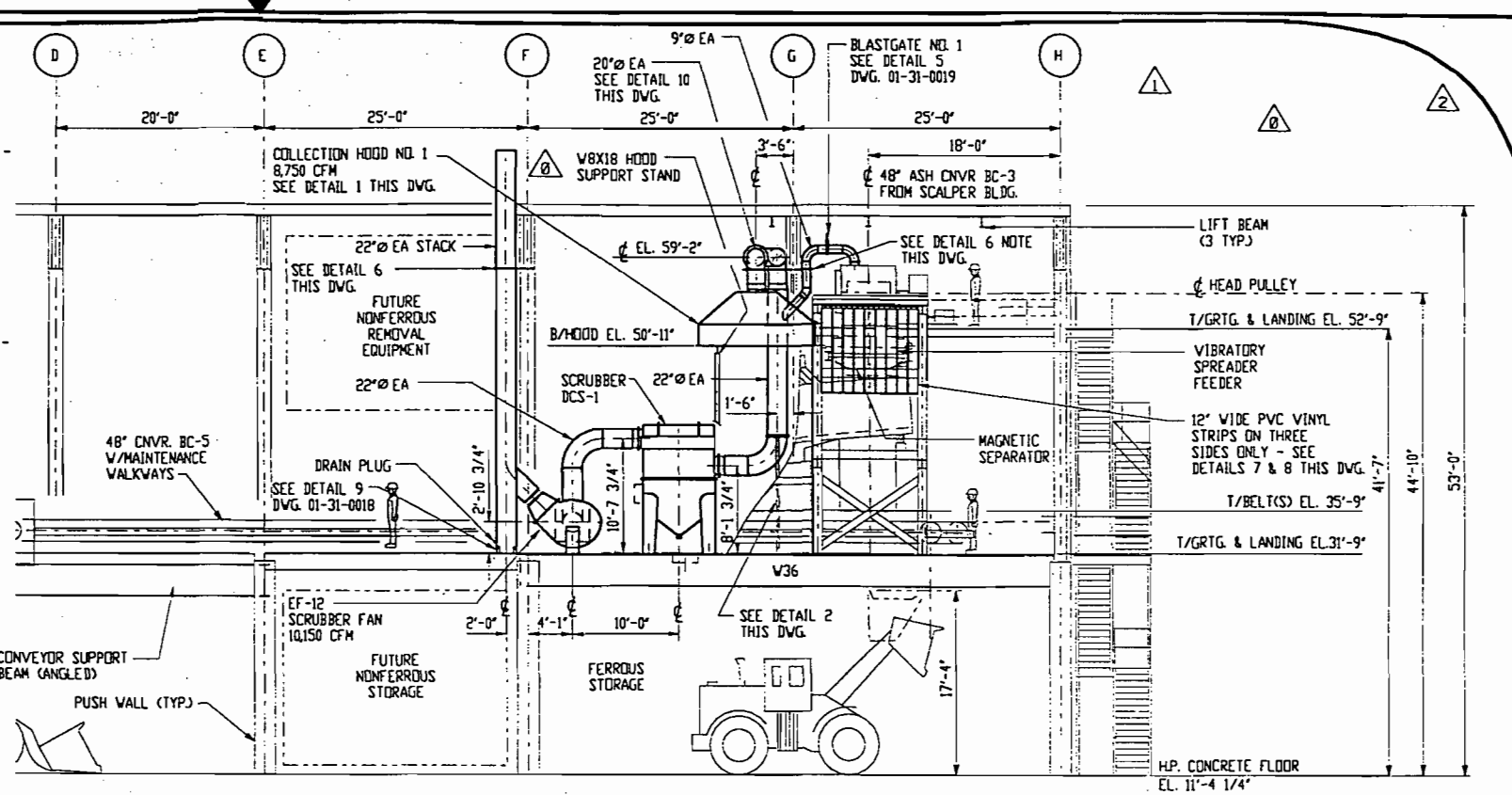
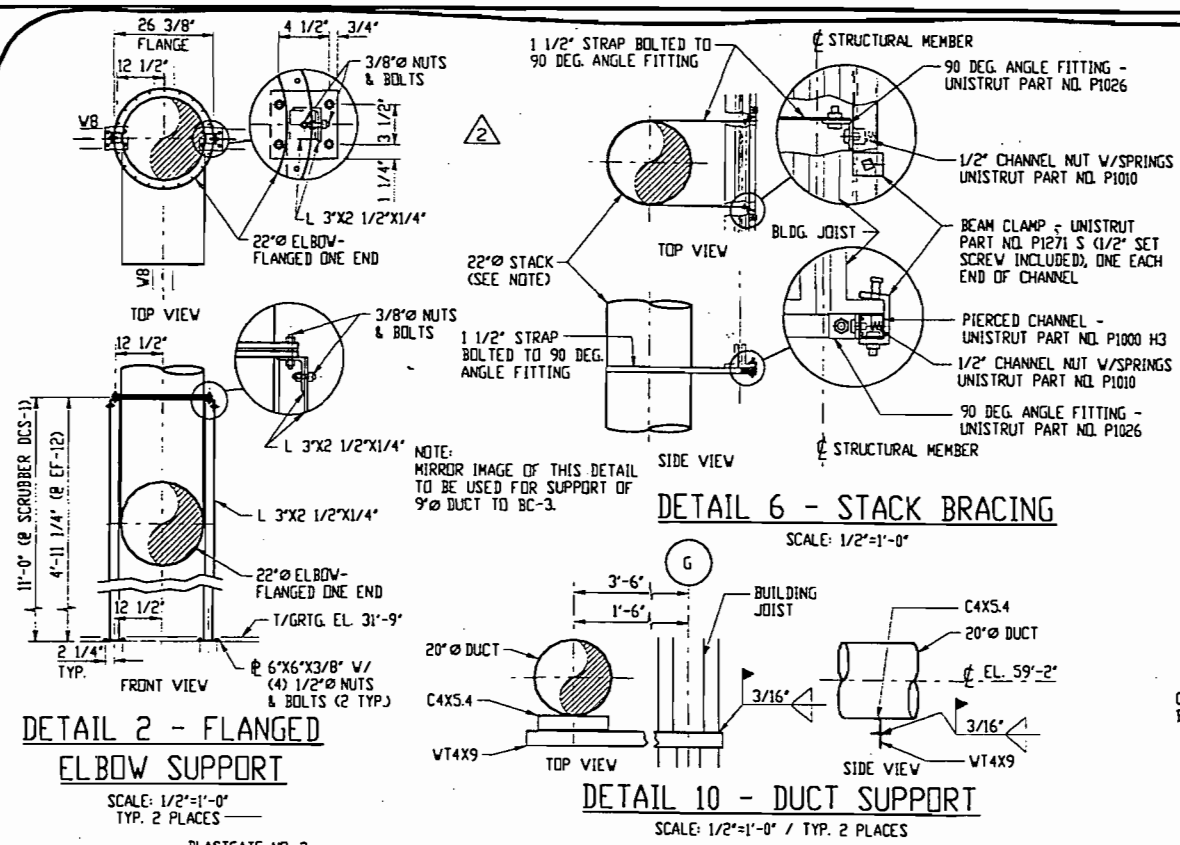
UTILITY SERVICES LIST

BUILDING	SERVICES	REMARKS
FIRE PUMP HOUSE	SANITARY - NONE	PACKAGED PREFAB BLDG. PUMP SUCTION IS TIED TO CITY WATER SUPPLY
	CITY WATER - SEE DWG. 01-28-0002 ELECTRICAL - ABOVEGROUND SYSTEM ENTERING NEAR WEST SIDE OF BUILDING	
SCALPER BUILDING	SANITARY - NONE	POTABLE WATER IS USED IN PROCESS
	CITY WATER - ABOVEGROUND SYSTEM ELECTRICAL - ABOVEGROUND SYSTEM ENTERING NEAR NORTH-WEST CORNER OF BLDG.	
MAINTENANCE BUILDING	SANITARY - SEE DWG. 01-28-0001	PACKAGED PREFABRICATED BUILDING
	CITY WATER - SEE DWG. 01-28-0002 AND DWG. 01-28-0003 ELECTRICAL - UNDERGROUND SYSTEM ENTERING ON SOUTH SIDE OF BLDG.	
CONTINUOUS EMISSIONS MONITORING BUILDING	SANITARY - NONE	POTABLE WATER IS USED IN PROCESS
	CITY WATER - NONE ELECTRICAL - UNDERGROUND SYSTEM TERMINAL BOX ON EAST SIDE OF BLDG.	
CARBON AND LIME SILOS	SANITARY - NONE	POTABLE WATER IS USED IN PROCESS
	CITY WATER - ABOVEGROUND SYSTEM ELECTRICAL - ABOVEGROUND SYSTEM ENTERING NORTH SIDE OF SILO AREA	
ASH HANDLING BUILDING	SANITARY - SEE DWG. 01-28-0001	PACKAGED PREFABRICATED BUILDING
	CITY WATER - SEE DWG. 01-28-0002 ELECTRICAL - ABOVEGROUND SYSTEM ENTERING NEAR NORTH-EAST CORNER OF BLDG.	

HANDICAPPED PARKING
 TOTAL NUMBER OF EMPLOYEES = 50
 TOTAL NUMBER PER SHIFT = 20
 BASIC DESIGN CRITERIA
 ONE (1) HANDICAPPED SPACE
 PER 25 PARKING SPACES

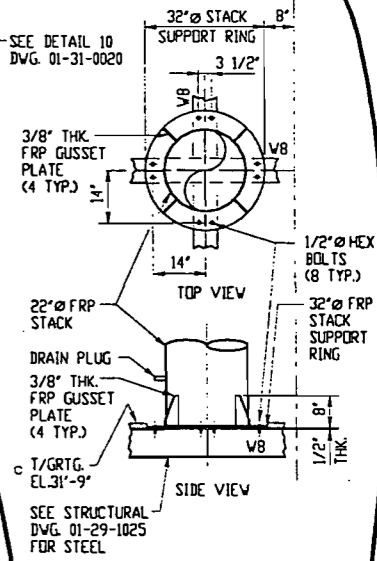
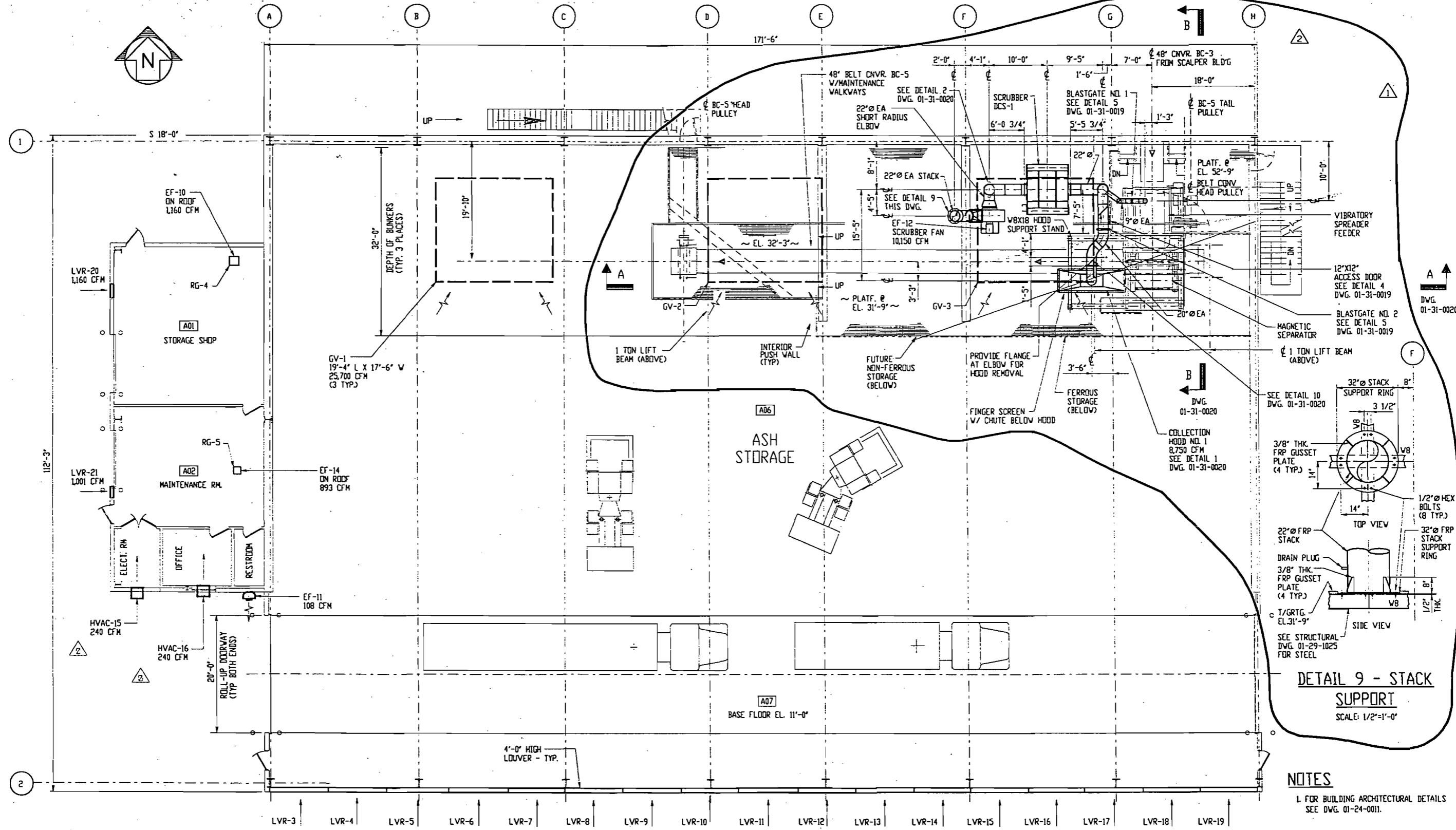
NO.	REVISION	DATE
4	REVISED GEN BLDG AREA	02-24-00
3	REMOVED NOTE	02-14-00
2	GENERAL REVISION	01-29-00
1	GENERAL REVISION	09-17-99
0	RELEASED FOR DESIGN	07-09-99

Wheelabrator McKay Bay Inc.
 RELEASED FOR DESIGN
 By STEVE KRANZ Date 08-7-99
CITY OF TAMPA
 MCKAY BAY REFUSE TO ENERGY FACILITY
 RETROFIT PROJECT
S/D Engineers, Inc.
 CONTRACT 01-0083-00 Pittsburgh, PA
 SITE PLAN
 DRAWING NUMBER 01-27-0001
 REV. 4



DRAWING NO.	REFERENCE DRAWING	NO.	REVISION	DATE	NO.	REVISION	DATE
01-24-0011	ASH MANAGEMENT BUILDING - PLANS & ELEVATIONS/SECTIONS & DETAILS	A	RELEASED FOR BID	7-21-99			
01-25-0111	ASH HANDLING BUILDING - LIGHTING & HVAC PLANS	0	RELEASED FOR CONSTRUCTION	9-17-99			
01-27-0041	ASH HANDLING BUILDING - GENERAL ARRANGEMENT SECTIONS	1	RELEASED FOR CONSTRUCTION	10-8-99			
01-30-2016	FIRE PROTECTION SYSTEM GA - ASH HANDLING BUILDING	2	RELEASED FOR CONSTRUCTION	10-28-99			

DRAWN BY: LMEUSER DATE: 2-25-99 CHD. BY: SCHARNEY DATE: 8-31-99 APPR. BY: SCHARNEY DATE: SCALE: 1/8"=1'-0" CONT'D ON:	Wheelabrator McKay Bay Inc. A Waste Management Company CITY OF TAMPA McKAY BAY REFUSE TO ENERGY FACILITY RETROFIT PROJECT ASH HANDLING BUILDING SECTIONS	RELEASED FOR CONSTRUCTION By: <i>[Signature]</i> Date: <i>12-28-99</i> S/D Engineers, Inc. CONTRACT 01-0083-00 Pittsburgh, PA DRAWING NUMBER 01-31-0020 REV. 2
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DETAIL 9 - STACK SUPPORT
SCALE: 1/2"=1'-0"

NOTES
1. FOR BUILDING ARCHITECTURAL DETAILS SEE DWG. 01-24-0011.

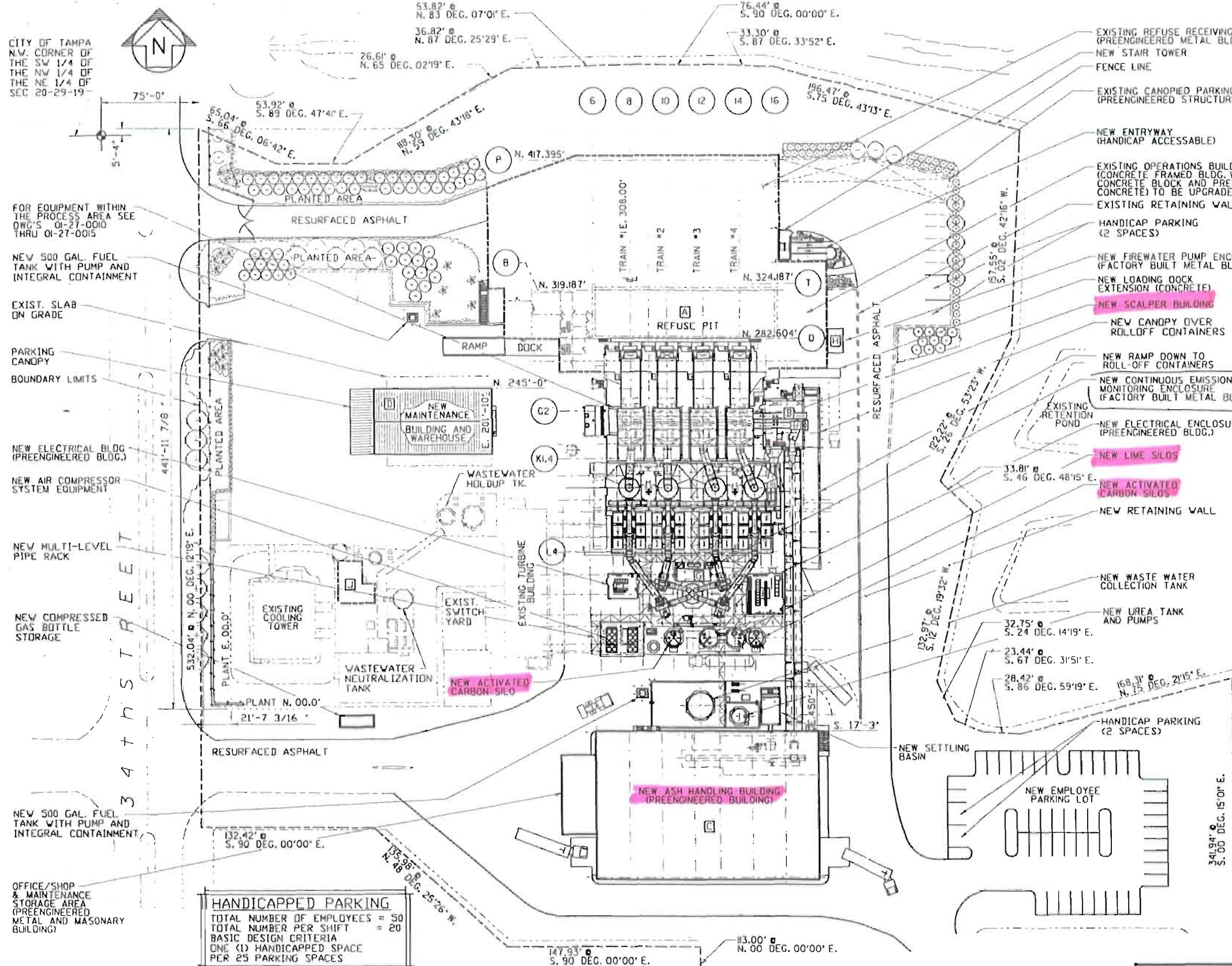
PLAN VIEW



DRAWING NO.	REFERENCE DRAWING	NO.	REVISION	DRW. CHK.	DATE	NO.	REVISION	DRW. CHK.	DATE
01-24-0011	ASH MANAGEMENT BUILDING - PLAN & ELEVATION/SECTIONS & DETAILS	A	RELEASED FOR BID	LRW	7-21-99				
01-25-0111	ASH HANDLING BUILDING - LIGHTING & HVAC PLANS	0	RELEASED FOR CONSTRUCTION	LRW	9-3-99				
01-27-0040	ASH MANAGEMENT BUILDING - GENERAL ARRANGEMENT PLAN	1	RELEASED FOR CONSTRUCTION	LRW	9-17-99				
01-30-2016	FIRE PROTECTION SYSTEM G.A. - ASH HANDLING BUILDING	2	RELEASED FOR CONSTRUCTION	LRW	10-28-99				

Wheelabrator McKay Bay Inc.
CITY OF TAMPA
McKAY BAY REFUSE TO ENERGY FACILITY
RETROFIT PROJECT
ASH HANDLING BUILDING
HVAC & SCRUBBER PLAN

RELEASED FOR CONSTRUCTION
By *[Signature]* Date *10/28/99*
S/D Engineers, Inc.
CONTRACT 01-0083-00 Pittsburgh, PA
DRAWING NUMBER 01-31-0018 REV. 2



BUILDING AREAS AND HEIGHTS

BUILDING	CONSTRUCTION TYPE	AREA	BLDG. HEIGHT
A OPERATIONS/ REFUSE BLDG. (RENOVATION WORK ONLY)	'F' INDUSTRIAL TYPE II		81.25 FT. FOR 40% OF BLDG. 61.20 FT. FOR 60% OF BLDG.
FIRST FLOOR		11,691 S.F.	
SECOND FLOOR		1,059 S.F.	
THIRD FLOOR		15,160 S.F.	
TIPPING FLOOR		20,654 S.F.	
FOURTH FLOOR		10,835 S.F.	
FIFTH FLOOR		10,835 S.F.	
TOTAL		82,234 S.F.	
B SCALPER BLDG.	'F' INDUSTRIAL TYPE IV UNPROTECTED		33 FEET
FIRST FLOOR		1,400 S.F.	
SECOND FLOOR		700 S.F.	
TOTAL		2,100 S.F.	
C ASH HANDLING BUILDING	'F' INDUSTRIAL TYPE IV UNPROTECTED	19,000 S.F.	48 FEET
D MAINTENANCE/ WAREHOUSE BUILDING	'F' INDUSTRIAL TYPE IV UNPROTECTED		29 FEET
FIRST FLOOR		4,500 S.F.	
SECOND FLOOR		1,235 S.F.	
TOTAL		5,735 S.F.	
E WEST ELECTRICAL ENCLOSURE	'F' INDUSTRIAL TYPE IV UNPROTECTED	414 S.F.	13 FEET
F EAST ELECTRICAL ENCLOSURE	'F' INDUSTRIAL TYPE IV UNPROTECTED	644 S.F.	13 FEET
G CONTINUOUS EMISSIONS MONITORING ENCLOSURE	'F' INDUSTRIAL TYPE IV UNPROTECTED	260 S.F.	12'-6"
H FIRE PUMP ENCLOSURE	'F' INDUSTRIAL TYPE IV UNPROTECTED	200 S.F.	13 FEET
J WATER TREATMENT BUILDING	'F' INDUSTRIAL TYPE IV UNPROTECTED	710 S.F.	16.5 FEET

UTILITY SERVICES LIST

BUILDING	SERVICES	REMARKS
FIRE PUMP HOUSE	SANITARY - NONE CITY WATER - SEE DWG. 01-28-0002 ELECTRICAL - ABOVEGROUND SYSTEM, ENTERING NEAR WEST SIDE OF BUILDING	PACKAGED PREFAB BLDG. PUMP SUCTION IS TIED TO CITY WATER SUPPLY
SCALPER BUILDING	SANITARY - NONE CITY WATER - ABOVEGROUND SYSTEM ELECTRICAL - ABOVEGROUND SYSTEM, ENTERING NEAR NORTH-WEST CORNER OF BLDG.	POTABLE WATER IS USED IN PROCESS
MAINTENANCE BUILDING	SANITARY - SEE DWG. 01-28-0001 CITY WATER - SEE DWG. 01-28-0002 AND DWG. 01-28-0003 ELECTRICAL - UNDERGROUND SYSTEM, ENTERING ON SOUTH SIDE OF BLDG.	
CONTINUOUS EMISSIONS MONITORING BUILDING	SANITARY - NONE CITY WATER - NONE ELECTRICAL - UNDERGROUND SYSTEM, TERMINAL BOX ON EAST SIDE OF BLDG.	PACKAGED PREFABRICATED BUILDING
CARBON AND LIME SILOS	SANITARY - NONE CITY WATER - ABOVEGROUND SYSTEM ELECTRICAL - ABOVEGROUND SYSTEM, ENTERING NORTH SIDE OF SILO AREA	POTABLE WATER IS USED IN PROCESS
ASH HANDLING BUILDING	SANITARY - SEE DWG. 01-28-0001 CITY WATER - SEE DWG. 01-28-0002 ELECTRICAL - ABOVEGROUND SYSTEM, ENTERING NEAR NORTH-EAST CORNER OF BLDG.	

HANDICAPPED PARKING
 TOTAL NUMBER OF EMPLOYEES = 50
 TOTAL NUMBER PER SHIFT = 20
 BASIC DESIGN CRITERIA
 ONE (1) HANDICAPPED SPACE
 PER 25 PARKING SPACES

DRAWING NO.	REFERENCE DRAWING	NO.	REVISION	DATE
C-6	K.C.A. ASSOC. PROJECT BOUNDARY LIMITS	4	REVISED GEN BLDG AREA	02-24-00
NONE	G. F. YOUNG SURVEY DWG DATED 5-14-99	3	REMOVED NOTE	02-14-00
5093-102	WAPC	2	GENERAL REVISION	01-28-00
62162-SP-2	ROBERTS	1	GENERAL REVISION	9-17-99
Zee1102b	WAPC	0	RELEASED FOR DESIGN	7-9-99

RELEASED FOR DESIGN
 By STEVE KRANZ Date 02-7-99
S/D Engineers, Inc.
 CONTRACT 01-0083-00 Pitsburgh, PA
 CITY OF TAMPA
 MCKAY BAY REFUSE TO ENERGY FACILITY
 RETROFIT PROJECT
 DRAWING NUMBER 01-27-0001
 REV. 4
 SITE PLAN

Best Available Copy

7 341 355 314

US Postal Service

Receipt for Certified Mail

No Insurance Coverage Provided.

Do not use for International Mail (See reverse)

Sent to		Nancy McCann	
Street & Number		City of Tampa	
Post Office, State, & ZIP Code		Tampa FL	
Postage	\$		
Certified Fee			
Special Delivery Fee			
Restricted Delivery Fee			
Return Receipt Showing to Whom & Date Delivered			
Return Receipt Showing to Whom, Date, & Addressee's Address			
TOTAL Postage & Fees	\$		
Postmark or Date		6-15-00	
		0570127-003-AC P50-F1-086B	

PS Form 3800, April 1995

1. Article Addressed to: 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:
 Ms. Nancy McCann
 Urban Env. Coordinator
 City of Tampa
 306 E. Jackson St., 5N
 Tampa, FL 33602

A. Received by (Please Print Clearly) L. Date of Delivery

C. Signature

19 JUN 2000
 Agent
 Addressee

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

2. Article Number (Copy from service label)

7 341 355 314

RECEIVED

MAY 10 2000

THE TAMPA TRIBUNE

Published Daily

Tampa, Hillsborough County, Florida

BUREAU OF AIR REGULATION

State of Florida
County of Hillsborough } ss.

Before the undersigned authority personally appeared J. Rosenthal, who on oath says that she is Classified Billing Manager of The Tampa Tribune, a daily newspaper published at Tampa in Hillsborough County, Florida; that the attached copy of advertisement being a

LEGAL NOTICE

in the matter of _____

PUBLIC NOTICE OF INTENT

was published in said newspaper in the issues of _____
MAY 2, 2000

Affiant further says that the said The Tampa Tribune is a newspaper published at Tampa in said Hillsborough County, Florida, and that the said newspaper has heretofore been continuously published in said Hillsborough County, Florida, each day and has been entered as second class mail matter at the post office in Tampa, in said Hillsborough 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, this advertisement for publication in the said newspaper.

J. Rosenthal

Sworn to and subscribed be me, this _____ day
MAY 10 2000
of _____ A.D. 2000

Personally Known or Product Identification _____
Type of Identification Produced _____

(SEAL)

Susie Lee Slaton



PUBLIC NOTICE OF INTENT TO ISSUE PSD PERMIT MODIFICATION STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION DEP File No 0570127-003-PSD-FL-086B City of Tampa McKay Bay Refuse-to-Energy Facility Hillsborough County

The Department of Environmental Protection (Department) gives notice of its intent to issue a PSD permit modification to the City of Tampa for its McKay Bay Refuse-to-Energy Facility located at North 34th Street, Tampa, Hillsborough County. The modification is to revise the number of lime and carbon silos and describe the construction of the ash and scalper building. The applicant's mailing address is 306 East Jackson Street, 5N, Tampa, Florida 33602. A revised Best Available Control Technology (BACT) determination was not required pursuant to Rule 62-212.400, F.A.C., Prevention of Significant Deterioration (PSD). Total emissions of pollutants will not increase as a result of this project. An air quality impact analysis was not required for this project. The project is not subject to review under Section 403.5, F.S. (Power Plant Siting Act) because it provides for no expansion in steam generation capacity. The Department will issue the final PSD permit modification with the attached conditions unless a response received in accordance with the following procedures results in a different decision or significant change of terms or conditions. The Department will accept written comments and requests for public meeting concerning the proposed PSD permit modification issuance action for a period of 30 (thirty) days from the date of publication of this Public Notice of Intent to Issue PSD Permit modification. Written comments and requests for public meetings should be provided to the Department's Bureau of Air Regulation at 2600 Blair Stone Road, Mail Station #5505, Tallahassee, Florida 32399-2400. Any written comments filed shall be made available for public inspection. If written comments received result in a significant change in the proposed agency action, the Department shall revise the proposed PSD permit modification and require, if applicable, another Public Notice. The Department will issue the PSD permit modification with the attached conditions unless a timely petition for an administrative hearing is filed pursuant to sections 120.569 and 120.57 F.S., before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below. Mediation is not available in this proceeding. A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative proceeding (hearing) under 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 persons other than those entitled to written notice under section 120.60(3) of the Florida Statutes 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. Under section 120.60(3), however, any person who asked the Department for notice of agency action may file a petition within fourteen days of receipt of that notice, regardless of the date of publication. A petitioner shall 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 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 F. S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205 of the Florida Administrative Code.

A petition that disputes the material facts on which the Department's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address, and telephone number of the petitioner, the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding, and an explanation of how the petitioner's substantial interests will be affected by the agency determination; (c) A statement of how and when petitioner received notice of the agency action or proposed action; (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate; (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action; and (g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the agency to take with respect to the agency's proposed action.

A petition that does not dispute the material facts upon which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain

the same information as set forth above, as required by rule 28-106.301.

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. 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.

A complete project file 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:

Dept. of Environmental Protection

Bureau of Air Regulation
Suite 4, 111 S. Magnolia Drive
Tallahassee, Florida, 32301
Telephone: 850/488-0114
Fax 850/922-6979

Air Management Division
Hillsborough County
Environmental

Protection Commission
1410 North 21 Street
Tampa, Florida 33605

Telephone: 813/272-5530
Fax: 813/272-5605

Dept. of Environmental Protection

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619-8218
Telephone: 813/744-6100
Fax 813/744-6084

The complete project file includes the application, technical evaluations, draft PSD permit modification, and the information submitted by the responsible official, exclusive of confidential records under Section 403.111, F.S. Interested persons may contact the Administrator, New Source Review Section, or the Department's reviewing engineer for this project, Joseph Kahn, P.E., at 111 South Magnolia Drive, Suite 4, Tallahassee, Florida 32301, or call 850/488-0114, for additional information.

2468

5/2/00

Z 031 391 950

US Postal Service
Receipt for Certified Mail

No Insurance Coverage Provided.

Do not use for International Mail (See reverse)

Sent to <i>Nancy McCann</i>	
Street & Number <i>City of Tampa</i>	
Post Office, State, & ZIP Code <i>Tampa FL</i>	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date <i>0570127-003-4-18-00 PSD-FL-086A</i>	

PS Form 3800, April 1995

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:
*Nancy McCann, UCC
 City of Tampa
 300 E Jackson St. 5N
 Tampa, FL 33602*

2. Article Number (Copy from service label)

Z 031 391 950

PS Form 3811, July 1999

Domestic Return Receipt

402595-99-M-1789

COMPLETE THIS SECTION ON DELIVERY

A. Received by (Please Print Clearly)	B. Date of Delivery <i>APR 18 2000</i>
C. Signature <i>X [Signature]</i>	<input type="checkbox"/> Agent <input type="checkbox"/> Addressee
D. Is delivery address different from item 1? If YES, enter delivery address below:	<input type="checkbox"/> Yes <input type="checkbox"/> No

3. Service Type

<input checked="" type="checkbox"/> Certified Mail	<input type="checkbox"/> Express Mail
<input type="checkbox"/> Registered	<input type="checkbox"/> Return Receipt for Merchandise
<input type="checkbox"/> Insured Mail	<input type="checkbox"/> C.O.D.

4. Restricted Delivery? (Extra Fee) Yes