IMAGE QUALITY AS YOU VIEW THE FOLLOWING DOCUMENT, PLEASE NOTE THAT PORTIONS OF THE ORIGINAL WERE OF **POOR QUALITY**



225 East Robinson Street, Suite 100 Orlando, Florida 32801

> Phone: 407 649-5475 Fax: 407 649-6582

Web: www.hsagolden.com

January 7, 2005

Mr. James N. Bradner, P.E., Program Manager Solid and Hazardous Waste Florida Department of Environmental Protection

3319 Maguire Boulevard, Suite 232 Orlando, Florida 32803

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Solid Waste Section

Subject:

Class I Waste Processing Facility Intermediate Permit Modification Application

Taft Recycling, Inc., 375 7th Street, Taft, Florida

Permit No. SO48-0173968-003

Project No. 04-297.010

Dear Mr. Bradner:

On behalf of Taft Recycling, Inc., HSA Golden is submitting for your review a permit modification application for temporary Class I waste acceptance using the existing Taft Recycling facility in Taft, Florida. This application describes temporary Class I waste processing and transfer within the existing facility. Specifically, we are requesting to be allowed to accept Class I MSW into the existing MRF building once it has been retrofitted with upgraded ventilation, lighting and leachate controls. This temporary Class I operation is expected to last for about six months, or until the new building expansion is complete. Your office has already received a permit modification application dated August 17, 2004, and an RAI dated September 30, 2004, for the proposed building addition to include a permanent Class I facility. A check for the \$1,000.00 intermediate permit modification processing fee is enclosed.

We have organized the attachments to this submittal as listed below. The attachments which have not changed since the previous permit submittal are not being resubmitted.

Attachment A

Application Form No. 62-701.900(4)

• Attachment B

Operations Plan-Revised

Attachment C

Site Plans-Revised

Facility compliance with prohibitions of Rule 62-701.300, FAC were also previously submitted. In addition, we have previously submitted an ERP modification request to the Department's stormwater section under separate cover. This modification will include no additional impervious surfaces, so the ERP will not require modification.

We trust that this submittal will meet the requirements of Rule 62-701, FAC and will allow the permit issuance for the subject temporary waste processing facility. Please call if you have any questions.

Sincerely,

HSA GOLDEN

James E. Golden, P.G.

Vice President, Principal Hydrogeologist

David L. Lagrett

David L. Leggett, P.E.

Senior Project Manager, Principal Engineer

Environmental and Engineering Consultants

Attachments

Addressee (4) Copy to:

George Ward, Taft Recycling Bill Condron, Taft Recycling Mike Massaro, Taft Recycling

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JAN 1 1 2005

Solid Waste Section

ATTACHMENT A



Florida Department of Environmental Protection Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, FL 32399-2400

Form Title Application to Construct, Operate Modify a Waste Processing Facility

Effective Date 05-27-01

DEP Application No.

DEP Form # 62-701.900(4)

FECEIVED

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION JAN 1 1 2005

APPLICATION FOR PERMIT TO CONSTRUCT, OPERATE OR MODIFY A WASTE PROCESSING FACILITY

Solid Waste Section

GENERAL REQUIREMENT: Solid Waste Management Facilities shall be permitted pursuant to Section 403.707, Florida Statutes, (F.S.) and in accordance with Florida Administrative Code (F.A.C.) Chapter 62-701. A minimum of four copies of the application shall be submitted to the Department District Office having jurisdiction over the facility. The appropriate fee in accordance with Rule 62-701.315(4), F.A.C., shall be submitted with the application by check made payable to the Department of Environmental Protection (DEP). appropriate sections for the type of facility for which application is made and include all additional information, drawings, and reports necessary to evaluate the facility.

	e Type or Print in Ink GENERAL INFORMATION
1.	<pre>Type of facility (check all that apply): [/] Transfer Station [/] Materials Recovery Facility: [] C&D Recycling [/] Class III MRF [/] MSW MRF [] Other Describe: [/] Volume Reduction Facility [/] Pulverizer/Shredder [/] Compactor/Baling [] Other Describe:</pre>
62-701	NOTE: C&D Disposal facilities that also recycle C&D, shall apply on DEP FORM900(6), F.A.C.
2.	Type of application: [v] Construction/Operation [] Operation Without Additional Construction
3.	Classification of application: [] New [] Substantial Modification [] Renewal [/] Intermediate Modification [] Minor Modification
4.	Facility name: Taft Recycling, Inc.
5.	DEP ID number: S048-0173968-003 County: Orange
	Facility location (main entrance): 375 7th Street, Taft, Florida 32824
7.	Location coordinates:
	Section: 2 Township: 24S Range: 29E
	UTMs: Zone 17 462480 km E 3144268 km N
	Latitude: 28 ° 25 ' 33 " Longitude: 81 ° 22 ' 59 "

8.	Applicant name (operating authority):	Taft Recycling, Inc.	
	Mailing address: 1099 Miller Drive Altam		32701
	Street or P.O. Box	City State Zip	
	Contact person: Bill Condron		
	Title: Regional Manager b		
		E-Mail address (if available)
9.	Authorized agent/Consultant:	HSA Golden	
	Mailing address: 225 E. Robinson Street, Suite 100	Orlando Florida	32801
	Street or P.O. Box	City State Zip	
	Contact person: James E. Golden	Telephone: $(\frac{407}{})$ 649-64	58
	Title: Vice President	jgolden@hsagolden.co	om
		E-Mail address (if available	
10.	Landowner(if different than applicant): 7th	Street Properties,	LLC
	Mailing address:	Chicago Illinois 6	50608
•	Street or P.O. Box	City State Zip	
	Contact person: Jeff Godfrey, Comptroller	Telephone: $(\frac{312}{})$ 942-00	42
		godfrey@recyclingit.c	
11.	Cities, towns and areas to be served:	E-Mail address (if available)
	Orange, Osceola, Seminole Cour	ntiog. City of Orlan	
12.	Date site will be ready to be inspected for co	ompletion: March 200	5
13.	Estimated costs:		
	Total Construction: \$ 100,000 Closi	ng Costs: \$ NC	<u></u> :
14.	Anticipated construction starting and completi	ion dates:	
	From: January 2005 To:	March 2005	
15.	Expected volume of waste to be received: 3,	000 yds3/day Class III-700 tor	ns/day
16.	Provide a brief description of the operations	planned for this facility: 1	The
	facility will accept Class I and Class III waste from private coll	ection vehicles. The Class I waste will be	e placed
	into transport vehicles and hauled to a Department permitted Class	I landfill. Recyclable materials will be s	eparated
	from the Class III waste stream. The remaining waste will be haul	led to a Department permitted Class III 1	andfill.

B. ADDITIONAL INFORMATION

Please attach the following reports or documentation as required.

- 1. Provide a description of the solid waste that is proposed to be collected, stored, processed or disposed of by the facility, a projection of those waste types and quantities expected in future years, and the assumptions used to make the projections (Rule 62-701.710(2)(a), F.A.C.) Attachment B, Sections 1.1, 1.2, 2.3.1 and 2.4.1
- 2. Attach a site plan, signed and sealed by a professional engineer registered under Chapter 471, F.S., with a scale not greater than 200 feet to the inch, which shows the facility location, total acreage of the site, and any other relevant features such as water bodies or wetlands on or within 200 feet of the site, potable water wells on or within 500 feet of the site and wells serving community water supplies on or within 1000 feet of the site (Rule 62-701.710(2)(b), F.A.C.). Attachment C Site Plan, NC in aerial
- 3. Provide a description of the operation and functions of all processing equipment that will be used, with design criteria and expected performance. The description shall show the flow of solid waste and associated operations in detail, and shall include (Rule 62-701.710(2)(c), F.A.C.):
 - a. Regular facility operations as they are expected to occur;
 - b. Procedures for start up operations, and scheduled and unscheduled shut down operations; and
 - c. Potential safety hazards and control methods, including fire detection and control. Attachment B, Sections 1.16, 1.2, 1.6.4, and 2.0; Appendix C
- 4. Provide a description of the design requirements for the facility which demonstrate how the applicant will comply with Rule 62-701.710(3), F.A.C. Attachment B, Section 2.0
- 5. Provide a description of the loading, unloading, storage and processing areas (Rule 62-701.710(2)(d), F.A.C.). Attachment B; Sections 1.2; 2.3; 2.5; Site Plan, Appendix I
- 6. Provide the identification and capacity of any on-site storage areas for recyclable materials, non-processable wastes, unauthorized wastes, and residues (Rule 62-701.710(2)(e), F.A.C.). Attachment B; Site Plan; Appendix B
- 7. Provide a plan for disposal of unmarketable recyclable materials and residue, and for waste handling capability in the event of breakdowns in the operations or equipment (Rule 62-701.710(2)(f), F.A.C.).

 Attachment B; Section 2.5
- 8. Provide a boundary survey, legal description, and topographic survey of the property(Rule 62-701.710(2)(g), F.A.C.). NC (see 8-17-04 application Attachment B)
- 9. Provide an operation plan which describes how the applicant will comply with Rule 62-701.710(4), F.A.C. (Rule 62-701.710(2)(h), F.A.C.). Attachment B
- 10. Provide a closure plan which describes generally how the applicant will comply with Rule 62-701.710(6), F.A.C. (Rule 62-701.710(2)(I). F.A.C.). Attachment B; Section 3.0
- 11. Unless exempted by Rule 62-701.710(10(a), F.A.C., provide the financial assurance documentation required by Rule 62-701.710(7), F.A.C. (Rule 62-701.710(2)(j), F.A.C.).

 NC (see 8-17-04 application and 9-30-04 RAI Attachment E)
- 12. Provide documentation to show that stormwater will be controlled according to the requirements of Rule 62-701.710(8), F.A.C. see ERP48-0179138-002-EM issued 1-7-05
- 13. Provide documentation to show that the applicant will comply with the recordkeeping requirements of Rule 62-701.710(9), F.A.C. Attachment B, Section 2.9

Applicant:	
The undersigned applicant or authorize	ed representative of Taft Recycling, Inc.
is awar	re that statements made in this form and attach
Florida Department of Environmental Pr this application is true, correct and belief. Further, the undersigned agre 403, Florida Statutes, and all rules a	Waste Processing Facility Permit from the rotection and certifies that the information is complete to the best of his/her knowledge and ees to comply with the provisions of Chapter and regulations of the Department. It is insferable, and the Department will be notified for the permitted facility.
Signature of Applicant or Agent	2401 S. Laflin Street Mailing Address
Bill Condron, Regional Manager Name and Title (please type)	Chicago, Illinois, 60608 City, State, Zip Code
bcondron@recyclingit.com	(312) 942-0042
E-Mail address (if available)	(312) 942-0042 Telephone Number
	Date:
	letter of authorization if agent is not a lental official, owner, or corporate officer.
governm	letter of authorization if agent is not a mental official, owner, or corporate officer.
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c.

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ATTACHMENT B
Operations Plan

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Solid Waste Section

OPERATIONS PLAN

TAFT RECYCLING, INC. CLASS I AND CLASS III WASTE PROCESSING FACILITY PERMIT MODIFICATION APPLICATION TAFT, FLORIDA

Prepared for:

Taft Recycling, Inc. 148 Baywood Avenue Longwood, Florida 32750

Prepared by:

HSA GOLDEN
225 East Robinson Street, Suite 100
Orlando, Florida 32801

Project No. 04-297.010

September 2004 January 2005 - Revised

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LIST OF APPENDICES

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Appendix A: Authorized/Unauthorized Materials

Appendix B: Material Disposition

Appendix C: Facility Operations Flow Chart

Appendix D: Training Log, Schedule of Courses, Certificates

Appendix E: Emergency Telephone Numbers

Appendix F: Sign

Appendix G: Unauthorized Waste Log Appendix H: Equipment Cut Sheets

Appendix I: Site and Building Plans

OPERATIONS PLAN

1.0 GENERAL

1.1 PURPOSE

The purpose of this manual is to describe the operation and maintenance procedures for the Taft Recycling, Inc. (TRI) waste processing facility (Facility) located at 375 7th Street in Taft, Florida. The Facility currently includes processing and storage areas for Class III materials. Materials accepted at the site include yard trash, concrete, asphaltic concrete, wood wastes, building debris, cardboard, carpet, cloth, paper, glass, metal, plastic, waste tires, and furniture. A building expansion is proposed to process and transfer Class I waste. Sections have been added to this plan for a temporary plan that describes Class I waste processing and transfer within the existing facility. This permit modification proposes to add processing and transfer areas for Class I municipal solid waste (MSW).

1.2 PROCESS OVERVIEW

All waste entering the Facility will follow a process of identification and sorting immediately upon arrival at the site. If the material is unauthorized, the driver will be directed to a solid waste management facility which is permitted to handle the type of material rejected. Appendix A contains a list of typical authorized and unauthorized materials for the proposed modified Facility.

Upon acceptance, the truck will be weighed and directed to the appropriate area where the waste will be placed on an indoor tipping floor. Class I waste will be placed by collection trucks in the Class I area located in the building, processed, and loaded on to transfer trailers for Class I Landfill disposal. The Class III waste will also be placed in the building to undergo sorting operations in the form of placing the waste into a sorter with a conveyor belt where the material will be downsized and hand sorted. Unsuitable materials (i.e. paint containers, oil containers, etc.) will be temporarily stored inside the building and transported off-site for proper disposal. Recoverable (paper, plastic, cardboard, metal, etc.) and recyclable (wood and concrete) materials will be removed for recycling. The cardboard will be placed into a baler, and the wood will be placed in a chipper. Recovered screen materials (RSM) are stored in a covered concrete bin for transport to a Class I landfill for use as daily cover material.

The temporary Class I Waste tipping floor will be enclosed within bays 3 and 4 of the existing 150 ft. by 75 ft. facility building. Class I and Class III / C & D tipping floors (bays 1 and 2) will be separated by an 8 ft. concrete bin block wall, see revised drawing C-6A in Appendix I. The duration of temporary Class I waste acceptance into the existing building will be about 6 months (approximately March 2005 to August 2005). Ventilation, lighting and leachate control upgrades are to be added to the existing building prior to Class I waste acceptance, see following details in Sections 1.10, 2.3.1, and 2.4.1.

Once the waste has been sorted, unacceptable waste or rejected Class III wastes will be transported to disposal facilities.

Page -1-

1.2.1 Waste Quantity Projections

The future demand for recycled and properly disposed Class I and Class III waste material is expected to increase. This is based on the 4 to 5 percent population growth rates for Orange, Osceola, and Seminole Counties per the Florida Statistical Abstract. Material types will be limited to the processing capabilities of this site. Solid waste quantities are projected to also grow at a rate of four to five percent per year. The three primary operations will be sorting, compacting, and chipping. Estimated demands, may require managing approximately 3,000 cyds (1,000 tons) per average operating day, with a maximum of 4,242 cyds (1,500 tons) per day of Class I (500 tons/day) and Class III (1000 tons/day) waste. This production rate of 77 to 108 tons per hour is well within the stated equipment capacities. All equipment specified for this site exceeds this initial anticipated average production rate. The equipment production capacities are 50 tons per hour for the sorter, 20 tons per hour for the cardboard compactor, and a minimum of 32 to 45 tons per hour for the wood chipper, depending on the type of material.

1.3 MANAGEMENT AND OPERATIONS PERSONNEL

Personnel trained for handling and processing of Class I and Class III material will be designated to operate the Facility. TRI will have certified operators on staff. The certifications for the current Facility Manager are provided in Appendix D. The Regional Manager is responsible for overseeing operators of TRI facilities within the region. Overall management of the Facility and general direction of the Facility operations will be the responsibility of the Facility Manager, whose office will be located on-site. The Facility Manager's responsibilities include:

- Managing environmental compliance for the Facility;
- Managing personnel requirements for the Facility, including hiring of supervisory and operating personnel, and providing for their training and orientation;
- Ascertaining the operation and maintenance needs for the Facility;
- Implementation of the Operations and Maintenance Plan for the Facility; and
- Implementation of Equipment Maintenance Plans.

In the absence of the Facility Manager, duties and responsibilities of the Facility will be performed by the Yard Supervisor. The Yard Supervisor's additional responsibilities include:

- Supervising the tipping floor;
- Supervising the placement of materials;
- Supervising heavy equipment operations; and
- Spotting loads.

Spotters will be employed on the tipping floor and as loader operators to pre-check each incoming load for concealed drums and other suspect waste and to handle sorting operations. Support staff, such as sorters, gate attendant and equipment operators will be employed to facilitate operations at the Facility.

1.4 HIRING AND TRAINING PROGRAM

In-house and publicly available training will be obtained to ensure that operators and spotters are properly trained to operate the Facility and to identify and manage unacceptable materials entering the Facility. This plan is designed to fulfill the requirements of F.A.C. 62-701.320(15).

In-house training will be provided on an as-needed basis, generally when new operators and spotters are hired until the required publicly available training is feasible. Any in-house operator training, which includes an examination required by Section 403.716 F.S., will be administered by an independent third party. Publicly available training will be provided on a schedule, which complies, with F.A.C. 62-701.320(15). This will include 16 hours of initial operator training and 8 hours of spotter training to instruct in the proper operation of the Facility and provide instruction in identifying unacceptable materials, especially materials that qualify as a hazardous waste.

Once every three years, each operator will complete 8 hours of additional course work as a refresher to the initial training and to learn new operation procedures and information related to waste identification. Spotters will receive 4 hours of course work every three years as a refresher. The course work will be selected from courses available through the University of Florida TREEO Center that meet the needs of the Facility. Records documenting the above training will be made available for inspection by the Department Staff at the Facility and the office of the Facility Manager. A copy of the training log, training schedule, and a list of approved classes are provided in Appendix D.

1.5 EMERGENCY TELEPHONE NUMBERS

Emergency telephone numbers are included in Appendix E.

1.6 EMERGENCY AND CONTINGENCY PLAN

In the event of inclement weather, accidents, fires, and equipment breakdowns, the appropriate provision of the contingency plan will be implemented immediately. Amendments will be made to this plan if the Facility design, operations or maintenance procedures change.

Incidents, which might require the assistance of outside emergency response agencies, will be handled by conventional means. In the event of a natural disaster, all waste will be transferred offsite, operations at the Facility shall cease, and the Facility shall be evacuated until the Facility Manager has deemed the area safe for contingency operations. The evacuation plan includes gathering all personnel on the site at the main office to account for everyone's whereabouts before dismissing the employees and directing them to leave the property. If time allows, operations will be maintained on a limited basis (no incoming waste), dependent upon the Facility Manager's determination, to allow continued removal of waste and materials off the property.

1.6.1 Inclement Weather Operations

Litter control at the Facility will occur on a continuous basis during operating hours as a component of the site maintenance program. Loose, stock piled materials will be secured to prevent litter during windy events.

1.6.2 Personal Injury Accidents

In the event of a personal injury at the Facility, the nature and extent of the injury will be assessed to the extent possible by the on-site personnel and emergency first aid techniques administered by appropriately trained personnel as necessary. If the injury appears to require professional medical attention, emergency assistance will be obtained. If the injury requires nonemergency medical attention, the injured party will be transported by conventional means to a place of professional medical care, i.e., hospital, emergency room, doctor's office, or clinic. In all cases, the Facility Manager will be notified.

1.6.3 Vehicular Accidents

In the event of a vehicular accident at the site, a determination will be made regarding the feasibility of safely moving the vehicle(s) under their own power. If possible, the vehicles will be moved out of the way of normal traffic flow. If the vehicles cannot move under their own power and the vehicles are interrupting traffic flow, the vehicles will be pushed out of the way using on-site equipment. The Facility Manager will be notified and arrangements to have the disabled vehicles removed will be made in accordance with the directions of the Facility Manager.

1.6.4 Fire

In case of a fire, a fire hydrant is located near the processing area and fire hose bibs within the building, as shown on the Site Plan, Appendix I. Water service on the site is supplied by the City of Taft. Fire extinguishers will also be located within the processing area and on all equipment. Fire security will be approved by the Orange County Fire and Rescue Division.

Larger fires located anywhere on the site will be sprayed with water. The primary emergency phone number (911) and the Fire Department will be called immediately to respond to all fires.

During a fire, all placement of combustible waste in the immediate area of the fire will be suspended. Placement of combustible waste in the area of the fire can only resume after a thorough inspection by the Facility Manager.

In the event of a fire in or on facility equipment, the following procedures will be followed by the equipment operator or other nearby facility personnel:

- Activate the on-board fire suppression equipment;
- If possible, safely move the equipment away from the fire immediately, shut off the engine, and drop blade;

- Signal other operators in the immediate area of the fire via radio or by hand signals;
- Evacuate the vehicle; and,
- Extinguish any reoccurring fires with the fire suppression equipment on the facility vehicles.

Charged and tested fire extinguishers will be located throughout the Facility, including the tipping floor, maintenance building, office and in some cases, the equipment (i.e., sorter, loaders and trucks) carry them.

There will be no open burning at the Facility. Any accidental fires that take more than one hour to extinguish shall be promptly reported to the County and FDEP.

1.6.5 Hot Loads

Any hot load (of authorized material) identified will be dumped in an area away from the active processing area, see Site Plan. The load will immediately be covered with soil or sprayed with water if a fire is imminent. All run off from hot loads will be directed to the leachate collection trenches. The waste will not be processed until it has cooled completely, and the fire hazard has been mitigated.

1.6.6 <u>Hazardous Waste and Spills</u>

No hazardous wastes are to be accepted at the Facility. The Yard Supervisor, spotters, and equipment operator will be responsible for spotting concealed drums or other suspect wastes. In the event waste materials of questionable nature are unloaded before they are spotted by Facility personnel, the source of the waste will be recorded, and the Facility Manager shall be immediately notified to determine the appropriate action. Typical actions will include: 1) isolation of the waste; 2) temporary storage of small containers in 55-gallon FDOT drum; and 3) uncontainerized wastes shall be isolated in the building and the Department and contractor, such as Safety Kleen, will be called to manage proper waste disposal. All suspect hazardous wastes will be removed from the facility within 5 days.

Despite these precautions, if hazardous waste, fuel, or oil is spilled at the site, absorbent material will be placed to contain the spill. The Facility Manager will be notified immediately in the event a spill occurs. During the operational hours of the Facility, at least one person who is trained in the spill plan procedures will be on-site. In case of a spill, the following spill contingency plan will be implemented.

- 1. In case of, or as soon as any spill is observed, the source of the spill will be located and actions taken to prevent further spillage, if possible;
- 2. Valves, pumps, and electrical equipment will be shut off as appropriate;

- 3. Potential ignition sources will be removed from and restricted from entering the area of the spill;
- 4. Existing floor drains, sumps, and storm drains will be covered or a temporary dike constructed:
- 5. Absorbent socks/booms will be used where appropriate. A spill response firm will be contacted, if necessary, to assist in these activities. The spill response firm will provide sampling and analysis for spill cleanup materials;
- 6. All absorbed material or contained liquid will be removed and packaged in Florida Department of Transportation (FDOT) approved containers (55-gallon drums). Used Absorbent materials should be packaged separately from liquids; and,
- 7. All containers used for the disposal of petroleum spill response debris will be labeled with type of waste determined by visual inspection and laboratory testing, and the start date of accumulation and disposed in accordance with Federal and State environmental regulations. Debris from large spills will be removed immediately by the spill response firm. Debris from small spills will be kept in one 55-gallon drum, in the processing area, for no longer than 30 days.

The following spill clean up equipment will be maintained at the Facility:

- Spill response kit capable of containing a spill of at least 25 gallons will be located in the processing area. This kit includes absorbent spill pads, socks, and/or booms;
- An adequate amount of nitrile gloves, nitrile or rubber boots and other personal protective equipment;
- First aid kit and eye wash; and,
- Fire extinguishers.

1.6.7 Equipment Failure

Sufficient backup equipment will be available for equipment breakdowns and downtime for normal routine equipment maintenance. In case of major equipment failure (both primary and backup equipment fail) the following procedures will be followed:

- 1. Arrangements with contractors and rental equipment dealers will be made to furnish equipment on a short-term basis. Equipment will be available within one to two hours; and,
- 2. Applicable Facility operations will cease until equipment capacity is retained by renting the necessary equipment.

3. Electrical power loss will require the use of on–site 8000 kw generators to operate lighting and leachate pump systems.

1.7 WASTE-TYPE CONTROL PLAN

Emphasis will be placed on controlling the types of waste unloaded within the Facility. Each load will be visually screened, to the maximum extent practical, by the Yard Supervisor for unauthorized wastes (batteries, drums, gas cans, oil cans, paint cans, etc.) before unloading.

A 4-foot by 8-foot painted sign will be constructed at the entrance to the Facility, which will indicate the types of waste allowed, see Appendix F. The sign will include a notice that attempting to unload unauthorized waste will result in the delivery personnel having to reload the waste and remove the waste from the site.

TRI will have two full-time spotters/equipment operators, one on each tipping floor, when waste is received and processed who will be trained in identifying hazardous waste and wastes unsuitable for acceptance at the Facility.

In the event waste not suitable for processing within the Facility is observed by any spotter, sorter, or equipment operator, the spotter, sorter, or equipment operator will be responsible for isolating the suspect waste. The rejected waste will be loaded into the proper transport vehicle for disposal offsite and recorded in a log, see Log Form in Appendix G.

Reasonable effort will be made to prevent the delivery of unauthorized waste to the Facility. In the event unauthorized waste is delivered to the Facility, it will be handled in accordance with applicable laws. Unauthorized waste will not be processed at the Facility.

Pressure-treated lumber (i.e. treated with chromated copper arsenate (CCA) will <u>not</u> be recovered from the waste stream for chipping or mulching, but will be transported for proper disposal. The CCA treated wood will be either identified by waste type (fencing or decking) or by the distinctive greenish color.

1.8 WEIGHING AND MEASURING INCOMING WASTE

All incoming waste will be weighed prior to processing at the Facility. TRI will retain all records at the Regional Facility's administrative office for a minimum of three (3) years.

The records will be available to the FDEP personnel upon request. Report outputs can include daily, month-to-date and year-to-date totals of waste received.

1.9 SIGNS AND VEHICLES TRAFFIC CONTROL

Ingress and egress to the Facility will be limited to 7th Street. A sign will be located at the entrance gate stating facility name, hours of operation, acceptable/unacceptable wastes, and emergency phone numbers. Additional interior signs will be used to direct traffic to the appropriate tipping areas. The entrance road exists from the Facility entrance gate located near the southeast property corner and

Ingress and egress to the Facility will be limited to 7th Street. A sign will be located at the entrance gate stating facility name, hours of operation, acceptable/unacceptable wastes, and emergency phone numbers. Additional interior signs will be used to direct traffic to the appropriate tipping areas. The entrance road exists from the Facility entrance gate located near the southeast property corner and extends through the scale to the building and around to the exit located at the southeast corner. Transfer trailers will enter near the southeast corner, load at the building and exit at the southeast corner of the site, crossing the scale and picking up bills of lading. The entrance and exit roads will be accessible in all weather conditions. Lockable gates will control access to the site. Vehicle traffic flow is depicted on drawing D-2, Appendix I. Drawing D-2A has been added to Appendix I to depict the temporary flow of MSW trucks to bays 3 and 4 of the existing MRF building.

TRI personnel will direct incoming truck traffic to expedite safe movement of vehicles within the Facility. Traffic will be directed as necessary to prevent dangerous traffic conditions and to assure that any back up of in-bound vehicles is kept off of the public right—of—way.

1.10 ODOR AND VENTILATION

Action shall be taken to prevent fugitive odors and particulates from creating nuisance conditions. These steps include the following:

- Rejection of unacceptable waste that would create odors;
- Removal from the site of putrescible or other rejected waste that could cause odor problems within 48 hours;
- Cleaning of the MSW tipping floor daily;
- Active management of recycled materials;
- Use of odor masking agents, if necessary,
- Wall mounted 3 hp ventilation fans are to be installed in the existing facility building to insure interior ventilation, see Appendix H for fan specifications and drawings M-1 and M-2, Appendix I.

1.11 **DUST**

The following steps will be taken to minimize fugitive dust emissions at the Facility:

- Sprinkling roadways, stockpile areas, and processing areas with water as necessary.

1.12 LITTER

The site will be inspected daily for litter. Litter will not be allowed to accumulate and will be picked up daily (or as often as necessary) and put into appropriate containers for proper disposal. Litter fencing will be constructed to control blowing litter around the building, wherever feasible.

1.13 VECTOR CONTROL

The following steps will be taken to minimize vectors at the site:

- Unacceptable wastes will not be accepted at the recycling Facility;
- Rejected wastes will be promptly removed and disposed of at an appropriate disposal facility. Rejected waste will be removed within one week;
- Class I waste will be disposed off-site within 48 hours;
- Non-active portions of the site will be kept mowed and free from debris accumulation; and,
- If needed, pesticides will be used in accordance with Florida Department of Agriculture rules and standards.

1.14 HOURS OF OPERATION

The Facility will be open up to 24 hours per day, 7 days a week. Although, typically the facility will be closed on Sundays. During non-day light hours, lighting will be provided by 400-watt, building and 400-watt yard lights in the processing area. All lights will be weather proof and sealed to prevent a dust explosion, see Appendix H for lighting details. Existing building interior lighting details have been provided on drawings E-1, E-2, E-3, Appendix I.

1.15 ACCESS CONTROL AND SITE SECURITY

Access to the Facility will be controlled by a 6-foot chain link fence. Security will be maintained by locking the entrance and exit gates during any times the Facility is not operating. Semi-annual inspections of the wall and fence will be conducted to identify locations in need of repair.

1.16 EQUIPMENT AND OPERATION PROCEDURES

The Facility tipping floor operation is expected to operate with the following equipment:

Front-End Loader - (2)

The recycling operation is expected to operate with the following equipment:

- Fork Lift Primary;
- Front-End Loader (1) Primary;
- Front-End Loader Back-up;
- Excavator Primary;
- Tromell Screen Primary;
- Sorting Line Primary;
- Compactor Primary;

- Horizontal Portable Grinder Primary;
- Transfer Trucks Primary;
- Misc. Roll-Off Containers/Bins (15).

All of the equipment on the site will be owned by TRI. Details on the loaders, excavator, compactor, and tub grinder (chipper) are provided in Appendix H.

Where appropriate, equipment will be fitted with safety cabs, fire extinguishers, and radio communication equipment. The radio equipment will also be stationed in the administrative offices located on-site, along with telephone service.

The on-site administrative offices will include potable water, sanitary facilities, emergency firstaid supplies, telephone, fax, and electricity. The building also will provide shelter for employees during inclement weather conditions.

Maintenance to the equipment will be performed by an off-site mobile contractor.

1.17 NOTICE OF VIOLATION

The Facility Manager will provide immediate notice to the Regional Manager, in the event TRI is notified by Federal, State or local governmental agencies or officials regarding violations of any permits or approvals held by TRI relating to the operation and use of this Facility. The Regional Manager will respond appropriately to the various agencies, and immediately correct the non–compliance item.

2.0 CLASS I AND CLASS III OPERATIONS

2.1 PURPOSE

The Facility processes the incoming material to remove that portion of the waste that has an end—use market. Residuals from the recycling facility are disposed of at appropriate disposal facilities.

2.2 START UP AND SHUT DOWN PROCEDURES

Start-up procedures will consist of the Facilities Manager inspecting the processing and storage areas for safety purposes. Equipment will be turned on and allowed to warm up if necessary. Storage bins will be inspected to verify ample storage capacity for the day's activities. In the event that the storage capacity is inadequate, additional sorting will cease until the existing stored materials have been removed for resale.

The Facility plans to clear the tipping floor of Class I wastes each day, to the extent possible. However, the Facility anticipates receipt of Class I waste from evening pick-up routes and therefore may have Class I waste on the tipping floor at any given time. Under no circumstances will any Class I wastes remain on the tipping floor for more than 48 hours. Odor control, such as odor masking agents will be used if deemed necessary. Any unprocessed Class III material will be left

on the tipping floor for next day's processing. The processed material will be contained within the confines of the designated storage bins.

2.3 SORTING OPERATIONS

Class I waste will only be accepted in the class I tipping area in the north building expansion. Class III and C&D wastes will be accepted only in the designated bays in the existing WPF building, see Appendix I, D-2. Care will be taken not to commingle wastes. If wastes are mixed, the waste must be disposed of as the highest category of wastes, i.e., class III mixed with class I, will be disposed of at class I landfill.

Within the Class III processing area, an excavator and front-end loaders equipped with buckets or clamps will place the material into a sorting machine. Personnel will be available to hand sort the materials once the machine has removed the fines and reduced the material size. Sorted material will be placed in appropriate bins for recycling or transport vehicles for disposal off-site. Bins will be used in the sorting process (glass, paper, plastic, metal, wood, concrete, cardboard, and RSM (fines). RSM will be sampled in accordance with the FDEP's guidelines for reuse, or disposed of at a Class I landfill. It will be kept in a covered bin, as shown on the Site Plan.

Personnel will operate on an 8 to 10 hour shift with a lunch break in between and will be on the tipping floor at all times when waste is received or processed.

2.3.1 TEMPORARY CLASS I WASTE OPERATIONS

Bays 3 and 4 of the existing building will act as temporary tipping floor for Class I wastes while the north building expansion is under construction (Approximately 6 months). During this time, Class III and C & D wastes will be accepted in bays 1 and 2., see Appendix D-2A for temporary traffic flow. Class I transfer trailer trucks will be loaded within bay 4 of the existing building.

2.4 LEACHATE COLLECTION AND DISPOSAL

The Class I tipping floor is enclosed within a 110 ft by 60 ft portion of the building, see Site Plan, Appendix I. This area of the building has a minimum 6—inch impervious concrete floor and leachate collection and will be washed daily, or as necessary. The leachate collection clean-out covers will be opened during washing. Water shall be directed into the building from the open wall area (east side) to ensure that none of the water leaves the building. Leachate will be collected from this area and the transfer truck scale tunnel through drains and will be discharged to a lift station and storage tank. The trench drains or catch basins will be cleaned daily to prevent clogging, see Appendix H.

The Class III concrete tipping floor is enclosed within a 150 by 75 foot portion of the building. No water will be involved in the processing of the material. Leachate collection is proposed in this area to collect any stormwater that may enter due to the open door on the east side and liquids that may leak from the vehicles. To keep this area clean and free of excess debris, all open floor areas in this portion of the building will be swept weekly. The leachate storage tank will have a high level alarm and will be pumped out by a permitted industrial waste hauler, as needed. Leachate disposal will

be at a State permitted wastewater disposal facility, such as IWS, Jacksonville, FL. Leachate generation rate estimate is in Appendix H.

2.4.1 TEMPORARY CLASS I UPGRADES

The temporary Class I tipping floor area (bays 3 and 4) will be upgraded with leachate controls by the addition of a catch basin with pump to the leachate storage tank on the west of the building. Concrete curbs will also be added to the bay door floors to contain any liquids, see drawing C-6A, Appendix I. The Class I and III/C&D concrete tipping floors will be separated by an 8 ft. concrete block wall within the existing facility. Bays 1 and 2 will be designated for Class III and C & D wastes only.

Manifests of all waste leachate removals will be maintained by TRI.

2.5 PROCESSED/UNPROCESSED MATERIAL DISPOSAL PLAN

The processed (recycled/recovered) material is sold to a variety of different companies for many different uses. The most common uses are described below. After processing, wood waste will be chipped and sold for fill or mulch. Concrete will be crushed offsite and sold. Cardboard and paper will generally be sold to a paper mill. Metal will be sold to scrap metal dealers, and glass will be crushed offsite and sold for fill material. Plastic will be sold to companies capable of recycling mixed plastic and the recovered screened material will be sold for daily cover material. The quantity and maximum storage time for each material is listed in the table in Appendix B.

Class I waste will be placed into larger transport trailers for disposal at a Class I landfill. Unprocessed Class III materials will be placed in a waiting transport vehicle for later disposal at a Class III landfill. Each type of reject waste will be stored in separated bin areas at the north end of the WPF building/loading area, see Appendix I, drawing D-2.

2.6 EQUIPMENT OPERATIONS AND MAINTENANCE MANUAL

Operations and maintenance for each piece of equipment will be in accordance to manufacturer's recommendations and manuals.

2.7 SAFETY PROCEDURES FOR VEHICLES

TRI personnel will direct incoming truck traffic to expedite safe movement of vehicles within the Facility. Traffic will be directed as necessary to prevent dangerous traffic conditions and to assure that any back up of in-bound vehicles is kept off of the public right—of—way.

2.8 STORMWATER MANAGEMENT

The Facility Manager will perform weekly inspections of the stormwater management system. Any required maintenance or repairs will be made within seven days. A copy of the current FDEP stormwater permit is included as Attachment G of this application. This permit is in the process of modification to manage the proposed additional impervious areas.

2.9 RECORD KEEPING/SUBMITTALS

Record submittal requirements for the Recycling Facility will be in compliance with the FDEP requirement for these facilities.

Operational records shall include a daily log of: 1) quantities and types of solid waste received; 2) quantity of solid waste processed; 3) quantity of solid waste stored; and 4) quantity of solid waste removed from site for recycling or disposal. These records/logs will be compiled monthly and made available for Department inspection at the facility.

The reporting requirements include submitting a report annually (by April 1) which summarizes the amounts and types of waste received and the amounts and types of wastes disposed of or recycled. The annual report will be submitted on the FDEP Form 62-701.900(7), per F.A.C. 62-701.710(9).

3.0 CLOSURE PLAN

The closure of the Facility will include removal of the operational equipment, which is completely mobile by design. Any remaining materials will be removed and hauled to an appropriate processing site or landfill. To protect the State from bearing the cost of potential cleanup activities, an insurance policy in the amount as shown in Attachment D will be posted at the time of permitting. The purpose of the Policy is to provide for cleanup of the site, if the permittee does not perform.

The approved closure steps include notifying the Florida Department of Environmental Protection (FDEP) at least 180 days prior to closure. The cleanup is to be completed within 30 days of the final close date. Closure will be completed within 180 days after the final waste load is received. At that time, a closure report is to be issued to the FDEP to allow time for a site inspection and closure certification.

APPENDIX A

AUTHORIZED / UNAUTHORIZED MATERIALS

TAFT REYCLING, INC. WASTE PROCESSING FACILITY AUTHORIZED/UNAUTHORIZED SOLID WASTES

Typical <u>unauthorized</u> solid wastes include:	Typical <u>authorized</u> wastes:
Hazardous wastes.	 "Class I waste" means solid waste which is not hazardous waste, and which is not prohibited from disposal in a lined landfill under Rule 62-701.300, F.A.C.
Chemicals/solvents.	 "Commercial solid waste" means all types of solid waste generated by stores, offices, restaurants, warehouses, and other non-manufacturing activities, excluding residential and industrial wastes.
Paint containers or paint.	 "Household waste" means any solid waste, including garbage, trash, and sanitary waste in septic tanks, derived from households, including single and multiple residences, hotels and motels, bunkhouses, ranger stations, crews quarters, campgrounds, picnic grounds, and day-use recreation areas.
Biomedical wastes.	 "Garbage" means all kitchen and table food waste, and animal or vegetative waste that is attendant with or results from the storage, preparation, cooking, or handling of food materials.
Lead-Acid Batteries.	 "Class III waste" means yard trash, construction and demolition debris, processed tries, asbestos, carpet, cardboard, paper, glass, plastic, furniture other than appliances, or other materials approved by the Department that are not expected to produce leachate which poses a threat to public health or the environment.
Fluorescent light bulbs.	 "Clean wood" means wood, including lumber, tree and shrub trunks, branches, and limbs, which is free of paint, glue, filler, penthachlorophenol, creosote, tar, asphalt, other wood preservatives or treatments.
Used Oil.	"Construction and demolition debris" means discarded materials generally considered to be not water soluble and non-hazardous in nature, including but not limited to steel, glass, brick, concrete, asphalt material, pipe, gypsum wallboard, and lumber, from the construction of destruction of a structure as part of a construction or demolition project or from the renovation of a structure, including such debris from construction of structures at a site remote from the construction or demolition project site. The term includes rocks, soils, tree remains, trees, and other vegetative matter which normally results from land clearing or land development operations for a construction project; clean cardboard; paper, plastic, wood, and metal scraps from a construction project.
White goods.	"Land clearing debris" means rocks, soils, tree remains, trees, and other vegetative matter which normally results from land clearing or land development operations for a construction project. Land clearing debris does not include vegetative matter from lawn maintenance, commercial or residential landscape maintenance, right—of—way or easement maintenance farming operations, nursery operations, or any other sources not related directly to a construction project.
* Appliances	
Non–containerized liquids	
Containers or tanks with liquids	

TAFT RECYCLING, INC. TAFT, FLORIDA

UNAUTHORIZED WASTE RECEIPT LOG

1.	DATE:
2.	TIME:
}.	COMPANY:
ŀ.	VEHICLE INFORMATION: A) TRUCK #
	B) LICENSE PLATE #
•	
•	NAME OF DRIVER:
٠.	SOURCE OF UNAUTHORIZED WASTE MATERIAL:
,	DECORPORAL OF INLLEGIODIZED MACRE MARENAL
•	DESCRIPTION OF UNAUTHORIZED WASTE MATERIAL:
í.	WHAT PROCEDURES WERE FOLLOWED FOR PROPER DISPOSAL/REMOVAL FROM
	THE SITE?
	OTHER OBSERVATIONS:
0.	SPOTTER SIGNATURE:
	SIGNED

Note: Forms must be maintained in Unauthorized Waste Receipt Log Book

APPENDIX B

MATERIAL DISPOSITION

MATERIALS DISPOSITION TAFT RECYCLING, INC. TAFT, FLORIDA

Material Type	Maximum Storage Quantity	Density (lbs/CY)	Covered or Uncovered	Method of Storage	Disposal/Recycling Location	Maximum Hold Time
Unprocessed Class III	700 CY	400	Covered	Tipping Floor	Class III Landfill	1 Week
Unprocessed C&D	700 CY	667	Covered	Tipping Floor	C&D Landfill	1 Week
Yard Trash	200 CY	296	Uncovered	Outside Bin	Re-Sale Public	6 Months
Recovered Concrete	200 CY	4,000	Uncovered	Outside Bin	Re-Sale Public	6 Months
Asphaltic Concrete	200 CY	1,380	Uncovered	Outside Bin	Re-Sale Public	6 Months
Roofing Tiles	200 CY	2,000	Uncovered	Outside Bin	Re-Sale Public	6 Months
Recovered Cardboard	60 CY	100	Uncovered	Outside Bin	Re-Sale Public	6 Months
Paper	60 CY	600	Covered	Outside Bin	Re-Sale Public	6 Months
Metal Ferrous	60 CY	400	Uncovered	Outside Bin	Re-Sale Public	6 Months
Metal Aluminum	60 CY	250	Uncovered	Outside Bin	Re-Sale Public	6 Months
Glass	60 CY	1,000	Uncovered	Outside Bin	Re-Sale Public	6 Months
Plastic	60 CY	75	Uncovered	Outside Bin	Re-Sale Public	6 Months
Recovered Wood	1,000 CY	600	Uncovered	Outside Bin	Re-Sale Public	6 Months
Tires	30 CY	100	Covered	Roll-off	Tire Recycler	30 Days
Class I Putrescible	1,200 CY	500	Covered	Trailers or Tipping Floor	Class I Landfill	48 Hours
Waste Oil/Hazardous Waste-Rejected	55 Gallons	8 lbs/gal	Covered	Inside Building	Safety Kleen	30 Days
RSM	100 CY	1,000	Covered	Covered Bin	Class I Landfill	6 Months

Note: Storage Location of Material is shown on the Site Plan.

APPENDIX C

FACILITY OPERATIONS
FLOW CHART

APPENDIX D

TRAINING LOG

TAFT RECYCLING, INC. TRAINING SCHEDULE

Personnel	Job Title	Last Trained	Next Required Course Type / Date*
Steve Orr	Transfer Station/MRF Operator	02/08/03	8-hour Refresher / 11/19/06
Bryan Manning	Transfer Station/MRF Operator	11/19/03	8-hour Refresher / 11/19/06
Tony Santaniello	Transfer Station/MRF Operator	11/19/03	8-hour Refresher / 11/19/06
William J. Condron	Transfer Station/MRF Operator - In Training	N/A	19-hour Initial Transfer Station/MRF Operator / 02/19/05
To Be Determined	Spotters	N/A	Initial 8-hour / 10/22/04; 12/03/04

 $[\]hbox{*Dates approximate, $TREEO$ schedule updated annually at www.Treeo.ufl.edu.}\\$

TAFT RECYCLING, INC. TAFT, FLORIDA

TRAINING LOG

COURSE	TRAINED OPERATOR INSTRUCTOR	HRS. ATTENDED	SIGNATURES/ DATE
		11.	
		·.	
			 -
		3	

Training Requirements

To meet the training requirements of FAC 62-701, Operator(s) or Spotter(s) must successfully complete an approved initial training course, and be in attendance for entire course. Operators must pass exam (70% or higher).

Classification

Landfill - Class I, II, III/C&D

Transfer Station/MRF

Landfill Clearing Debris Facility

Spotter of all Facilities

Initial Course

24 hours

16 hours

no operator training required

8 hours

Continuing Education

16 hours

8 hours

no training required

4 hours

Continuing Education Hours Awarded

	Courses	1 11 10	C&D	Trans- fer	MRFs	Spot- ter
lni	* Construction & Demolition Debris Landfill Short Course	16	16			
tial O	* SWANA-Manager of Landfill Operations [MOLO®]	16	16	8	8	
itial Operator	* SWANA-MOLO® Exam				·	
tor	* SWANA-Recycle Mgr Exam					
	★ 19-Hour Initial Training for Transfer Station & MRF Oper	10	10	8	8	4
Initia	* 8-Hour Spotter Training for I,II,III, C&D,TS Mgmt Facilities	8	8	8	8	8
nitial Spotter	Spotter Training for Solid Waste Facilities	8	8	8	8	8
otter	*Training for Spotters at LDF, C&D Sites and TS	8	8	8	8	8
	Waste Screening & Identification for LDF Operators & Spotters	8	8	8	8	8
	Landfill Design and Construction	28				
X	Leachate and Gas Management System Design	15				
anag	Old Landfills Seminar	5	5			
er/Er	Laws and Rules for Florida Engineers		***************************************			
lanager/Engineer	Health & Safety Training for HazMat: 40 Hr OSHA	8 -	8	8	8	
e r	Hazardous Waste Regulations for Generators	4	4	4	4	4
	US DOT Hazardous Materials / Waste Transportation	6	6	.6	6	

* Courses offered in cooperation with SWANA - Florida Chapter.

If you do not have a copy of "Florida's Solid Waste Management Facility Operators & Spotters Training Requirements Guide," visit www.treeo.ufl.edu/sw/TrainingRequirements.pdf for the most up-to-

Solid Waste Courses Coordinator

Dawn Jenkins, University of Florida TREEO Center, 3900 SW 63rd Blvd., Gainesville, FL 32608, (352) 392-9570 ext. 127, FAX: (352) 392-6910, djenkin@treeo.doce.ufl.edu, www.treeo.ufl.edu.

UF/TREEO Hires Full-Time Instructor

Chris J. Roeder, senior training specialist, recently came to the University of Florida TREEO Center from the Florida Department of Environmental Protection where he was an engineer in the solid waste section. Chris was with the DEP for more than 20 years, primarily in compliance, enforcement and permitting for the air and domestic waste sections as well as solid waste.

	Courses	1 11 131	C&D	Trans- fer	MRFs	Spot- ter
	Hazardous Materials in C&D Waste	4	4			
	Groundwater Issues for Landfill Operators	6	6			
	Management of Leachate, Gas, Stormwater & Odor	8	8			
	Asbestos Awareness for Landfill Operators	4	4	4	4	4
Cont	Construction and Demolition Waste Recycling	-7	- 7		7	7
inuir	* SWANA - Managing MSW Recycling Systems	7	7	7	7	
ng E	* SWANA - Household Hazardous Waste	15	15	15	15	15
Education	* Measurement and Calculations for Operators	5	5			
tion	Two-Hour Spotter Refresher Online	2	2	2	2	2
	Health & Safety Training for Landfills Operations	5	5	5	5	5
	Hazardous Materials in C&D Waste Online	4	4			
	HazWoper 40hr OSHA Online	8	8	8	8	·
	HazWoper 8hr Refresher Online	4	4	4	4	4
	Permit Required Confined Space Training	8	8	8	8	
0 <u>+</u>	Excavation and Trenching Competent Person	8	8		-	
Other Courses	Chemistry for Environmental Professionals	8	8	8	8	8
ours	Pumps and Pumping	16	1.6	16	16	
ses	Health & Safety Training for HazMat: 8 Hour OSHA	4	4	4	4	2
	Introduction to Electrical Maintenance	16	16	16	16	

date information on training requirements. New Operators and Spotters this is the guide you will need to use in planning your continuing education training. Please visit http://landfill.treeo.ufl.edu/ for additional solid waste training information and the solid waste database.

At the DEP Gainesville branch office, Chris developed and implemented innovative—compliance strategies for solid waste facilities, and he was a founding member and past chairman of the Environmental Crimes Task Force, working closely with law enforcement on several key environmental investigations. Chris is an active member of SWANA and has been certified by the U.S. Environmental Protection Agency in hazardous waste response and source sampling methods. While with the DEP, he often presented public outreach and training on environmental rules and regulations, including sections in several UF/TREEO courses.

Chris is available to provide spotter and other customized solid waste training. Contact Chris at (352) 392-9570 x103 or croeder@treeo.doce.ufl.edu.



oud to Certify That Steve Orr

Has Successfully Completed the Initial Training Course for Transfer Station and MRF Operators Entitled : 19-hour Initial Training for Transfer Station

and Materials Recovery Facility Operators (with Exam) January 23rd and 24th, 2003

And Has Successfully Completed the Required Examination in Accordance with the Training Requirements for Waste Processing Facility Operators in Florida

Signed this 8th Day of February, 2003

Chris S. Kohl

President



TREEOCENTER

Center for Training, Research and Education for Environmental Occupations

certifies that

Bryan Manning

attended at a

19-Hour Initial Fraining Course for Transfer Station Operators and MRF Operators

November 18-19-2003 and s awarded this

Certificate of Attendance

Date issued: 11/19/03

CEU's: 1.9

Passed Exam with 70% or higher Proficiency

William T. Engel, Jr., Ph.D

Director



TREEO CENTER

Center for Training, Research and Education for Environmental Occupations

certifies that

Tony Santaniello

attended.

19-Hour Initial Training Course for Transfer Station Operators and MRF Operators

November 18-19; 2003 and as awarded this

Certificate of Attendance

Date issued: 11/19/03

CEU's: 1.9

Passed Exam with 70% or higher Proficiency

William T. Engel, Jr., PhyD

Director

APPENDIX E

EMERGENCY TELEPHONE NUMBERS

TAFT RECYCLING, INC. EMERGENCY TELEPHONE NUMBERS

Organization	Phone Number
Primary Emergency Response	911
Fire Department	(407) 836-9000
Hazard Response - Safety Kleen	(407) 321-6080
Police - Orange County Sheriff	(407) 836-3700
Facility Manager - Tony Santaniello Office	(407) 851-0074
Bill Condron - Regional Manager Office Mobile	(312) 942-0042 (312) 405-1085
Florida Department of Environmental Protection - James Bradner	(407) 894-7555

APPENDIX F

SIGNAGE

TAFT RECYCLING SERVICES CLASS I AND CLASS III MATERIAL RECOVER 375 7th STREET	RY FACILITY
Phone No.:TAFT, FLORIDA	
24 Hr. Phone No.:	Typical Hours of Operation 24 Hours a Day Monday - Saturday
ACCEPTABLE WASTES: Class I, Class III, Construction and Demolition Debris	- Caronady
UNACCEPTABLE WASTES: Hazardous wastes, paint, waste oil, appliances, auto parts, batteries, medical wastes.	
TIPPING FEE: \$ per ton - Class I (MSW) \$ per ton - Mixed Class III	
WARNING: We will be sorting all loads for prohibited wastes. Any acceptable wasterejected and may be reloaded onto a vehicle to be taken to an appropriate disposal	

4.0'

DATE: AUGUST 2004

SCALE: 1"= 1'-0"

DRAWN BY: D.R. DAVIS

PROPOSED GATE SIGN TAFT RECYCLING, INC. TAFT, FLORIDA

APPENDIX G

UNAUTHORIZED WASTE LOG

TAFT RECYCLING, INC. TAFT, FLORIDA

UNAUTHORIZED WASTE RECEIPT LOG

1.	. DATE:
2.	. TIME:
•	COMPANY:
•	VEHICLE INFORMATION: A) TRUCK #
	B) LICENSE PLATE #
	NAME OF DRIVER:
	SOURCE OF UNAUTHORIZED WASTE MATERIAL:
	DESCRIPTION OF UNAUTHORIZED WASTE MATERIAL:
	WHAT PROCEDURES WERE FOLLOWED FOR PROPER DISPOSAL/REMOVAL FROM THE SITE?
	OTHER OBSERVATIONS:
).	. SPOTTER SIGNATURE:
	SIGNED

Note: Forms must be maintained in Unauthorized Waste Receipt Log Book

APPENDIX H

EQUIPMENT CUT SHEETS

SBE PERFORMANCE DATA - IN STOCK

Stock Model SBE fans are belt drive exhaust and include steel propellers UL/cUL 705.



MODEL	MOTOR		MAX	F.A.				1		ORMANC	E IN INCH	IES WG				***
NUMBER	HP	RPM	ВНР	SONES	0	.1	.125	.15	.2	.25	.3	.375	.5	.625	.75	1
	1/4	705	.17	13.3	3606	2835	2450	 		 				<u> </u>		
	1/4	861	.30	14.3	4404	3794	3671	3455								
SBE-1L20-LMDX-QD	1/3	889	.33	14.9	4547	3949	3830	3654	3067							
705-1085 RPM	1/3	947	.40	16.1	4843	4270	4155	4043	3647							
,	1/2	1021	.50	17.0	5222	4675	4566	4461	4180	3746						
		1085	.60	17.9	5549	5021	4918	4816	4620	4269	3711					
	1/4	773	.17	9.8	2904	2452	2292	2112	1595	924	676	304				
		953	.30	16.1	3580	3246	3148	3033	2769	2468	-2001	1159	656	Ì		
SBE-1H20-LMDX-QD	1/3	998	.33	16.7	3749	3436	3342	3243	3006	2727	2398	1588	873	392	<u> </u>	<u> </u>
773-1221 RPM		1039	.40	17.2	3903	3607	3517	3427	3211	2954	2675	2037	1064	602		1
	1/2	1107	.50	18.0	4159	3885	3805	3720	3533	3315	3065	2599	1367	934	501	
		1221	.60	20	4587	4339	4277	4203	4049	3872	3675	3333	2514	1456	1063	ļ
	1/4	562	.17	12.3	4673	3577	1050	1070		 	Ļ			ļ	ļ	ļ
į		688	.30	12.8	5721	4890	4659	4378	 		<u> </u>	<u> </u>		 	 	
SBE-1L24-LMDX-QD	1/3	711	.33	13.2	5912	5114	4891	4654	1000	 		<u> </u>			<u> </u>	
562-863 RPM		759	.41	14.1	6311	5572	5367	5158	4621	1777				 	 	↓
	1/2	811	.50	15.6	6744	6062	5872	5677	5255	4528						ļ.,
		863	.60	17.4	7176	6545	6367	6187	5820	5345						1
l	1/4	674	.17	10.0	3524	2893	2679	2416	1615	1155	821				<u> </u>	L
		785	.30	13.2	4104	3617	3445	3266	2848	2105	1654	1132	443	ļ		
BE-1H24-LMDX-QD	1/3	829	.33	14.8	4334	3877	3734	3568	3219	2595	2006	1445	769	404	 	┼
674-1010 RPM		877	.42	16.1	4585	4157	4040	3887	3564	3178	2471	1844	1107	491		┞
	1/2	961	.55	18.5	5024	4641	4534	4428	4145	3846	3484	2574	1700	1103	540	ļ
		1010	.60	19.9	5281	4920	4818	4717	4470	4193	3901	3092	2108	1439	903	ļ
	3/4	645	.75	17.2	10672	9766	9507	9190	8446	7562					ļ	ļ
		685	.90	18.7	11334	10496	10252	10009	9331	8621	2000					· ·
	1	710	1.00	19.7	11748	10949	10714	10479	9871	9192	8383					-
8E-2L30-LMDX-QD 710-950 FIPM		754	1.20	21.	12476	11735	11519	11298	10806	10174	9527	0000		 		├
110-350711-14 .	11/2	812	1.50	24	13436	12748	12569	12364	11953	11425	10837	9892		 	 	
ŀ		864	1.81	27	14296	13650	13488	13309	12923	12521	11970	11131				├
· /	2	895	2.00	29	14809	14185	14029	13868	13495	13123	12633	11830	44700		 	
		950	2.41	32	15719	15131	14985	14838	14502	14151	13790	13038	11760		 	┼
	1 }	518	1.01	16.1	14943	13482 14525	13043	12604	11568	10083	0000		·		·	ļ
DE 21.26 LAADY OD		550	1.21	17.6	15867	15909	14112	13699	· · · · · · ·	11681	9933	· ·		 	 	
BE-2L36-LMDX-QD 518-693 RPM	11/2	593 631	1.51	22	17107 18203	17112	15526 16759	15144 16400	14377	13511	12328	10175			7101	
}	—— 	653	2.01	24	18838	17784	17466	17119	16424	14959 15728	14942	12175 13286	 -		 	
	. 2	693	2.41	27	19992	18998	18743	18416	17761	17105	16449	15153		 	}	
		456	1.50	21	21250	19152	18531	17809	16577	15188	10443	13133			 	+-
}	11/2	484	1.80	23	22555	20598	20064	19419	18116	17086	15457				 	┼
BE-2L42-LMDX-QD		502	2.01	24	23394	21520	21005	20440	19127	18098	16824				 	+
398-611 RPM	2	532	2.40	27	24792	23046	22560	22074	20880	19756	18819	16578			 	┼
_		575	3.01	30	26796	25211	24761	24312	23339	22193	21215	19836				
	3	611	3.65	31	28473	26984	26585	26162	25315	24279	23200	21952	18526		 	╁─╴
		335	1.00	13.7	21586	18559	17625	16199							1	†
ì	1 }	355	1.12	15.4	22875	20095	19219	18192	14778	 				-	 	+-
·		384	1.50	17.9	24743	22196	21482	20667	18419	<u> </u>				 	 	+
BE-2L48-LMDX-QD	11/2	407	1.80	18.9	26225	23840	23203	22474	20719	17923				 	 -	╁
335-613 RPM		422	2.00	19.6	27192	24904	24289	23636	22154	19746					†	
1	2	448	2.40	21	28867	26732	26153	25574	24228	22468	19898			}	 	
†		483	3.00	23	31122	29170	28632	28095	26962	25667	23839				 	+
- 1	3 ⊢	513	3.60	28	33056	31240	30735	30229	29218	28042	26798	23721		 	+	

Performance shown is for Model SBE exhaust without ducts. BHP does not include belt and pulley losses.

Performance shown is for installation type A: Free inlet, Free outlet. Power rating (BHP/kW) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A: free inlet fan sone levels. The AMCA Certified Ratings Seal applies to sone ratings only.

SBE PERFORMANCE DATA - IN STOCK

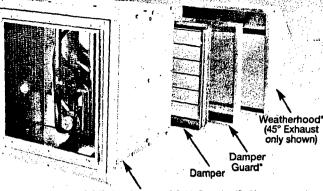
Stock Model SBE fans are belt drive exhaust and include steel propellers UL/cUL 705.

Order stock products online at www.greenheck.com/qd

MODEL	MOTOR		MAX	F.A.					PERF	DRMANC	E IN INCH	IES WG		,		
NUMBER	HP	RPM	ВНР	SONES	0	.1	.125	.15	.2	.25	.3	.375	.5	.625	.75	1
	1/4	705	.17	13.3	3606	2835	2450	<u> </u>	ļ.,,,	ļ	<u> </u>			<u> </u>		
		861	.30	14.3	4404	3794	3671	3455				ļ	<u> </u>	ļ	 	ļ
SBE-1L20-LMDX-QD	1/3	889	.33	14.9	4547	3949	3830	3654	3067			ļ	 			ļ
705-1085 RPM		947	.40	16.1	4843	4270	4155	4043	3647			<u> </u>	 	ļ		ļ
	1/2	1021	.50	17.0	5222	4675	4566	4461	4180	3746	0711	 	ļ			
		1085	.60	17.9	5549	5021 2452	4918	4816	4620	924	3711	204	ļ			-
	1/4	773 953	.17 .30	9.8	2904 3580	3246	2292 3148	3033	1595 2769	2468	676 2001	304 1159	656		· ·	
		998	.33	16.7	3749	3436	3342	3243	3006	2727	2398	1588	873	392		+
SBE-1H20-LMDX-QD 773-1221 RPM	1/3	1039	.40	17.2	3903	3607	3517	3427	3211	2954	2675	2037	1064	602		-
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	7	1107	.50	18.0	4159	3885	3805	3720	3533	3315	3065	2599	1367	934	501	
1	1/2	1221	.60	20	4587	4339	4277	4203	4049	3872	3675	3333	2514	1456	1063	1
		562	.17	12.3	4673	3577	1	4200	1013	35.2	30.0	- 5555		1 100		
	1/4	688	.30	12.8	5721	4890	4659	4378	-	†			 		 	†
SBE-1L24-LMDX-QD		711	.33	13.2	5912	5114	4891	4654						1		
562-863 RPM	1/3	759	.41	14,1	6311	5572	5367	5158	4621	 	· ·		t	 	—	
		811	.50	15.6	6744	6062	5872	5677	5255	4528			1	<u> </u>		1
	1/2	863	.60	17.4	7176	6545	6367	6187	5820	5345						1
		674	.17	10.0	3524	2893	2679	2416	1615	1155	821		†			
	1/4	785	.30	13.2	4104	3617	3445	3266	2848	2105	1654	1132	443	 		
SBE-1H24-LMDX-QD		829	.33	14.8	4334	3877	3734	3568	3219	2595	2006	1445	769			
674-1010 RPM	1/3	877	.42	16.1	4585	4157	4040	3887	3564	3178	2471	1844	1107	491		
		961	.55	18.5	5024	4641	4534	4428	4145	3846	3484	2574	1700	1103	540	
	1/2	1010	.60	19.9	5281	4920	4818	4717	4470	4193	3901	3092	2108	1439	903	
	0.4	645	.75	17.2	10672	9766	9507	9190	8446	7562						
	3/4	685	.90	18.7	11334	10496	10252	10009	9331	8621						
ľ		710	1.00	19.7	11748	10949	10714	10479	9871	9192	8383					
SBE-2L30-LMDX-QD	1	754 -	1.20	21.	12476	11735	11519	11298	10806	10174	9527					
710-950 RPM .	- 41/	812	1.50	24	13436	12748	12569	12364	11953	11425	10837	9892				
	11/2	864	1.81	27	14296	13650	13488	13309	12923	12521	11970	11131				
. [895	2.00	29	14809	.14185,	14029	13868	13495	13123	12633	11830				
	2	950	2.41	32	15719	15131	14985	14838	14502	14151	13790	13038	11760			
		518	1.01	16.1	14943	13482	13043	12604	11568	10083		,				
	1 -	550	1.21	17.6	15867	14525	14112	13699	12872	11681	9933					
SBE-2L36-LMDX-QD	11/2	593	1.51	20	17107	15909	15526	15144	14377	13511	12328					11.127
518-693 RPM	1/2	631	1.81	22	18203	17112	16759	16400	15680	14959	14025	12175			ः हिन्दुन्तर	Property in
	2	653	2.01	24	18838	17784	17466	17119	16424	15728	14942	13286			2.75	
		693	2.41	27	19992	18998	18743	18416	17761	17105	16449	15153	ļ			<u> </u>
	11/2		1.50	21	21250	19152	18531	17809		15188	46463		ļ			
<u></u>			1.80	23	22555	20598	20064	19419	18116	17086	15457		 			
SBE-2L42-LMDX-QD 398-611 RPM	2	502	2.01	24	23394	21520	21005	20440	19127	18098	16824	10570				
330-011 HPM			2.40	27	24792	23046	22560	22074	20880	19756	18819	16578	 			 -
	3 -	575 611	3.65	30	26796 28473	25211 26984 (24761 26585	24312 26162	23339 25315	22193 24279	21215	-19836 21952	18526		 	
			1.00	13.7	21586	18559	17625	16199	20313	242/3	23200	21332	10320			
	1 -			15.4	22875	20095	19219	18192	14778				 			
-			1.12	17.9	24743	22196	21482	20667	18419				·	<u> </u>	 	 -
DE 11 48 140 0-	11/2		1.80	18.9	26225	23840	23203	22474	20719	17923					} 	
335-613 RPM	+		2.00	19.6	27192	24904	24289	23636	22154	19746				 	 	
	2 -		2.40	21	28867	26732	26153	25574	24228	22468	19898				 	
<u> </u>			3.00	23	31122	29170	28632	28095	26962	25667	23839		İ			
i	3 ⊢		3.60	28	33056	31240	30735	30229	29218	28042	26798	23721	 			

Performance shown is for Model SBE exhaust without ducts. BHP does not include belt and pulley losses.

Performance shown is for installation type A: Free inlet, Free outlet. Power rating (BHP/kW) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A: free inlet fan sone levels. The AMCA Certified Ratings Seal applies to sone ratings only.

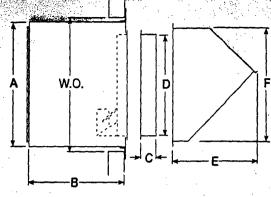


Wall Housing and OSHA Guard - (Std.)

WALL HOUSING DIMENSIONAL DATA

SIZE	WAI	LL HOU	SING		MPER ARD	WEAT	5° THER- OD	WEAT	0° THER- OOD	DAMPER SIZE SQ.
	A	В	W.O.	C	۵	Ε	F	Н	J	3 u .
8	131/4	19	141/4	51/2	101/4	131/4	111/4	16%	12	10
10	151/4	19	161/4	51/2	121/4	141/6	13%	181/2	14	12
12	181/4	23	191/4	51/2	141/4	16%	15%	20%	163/8	14
14	201/4	23	211/4	61/2	161/4	171/2	17%	221/2	18%	16
`16	221/4	24	231/4	6¾	181/4	19%	19%	25	20%	18
18	241/4	28	251/4	6¾	201/4	22	21%	271/2	22%	20
20	261/4	29	271/4	6¾	221/4	243/4	23%	29%	24%	22
24	321/4	361/2	33¾	6¾	261/4	261/8	30%	36	31¾	26
30	381/4	38	39¾	6¾	321/4	291/8	361/2	401/s	371/6	32
36	441/4	39	45¾	6¾	381%	- 33	421/2	451/2	437/6	38
42	50%	42	51%	71/2	441/4	35¾	481/2	491/4	49%	44
48	56¾	44	57¾	71/2	501/4	40%	54%	551/2	56	50
54	62%	50	63¾	71/2	561/4	44¾	60%	611/4	621/4	56
60	68%	54	69%	71/2	621/4	48%	67	661/2	68%	62
72	831/6	60	84¾	71/2	741/4	531/4	791/2	721/6	801/6	74

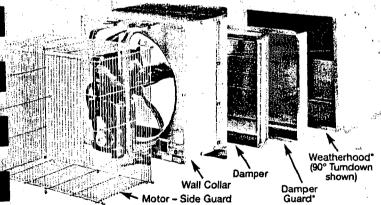
All dimensions in inches.



WALL HOUSING & ACCESSORIES

Wall housings are the safest and most efficient platform for mounting of sidewall propeller fans and their optional accessories. Wall housings allow for a wide range of mounting arrangements to meet specific applications, and can be mounted flush inside, flush outside, or centered in wall. Standard construction is of galvanized steel.

*Select only one. Shown together for illustration only.



W.O. A D

WALL COLLAR DIMENSIONAL DATA

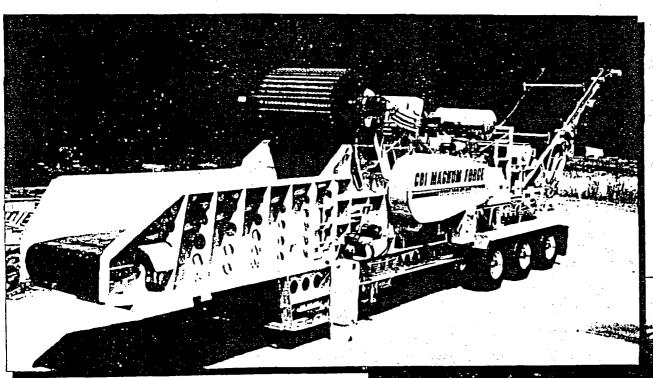
SIZE	WA	LL COLI	LAR		MPER ARD	WEAT	5° THER- OD	WEAT	O° HER- OD	MOTOR- SIDE GUARD	DAMPER SIZE SQ.
	Α	В	W.O.	C	D	E	F	Н	J	G	34.
8	121/8	161/8	141/4	51/2	101/4	131/4	111/4	16%	12	91/2	10
10	141/8	161/8	161/4	51/2	121/4	141/8	13%	181/2	14	10	12
12	17%	161/8	191/4	51/2	141/4	16%	15%	20%	16%	11	14
14	197/8	18%	211/4	61/2	161/4	171/2	17%	221/2	.18%	11	16
16	211/8	183/8	231/4	6¾	181/4	193/8	19%	25	20%	121/4	18
18	231/8	18%	251/4	6%	201/4	22	21%	271/2	223/8	121/4	20
20	251/6	18%	271/4	6¾	221/4	243/4	23%	29¾	243/6	141/2	22
24	31%	18%	33¾	63/4	261/4	261/8	30%	36	31¾	19	26
30	37%	18%	393/4	6¾	321/4	291/8	361/2	401/6	371/8	22	32
36	431/6	18%	453/4	6¾	381/4	33	421/2	451/2	437/8	23	38
42	497/8	18¾	513/4	71/2	441/4	35¾	481/2	491/4	491/8	25	44
48	551/8	181/6	57¾	71/2	501/4	403/8	54%	551/2	56	28	50
54	611/8	20%	63%	71/2	561/4	443/4	60%	611/4	621/2	291/4	56
60	67%	21	693/4	71/2	621/4	483%	67	661/2	683/6	311/4	62

WALL COLLAR & ACCESSORIES

Wall collars offer an alternate method for mounting sidewall propeller fans and the optional accessories shown here. Standard construction is of galvanized steel.

*Select only one. Shown together for illustration only.

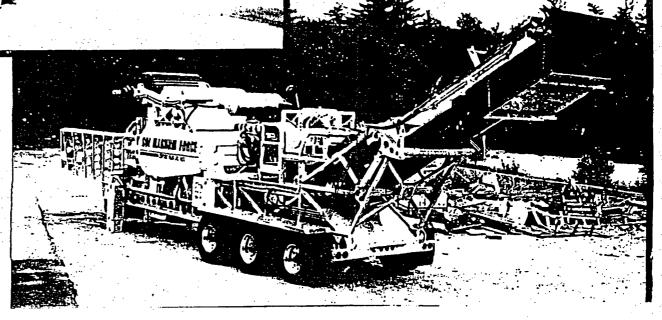
GBI WAG TORGE Series 4800 HZ Hog



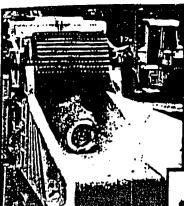
The ultimate land clearing machine grinds full length trees, stumps, and brush at an unbeatable throughput rate. Easily transportable both on and off the road. Safe to operateno flying debris.

BUILT TO PROCESS HIGH VOLUMES OF:

- Stumps
- Logs
- Yard Waste
- Contaminated C & D
- · Poles & Ties, Etc.
- Tolerant to Rock, Dirt
 Metal



Eliminate chippers - Grind trees and stumps into valuable mulch for greater profits!

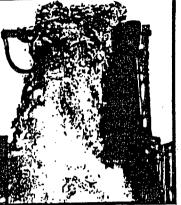


FEED SYSTEM: Two extremely rugged feed rollers, upper and lower, powered by three heavy-duty high-torque planetary gear drives provides continuous positive feed of logs, stumps and brush, etc.

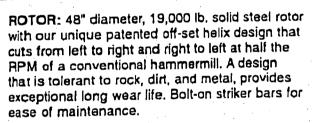
Upper roller's crushing force is adjustable by radio control.

Built-in pre-screener allows abrasive fines to by-pass hog and extend wear component life.

Load-regulated feed system.

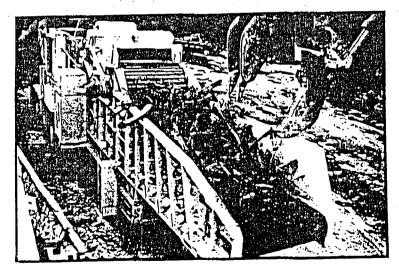


DISCHARGE: 60" wide discharge conveyor, heavy-duty construction; 17' discharge height. Magnetic head pulley available.

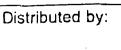


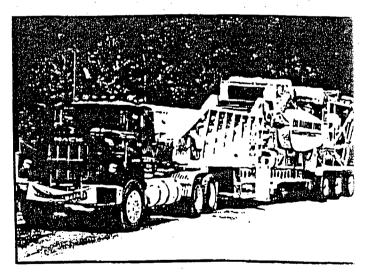


FEED HOPPER: Open ended with exlarge capacity accepts large surges ar full-length material.



CHAMBER: Specially designed hog chamber with full access in front and back; bolt-in liners throughout; tremendously stout grate and anvil frame with shear pin release system for full component protection; bolt-in heavy-duty thick grate liner.





POWER: 880-1000 HP CAT.

ELECTRICAL: Radio remote control for all functions with full independent mechanical backup.

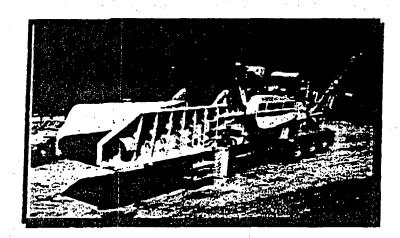
Gil FREDSALL 1-800591

Continental Biomass Industries, Inc.

Manufacturers of Stationary and Portable
Blomass Recovery Systems
22 Whittier Street, Newton, NH 03858
Tel. 603-382-0556 Fax 603-382-0557



Continental Biomass Industries, Inc.



CBI MAGNUM FORCE Model 4800

RETAIL PRICE SHEET Effective June 16, 1999 (F.O.B. Newton, NH)

BASE PRICE: \$477,900.00

OPTIONS:

Flexxaire Fan

\$11,800.00

Magnetic Head Pulley

\$ 7,800.00

HOG:

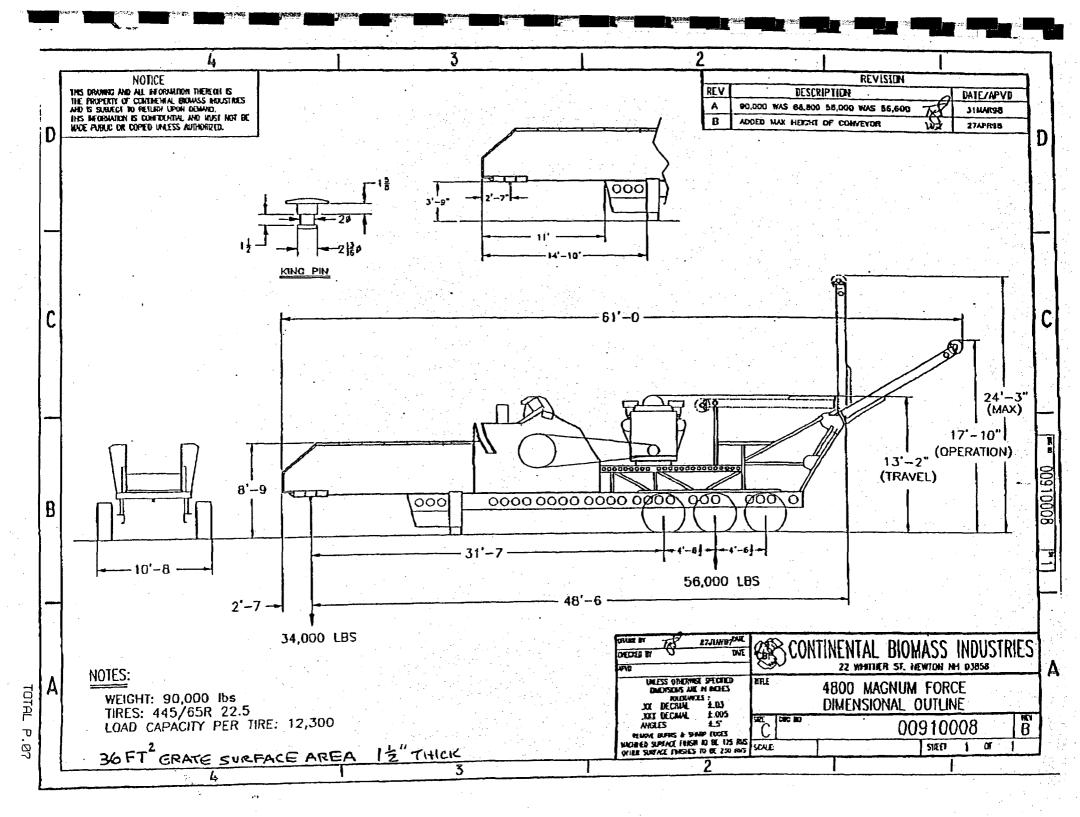
- Heavy-duty reinforced housing with bolt-in replaceable wear liner;
- 48" diameter x 60" long solid steel offset helix rotor with 4 rows of bolt-on tungsten imbedded hammers:
- 7" shaft and bearings;
- Heavy-duty swing-away grate frame with grate liner and cutting anvil held in place with shear pin for rotor protection;
- Weight of hog with rotor, shaft, bearings and grate, 40,000 lbs.

INFEED SYSTEM:

- 16' x 60" Feed Conveyor with high sides; impact plate in bottom; 18" head and tail pulleys; 440, 4-ply belt; hydraulic drive through gearbox.
- 50" diameter upper feed roller with 4" shaft, bearings, two high torque planetary gear drives with 2000 series Char Lynn motors and hydraulic up and down pressure.
- 18" diameter bottom feed roller; 3" shaft, bearings, high torque planetary gear drive with 2000 series Char Lynn motor.

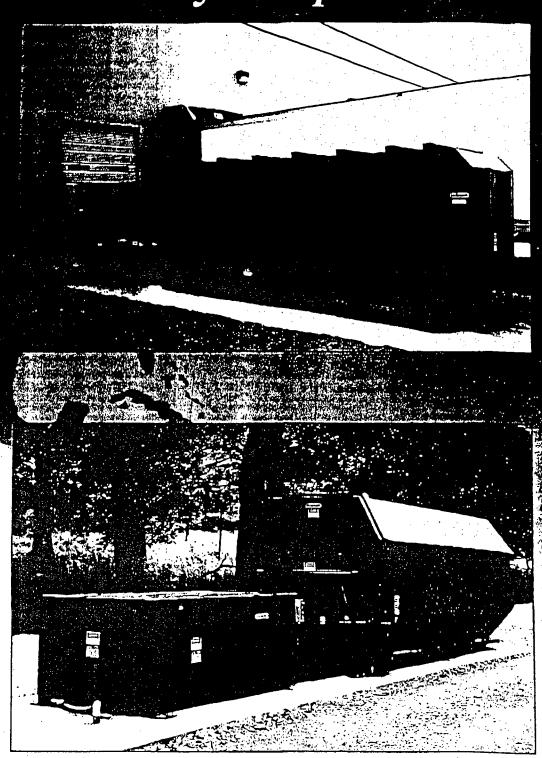
ENGINE:

- Caterpillar 3412 Diesel Engine rated, 880 HP at 2250 RPM;
- Twin Disc model 318 extra heavy-duty PTO clutch with outboard support bearing;
- Donaldson Air Filtering System with Turbo Two Pre-Cleaners;
- 8" Critical Silencer
- Electric dual battery 24 volt DC system with emergency shut down, and all weather control enclosures;



En TOTACIONIO

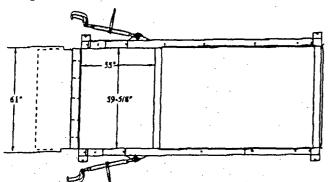
Stationary Compactors



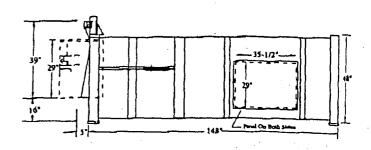
Advanced design, superior engineering provides years of reliable service life.

PakFORCE SPECIFICATIONS

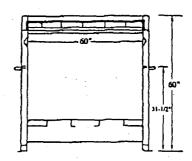
Top View



Side View



End View



Specifications

Specifications	
Model Number	PF6055
NSWMA - Rating Siz	e 2.09 Cubic Yds.
Clear Top Opening -	Length 55"
	Width 59-1/2"
Ram Penetration	16"
	Height 29"
	Width 60"
	,
Cylinder Rod Diamet	er
Discharge Opening -	Height 39*
	Width 61"
Ground Height,	164
Scale Weight 8004	approx. 5,200 lbs.
Cycle Time*	31-75 Sec.
Pump Size	10.5 G.P.M.
Motor Size	10 H.P.
	Normal 1950 PSI
	Maximum 2250 PSI
Force Rating -	Normal 31.6/55,100
	Maximum . 36,5/63,600
Chamber Sides	
Chamber Floor	1/2* Plate
	1/4" Plate
	1/4" Place
	.,,
	1/2* Disea

Standard Features

- Solid State Control System
- External Power Plant
- . UL & Canadian UL Listed Industrial Control Panel
- · 10 HP. 208/230/460 Volt, 3 Phase Motor
- 40 Micron Air Filter
- 200 Mesh Suction Filter in Reservoir
- · Oil Level Sight Gauge with Thermometer
- . 25 G.P.M. Hydraulic Control Valve
- 3/4 Full Light (1550 PSI)
- . Container Full Light (1950 PSI)
- Claw Type Grab Hooks
- · Replaceable Nylon Ram Guides
- . Operator's Controls on 10' Sealtite
- Hold to Operate Mode
- . Hold to Operate Extend/Auto Retract Mode
- 2 8 Multicycle Modes
- Ram Stop Extended Mode
- Floor Plate Walk-On Ramp
- Finish Paint Any Standard Galbreath Color

Optional Features

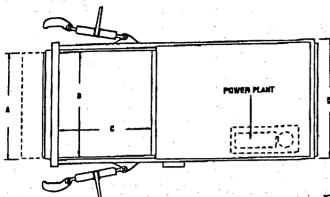
- · Electro-Mechanical Power Unit
- Pressure Gauge
- Oil Heater
- · Photoelectric Eye
- Low Oil/High Temperature Shut Off Sensor
- . Drive-On Ramp
- · Internal Power Plant
- Hoppers
- Chutes
- Weather Cover
- · Interlock Switch On 30' Sealtine

Specifications...designed for superior performance and efficiency.

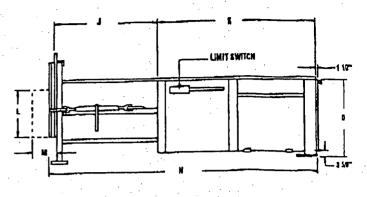
Advanced design, superior engineering provides years of reliable service life.

GP Series SPECIFICATION

Top View



Side View



End View

Standard Features

- Internal Power Plant
- UL Listed Relay Control Box
- 15 HP 208/230/460 Volt,
 3 Phase Electric Motor*
 (GP-350, GP-450, GP-550,
 GP-450HD & GP-550HD)
- 40 Micron Air Filter
 200 Mesh Oll Screen Filter in Reservoir
- Pump 13.5 GPM
- Operator's Controls on 10' Sealtite
- UL & Canadian UL Listed Industrial
- Control Panel
- Oil Level Sight Gauge With Thermometer
- 20 GPH Hydraulic
- Regenerative (1 200 PSI) Control Valve
- Pressure Control Shut-Down (1950 PSI)
- Claw Type Grab Hooks
- Replaceable Nylon Ram Guides
- Red Oxide Primer Finish
- * Motor can be used on 208 volt system up to 40 Amps. May not meet all NEMA performance limits on 208 volt system.

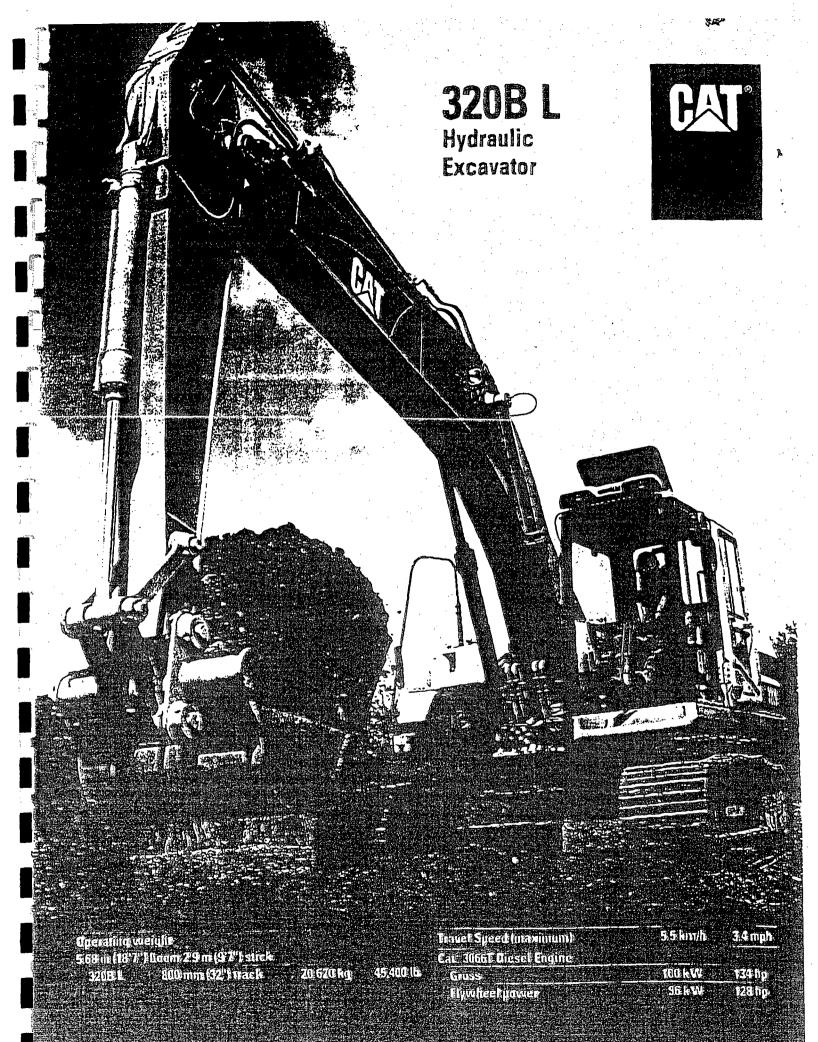
Optional Features

- Container full Light (1950 PSI)
- 3/4 Container Full Light (1550 PSI)
- Hold to Operate Controls
- Multi-Cycle Timer
- External Power Plant (controls mounted of power unit)
- Remote Control Pendant for External Power P!
- Pressure Cauge
- Oil Heater
- Photoelectric Eye
- · Low Oil/High Temperature Shut Off Sen:
- . Drive-On Ramp
- Hoppers
- Chutes
- Weather Cover
- Interlock Switch On 30' Sealtile
- Ram Stop Extended Mode
- · Override/Hauler's Control
- Guard Rails
- Floor Plate Walk-On Ramp
- . 20 HP Motor With 16 GPM Pump
- Internal Switch

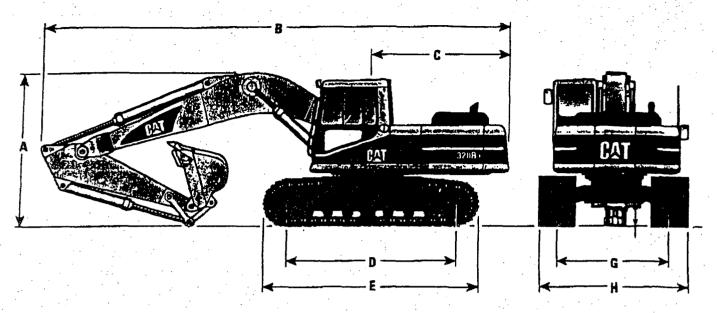
Specifications...designed for superior performance and efficiency.

`	 -				- 6		н	<u> </u>	1	K	L	M	N	0	APPROX. WT.
A	В						108	C 18	700	1144	28"	18"	1871/5"	4R*	5,863 Lbs.
60*	57"	67*	67"	71″	61ነ/ኔ"	43"	In.	04	70						•
	778		67"	71"	611/-	41"	10"	64*	90"	142"	28"	241/2"	236"	48"	6,762 Lbs.
PA.	/د	٥/	07	71				•	00#	1.43#	30#	7416	226"	504	8.639 Lbs.
77*	69"	87"	79"	83°	731/2"	45"	107	56"	90"	44"	30	2473		J U	יצמו ברסים
_						42#	10*	64"	90"	147"	78"	241/2"	236*	48"	9,387 Lbs.
60"	57"	87"	67"	71"	62	43	10		-						
	(07	47*	70"	R24	731/2	45"	10"	66"	90"	142"	30"	241/2	236	202	10,800 lbs.
	A 60" 60" 72" 60"	60" 37" 72" 69" 60" 57"	60" 57" 87" 72" 69" 87" 60" 57" 87"	60" 37" 87" 67" 72" 69" 87" 79" 60" 57" 87" 67"	60" 37" 87" 67" 71" 72" 69" 87" 79" 83" 60" 57" 87" 67" 71"	60" 57" 87" 67" 71" 61\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	60" 57" 87" 67" 71" 61½" 43" 72" 69" 87" 79" 83" 73½" 45" 60" 57" 87" 67" 71" 62" 43"	60" 57" 87" 67" 71" 61½" 43" 10" 72" 69" 87" 79" 83" 73½" 45" 10" 60" 57" 87" 67" 71" 62" 43" 10"	60" 57" 87" 67" 71" 61½" 43" 10" 64" 72" 69" 87" 79" 83" 73½" 45" 10" 64" 60" 57" 87" 67" 71" 62" 43" 10" 64"	60" 57" 87" 67" 71" 611/2" 43" 10" 64" 90" 72" 69" 87" 79" 83" 731/2" 45" 10" 66" 90" 60" 57" 87" 67" 71" 62" 43" 10" 64" 90"	60" 57" 87" 67" 71" 61½" 43" 10" 64" 90" 142" 72" 69" 87" 79" 83" 73½" 45" 10" 66" 90" 142" 60" 57" 87" 67" 71 62" 43" 10" 64" 90" 142"	60" 57" 87" 67" 71" 611/1 43" 10" 64" 90" 142" 28" 72" 69" 87" 79" 83" 731/1 45" 10" 64" 90" 142" 30" 60" 57" 87" 67" 71 62" 43" 10" 64" 90" 142" 28"	60" 57" 67" 67" 71" 61\hat{1}\hat{2}" 43" 10" 64" 90" 142" 28" 24\hat{1}\hat{1}\hat{2}" 72" 69" 87" 79" 83" 73\hat{1}\hat{1}\hat{2}" 45" 10" 66" 90" 142" 30" 24\hat{1}\hat{1}\hat{2}" 60" 57" 87" 67" 71" 62" 43" 10" 64" 90" 142" 28" 24\hat{1}\hat{1}\hat{2}" 24\hat{1}\hat{2}" 24\hat{1}\hat{2}" 24\hat{1}\hat{2}" 24\hat{1}\hat{2}" 24\hat{1}\hat{2}" 24\hat{2}\hat{2}" 24\hat{2}" 24\hat{2}	A B C D E F C H 1 1 28" 18" 1871/2" 60" 57" 67" 67" 71" 611/2" 43" 10" 64" 70" 114" 28" 18" 1871/2" 60" 37" 87" 67" 71" 611/2" 43" 10" 64" 90" 142" 28" 241/2" 236" 72" 69" 87" 79" 83" 731/2" 45" 10" 66" 90" 142" 30" 241/2" 236" 60" 57" 87" 67" 71" 62" 43" 10" 64" 90" 142" 28" 241/2" 236" 236" 60" 57" 87" 67" 71" 62" 43" 10" 64" 90" 142" 28" 241/2" 236"	A B C D E F G H 1 70" 114" 28" 18" 1871/1" 48" 60" 57" 67" 67" 71" 611/2" 43" 10" 64" 70" 114" 28" 18" 1871/1" 48" 60" 37" 87" 67" 71" 611/2" 43" 10" 64" 90" 142" 28" 241/2" 236" 48" 72" 69" 87" 79" 83" 731/2" 45" 10" 66" 90" 142" 30" 241/2" 236" 50" 60" 57" 87" 67" 71" 62" 43" 10" 64" 90" 142" 28" 241/2" 236" 50" 60" 57" 87" 67" 71" 62" 43" 10" 66" 90" 142" 28" 241/2" 236" 50"

	GP-350	GP-450	GP-550	CP-450HD	CP-550HD
Marine	3 Cu, Yds,	4 Cu. Yds.	5 Cu. Yds.	4 Cu. Yds.	S Cu. Yds.
Mfg. Rating NSWMA Rating	2.54 Cu. Yds.	3.26 Cu. Yds.	4,19 Cu. Yds.	3.26 Cu. Yds.	4.19 Cu, Yds.
Navyma nating Cycle Time	41-86 second	:	depending on pump	and motor	configuration.
Packing Force-Norm.	55,100 Lbs.	55,100 Lbs.	55,100 Lbs.	75,000 Lbs.	75,000 lbs.
Packing Force-Max.	63,600 Lbs.	63,600 Lbs.	63,600 Lbs.	86,500 Lbs.	86,500 Lbs.
Operating Pressure-Norm.	1950 PSI	1950 PSI	1950 PSI	1950 PSI	1950 PSI
Operating Pressure-Max.	2250 PSI	2250 PSI	2250 PSI	2250 PSI	2250 PSI
Cylinder (Bore x Stroke x Rod)	6" x 90" x 4"	6" x 116" x 4.5"	6" x 116" x 4.5"	7" x 116" x 5"	7" x 116" x 5"
Electric Motor	15 HP	15 HP	15 HP	15 HP	15 HP
Oil Reservoir	34 Gal.	34 Gal.	34 Gal.	34 Gal.	34 Gal.
Chamber Floor	1/2" AR Plate	1/2" AR Plate	1/2" AR Plate	3/4" AR Plate	3/4" AR Plate
Chamber Sides	1/4" Plate	1/4" Plate	1/4" Plate	3/8" Plaie	3/8" Plate
	1/4" Plate	1/4" Plate	1/4" Plate	3/8" Plate	3/8° Plate
Ram Top Ram Face	1/2" Plate	1/2" Plate	1/2" Plate	3/4" Plate	3/4° Plate



Dimensions and Weights All dimensions are approximate.



R	each Boom 5.58 m (18'7")	R3.9B (12'8") Stick	R2.98 (9'7") Stick	R2.58 (8'2") Stick	R1.9C (6'3") Stick
Ā	Shipping height	3430 mm (11'3")	2930 mm (9'7")	3010 mm (9'11")	3050 mm (10'8")
B	Shipping length	9420 mm (30'11")	9440 mm (31')	9460 mm (31')	9490 mm (31'2")
C	Tail swing radius	2750 mm (9')	2750 mm (9')	2750 mm (9')	2750 mm (9')
D	Length to centers of rollers	3650 mm (12')	3650 mm (12')	3650 mm (12')	3650 mm (12')
E	Track length	4455 mm (14'7")	4455 mm (14'7")	4455 mm (14'7")	4455 mm (14'7")
F	Ground clearance	475 mm (1'7")	475 mm (1'7")	475 mm (1'7")	475 mm (1'7")
Ġ	Track gauge	2380 mm (7'10")	2380 mm (7'10")	2380 mm (7'10")	2380 mm (7'10")
H	Transport width	800 mm (32") shoes	600 mm (24") shoes	700 mm (28") shoes	800 mm (32") shoe
_	Long	3180 mm (10'5")	2980 mm (9'9")	3080 mm (10'1")	3180 mm (10'5")

M	ass Boom 5.2 m (17'1")	M2.4C m (7'10") Stick
A	Shipping height	3050 mm (10'8")
B	Shipping length	9000 mm (29'6")

Operating Weight	600 mm (2	4") Shoaz	700 mm (2)	B") Shoes	800 mm (32") Shoes		
	kg	lb	kg	lb	kg	lb	
Sticks:			:				
3.9 m (12'8")	20 180	44,500	20 540	45,200	20 860	45,900	
2.9 m (9'7")	19 940	43,900	20 300	44,700	20 620	45,400	
2.5 m (8'2")	19 900	43,800	20 240	44,600	20 580	45,300	
1.9 m (6'3")	20 300	44,700	20 650	45,500	20 980	46,200	
Mass Boom							
Stick:							
2.4 m (7'10")	20 320	44,700	20 670	45,500	20 990	46,200	
Ground Pressure with Reach Boon	n, 2.9 m (9'7") Stick						
	41.4 kPa	6.0 psi	36.1 kPa	5.2 psi	32.1 kPa	4.7 psi	

960F Wheel Loader

Buckerenparities Operating weight Caetota Engina: Gooss gower

Elgulieel pawer

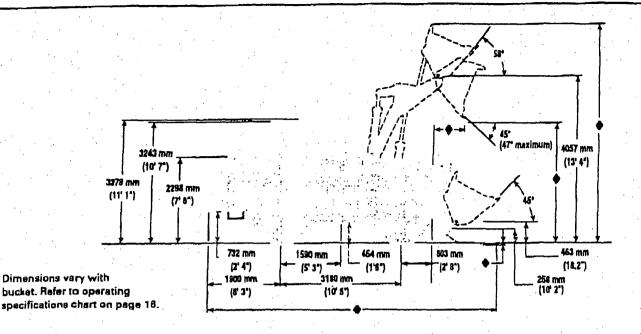
3.710,3.5 m/

40 to 45 yd 38,936 lb 17658 Ag

210 HP 156 5 kW 200 HP Tasakvii:

Dimensions

All dimensions are approximate.



Tread width for all tires 2090 mm (82")

Width	over tires		•		al
mm	Inches	mm	Inches	mm	inches
2770	109.0	454	17.9	·	. —
2754	108.4	476	18.7	+22	+.87
2839	111.8	469	18.5	+22	+.87
2771	109.1	471	18.5	+17	+.67
2681	105.6	426	16.8	-28	-1.13
2685	105.7	402	15.8	-52	-2.03
2692	106.0	399	15.7	-55	-2.16
2700	106.3	393	15.5	-61	-2.4
	2770 2754 2839 2771 2681 2685 2692	2770 109.0 2754 108.4 2839 111.8 2771 109.1 2681 105.6 2685 105.7 2692 106.0	Width over tires clears mm lnches mm 2770 109.0 454 2754 108.4 476 2839 111.8 469 2771 109.1 471 2681 105.6 426 2685 105.7 402 2692 106.0 399	mm Inches mm Inches 2770 109.0 454 17.9 2754 108.4 476 18.7 2839 111.8 469 18.5 2771 109.1 471 18.5 2681 105.6 426 16.8 2685 105.7 402 15.8 2692 106.0 399 15.7	Width over tires Ground clearance vertice dimer mm Inches mm Inches mm 2770 109.0 454 17.9 — 2754 108.4 476 18.7 +22 2839 111.8 469 18.5 +22 2771 109.1 471 18.5 +17 2681 105.6 426 16.8 -28 2685 105.7 402 15.8 -52 2692 106.0 399 15.7 -55

Supplemental Specifications

	Change in Operating Weight		Change in Articulated Static Tipping Load		
·	kg	fb	kg	lb	
Remove cab only, ROPS remains	+177	-390	-132	-291	
23.5-25, 16 PR (L-3)	-238	-525	-148	-326	
23.5-R25 GP-2B (L-2/3) steel radial	-84	-185	-49	-108	
20.5-25, 20 PR (L-3)	-612	-1350	-381	-840	
20.5-R25 GP-2B (L-2/3) steel radial	-568	-1253	-354	-780	
20.5-R25 XHA (L-3) steel radial	-568	-1253	-354	-780	
20.5-R25 XGLA (L-2) steel radial	-747	-1647	-464	-1023	
23.5-25, 12 PR (L-2)	-409	-902	-256	-564	

Note: Tire options include exchange of tires and rims. 8137520953

AIM ELEC

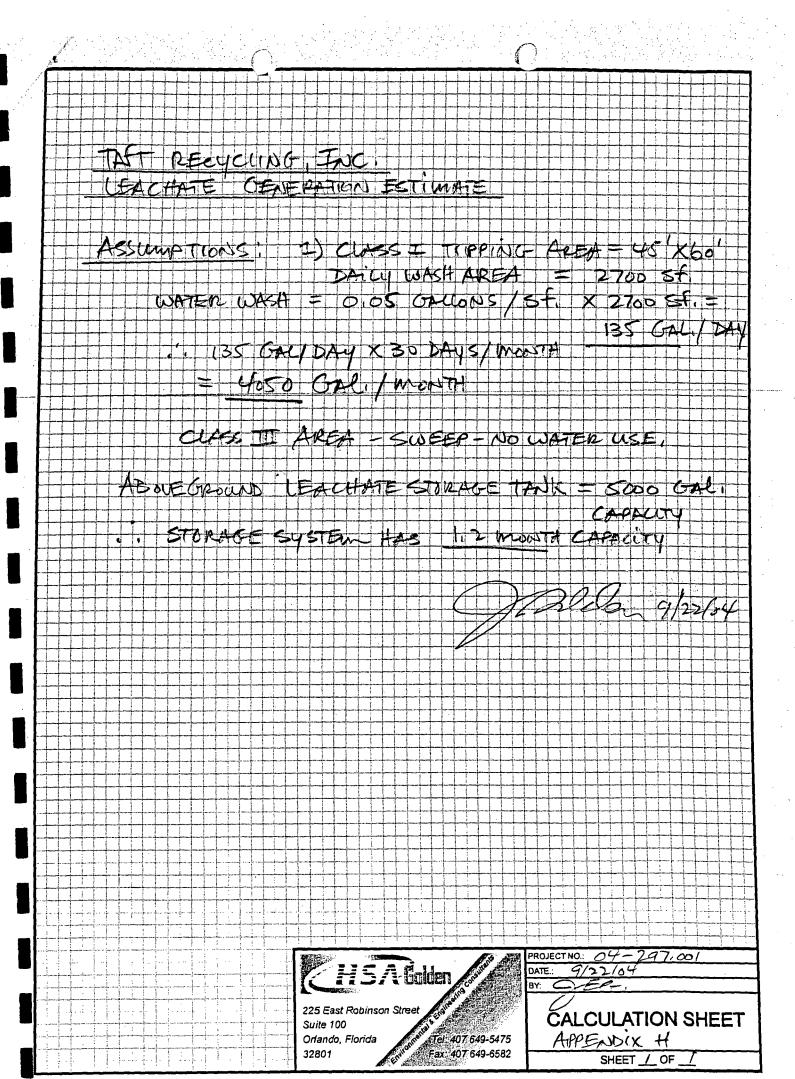
High Intensity Discharge Lamps

Lane				Produc Numbe	r Ordering	ANSI	Plos	Description (Operating Position — Universal, Unises otherwise indicated)	LCL		Rated Avg. Life	Approxim Lumens(52):		
Water	Buft	8	58	046677	- Code	Code	Oxy.	Unless otherwise indicated)	(In.)	(In.)	Hrs.(351)	initial	Mean(353)	CRI	OCT(K
Mot	al H	alid	le L	amps						. :					
175 (Enclose	eci fixture	is only		28733	4 100175,63	M67PE-175	12	-G, & St. Up., Clear (372)(377)	5	81/10	10,000 (385)	18,000	10,350	65	3700
Operate specified Halide 8	"M57"	Metal		28728-	MH175/C/U	W57PF-175	12	=G, & St. Ltg., Phos. Coated (372)(377)	5	85%	10,000 (385)	13,000	9500	70	3400
LIGHING DA	010416G.	1		31287-6	101175/30/00J	M57PF-175/8U	12	*G, Vert. ±15° Phus. Coaled (372)(374)(377)		814	10,000	12,000	9000	70	320
			POMB	28849-2	MS175/HOR	M57PE-175/HOR	12	*G, S, Hor. ±45° Clear (372)(374)(377)	5	81/4	7500			65	410
٠.			PCMB	1		M57PF-175/HOR	12	*G, Hor. ± 45° Phos. Coated (372)(374)(377)		814	7500		11,300	70	410
•	PAR	38 ▲	Med.	30858-5	MM175/RLP	N57	6	*G, Clear, 50° Bearn (372)(377)		55%	7500	11,000		85	410
			Ū	31518-5	MH175/RSP	M57	6	*G, Clear, 16* Beam (372)(377)		5%	7500	11,000		6 5	410
250		Mog).	27484-5		M5BPG-250	12	+G, & St. Ligs, Chear (372)(377)	5	8%	10,000	20,500	17,000	65	370
perate o	i fodures n ANSI "M69" M	′•		291 60 -0	MASSINC/U	N68PH-250	12	*G, & St. Lig., Phos. Coated (372)(377)	5	85/4	10,000	20,500	16,000	70	340
alide Bai		(CHO)	·	31137-3	36/0556/38/300	MSBIPH-250/ 3WBU	12	=G, BU ± 45° Phos. Coaled (372)(374)(377)	5	874	10,000	18,000	14,200	70	320
	•	1	PONNE	28652-6	ME23M/HCR	MSBPG-250HOR	12	+G, S, Hor, ±45° Clear (372)(374)(377)	5	81/4	10,000	23,000	18,000	65	410
		<u> </u>	POA-19	28654-2	MS256/C/HOR	NSBPH-250HOR	12	°G, Hor. ± 45° Phos. Coaled (372)(374)(377)	5	BW	10,000	23,000	17,000	70	380
	T-15	Mog	†	33382-3		M68	12	~G, Clear, (372)(374)(377)	544	9%	10,000		16,300	85	370
	R-40	Med.	• 1	32802-1	M4258/RSP	M68	12	-Clear, 20° Beam (372)(377)		7%	7500	18,000		62	300
nerate on ecified "I etai Hafic	MESY la Salkasi	oniy) Is.			MH488/U/ED28	M59	12	+G, Clear (372)(377)	5	83/i4	12,000		28,800	85	370
era(e 0n		Mog.		34415-0	MH-MAN	M59PJ-400AU	6	-6, & St. Ltg., Chear (3772)(377)	7	11)/2	20,000 (364)	36,000	28,800	65	370
echied, stali Haild	'NESU' le Ballast	is 🔏		34416-8	MH489C/U	MESPIX-400AU	6	+G. & St. Ltg., Phos. Conted (372)(377)	7	1115	20,000 (364)	36,000	27,700	70	34
	,			312 65 -0	ACE LANGE SKAU	Misspik-100/3k/U	6	=G Phos. Costed (372)(377)	7	111/4	20,000 (364)	33,000	25,000	70	32
	<i>.</i>				HS400/8U	M59PJ-400/8U	6	-High Efficacy, Base Up ± 15° Clear (372)(374)(377)	7	111%	20,000	40,000	32,000	æ	37
				30172-1	MS490/C/8U		6	+Righ Efficacy, Base Up ± 15° Phos. Coat. (372)(374)(377)	7	11%	20,000	40,000	31,000	70	34
			l		MS480/3K/BU	M59PK-400/8U		*G, BU ± 15° Phos. Costed (372)(374)(377)	7	111/2	20,000		27,000	70	32
		P	CMB [28655-4	MS-MB/HOR	MESPJ-400/HCR		*G, S, Hor. ± 45° Clear (372)(374)(377)	7	111%	20,000	40,000	32,000	85	41
Masal		P	OMB	28656-7	MS400/CHOR	M58PK-400/HOR	6	+G, Hor. ± 45° Phos. Coated (372)(374)(377)	7	111/2	20,000	40,000	31,000	70	36
ures ures	R-90	Mog.			HIHADARSP	MIS9	6	+6, Clear, (372)(377)		10%	15,000	30,000		65	35
	T-15	Mog.	O	23127-4	MH4MAT15	M59PL-400	12	+G, Clear (372)(377)	5%	9%	10,000	36,000	27,700	65	37
closed fi prate on	8T-37 Extures o ANSI sp al Halide	niy) ecifled	Ì	3215 0- 5	MITHINGAL/ST37	M447	6.	*G, Clear, (359)(372)(377)	7	11%	10,000	110,000	88,000	65	37
	8T-56	MiOg.		2 9826 -5	METI SOS/A)	M47PA- 1000/U	Ĝ	-G, & St. Ltg. Clear (372)(377)	91/1	15%	12,000	110,000	88,000	65	37
erate on ecified "k	447" Me	tal		29827-3	HOHTIGODYCAU	M47P8- 1000/U	e	-G, & St. Lig. Phos. Coased (372)(377)	9%	15%	12,000		83,000	70	3
Hote Balla	SES		•	25093-6	MS1669/9U	M47PA	6	*High Efficiency, Base Up ± 15°	9%	15%	10,000	126 000	100,000	65	3

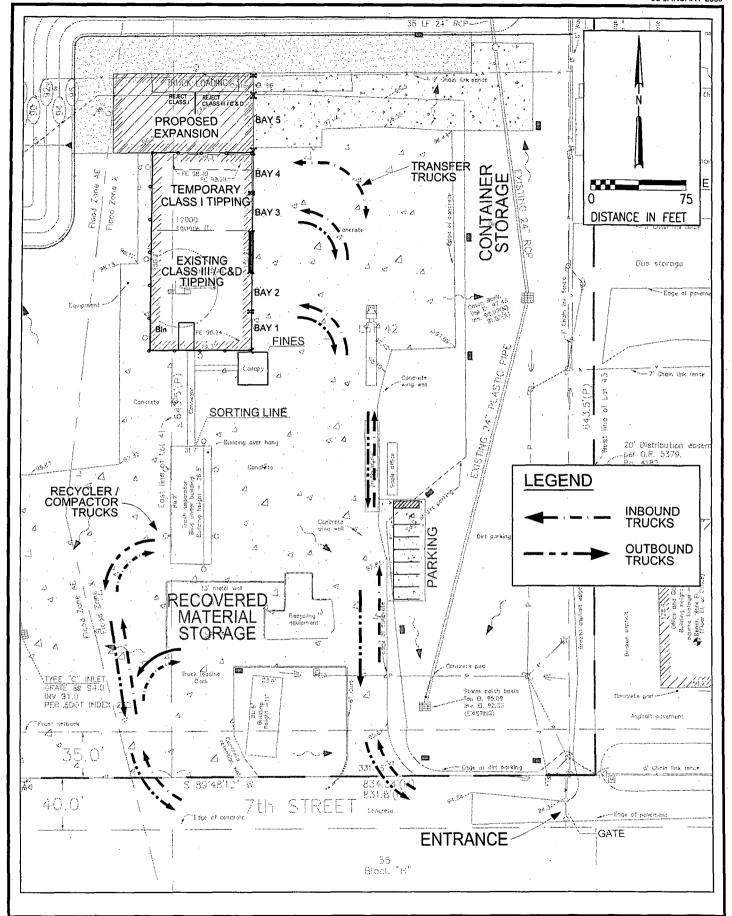
DExclusive Product

POM6-Position Orlented Mogul Base

† New Since Last Printing



APPENDIX I
SITE PLANS





DATE: JANUARY 2005

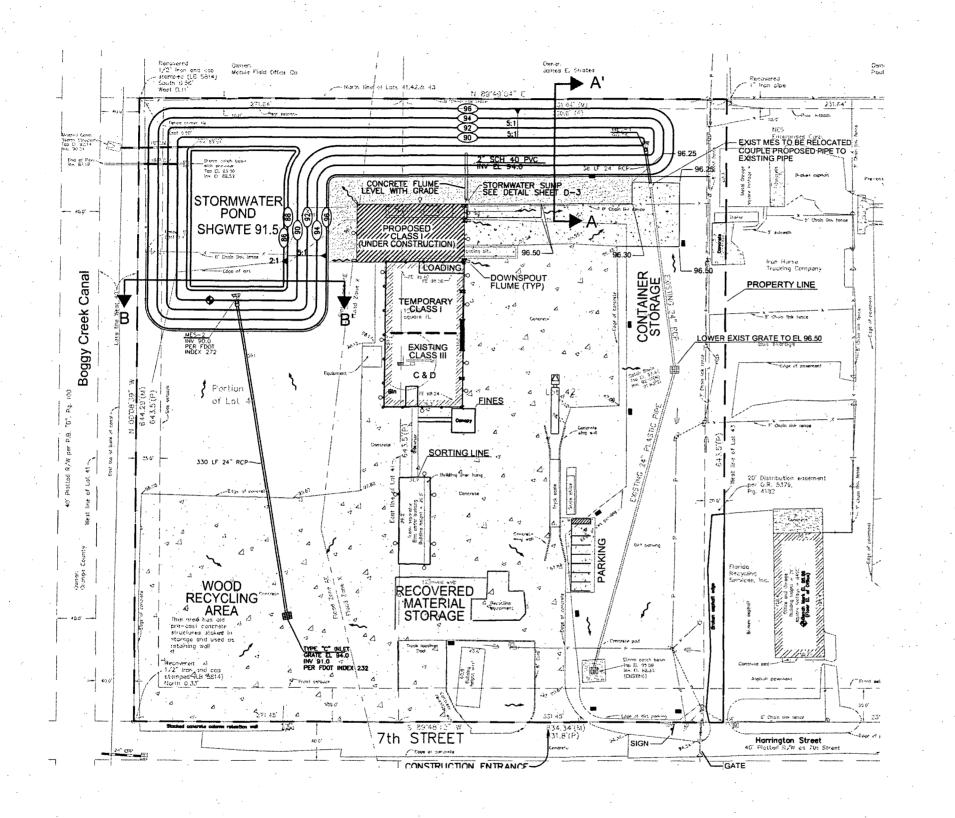
SCALE: AS NOTED

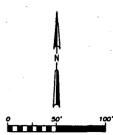
DRAWN BY: DRD

TEMPORARY TRAFFIC FLOW PATTERNS

TAFT RECYCLING, INC.
ORANGE COUNTY, FLORIDA

FIGURE D-2A





LEGEND

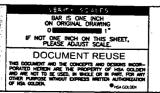
1000 W MH SHOEBOX OUTDORR LIGHT @ 39 FT AG

400 W METAL HALIDE LIGHT - BLDG MOUNT

STORM WATER FLOW DIRECTION

BUILDING UNDER CONSTRUCTION

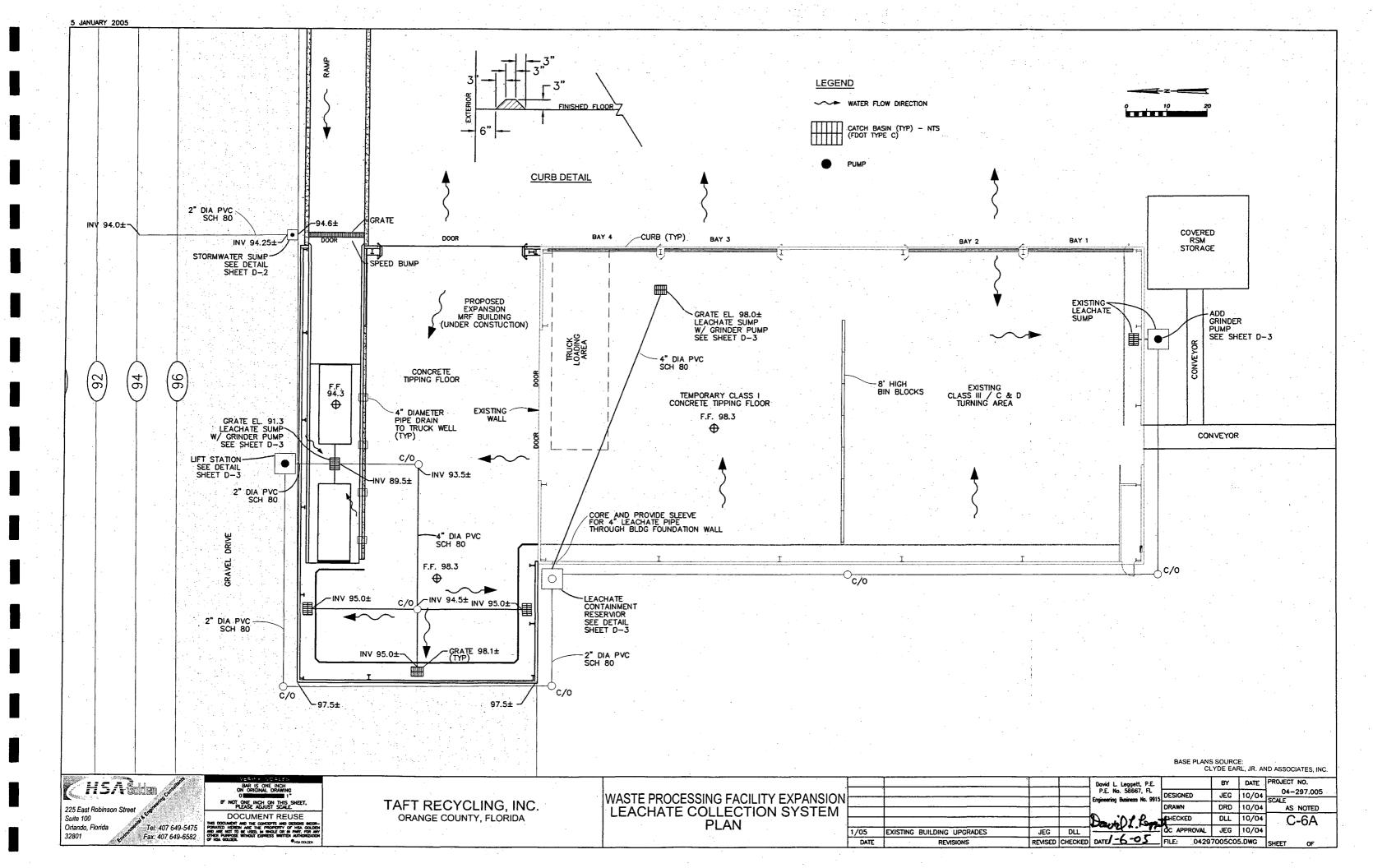
H5/A Bullet Tel: 407 649-5475 Fax: 407 649-6582 Orlando, Florida

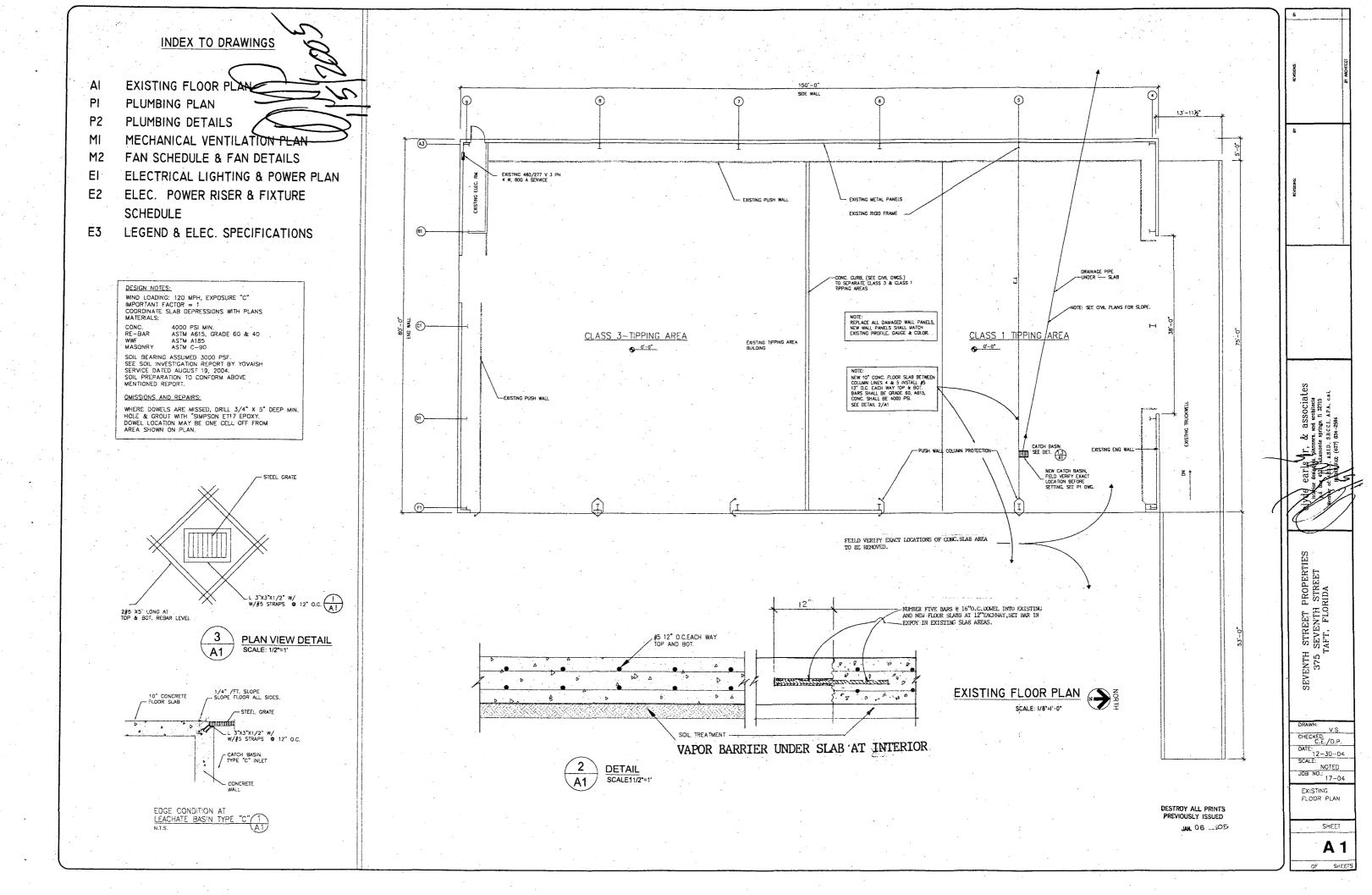


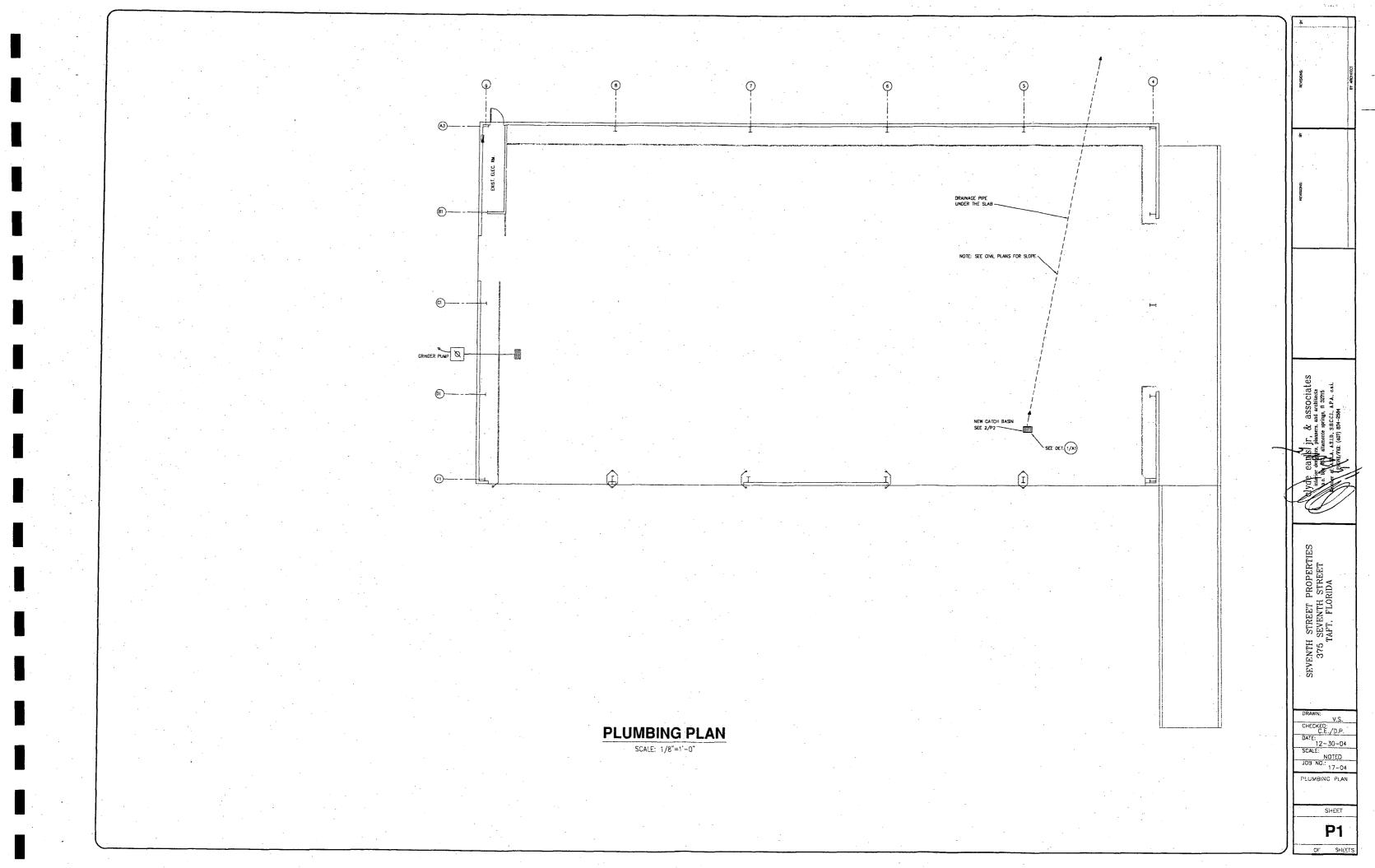
TAFT RECYCLING, INC. ORANGE COUNTY, FLORIDA

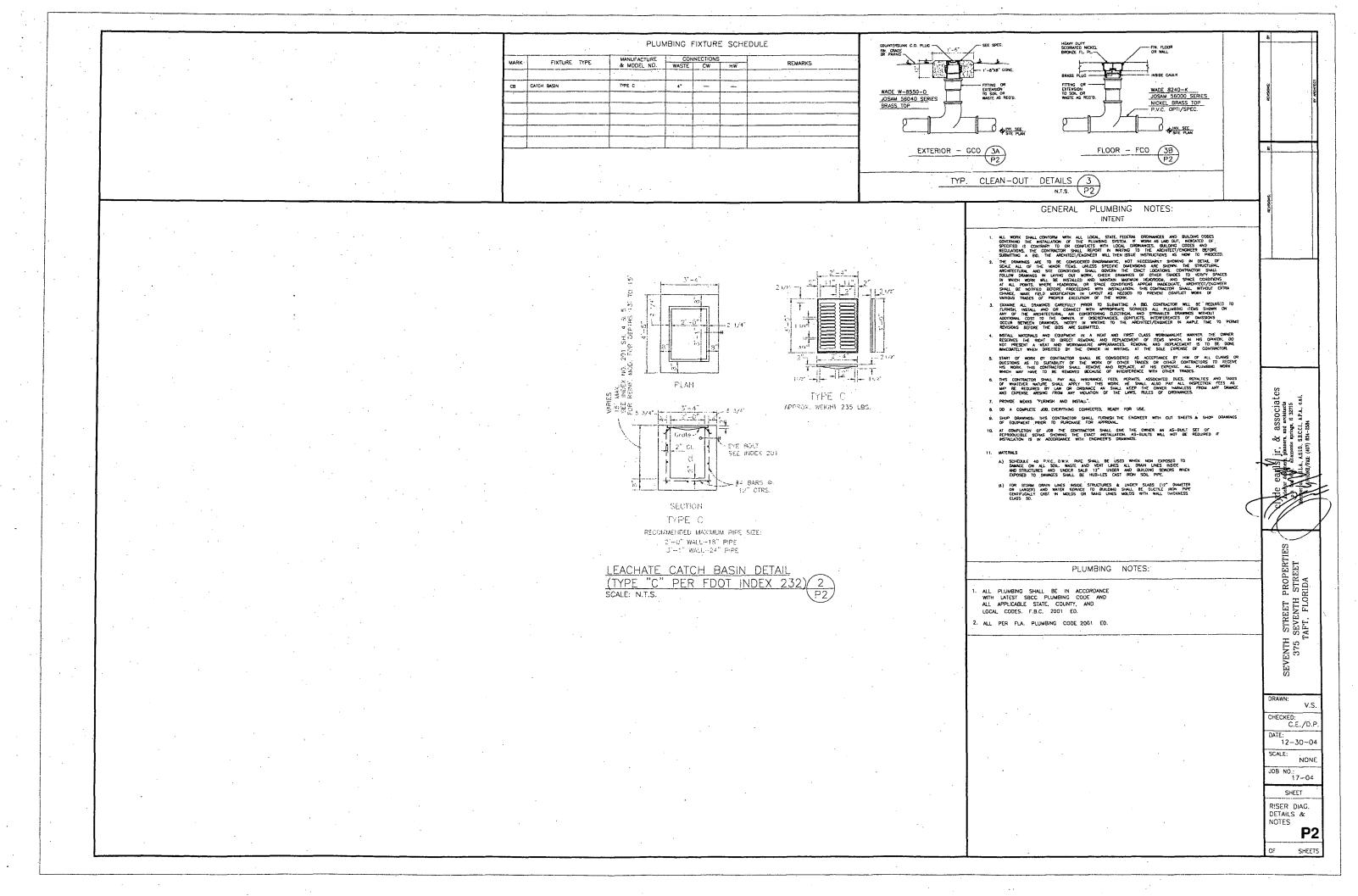
CLASS I & III WPF PROPOSED SITE PLAN

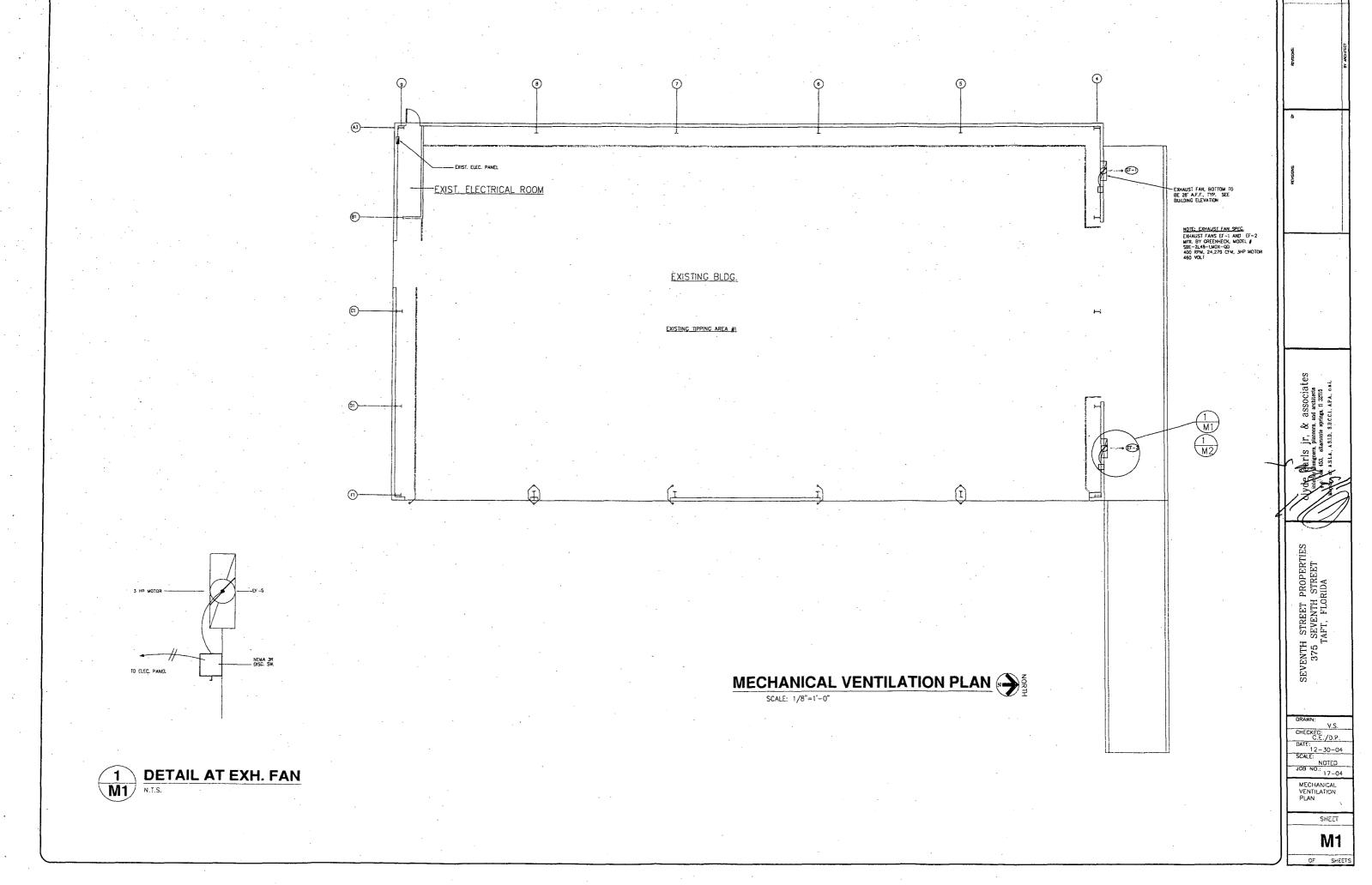
				David L. Leggett, P.E.	,	BY	DATE	PROJECT NO.
			<u> </u>	P.E. No. 58667, FL	DESIGNED	DLL	7/04	04-297.001
				Engineering Business No. 9915	000101100		7701	SCALE
		<u> </u>	├ ──		DRAWN.	DRD	7/04	1"=50'
			. (N 14 / A			-/	
1/06/05	ADDED TEMPORARY CLASS I	JEG	DLL V	tevil Kan IT	CHECKED	DIT	8/04	C-1A
23/04	PER FDEP COMMENTS	JEG	DLL	12	QC APPROVAL	JEG		
DATE	REVISIONS	REVISED	CHECKED	DATE -6-05	FILE: 0429	7001C10	D.DWG	SHEET OF





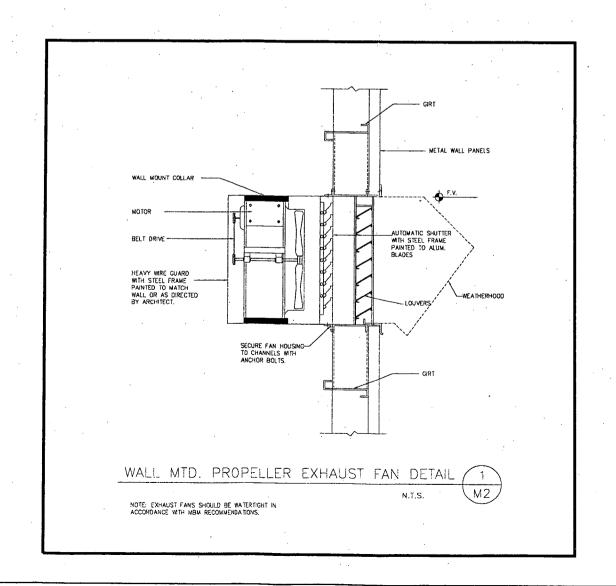






FAN SCHEDULE

	FAN & EXHAUST FAN SCHEDULE															
MARK	TYPE	DRIVE	SERVICE					PERFORMANCE DA	TA		ELECTRICAL DATA					
	0	②	3	LOCATION	INTERLOCKS	CONTROL	AIR FLOW C.F.M.	EXTERNAL STATIC PRESS.INCHES H20		MAX. SONES	MAX. HP.	VOLTS	PHASE	Hz	REMARKS	
EF-1	PEV	80	EΑ	NORTH WALL	DAMPER	6	24,279	0.25	400	.25	3	460	- 3	60	00	
EF-2	PEV	9D	EA .	NORTH WALL	DAMPER	6	24,279	0.25	400	.25	3	460	3	60	00	
					1											
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					· · · · · · · · · · · · · · · · · · ·		FAN SCHED	ULĘ NOTES:					لــــا	i		

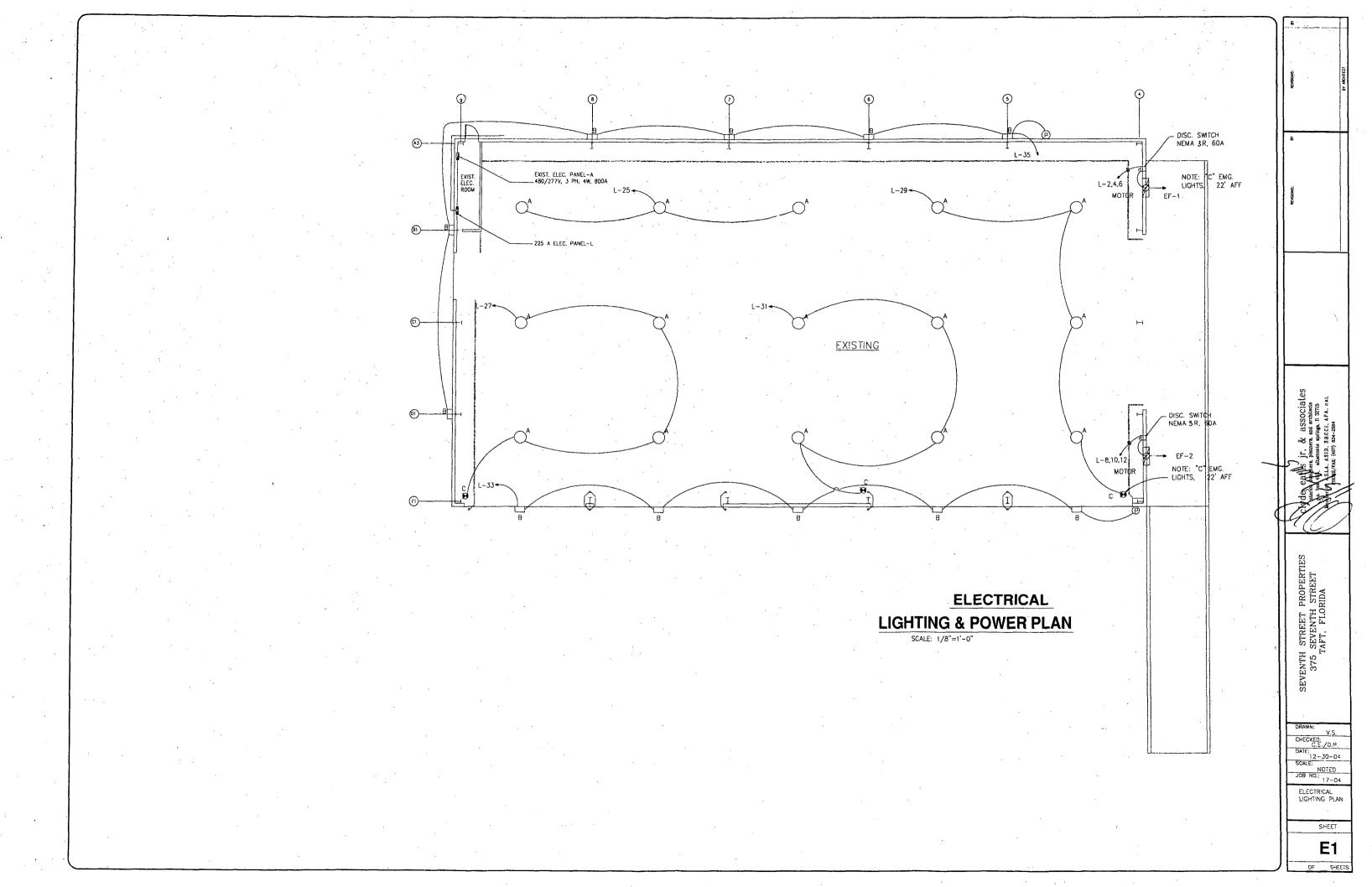


V.S.
CHECKED:
C.E./D.P.
DATE:
12-30-04
SCALE:
NOTED
JOB NO.: 17-04

FAN SCHEDULE & FAN DETAIL

SHEET

M2



			JGHT FIXTUR	E 50	CHEDL	JLE		
MARK	DESCRIPTION	MANUFACTURE	LAMPS	VOLT	FIN.	MOUNTING	REMARKS	LOCATION
. A	METAL HALIDE HIGH-BAY	LUMARK HPSSSA15M400M-Q-LL-OLL	400W NH	277	ALUM	PENDANT 35' F.V.	SET ON TIMER	TIPPING AREA
9	WALL PACK	ATLAS WLMC 175 MHQPK	175W WATT MH	277	BRONZE	WALL, 30' AFF	SET ON PHOTOCELL	EXTERIOR WALL 30' A.F.F.
С	BATTERY EMERGENCYLIGHT	LITHONIA ELM 2	W/FIXTURE	277	WHITE	WALL		
			•					7
		1						1

FIXTURE SCHEDULE NOTES:

1. ALL FIXTURES SHALL BE COMPLETE WITH AUXILIARIES, ACCESSORIES, HANGERS, SUPPORTS, LAMPS, ETC. AS REQUIRED FOR COMPLETE INSTALLATION READY FOR OPERATION
2. LIGHTING FIXTURES SHALL NOT BE LIMITED TO THE MANUFACTURES SHOWN IN FIXTURE SCHEDULE LIGHTING FIXTURES OF EQUAL QUALITY ARE ACCEPTABLE.

	PANEL: L				LOCAT	KON: EX	IST. ELE	CTRIC	ROOM		-	225 MLO	
	VOLTAGE 480,	2774		PHASE	.34,	4 W.	٠.		MLO _	225 A		SURF. MOUNTED	
	MFG. GE OR	50-D		CAT. N	Ø	TEY					`	A.I.C. 22,000	
CIR. NO.	EQUIP.	LGAD KVA	DEMAND	SIZE	POLE CB	CB TRIP	CB TRIP	POLE	WIRE SIZE	DEMANO KVA	LOAD	EQUIP.	CIR
1	GRINDER PUMP	3.98	3.98	12	3	20	20	3	10	3.98	3.98	EF1	2
3	3 H.F.	-	-	12	-			-	10	-	-	3 H.P.	4
5	-	<u> </u>	_	12	-	_		~	10	j -	-	-	6
7	LIFT STATION	2.82	2.82	10	3	20	20	3	10	3.98	3.98	EF2	8
9	2 H.P.	-	-	10	-				10	-	~	3 H.P.	10
11	-			10	-		_	-	10	-	~		12
13	SUMP PUMP	2.82	2.82	10	3	20	20	3	10	3.98	3.98	EF-3	14
15	2 H.P.	-		10		-	-		10			3 H.P.	16
17		-	-	10	<u>[-</u>]	-		-	10	- 1	-		18
19	SUMP PUMP	2.82	2.82	10	3	20	20	3	10	3.98	J.98	EF-4	20
21	2 H.P.	-	-	10		~	- 7	-	10	-	-	3 H.P.	22
23	~	Ţ-	-	10		-	-		10	-	_	-	24
25	LIGHTS	. 1.2	1.5	12	1	20	20	3	10	3.98	3.98	EF-5	26
27	LIGHTS	1.6	2.0	12	1	20	-	-	10	-	_	3 H.P.	28
29	LIGHTS	1.6	2.0	12	1	20		-	10	-	-	-	30
31	LIGHTS	1.6	2.0	12	1	20							32
IJ	LICHTS	1.6	2.0	12	1	20							34
35	LIGHTS	1.6	2.0	12	1	20							36
37	PHOTOCELL/LIGHTS	1.23	1.53	12	1	20							38
39	PHOTOCELL/LIGHTS	1,58	1.97	12	1	20							40
41								-				-	142
づ	TOTALS	24.45	27.44							19.90	19.90		

 COMPRETED LOND =
 44.35 KW

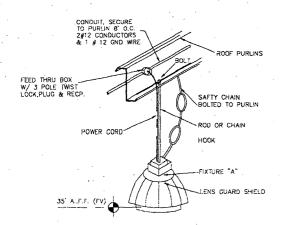
 DEMAND LOND/NOP =
 47.34 KW

 DEMIND LOND/SST of Lorgest Motor
 = 35p J.989vo KW
 x 25X = 4979/830 = 0.55 AMPS

 TOTAL MINIMUM SERVICE SIZE =
 57.62 AMPS

NOTE: EXHAUST FAN SPEC.

EXHAUST FANS EF-1 TO EF-5
MFR. BY GREENHECK, MODEL #
SBE-2L48-LMDX-QD
400 RPM, 24,279 CFM, 3HP MOTOR
460 VOLT

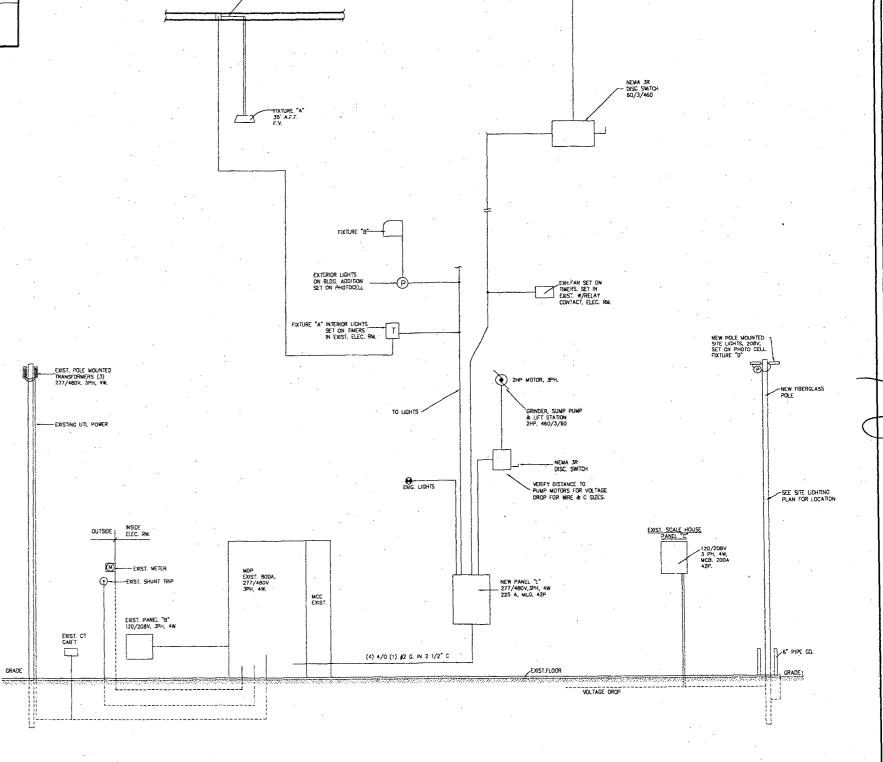


NOTE: USE ONLY LIGHTING CIRCUITS:

OSE ONE! EIGHTING CIRCOTTS.

L-25, L-27, L-29, L-31, L-33 & L-37

EXHAUST FANS, L-2,4,6, AND L-8,10,12



FIXTURE MOUNTING DET. SCALE: 3/4"±1'-0"

ELEC. POWER RISER SINGLE LINE DIAG.

SCALE: NTS

E2

V.S.

CHECKED:
C.E./D.P.

DATE:
12-30-04

SCALE:

JOB NO.: 1.7-04

ב פטננ

LEGEND

			,
-	PANELS & POWER		MISCELLANED
	POWER PANEL BOARDS SEE PANEL SCHEDULES	AFF	ABOVE FINISH FLOOR
	LIGHTINGS PANEL BOARD	WP	VEATHERPROOF (
S M	TOGGLE TYPE MANUAL MOTOR CONTROLLER	T-1	TRANSFORMER
Γď	NON-FUSIBLE DISCONNECT SWITCH	®	WATER PROUF PHOTO CEL
·	FUSIBLE DISCONNECT SWITCH	SD	SMOKE DETECTOR
団	DRY TYPE TRANSFORMER		•
· (0)	WATTHOUR/DEMAND METER	•	
×	FUSED COMBINATION MOTOR STARTER W/SIZE AS REQ.		•
Œ	EXHAUST FAN		
22	SURGE SUPPRESSER		
	SHUNT TRIP DEVICE		
	WIRE CONCEALED 'EMT'		•
	WIRE EXPOSED CONDUIT		•

SECTION 16010 GENERAL PROVISIONS - ELECTRICAL

1.0! Scope of Work:

Work included under this division shall include all materials, labor and auxiliaries required to install a complete and properly operating electrical system as indicated on the drawings and as specified herein.

1 02 Codes and Standards

A. National Electric Code B. Lief Safety Code

C. All local codes and ordinances

1.03 Substitutions:

Any items other than those specified snall be submitted in writing to the engineer a minimum of ten (10) days before bid date. If approved, these items shall appear in an addendum to the specifications prior to bid date. If not submitted 10 days prior to bid date, the contractor shall bid the

1.04 Special Requirements:

A. Appurtenances and Accessories: This contractor shall furnish all appurtenances and accessories necessary for a complete and properly

operating systems.

B. Layout of Work: Drowing are diagrammatic. Correlate final equipment locations with governing architectural and structural drawings. Layout work before installation so that all trades may install equipment in space available. Provide coordination as required to finish in neat and workmanlike manner.

C. Investigation or Site: Check site and existing conditions tharoughly before bidding. Advise architect of discrepancies or questions noted.
D. Coordination: Provide all required coordination and supervision where work connects to or is affected by others' work.

E. Excavation and Backfilling: The contractor shall provide all labor and material for necessary excavating and backfilling for the install-

and material in inclusiony according only paving repairs necessary.

Protection and Clean-up: Suitably protect all equipment furnished under this division during construction. Restore all damaged surfaces and items to like new condition before a request for final acceptance. C. Technical Information Brachure:

control information practice:

Submit before start of construction or within ten (10) days after award of contract. Each brochure shall consist of an adequately sized hard-cover, 3-ring binder, 8-1/2: x 11* sheets. Provide correct designation on outside cover and on ends of brochures.

H. Recard Orawings: The contractor shall keep two (2) sets of blueline prints on the job, clean and neatly marked with red pencil. The contractor shall is shown that the countries of the contractor shall is shown the countries of the marked to show correct date. At competion of project, this contractor shall sign both sets of prints certifying that these prints show actual record conditions and turn them over to the architect. One set shall remain in the architect's record file and one set shall be given to the owner.

Prefinal Inspection: When this contractor is completed with project he shall request a prefinal inspection from the engineer. The engineer shall make a prefinal inspection and prepair a punch list of incomplete

Items.

J. Finai Inspection and Owner's Inspection: After the items from the prefinal inspection have been completed, this contractor shall submit a request for a final inspection and owner's instructions in writing to the architect, A meeting will be arranged at the job site bethe the architect, engineer, general contractor, and owner for a final walk—throught and owner's operating instructions.

K. System Test: The contractor shall test the system for ground continuity shorts, polarly, and wiring errors upon completion of the project and prior to calling for an inspection by the engineer.

1.05 Materials and Workmanship;

A All materials supplied and installed on this protect shall be new and An indicreas supplied and installed of the protective shall be approved by the Underwriter's Laboratories, Inc. Defective metarials damaged during installation shall be replaced or repaired subject to the architect's or engineer's approval.

B. All work shall be performed in neat workmanlike manner subject to the architect's or engineer's approval.

C. The contractor shall field-verify by inspection of the equipment name-piates the electrical characteristics of said equipment are in fact compatible with the circuit breaker, wire and conduit distribution as indicated. The contractor shall, notify the engineer immediately of any deviation of electrical characteristics or equipment incompatibility with deviation of electrical characteristics of equipment incompositions with the system as indicated on the drawings. The cost of any rapier or-rework at any equipment installed which is found to be in violation of the electrical code shall be incurred by this contractor.

SECTION 16400 ELECTRICAL

PART T - GENERAL

1.01 Scope of Work:

The work covered this section of Specifications consists of furnishing all materials, labor and equipment, and performing all work for the complete installation of electrical systems described herein and as shown on the drawings.

1.02 Work Included:

The work to be furnished and installed in this section of the Specifications is in general (but nit limited to) the following list:

PART II - PRODUCTS AND MATERIALS

2.01 Panel Board - Sq. 'D' NGO plug in C/B type, in NEMA 1 enclosure of voltage, phase, as shown on arowings.

2.02 Lighting Fixtures - shall be as shown in the lighting fixture schedule on

the drawing. 2.03 Disconnect Switches:

A. Disconnect Switches: Shall be general duty type and or the size and type noted on the drawings and-or required by the National Electric Code. All switches shall be permanently, neatly legible, and conspicuously marked to indicate the size and type of fuse required for replacement purposes.

B. Fuses: Provide two (2) complete sets of fuses for all switches requiring fuses, Install one (1) set and deliver the second set to the owner with proper identification. All fuses shall be the BUSS type "KYN" as specified. All fuses not so specified shall be element "Fusetron".

For all disconnect switches, panelboards, motor starters, each component of switchboards and other items of electrical equipment, including spares, prowhich back bake-tille nametags engroved with white letters. Tags shall be applied with sweetmetal screws. Continuous roll type nametags applied with adhesive will not be acceptable. Designation on the labels will be the same as that shown on the progress drawings.

Device Plate: All device plates shall be as manufactured by Arrow-Hart, Bryant, Pass and Seymor, General Electric and Hubbell.

A. Race ways as shown on the drawings are partly diagrammatic, however, the contactor shall run the conduit in general where shown on the drawings in straight. Exposed raceways shall run parallel or at right angles to

B. All raceways shall be concealed unless specifically permitted otherwise. Concealed raceways shall be run in a direct line with long sweep bends and offsets. Exposed raceways shall run para;;ed; or at right angles to building lines.

C. Roceway ends shall be capped with a metal fitting to prevent entrance of foreign material during construction

D. Where required to suit field conditions, contractor shall shift the location of raceway runs from the location shown on the drawings at no

E. All underground service entrance feeders to panels and branch conduits shall be installed in schedule 40, PVC conduit buried 24" deep under grade

F. All oboveground service entrance feeders to panels shall be right galvanized conduit or type PVC conduit.

G. All branch circuits run above the ceiling or in wall shall be type EMT conduit or type MC cable. MC cable may also be used for final connections to light fixtures and equipment. All EMT fittings shall be DIE cast set screw.

H. Connection to motors or vibrating equipment shall be made with not less than 12° of lexible zinc-coated steel conduit. Flexible conduit shall be liquid-tight in wet or damp locations.

I. Raceways shall be kept clear of plumbing fixtures to facilitate future repair or replacement of said fixtures without disturbing wiring. Except where it is necessary for control purposes, all roceways shall be kept away from items producing heat.

J. Raceways shall be run from outlet to outlet as shown on the drawings.

K. Exterior underground raceways shall be installed 24" minimum below the finished grade line.

finished grace line.

L. Raceways shall run in neat and workmanlike manner and shall be properly supported with approved conduit clams, hanger rods, and structural fasteners. Dying with wire is not approved. All raceways, except those from surface mounted switches, outlets boxes, or panels, shall be run concealed from view. Exposed raceways shall be supported with clamp fasteners with taggle botts on hollow walls, and with lead expansion shields on masonry. Rigid steel box connections shall be made with double locknuts and bushings. Transition from rigid canduit or EMT to PVC shall be made of outlet box only. PVC shall not be stubbed above floor from underground in combustible wells.

Quitets shall be manuted so that covers and alates will finish flush with

M. Outlets shall be mounted so that covers and plates will finish flush with finished surfaces without the use of shims or mats. Plates shall not support wiring devices. Song switches with common plate where two or more are indicated in the same location. Wall mounted devices for different systems (switches, thermostats, etc.) shall be coordinated for symmetry when located near each other on the same wall.

Height of wail outlets to battom above finish floors shall be as follows:

Thermostate - - - 4'-0" Light Switches . - - - 1'-4" (unless noted otherwise) Recentacies Power & Lighting Panels - - - 6'-6" (top of panel)

2.07 Grounding System:

In general, all new electrical equipment (metallic conduit, motor frames, panelboards, etc.) and main switchnorad shall be bonded together with a green insui-ated system grounding conductor in accordance with specific rules of article 250 of the NEC. Bonding conductor through the raceway system shall be continuous from main switch ground bus to panel ground bar or each panelboard to each branch circuit outlet. System shall be grounded at main switch equipment with capper conductor with sizes as shown on the drowings.

PART III - EXECUTION

3.01 Testing::

The electrical contractor shall be responsible for testing all wiring circuits,

This contractor shall provide the owner with certification of guarantee for

DRAWN:

SEVI

H STREET PROPERTIES 5 SEVENTH STREET TAFT, FLORIDA

CHECKED: C.E./D.P. DATE: 12-30-04 SCALE: NTS JOB NO.: 17-04

LEGEND AND ELECTRICAL SPECIFICATIONS

SHEET

nonte 3.LD., (407) Ήď S.

OF SHEETS