

MAR 09 2011

**CONCRETE BATCHING PLANT
AIR GENERAL PERMIT REGISTRATION FORM**

Bureau of Air Monitoring
& Mobile Sources

Part II. Notification to Permitting Office

(Detach and submit to appropriate permitting office; keep copy onsite)

Instructions: To give notice to the Department of an eligible facility's intent to use this air general permit, the owner or operator of the facility must detach and complete this part of the Air General Permit Registration Form and submit it to the appropriate Department of Environmental Protection or local air pollution control program office which has permitting authority. Please type or print clearly all information, and enclose the appropriate air general permit registration processing fee pursuant to Rule 62-4.050, F.A.C. (\$100 as of the effective date of this form)

7775675-001

Registration Type

Check one:

INITIAL REGISTRATION - Notification of intent to:

- Construct and operate a proposed new facility.
- Operate an existing facility not currently using an air general permit (e.g., a facility proposing to go from an air operation permit to an air general permit).

RE-REGISTRATION (for facilities currently using an air general permit) - Notification of intent to:

- Continue operating the facility after expiration of the current term of air general permit use.
- Continue operating the facility after a change of ownership.
- Make an equipment change requiring re-registration pursuant to Rule 62-210.310(2)(e), F.A.C., or any other change not considered an administrative correction under Rule 62-210.310(2)(d), F.A.C.

Surrender of Existing Air Operation Permit(s) - For Initial Registrations Only

If the facility currently holds one or more air operation permits, such permit(s) must be surrendered by the owner or operator upon the effective date of this air general permit. In such case, check the first box, and indicate the operation permits being surrendered. If no air operation permits are held by the facility, check the second box.

- All existing air operation permits for this facility are hereby surrendered upon the effective date of this air general permit; specifically permit number(s): _____
- No air operation permits currently exist for this facility.

General Facility Information

Facility Owner/Company Name (Name of corporation, agency, or individual owner who or which owns, leases, operates, controls, or supervises the facility.)

Lodge Construction Inc, 2161 McGregor Blvd., Fort Myers, FL 33901

Site Name (Name, if any, of the facility site; e.g., Plant A, Metropolis Plant, etc. If more than one facility is owned, a registration form must be completed for each.)

Site 1 Impoundment (L-40 canal Restoration Project -- USACOE)

Facility Location (Provide the physical location of the facility, not necessarily the mailing address.)

Street Address: 14795 Lox Road (North of West End Lox Road see location map and site plan)

City: Boca Raton

County: Palm Beach

Zip Code: 33428

Facility Start-Up Date (Estimated start-up date of proposed new facility.) (N/A for existing facility)

February 14, 2011

FINANCE & ACCOUNTING
REVENUE

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FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION

Owner/Authorized Representative

Name and Position Title (Person who, by signing this form below, certifies that the facility is eligible to use this air general permit.)

Print Name and Title: Gerald Benock, Quality Control Manager Lodge Construction, Inc.

Owner/Authorized Representative Mailing Address

Organization/Firm:Lodge Construction Inc.

Street Address:2161 McGregor Blvd.

City:Fort Myers

County:Lee

Zip Code: 33901

Owner/Authorized Representative Telephone Numbers

Telephone:239-332-4371

Fax:239-332-0218

Cell phone (optional):941-769-0379

Facility Contact (If different from Owner/Authorized Representative)

Name and Position Title (Plant manager or person to be contacted regarding day-to-day operations at the facility.)

Print Name and Title:Gerald Benock

Facility Contact Mailing Address

Organization/Firm:Lodge Construction, Inc.

Street Address:14795 Lox Road

City:Boca Raton

County:Broward

Zip Code:33428

Facility Contact Telephone Numbers

Telephone:239-332-4371

Fax:239-332-0218

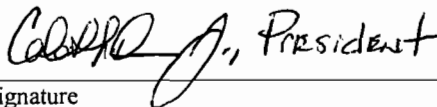
Cell phone (optional):941-769-0379

Owner/Authorized Representative Statement

This statement must be signed and dated by the person named above as owner or authorized representative

I, the undersigned, am the owner or authorized representative of the owner or operator of the facility addressed in this Air General Permit Registration Form. I hereby certify, based on information and belief formed after reasonable inquiry, that the facility addressed in this registration form is eligible for use of this air general permit and that the statements made in this registration form are true, accurate and complete. Further, I agree to operate and maintain the facility described in this registration form so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof.

I will promptly notify the Department of any changes to the information contained in this registration form.


Signature

3-3-11
Date

Type of Facility

Check one:

Stationary Facility

Relocatable Facility

Type(s) of Reasonable Precautions Used to Prevent Unconfined Emissions

Check all precautions to be used for the management of roads, parking areas, stock piles and yards:

Pave Roads

Pave Parking Areas

Pave Yards

Maintain Roads/Parking/Yards

Use Water Application

Use Dust Suppressant

Remove Particulate Matter

Reduce Stock Pile Height

Install Wind Breaks

Check all precautions to be used for the management of drop points to trucks:

Spray Bar

Chute

Enclosure

Partial enclosure

Description of Reasonable Precautions

Below, or as an attachment to this form, provide details of all types of reasonable precautions to be used to prevent unconfined emissions at the facility. This is a Soil Cement Plant. There will be dust collection systems on the cement Silo, cement Batcher and mixer. The haul roads will be sprayed with water as needed to control dust. The material stock piles will be low in height due to the required mixing process related to the material temperature so that minimal dust generation is expected. All areas of excess particulate matter around the site will be *minimized* and kept in a confined area for processing.

The site has a proposed stormwater drainage system that is intended to collect runoff from the site in a retention pond adjacent to the plant. This system will help to collect fine materials carried to the pond by rain water runoff there by reducing the potential for dust generation on the overall site.

High traffic areas under the plant and at the loading hopper will be paved to help with erosion and assist in clean up of loose materials. The haul roads will be stabilized with site generated limerock.

In addition there is an comprehensive Environmental Protection Plan and Surface Water Management Plan with oversight by the ACOE, FDEP and Water Management District for the overall construction project due to the location of this Everglade Restoration type project.

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
FINANCE & ACCOUNTING
REVENUE

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Description of Facility

Below, or as an attachment to this form, provide a description of the concrete batching plant operations at the facility in sufficient detail to demonstrate the facility's eligibility for use of this air general permit and to provide a basis for tracking any future equipment or process changes at the facility. Describe all air pollutant-emitting processes and equipment at the facility, and identify any air pollution control measures or equipment used.

This is a temporary, portable soil cement production plant on a construction site. This project is proposed to be in place for two years with a possible second project extending to five years. The plant produces a dry mix of on-site materials and cement to be utilized to stabilize the L-40 Levee in west Boca Raton, Florida. The batching equipment consists of a loading hooper, a aggregate storage bin, a mixer tower with cement silo. Two conveyors approximately 100 feet long are used to move the material. Off-road haul trucks will receive the mixed soil cement materials and transport them to the canal embankment.

The equipment and dust collection equipment consist of:

1. Single compartment silo with a 5" anti-overfill system. This prevents accidental overfilling of the silo and makes use of high levelbin indicators.
2. PJC-425 Silo top Dust Collector. This is a pulse jet type collector rated at 2400 CFM with a 99.99% cleaning efficiency. One compartment with (12) 8"x 39" cartridges for 472 sq. ft. of filtration area.
3. PJC-35 Batcher Dust Collector. This is a pulse jet type collector rated at 210 CFM with a 99.99% cleaning efficiency. One compartment with (2) 8"x 20" top entry cartridges for 36 sq. ft. of filtration area.
4. PJC-305 Mixer Dust Collector. This is a pulse jet type collector rated at 1500 CFM with a 99.99% cleaning efficiency. One compartment with (8) 8"x 39" top entry cartridges for 305 sq. ft. of filtration area.
5. Generator -- Triton 405-60 T3. -- diesel fuel operated. See the attached specifications for the systems.

Please see the attached equipment drawings and site plan for general configuration of the soil cement operations.

John Deere 6135 HF485	Newage Stamford HCI 444	Generator Model:	Triton 405-60 T3
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60 Hz

3-Phase

Power Factor
Cos Φ = 0.8

Emissions Certification
EPA/CARB Tier 3

RATINGS	PRIME POWER (PRP)		STANDBY POWER (LTP)		
	kVA	kWe	kVA	kWe	Amps
480/277	460	368	506	405	609
440/254	460	368	506	405	664
416/240	460	368	506	405	702
240/138	460	368	506	405	1217
220/127	460	368	506	405	1328

Definition of Ratings & Reference Conditions

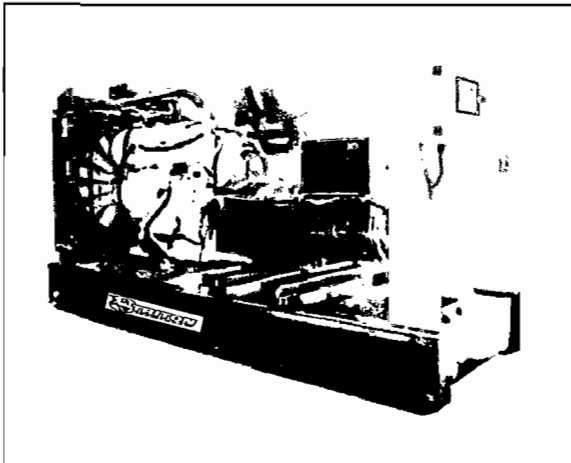
Prime Power (PRP) is the nominal output continuously available, where the average load (variable) does not exceed 70% of the prime power rating. 10% overload is available for a maximum of 1 hour in 12 hours of operation.

Standby Power (LTP) is the maximum output available, for up to 500 hours per year, where the average load (variable) does not exceed 70% of the standby power rating. No overload is available.

Standard Reference Conditions: air temperature 25°C (77°F), barometric pressure 99kPa, [110m(361ft) altitude], 30% relative humidity.

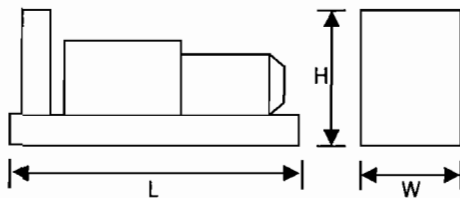
Note: The above ratings may be subject to derate at different operating conditions. Please see the Derate Guidelines on the Broadcrown Website.

All power ratings and reference conditions in accordance with ISO 8528-1 and ISO 3046-1.



Key Features:

- Water cooled John Deere Diesel engine with ECU/CANBUS
- Single bearing Newage Stamford alternator
- Radiator with pressure cap and drain point
- Fully guarded engine-driven fan
- Fully welded steel skid base with fork lift pockets
- Integral fuel tank with filler cap and gauge
- Heavy duty rubber anti-vibration mountings
- 12V starter battery and connecting cables
- Separate engine-driven battery charging alternator
- Spin on oil and fuel filters and dry type air filter element
- Industrial silencer (15dBA reduction) supplied loose
- Auto Start control system with digital instrumentation
- Main line circuit breaker
- Factory Test Certificate
- Operation & Maintenance Manual
- Wide range of optional extra features available



Overall Dimensions & Weights - Open Set

Length (L) = TBAm (TBAin)
 Width (W) = TBAm (TBAin)
 Height (H) = TBAm (TBAin)

Dry Weight (inc oil) = TBAkg (TBAlb)
 Operating Weight = TBAkg (TBAlb)

Overall dBA	Typical Open Generator Sound Pressure Level at 1m, Free Field (dB)						
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
105	93	95	99	101	100	100	94

All specifications and design are subject to change without notice

FLORIDA DEPARTMENT OF REVENUE

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ENGINE & COOLING SYSTEM
JOHN DEERE 6135 HF485

		SI Units	[US Units]	PRIME	STANDBY
Performance	Engine Speed	r/min	[rpm]	1800	
	Gross Power	kWm	[bhp]	419 [562]	460 [617]
	Fan Power	kWm	[bhp]	25 [33.5]	25 [33.5]
	Net Power	kWm	[bhp]	394 [528]	435 [583]
	Emissions Certification	EPA Tier 3			
	Altitude Capability	m	[ft.]	3048 [10000]	3048 [10000]
General	Cylinders / Type	6 cyl / inline / 4-stroke / HPCR			
	Aspiration / Charge Cooling	Turbocharged / Air to Air			
	Governing / Engine Management	Electronic Governor / ECU / CANBus			
	Bore / Stroke	mm	[in.]	132 / 165	[5.00 / 6.50]
	Cubic Capacity	litres	[cu.in.]	13.5	[766]
	BMEP	kPa	[psi]	2062 [299]	2264 [328]
Fuel	Fuel Consumption at 100% Power	litres/h	[gal/h]	85.8 [26.4]	98.0 [30.3]
	Fuel Consumption at 75% Power	litres/h	[gal/h]	63.6 [19.7]	71.0 [22.0]
	Fuel Consumption at 50% Power	litres/h	[gal/h]	44.1 [13.7]	49.0 [15.2]
	Total fuel flow	litres/h	[gal/h]	183	[48]
	Standard Fuel Tank Capacity	litres	[gal]	850	[225]
Air	Engine Air Flow	m ³ /s	[cfm]	0.533 [1130]	0.567 [1201]
	Maximum Air Intake Restriction (used filter)	kPa	[inWG]	6.25	[25]
Exhaust	Exhaust Gas Flow	m ³ /s	[cfm]	1.217 [2578]	1.350 [2860]
	Exhaust Gas Temperature	°C	[°F]	427 [801]	471 [880]
	Maximum Exhaust Back Pressure	kPa	[inWG]	10	[40]
	Typical Exhaust Pipe Diameter	mm	[in.]	200	[8]
Cooling	Radiator Cooling Air Flow	m ³ /s	[cfm]	1.00	[2119]
	Max Restriction to Cooling Air Flow	Pa	[inWG]	200	[0.8]
	Max Radiator Air-On Temperature	°C	[°F]	50	[122]
	Maximum Coolant Temperature	°C	[°F]	105	[221]
	Coolant Capacity - Engine Only	litres	[gal]	18	[4.8]
	Total Coolant Capacity	litres	[gal]	20	[5.3]
Oil	Total Oil Capacity incl Filters	litres	[gal]	42	[11.1]
	Typical Oil Pressure at Rated Speed	kPa	[psi]	287	[42]
	Typical Oil Consumption (>250hrs Operation)	litres/h	[pt/h]	0.23	[0.57]
Thermal	Heat Rejection to Engine Cooling Water	kW	[btu/min]	210 [11953]	231 [13149]
	Heat Rejection to Charge Cooler	kW	[btu/min]	117 [6660]	122 [6944]
	Heat Radiated From Engine (Typical)	kW	[btu/min]	52 [2981]	58 [3273]
Elec	Electrical System Voltage	V		12	
	Battery Type	2 (Parallel) 656			
	Battery Capacity SAE CCA	A		1620	

ALTERNATOR
NEWAGE STAMFORD HCI 444

		SI Units	[US Units]	PRIME	STANDBY
General Data	Manufacturer	NEWAGE STAMFORD			
	Model (may vary with voltage)			HCI 444 F	HCI 444 F
	Operating Temperature	°C	[°F]	40 [104]	27 [81]
	Coupling / No. of Bearings	Direct / Single Bearing			
	Phase / Poles / Winding Type	3-Phase / 4-Pole / Winding 311			
	Power Factor	Cos Φ = 0.8			
	Excitation	Self Excited			
	Insulation System	Class H			
	AVR Type	AS 440			
	Voltage Regulation	± 1.0%			

All specifications and design are subject to change without notice

STANDARD CONTROL SYSTEM *BC 5310 Digital Auto Start*

The standard control system for this model is BC 5310 (photo), based on the Deep Sea Electronics DSE5310 Digital Auto Start controller.

This provides for the manual and automatic remote start of the generator, together with full CANBus implementation for the control and protection of the engine via the ECU. LCD digital display of :

- ☒ Coolant temperature with high temperature alarm and shutdown
- ☒ Oil pressure with low pressure alarm and shutdown
- ☒ Oil temperature, engine operating hours, battery charge volts and amps
- ☒ Volts, with Under/Over Volts protection
- ☒ Amps, with Over Current protection
- ☒ Frequency, kW, kVA, Power Factor

Also featuring :

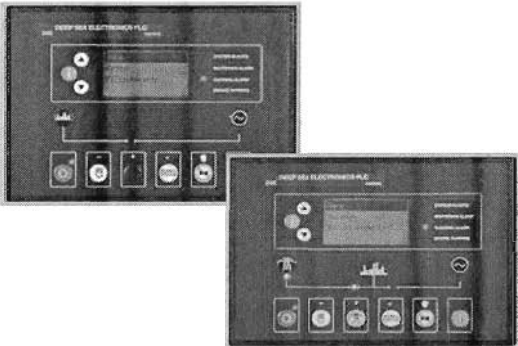
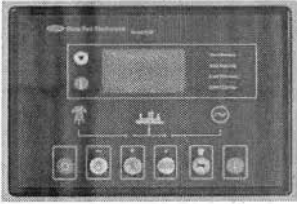
- ☒ Full RS485 Telemetry Implementation
- ☒ Automatic cool-down timer function
- ☒ Emergency Stop button
- ☒ Ample auxillary inputs/outputs for optional features
- ☒ Optional (shown) - battery charger and door mounted illuminated switch.



The panel is constructed in 1.5mm steel, powder coated to RAL9001 for a high quality, durable finish.

CONTROL SYSTEM OPTIONS

The BC 5320 control system (just the DSE5320 module is shown here) has an identical feature set to the BC 5310 but with the addition of full AMF functionality with integrated mains monitoring.



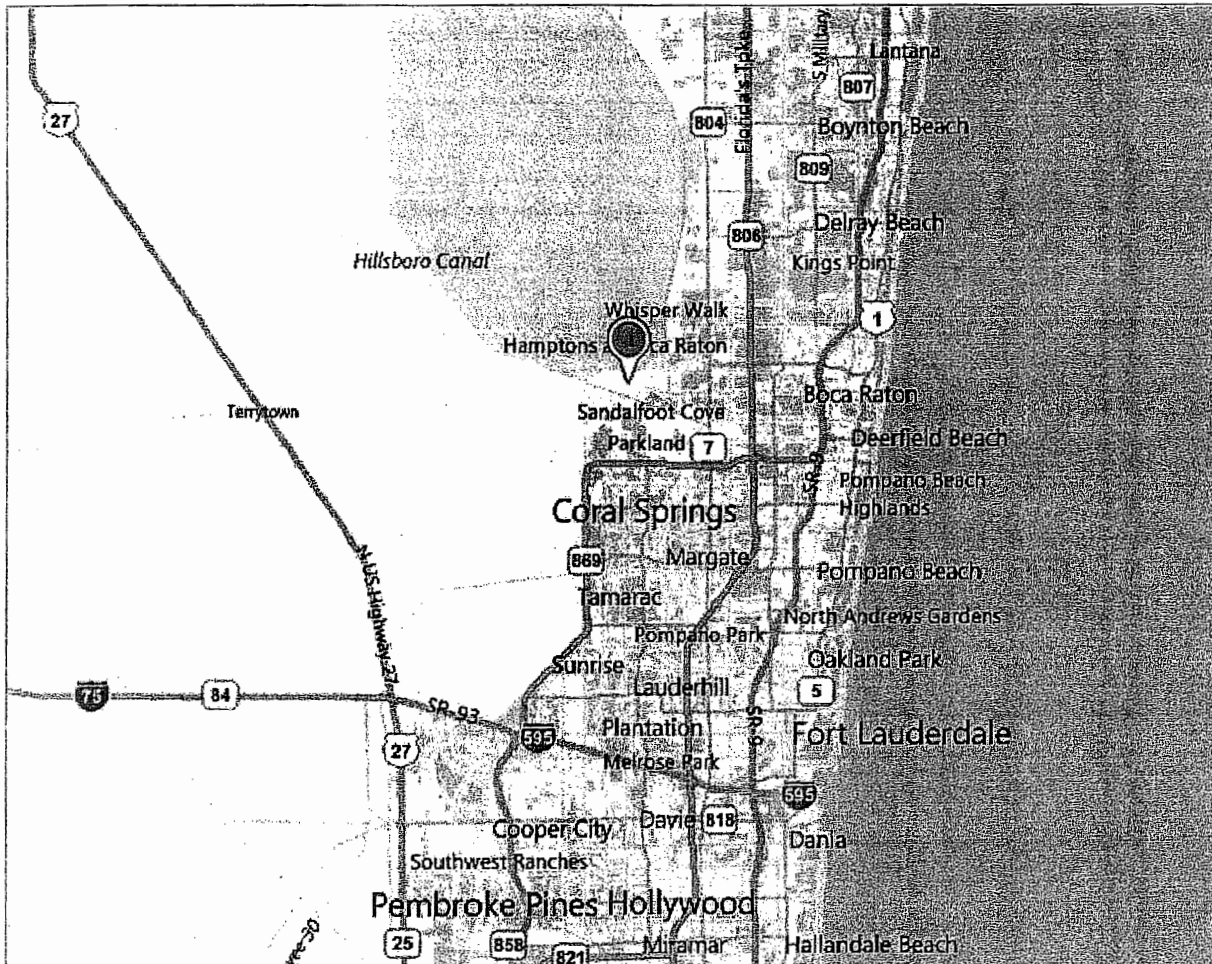
Finally, BC 5510 & BC 5520 control systems provide the same features as BC 5310 & BC 5320 respectively, plus :

- ☒ BC 5510 - Set-to-Set Synchronisation
- ☒ BC 5520 - Single Set-to-Mains Supply Synchronisation with integrated mains monitoring

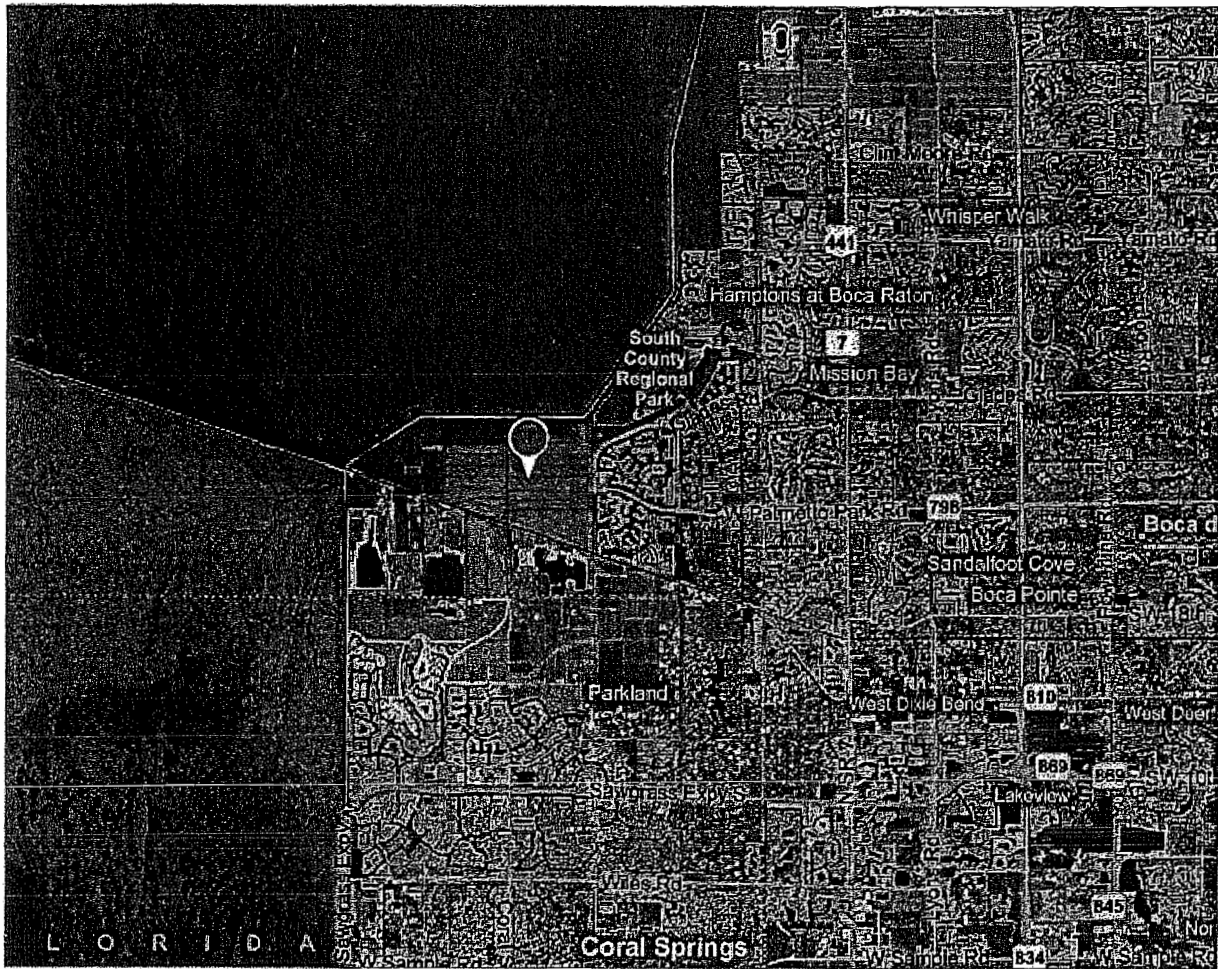
For Multi Set-to-Mains synchronisation, each set requires BC 5510 with the addition of one mains monitoring panel BC 5560 (not illustrated). See the Synchronisation Guidelines for further details.

All specifications and design are subject to change without notice

1. Lodge Construction, Inc. Soil Cement Plant



1. Lodge Construction, Inc. Soil Cement Plant

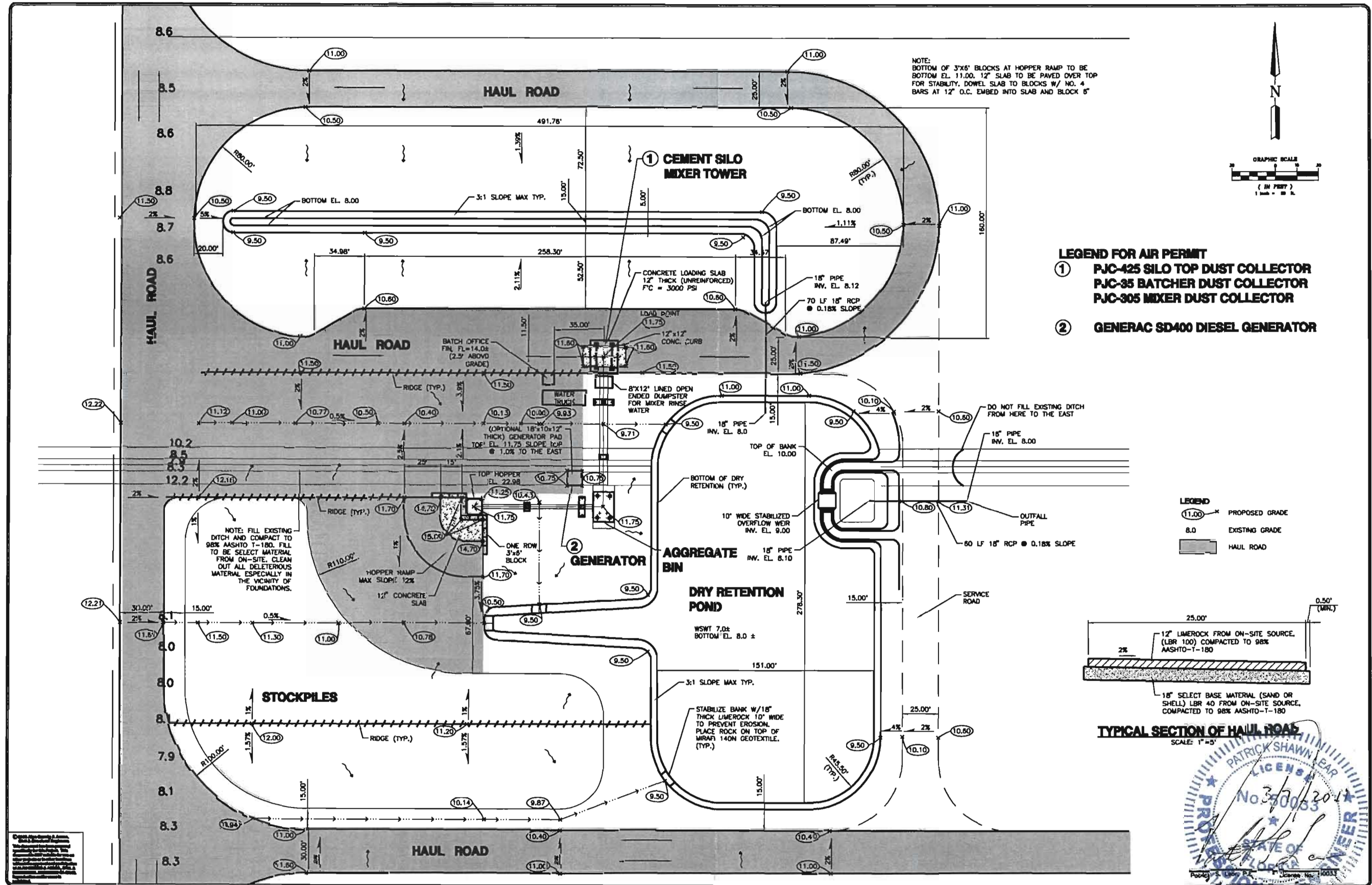


1. Lodge Construction, Inc. Soil Cement Plant

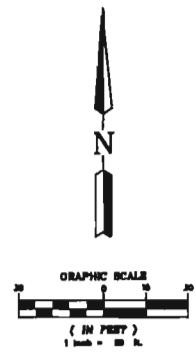


1. Lodge Construction, Inc. Soil Cement Plant





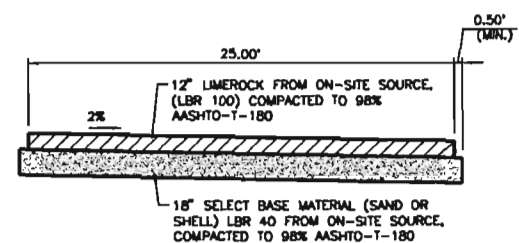
NOTE:
BOTTOM OF 3'x6' BLOCKS AT HOPPER RAMP TO BE
BOTTOM EL. 11.00. 12\"/>



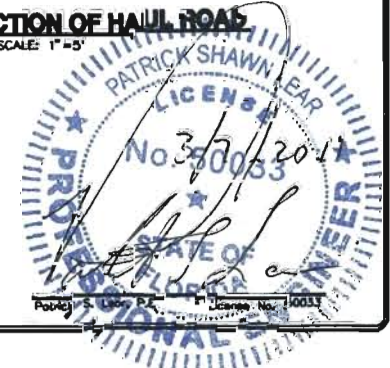
- LEGEND FOR AIR PERMIT**
- ① PJC-425 SILO TOP DUST COLLECTOR
PJC-35 BATCHER DUST COLLECTOR
PJC-305 MIXER DUST COLLECTOR
 - ② GENERAC SD400 DIESEL GENERATOR

LEGEND

- 11.00 PROPOSED GRADE
- 8.0 EXISTING GRADE
- ▭ HAUL ROAD



TYPICAL SECTION OF HAUL ROAD
SCALE: 1"=3'



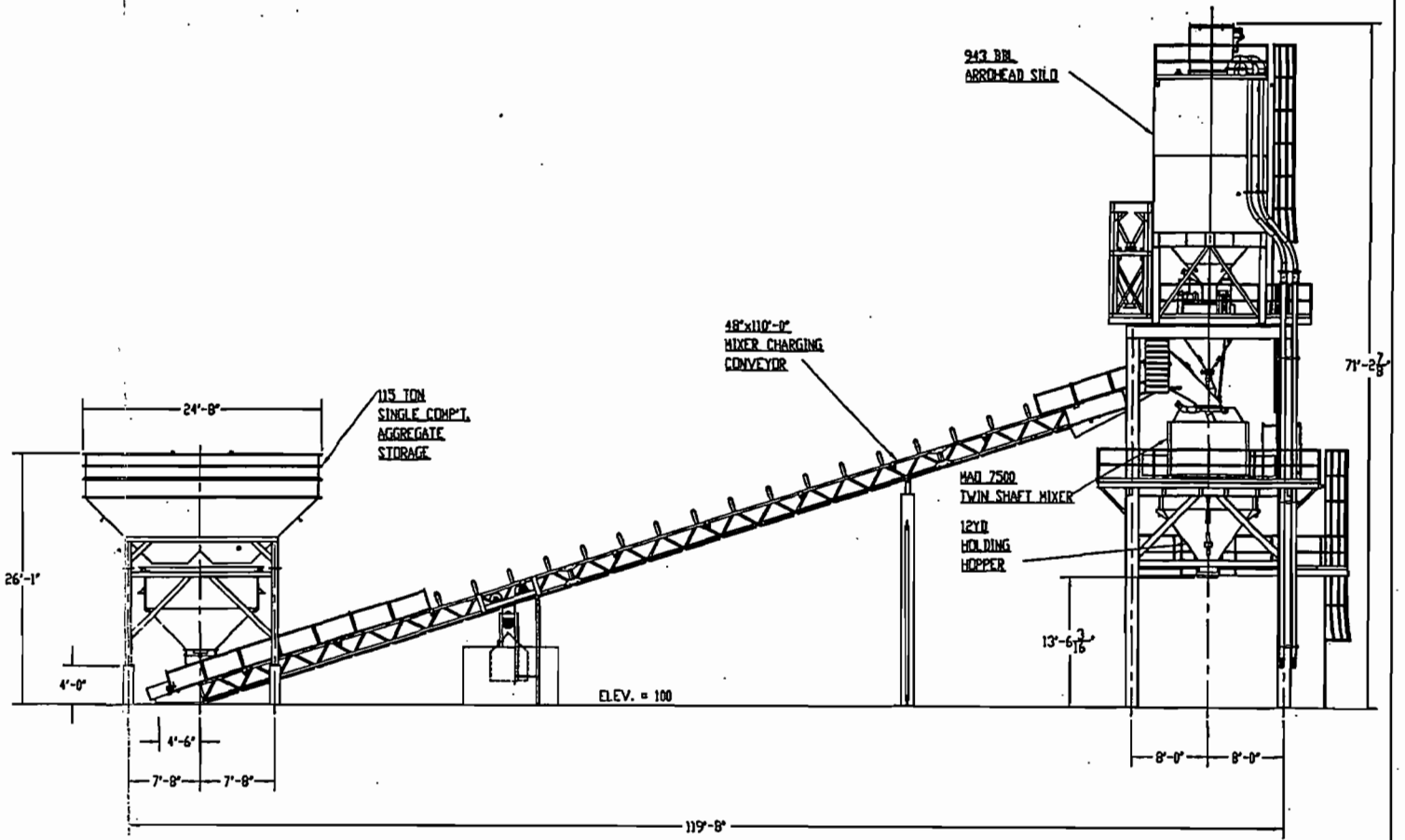
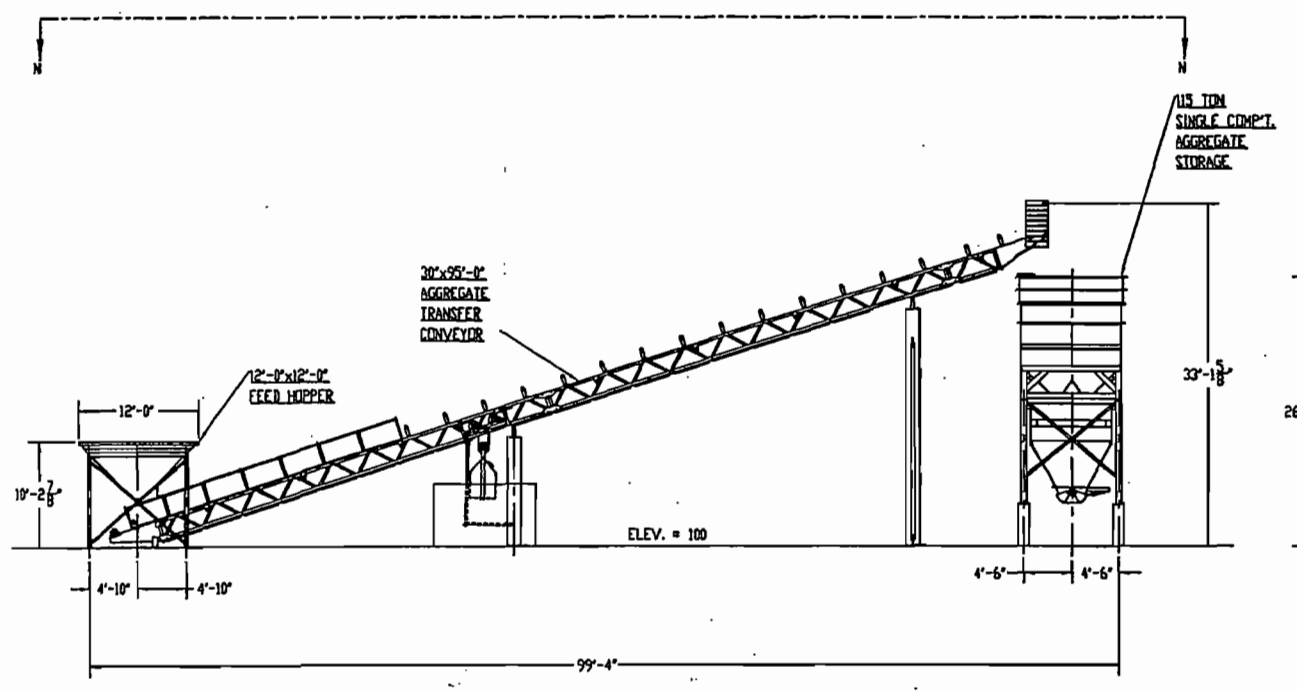
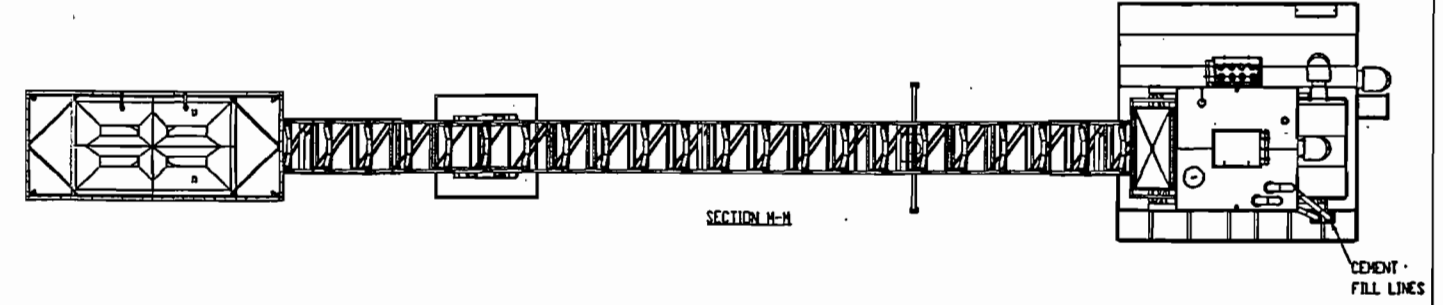
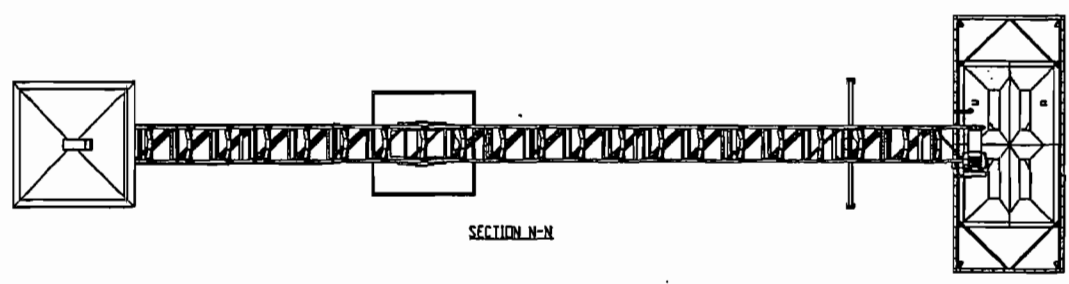
Alan Gerwig & Associates, Inc.
12796 W. Forest Hill Blvd., Suite 204
Wellington, FL 33414
Ph: (561) 762-9000
Fax: (561) 762-9801
Civil and Structural Engineers

IMPOUNDMENT 1 - SOIL CEMENT FACILITY
PALM BEACH COUNTY, FLORIDA
PERMITTING SITE PLAN

REVISIONS	
No.	Description

Proj. No. **10-081**
Sheet 1 of 1

PART NUMBER	QTY.	DESCRIPTION	WEIGHT/LB
COM-13113	1	115 TON SINGLE COMPART. CONW. AGG. BIN	18125.46
AM93GA-15524	1	243 BBL. SILO/HEAD ASSEMBLY	87903.11
V5GA-001	1	WATER BATCHER ASSEMBLY	2790.06
B130A92GA-002	1	30" X 95'-0" AGGREGATE TRANSFER CONVEYOR	3644.76
FM-002GA	1	12'-0" X 12'-0" FEED HOPPER	3644.87
M407500	1	M40 7500 TWIN SHAFT MIXER	26500
B148X110GA-002	1	48" BELT TRUSS CONVEYOR GENERAL ASSEMBLY	22628.72



NOTE: LOADINGS PER 200 INTERNATIONAL BUILDING CODE, BASIC WIND SPEED 14 R/S INDUSTRIES, INC./ADACRAFT, ASSUMES NO RESPONSIBILITY FOR FOUNDATION DESIGN. FOUNDATION SIZES NEED TO BE DESIGNED TO MEET LOCAL SOIL BEARING CONDITIONS. PIERES ARE SUGGESTED BY R/S INDUSTRIES, INC./ADACRAFT, WITH THE CUSTOMER TO DETERMINE SIZE & HEIGHT TO ACCOMMODATE RAMP, DUST SHROUDS, CLEARANCE OF ALL EQUIPMENT, AND ETC. BUILDING CODES MAY VARY DEPENDING ON PLANT LOCATION. IT IS THE CUSTOMER'S RESPONSIBILITY TO NOTIFY R/S INDUSTRIES, INC./ADACRAFT, OF ANY SPECIAL CODE REQUIREMENTS. THESE INCLUDE BUT ARE NOT LIMITED TO SEISMIC, HIGH WIND (HURRICANE), AND/OR ANY SPECIAL CITY, COUNTY, OR STATE REQUIREMENTS. IF A PROFESSIONAL ENGINEER'S STAMP IS REQUIRED ON ANY WORK BY R/S INDUSTRIES, INC./ADACRAFT AN ADDITIONAL FEE WILL BE ADDED.

R/S INDUSTRIES/ADACRAFT ASSUMES NO RESPONSIBILITY FOR FOUNDATION DESIGN. FOUNDATION SIZES NEED TO BE DESIGNED TO MEET LOCAL SOIL BEARING CONDITIONS.

R/S INDUSTRIES
1-866-817-7838

NO.	DATE	BY	DESCRIPTION
1	12/17/2010	Frank	ADDED DIMENSIONS, CLARIFIED ELEVATION
REVISIONS			
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED. DIMENSIONS AS INDICATED. DO NOT SCALE.			

TITLE PLANT CONSTRUCTION - 15524 PLANT ELEVATIONS AND BASEPLATE LAYOUT	DRAWN BY F.R.	DATE 11/12/2010
MODELED BY DM	DWG NO. 15524GA-001	REV. # 01
SHEET 1 OF 2		



Alan Gerwig & Associates, Inc.

Consulting Engineers
12798 W. Forest Hill Blvd., Suite 204
Wellington, FL 33414

Phone: (561) 792-9000
Fax: (561) 792-9901

LETTER OF TRANSMITTAL

To: **Mr. Dickson E Dibble, ES III.**
FDEP Receipts
3800 Commonwealth Boulevard, MS-77
Tallahassee, Florida 32399
(850) 717-9071

Date: **3-2-2011** Project No.: **10-081B**
RE: **Lodge Construction, Inc.**
Air General Permit --- Temporary Soil
Cement Plant
GENERATOR EQUIPMENT CHANGE

We are sending you the following items: Shop Drawings Prints Plans Electronic Media Specifications
 Copy of Letter Change Order Application

Delivery method FEDEX.

Copies	Date	Number	Description
1			Application for Soil Cement Plant -- Air General Permit
1			\$100 application review fee
1			11x17 site plan
1			11x17 equipment plan and elevations
1			Information for 405-60 T3 Triton Generator Cut Sheets
1			Copy of Four (4) different location maps

These are transmitted as checked below:

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

Remarks: **GENERATOR EQUIPMENT CHANGE**

C.C.: **File.**

Signed: **Patrick S. Lear, P.E., LEED AP**

FLORIDA DEPARTMENT OF
 ENVIRONMENTAL PROTECTION
 2011 MAR -8 AM 9:35
 FINANCE & ACCOUNTING
 REVENUE