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Bureau of Air Monitoring & Mobile Sources

CONCRETE BATCHING PLANT
AIR GENERAL PERMIT REGISTRATION FORM

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)*

0390045-001

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.)

CDS Manufacturing, Inc.

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.)

CDS- FDOT Casting Yard

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

Street Address: 106 Charles Hayes Sr. Drive

City: Gretna County: FL Zip Code: 32332

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

March 2008

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: Clayton Sembler, President

Owner/Authorized Representative Mailing Address
Organization/Firm: CDS Manufacturing, Inc.
Street Address: 441 S. Virginia Street
City: Quincy County: Gadsden Zip Code: 32351

Owner/Authorized Representative Telephone Numbers
Telephone: (850) 875-4651 Fax: (850) 875-4660
Cell phone (optional):

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: Same as Owner/Authorized Representative

Facility Contact Mailing Address
Organization/Firm:
Street Address:
City: County: Zip Code:

Facility Contact Telephone Numbers
Telephone: Fax:
Cell phone (optional):

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 _____ Date 1/29/08

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. The greatest source of unconfined emissions at the facility will be the handling of dry aggregate materials. The best way to limit these emissions is to keep the materials wetted so that truck, loader and conveyor transport will not create dust. Roads, both paved and unpaved will be wetted to limit particulate emissions.

Description of Facility

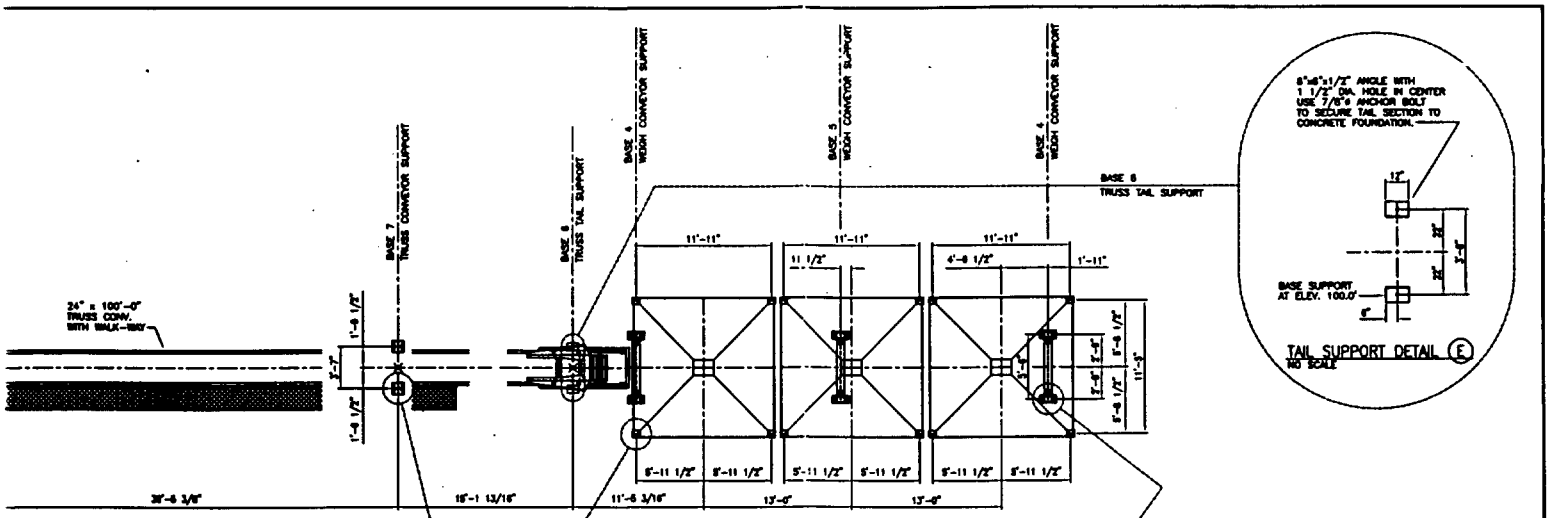
Below, or as an attachment to this form, provide a description of the concrete batching plant operations at the facility in sufficient detail to demonstrate the facility's eligibility for use of this air general permit and to provide a basis for tracking any future equipment or process changes at the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

This plant will have three dump hoppers for aggregate materials. A weigh belt is under the hoppers which conveys to a transfer conveyor to the mixer. The 4 CY mixer will have a dust collection system which is an SV 65 with a 510 cfm blower for negative pressure in the mixer.. The two silos for cement each will have a SV 170 dust collector for pneumatic conveyance of powder. The cement weigh batcher will have a SV 20 dust collector for weighing cement. Discharge from the mixer is wet concrete and not an emissions consideration.

The filter media information follows:
Standard Equipment on SV-65
(1) 1/3 HP single phase TEFC electric motor – 115/230 volts.
(2) Full length access door.
(3) Adapter flange included on required models.
Filter Bag Specification

Fiber	Polyester Dacton, Felt
Construction	Duo-Density, single singed
Weight	90 Oz Sq. Yd.
Air permeability	30-40 CFM Sq. Ft.
Mullen Burst	250 Lbs.
Breaking Strength	Fill: 175 Lbs. Warp: 140 Lbs.
Temperature Range	220 Degrees – 270 Degrees
Recovery	99.6% to one micron size

The SV 20 uses the same filter media but uses reverse air flow from the cement batcher to clean the bags rather than the shaking mechanism.
The other units must be cleaned after use by starting the shaking mechanism and this returns the dust to process.



TRUSS CONVEYOR PLAN VIEW

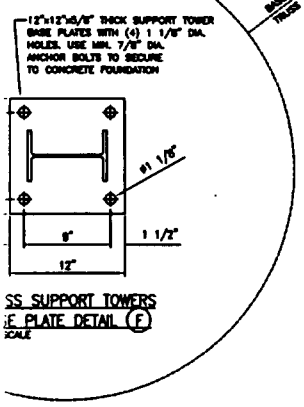
HOPPERS & WEIGH BELT PYLONS

TAIL SUPPORT DETAIL (E)
NO SCALE

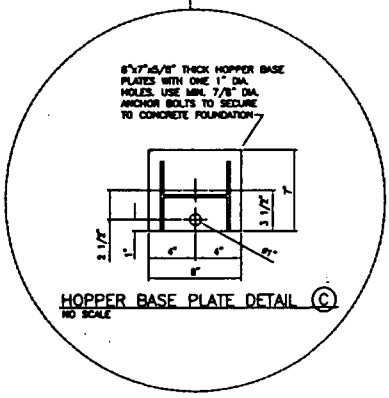
BASE 3 TOP 24 COLUMNS FOR 3 DUMP HOPPERS

BASE 2, 8 & 9 TRUSS CONVEYOR SUPPORTS

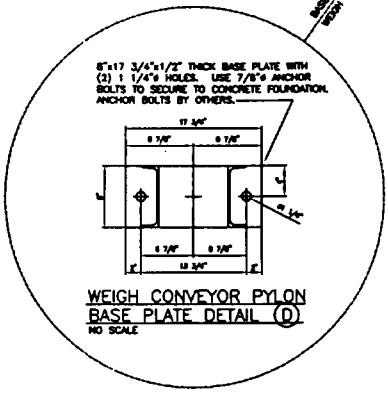
BASE 5, & 3 WEIGH CONVEYOR SUPPORTS



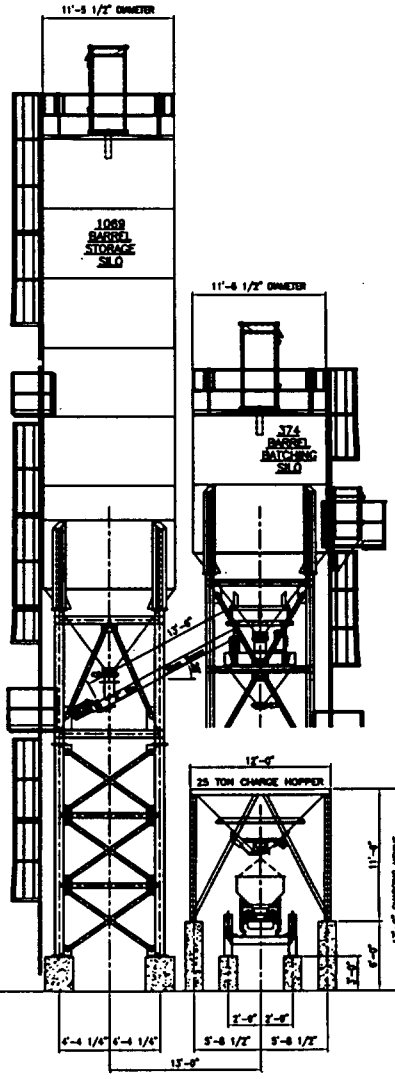
SS SUPPORT TOWERS
E PLATE DETAIL (F)
CALE



HOPPER BASE PLATE DETAIL (C)
NO SCALE



WEIGH CONVEYOR PYLON BASE PLATE DETAIL (D)
NO SCALE



RIGHT END VIEW

CRETE BATCH PLANT LOADS PER COLUMN

ONE KIP EQUALS 1,000 POUNDS

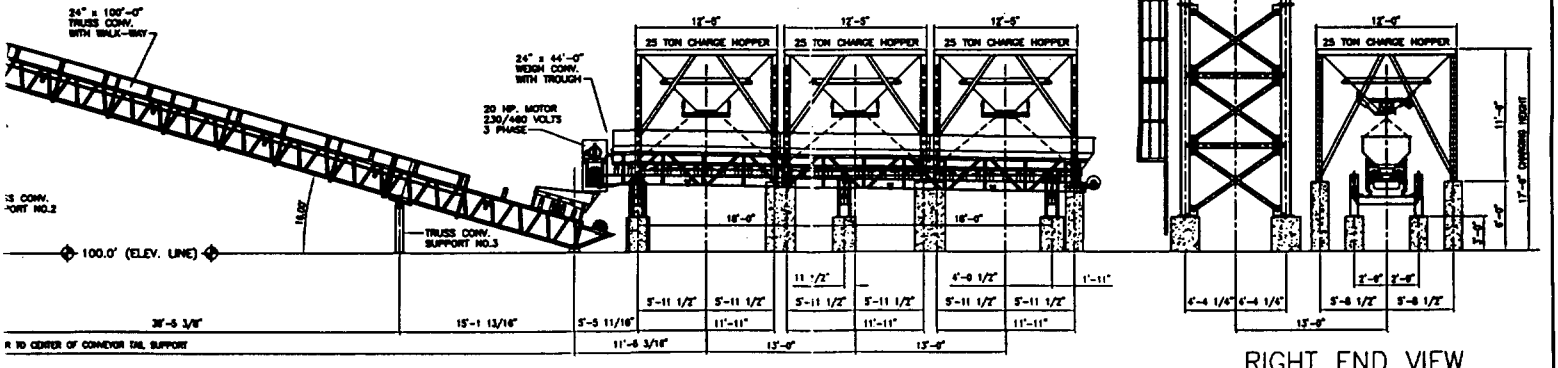
	BASE PLATE DETAIL	BASE LOCATION	MAXIMUM VERTICAL LOADS DOWN				MAXIMUM HORIZONTAL SHEAR
			DEAD LOAD	LIVE LOAD	WIND LOAD	SEISMIC LOAD	
)	A	BASE 1	7 KIPS	37.5 KIPS	±26.0 KIPS	±12.9 KIPS	6.2 KIPS
)	B	BASE 2	10.5 KIPS	102 KIPS	±47.5 KIPS	±41.5 KIPS	8.1 KIPS
	C	BASE 3	2.5 KIPS	13.8 KIPS	±3.7 KIPS	±1.0 KIPS	2.4 KIPS
	D	BASE 4	1.25 KIPS	4.5 KIPS	0 KIPS	±1 KIPS	1 KIPS
	D	BASE 5	1.5 KIPS	9 KIPS	0 KIPS	±2 KIPS	2 KIPS
	E	BASE 6	1 KIPS	0.5 KIPS	±0.5 KIPS	±0.3 KIPS	3.0 KIPS
	F	BASE 7	1.8 KIPS	1.0 KIPS	±0.4 KIPS	±0.4 KIPS	3.2 KIPS
	F	BASE 8	2.3 KIPS	1.3 KIPS	±0.3 KIPS	±0.5 KIPS	4.2 KIPS
	F	BASE 9	2.3 KIPS	1.0 KIPS	±0.7 KIPS	±0.3 KIPS	3.3 KIPS

GENERAL NOTES FOR EQUIPMENT MENTIONED ON THIS DRAWING

1. CONCRETE FOUNDATIONS TO BE DESIGNED FOR LOADS SHOWN ON THIS DRAWING.
2. CONCRETE FOUNDATIONS TO HAVE SUFFICIENT AREA SO AS NOT TO EXCEED THE ALLOWABLE BEARING VALUE OF THE SOIL AND MUST HAVE THE NECESSARY WEIGHT TO RESIST UPLIFT FROM LOADS AS SPECIFIED.
3. SEE EQUIPMENT ELEVATIONS FOR GENERAL ARRANGEMENT LAYOUT.
4. ANCHOR BOLTS TO BE FURNISHED BY THE CUSTOMER. (PLATES CAN BE WELDED TO STEEL IN CONC.)
5. STEPHENS MFG. CO., INC. ASSUMES NO RESPONSIBILITY FOR THE FOUNDATION EXCEPT TO FURNISH DIMENSIONS OF COLUMN BASES AND ANCHOR BOLTS LAYOUT. TOPS OF ALL CONCRETE PIERS MUST BE LEVEL AND IN SAME HORIZONTAL PLANE WITH ALLOWANCE FOR FINAL GROUTING.

DESIGN CRITERIA

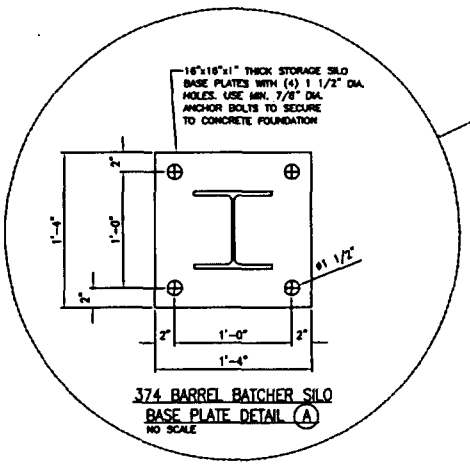
1. DESIGN LOADS DETERMINED IN ACCORDANCE WITH IBC 2003.
2. WIND LOADS BASED ON 110 MPH 3-SECOND GUST WIND SPEED EXPOSURE C.
3. SEISMIC SPECTRAL RESPONSE ACCELERATIONS Ss=0.114 & S1=0.080



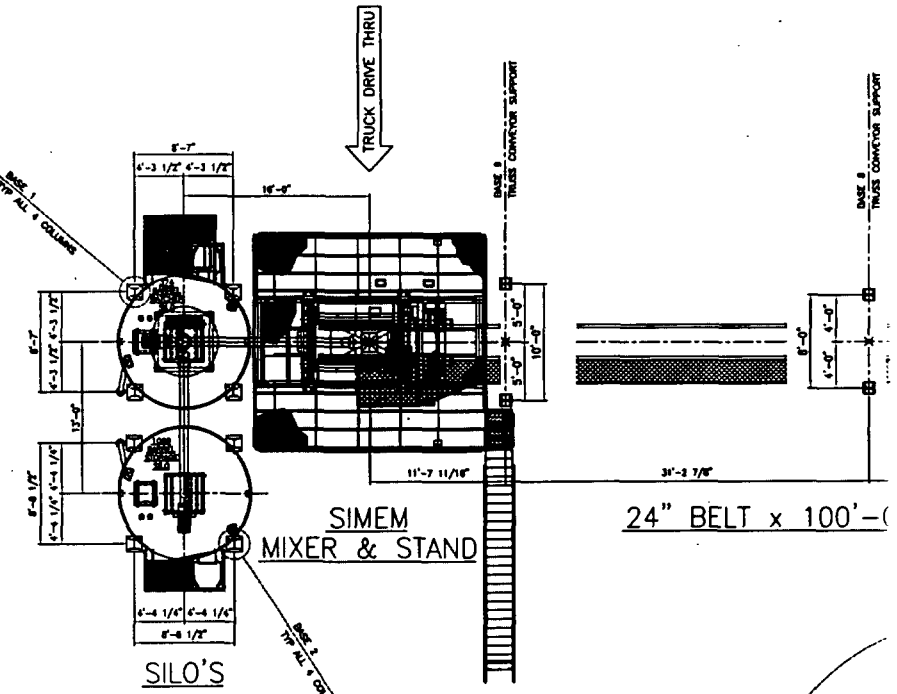
TRUSS CONVEYOR ELEVATION

HOPPERS & WEIGH BELT CONVEYOR

LOADS & UPDATED SIMEM MIXER PLATFORM & STAIRS	CONFIDENTIAL DISCLOSURE THIS DRAWING IS THE EXCLUSIVE PROPERTY OF STEPHENS MANUFACTURING CO., INC. THE RECIPIENT ACCEPTS THAT ITS CONTENTS ARE CONFIDENTIAL AND MUST NOT BE COPIED OR SUBMITTED TO OUTSIDE PARTIES FOR USE OR EXAMINATION WITHOUT WRITTEN CONSENT.	DRAWN BY: RTK	Stephens TOMPKINSVILLE, KY. 42167	FOR: CDS CENTRAL MIX TALLAHASSEE, FLORIDA	JOB NO. 50131	REV. NO. 2
S & STAIRS		DATE: 01-11-08		TITLE: SPECIAL PRECAST BATCH PLANT ELEVATIONS AND PLAN VIEW	SHEET NO. 1 OF 1	
REVISION		SCALE: NONE				



374 BARREL BATCHER SILO
BASE PLATE DETAIL (A)
NO SCALE

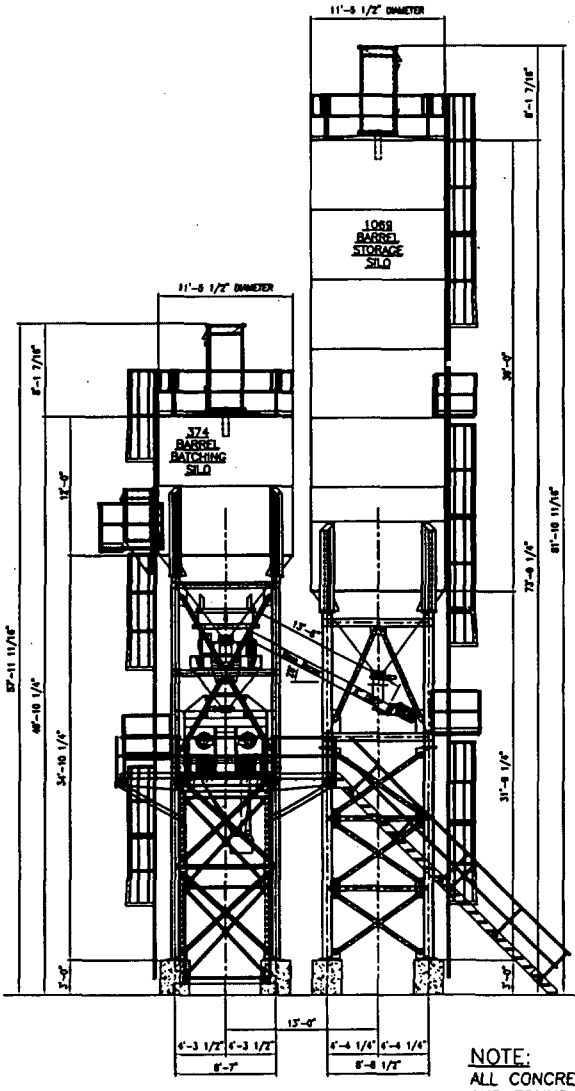


SIMEM
MIXER & STAND

24" BELT x 100'-(

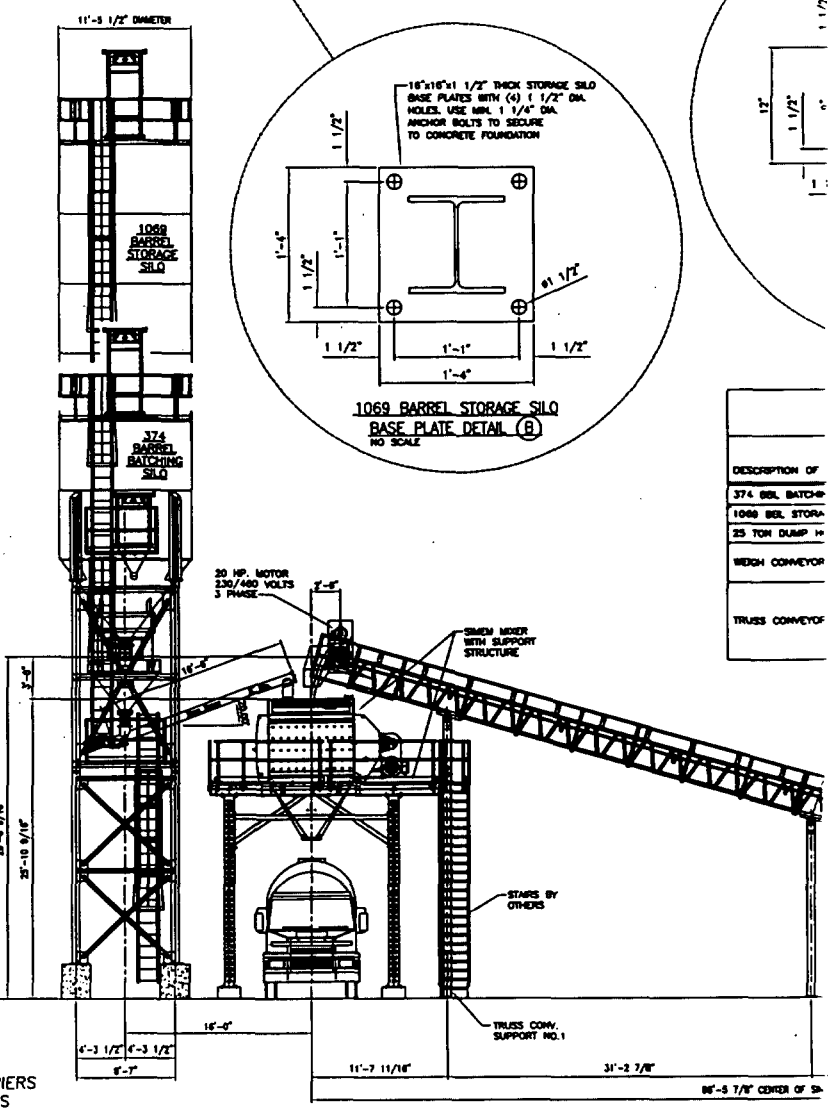
SILO'S

1069 BARREL STORAGE SILO
BASE PLATE DETAIL (B)
NO SCALE



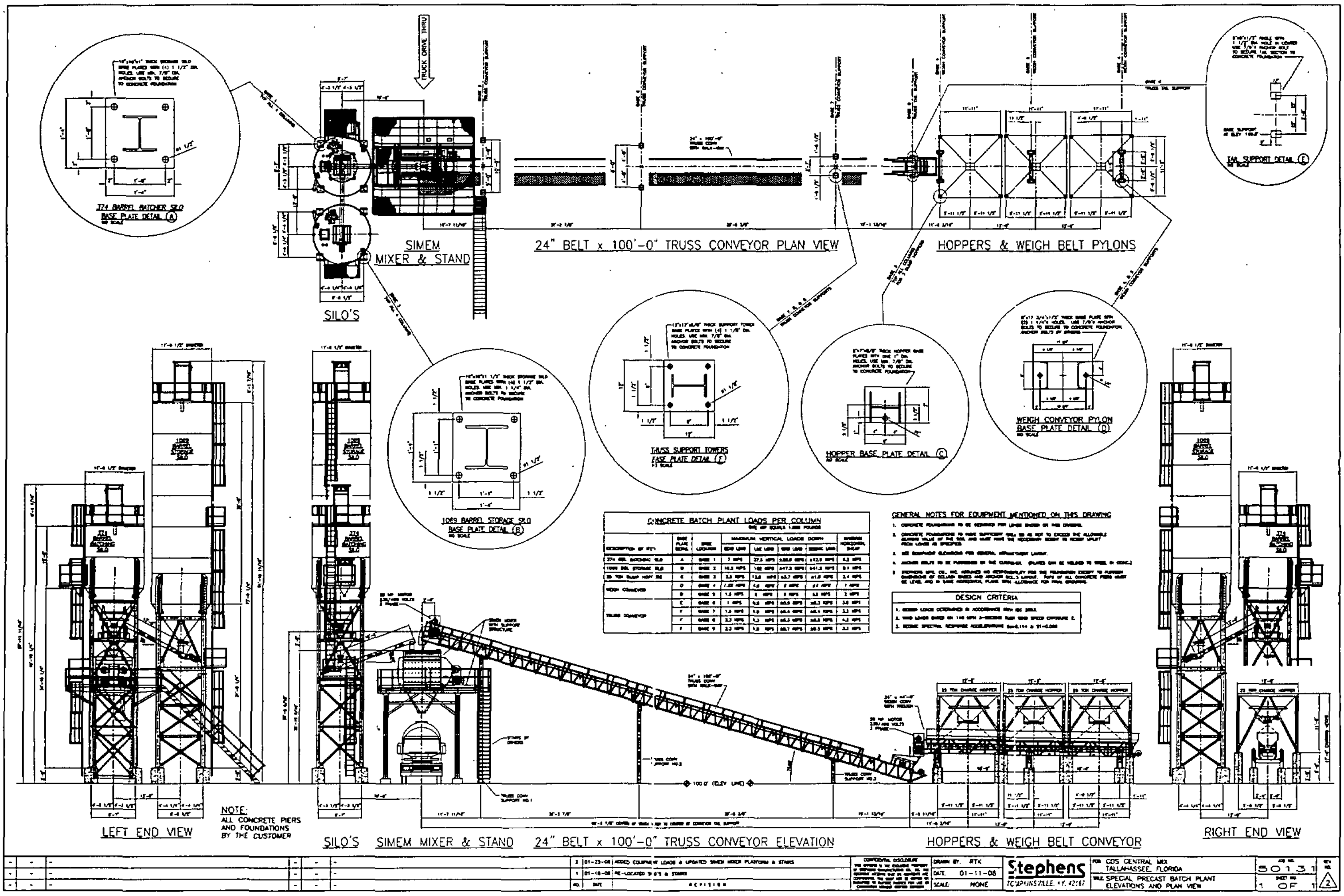
LEFT END VIEW

NOTE:
ALL CONCRETE PIERS AND FOUNDATIONS BY THE CUSTOMER



SILO'S SIMEM MIXER & STAND 24" BELT x 100'-

NO.	DATE	DESCRIPTION OF
2	01-25-08	ADDED EQ
1	01-18-08	RE-LOCATE
		374 BBL BATCH
		1069 BBL STORA
		25 TON DUMP H
		WEIGH CONVEYOR
		TRUSS CONVEYOR



TRUCK DRIVE THRU
374 BARREL BATCHER SILO BASE PLATE DETAIL (A)
SIMEM MIXER & STAND
SILO'S
24" BELT x 100'-0" TRUSS CONVEYOR PLAN VIEW
HOPPERS & WEIGH BELT PYLONS
TAIL SUPPORT DETAIL (E)
1069 BARREL STORAGE SILO BASE PLATE DETAIL (B)
TRUSS SUPPORT TOWERS BASE PLATE DETAIL (F)
HOPPER BASE PLATE DETAIL (C)
WEIGH CONVEYOR PYLON BASE PLATE DETAIL (D)
CONCRETE BATCH PLANT LOADS PER COLUMN
GENERAL NOTES FOR EQUIPMENT MENTIONED ON THIS DRAWING
DESIGN CRITERIA
100.0' (ELEV LINE)
NOTE: ALL CONCRETE PIERS AND FOUNDATIONS BY THE CUSTOMER
LEFT END VIEW
SILO'S
SIMEM MIXER & STAND
24" BELT x 100'-0" TRUSS CONVEYOR ELEVATION
HOPPERS & WEIGH BELT CONVEYOR
RIGHT END VIEW
CONFIDENTIAL DISCLOSURE
DRAWN BY. RTK
DATE 01-11-08
SCALE: NONE
Stephens
TOMPKINSVILLE, KY. 42167
FOR CDS CENTRAL MIX TALLAHASSEE, FLORIDA
TITLE SPECIAL PRECAST BATCH PLANT ELEVATIONS AND PLAN VIEW
JOB NO. 50131
SHEET NO. 1 OF 1
2

CREECH
ENGINEERS INC.
CIVILIZATION ENGINEERED
Tallahassee • Melbourne • Jensen Beach • Jupiter

Tallahassee Office
418 East Virginia Street, Tallahassee, Florida 32301
(850) 841-1705 Fax (850) 841-1706
www.creechinc.com

LETTER OF TRANSMITTAL

To:	Small Business Environmental Assistance Program	**Date:**	January 29, 2008
Address:	FDEP Receipts P.O. Box 3070 Tallahassee, FL 32315-3070	**Project:**	Quincy FDOT Casting Yard
Phone:	(850) 488-0114	**Project No.**	27128.00

We Are Sending You:
- ☐ Sketches
- ☐ Plans
- ☐ Shop Drawings
- ☐ Prints
- ☐ Compact Disk with End User Agreement
- ☐ Mylars
- ☐ Reports
- ☐ Specifications
- ☐ Calculations
- ☒ Other/described below

BY:
- ☐ Pick Up
- ☐ Mail
- ☐ Messenger
- ☐ Priority Mail
- ☒ Federal Express

No.	Sheet No.	Date	Description
1			Concrete Batching Plant- Air General Permit Registration Form
1			Check for the $100.00 Form Fee
1			11x17 Drawing of Proposed Batch Plant

Remarks: Please contact Bobby Bull @ 841-1705 if you have any questions regarding this application. Thank you

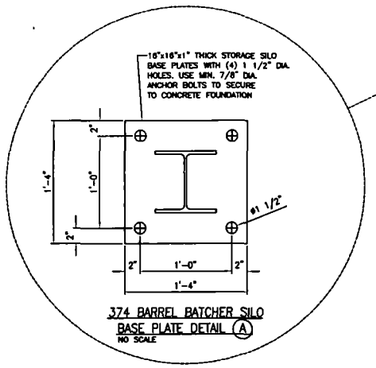
Transmitted:
- ☐ At Your Request
- ☒ For Your Information & Use
- ☐ For Signature
- ☐ For Your Comments
- ☐ For Distribution
- ☐ Return For Changes
- ☐ For Bids Due
- ☐ Under Separate Cover

copy: Clayton Sembler of CDS Manufacturing, Inc.
File

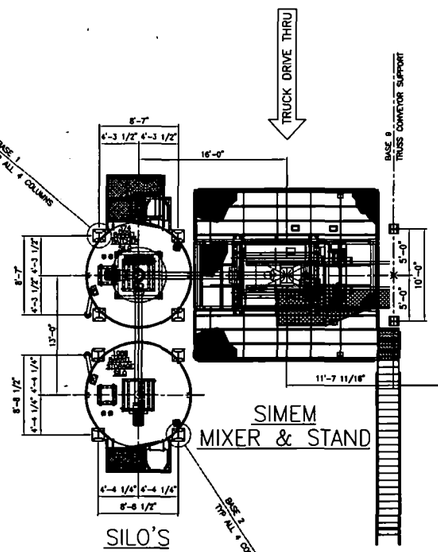
Creech Engineers, Inc.

Signed
Bobby Bull
Project Engineer
bbull@creechinc.com

Jensen Beach Office • (772) 283-1413 • Fax (772) 220-7881
Melbourne Office • (321) 255-5434 • Fax (321) 255-7751
Jupiter Office • (561) 745-4495 • Fax (561) 741-1791

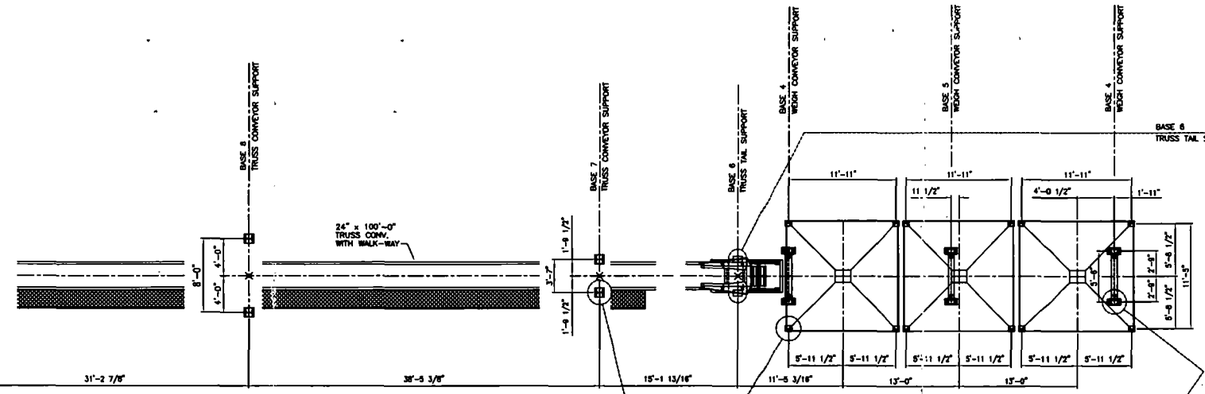


374 BARREL BATCHER SILO BASE PLATE DETAIL (A)
NO SCALE



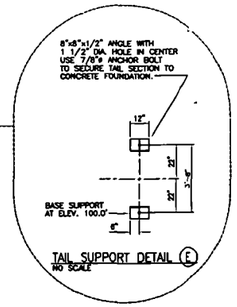
SILO'S

SIMEM MIXER & STAND

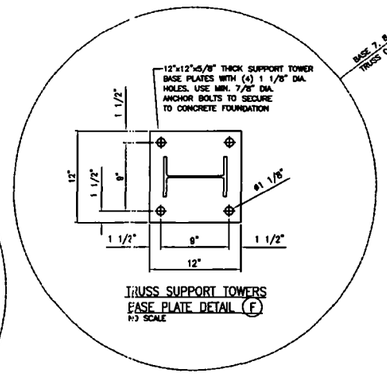


24" BELT x 100'-0" TRUSS CONVEYOR PLAN VIEW

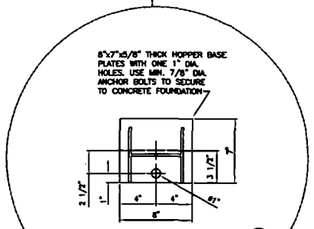
HOPPERS & WEIGH BELT PYLONS



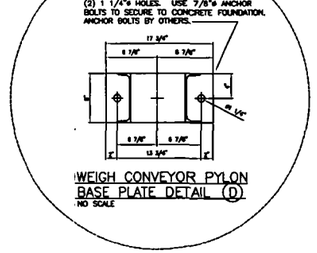
TAIL SUPPORT DETAIL (E)
NO SCALE



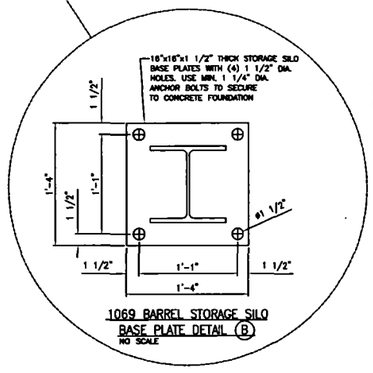
TRUSS SUPPORT TOWERS BASE PLATE DETAIL (F)
NO SCALE



HOPPER BASE PLATE DETAIL (C)
NO SCALE



WEIGH CONVEYOR PYLON BASE PLATE DETAIL (D)
NO SCALE



1069 BARREL STORAGE SILO BASE PLATE DETAIL (B)
NO SCALE

CONCRETE BATCH PLANT LOADS PER COLUMN
ONE KIP EQUALS 1,000 POUNDS

DESCRIPTION OF ITEM	BASE PLATE DETAIL	BASE LOCATION	MAXIMUM VERTICAL LOADS DOWN				MAXIMUM HORIZONTAL SHEAR
			DEAD LOAD	LIVE LOAD	WIND LOAD	SEISMIC LOAD	
374 BBL BATCHING SILO	A	BASE 1	7 KIPS	37.5 KIPS	±28.0 KIPS	±12.9 KIPS	6.2 KIPS
1069 BBL STORAGE SILO	B	BASE 2	10.5 KIPS	102 KIPS	±47.5 KIPS	±41.5 KIPS	8.1 KIPS
25 TON DUMP HOPPERS	C	BASE 3	2.5 KIPS	13.8 KIPS	±3.7 KIPS	±1.0 KIPS	2.4 KIPS
WEIGH CONVEYOR	D	BASE 4	1.25 KIPS	4.5 KIPS	0 KIPS	±1 KIPS	1 KIPS
	D	BASE 5	1.5 KIPS	9 KIPS	0 KIPS	±2 KIPS	2 KIPS
TRUSS CONVEYOR	E	BASE 6	1 KIPS	0.5 KIPS	±0.5 KIPS	±0.3 KIPS	3.0 KIPS
	F	BASE 7	1.8 KIPS	1.0 KIPS	±5.4 KIPS	±0.4 KIPS	3.3 KIPS
	F	BASE 8	2.3 KIPS	1.3 KIPS	±6.3 KIPS	±0.5 KIPS	4.2 KIPS
	F	BASE 9	2.3 KIPS	1.0 KIPS	±8.7 KIPS	±0.5 KIPS	3.3 KIPS

GENERAL NOTES FOR EQUIPMENT MENTIONED ON THIS DRAWING

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2. CONCRETE FOUNDATIONS TO HAVE SUFFICIENT AREA SO AS NOT TO EXCEED THE ALLOWABLE BEARING VALUE OF THE SOIL AND MUST HAVE THE NECESSARY WEIGHT TO RESIST UPLIFT FROM LOADS AS SPECIFIED.
3. SEE EQUIPMENT ELEVATIONS FOR GENERAL ARRANGEMENT LAYOUT.
4. ANCHOR BOLTS TO BE FURNISHED BY THE CUSTOMER. (PLATES CAN BE WELDED TO STEEL IN CONC.)
5. STEPHENS MFG. CO., INC. ASSUMES NO RESPONSIBILITY FOR THE FOUNDATION EXCEPT TO FURNISH DIMENSIONS OF COLUMN BASES AND ANCHOR BOLTS LAYOUT. TOPS OF ALL CONCRETE PIERS MUST BE LEVEL AND IN SAME HORIZONTAL PLANE WITH ALLOWANCE FOR FINAL GROUTING.

DESIGN CRITERIA

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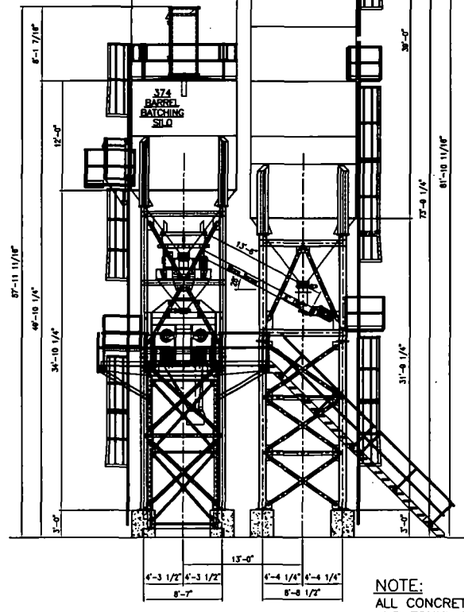
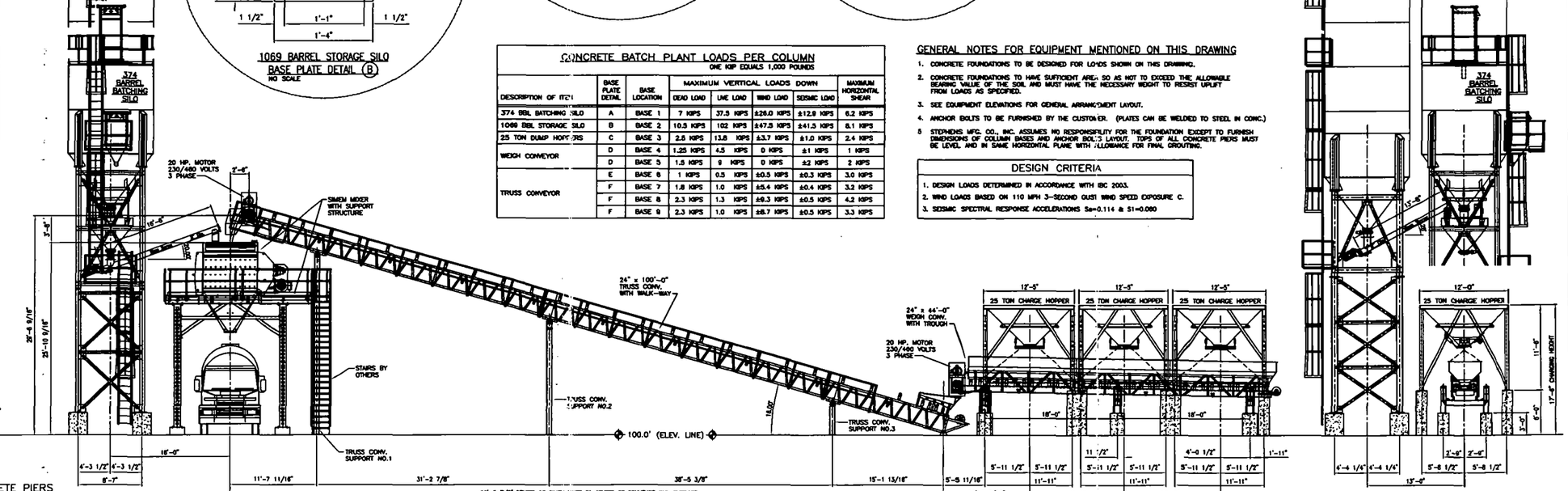
2. WIND LOADS BASED ON 110 MPH 3-SECOND GUST WIND SPEED EXPOSURE C.
3. SEISMIC SPECTRAL RESPONSE ACCELERATIONS Ss=0.114 & S1=0.060



LEFT END VIEW

NOTE:
ALL CONCRETE PIERS AND FOUNDATIONS BY THE CUSTOMER



SILO'S SIMEM MIXER & STAND 24" BELT x 100'-0" TRUSS CONVEYOR ELEVATION HOPPERS & WEIGH BELT CONVEYOR

RIGHT END VIEW

NO.	DATE	REVISION
2	01-25-08	ADDED EQUIPMENT LOADS & UPDATED SIMEM MIXER PLATFORM & STAIRS
1	01-18-08	RE-LOCATED SILO'S & STAIRS

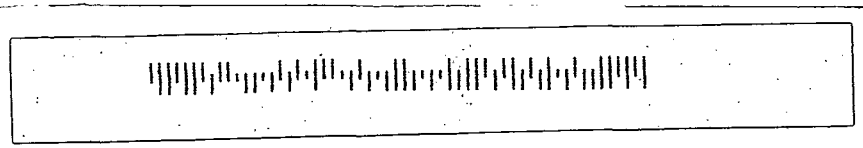
DRAWN BY: RTK
DATE: 01-11-08
SCALE: NONE

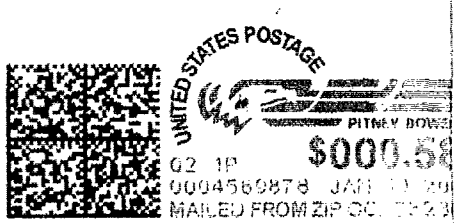
Stephens
TOMPKINSVILLE, KY. 42167

FOR: CDS CENTRAL MIX
TALLAHASSEE, FLORIDA

TITLE: SPECIAL PRECAST BATCH PLANT ELEVATIONS AND PLAN VIEW

JOB NO. 50131
SHEET NO. 1 OF 1
REV. NO. 2





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