

**BEFORE THE ILLINOIS POLLUTION CONTROL BOARD**

Crestview Farms )  
(Property Identification Number ) PCB No.  
17-05-30-300-002 ) (Tax Certification)  
)

**NOTICE**

Steve Santarelli  
Illinois Department of Revenue  
101 West Jefferson  
Post Office Box 19033  
Springfield, Illinois 62794

John Theirrault, Clerk  
Illinois Pollution Control Board  
James R. Thompson Center  
100 West Randolph Street, Suite 11-500  
Chicago, Illinois 60601

David Meurer  
1593 Meridian Road  
Ashton, Illinois 61006

**PLEASE TAKE NOTICE** that I have today filed with the Office of the Clerk of the Pollution Control Board an **APPEARANCE AND THE RECOMMENDATION OF THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY**, a copy of which is herewith served upon you.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

By: Christine M. Zeivel  
Christine M. Zeivel  
Assistant Counsel  
Division of Legal Counsel

DATED: December 26, 2018

Illinois Environmental Protection Agency  
1021 North Grand Avenue East  
Post Office Box 19276  
Springfield, Illinois 62794-9276  
(217) 782-5544

**THIS FILING IS SUBMITTED ON RECYCLED PAPER**

**BEFORE THE ILLINOIS POLLUTION CONTROL BOARD**

**Crestview Farms** )  
**(Property Identification Number** ) **PCB No.**  
**17-05-30-300-002)** ) **(Tax Certification)**  
 )

**A P P E A R A N C E**

The undersigned, as one of its attorneys, hereby enters an APPEARANCE on behalf of Respondent, Illinois Environmental Protection Agency.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

By: Christine M Zeivel  
Christine M. Zeivel  
Assistant Counsel  
Division of Legal Counsel

DATED: November 15, 2018

Illinois Environmental Protection Agency  
1021 North Grand Avenue East  
Post Office Box 19276  
Springfield, Illinois 62794-9276  
(217)782-5544

**THIS FILING IS SUBMITTED ON RECYCLED PAPER**

**BEFORE THE ILLINOIS POLLUTION CONTROL BOARD**

**Crestview Farms** )  
**(Property Identification Number** ) **PCB No.**  
**17-05-30-300-002)** ) **(Tax Certification)**  
)

**RECOMMENDATION OF THE ILLINOIS**  
**ENVIRONMENTAL PROTECTION AGENCY**

The Illinois Environmental Protection Agency ("Illinois EPA") hereby files its Recommendation pursuant to Section 125.204 of the regulations of the Illinois Pollution Control Board ("Board"), 35 Ill. Adm. Code 125.204.

1. On March 2, 2018 the Illinois EPA received a request from David Meurer (log number TC-139311, Exhibit A) for an Illinois EPA recommendation regarding the tax certification of water pollution control facilities pursuant to 35 Ill. Adm. Code 125.204.
2. The facility's address is: 

Crestview Farms  
1614 Meridian Road  
Ashton, IL 61006

The proposed water pollution control facilities in this request are located at the SW ¼ of Section 30, T39N, R1E of the 3rd P.M. in Lee County, at the above street address and consist of the following:

Livestock waste management facilities consisting of one concrete manure pit (approximately 192 ft. x 100.66 ft. x 10 ft. deep) with eight manure pump out pits (approximately 5 ft. x. 6 ft. x. 10 ft. deep each), and the portion of concrete slotted flooring over the manure pit.

These livestock waste management facilities are used to collect, transport and/or store livestock waste prior to cropland application, and is further described in Exhibit A.

3. Section 11-10 of the Property Tax Code, 35 ILCS 200/11-10 (2016), and Section 125.200(a) of the Board's regulations, 35 Ill. Adm. Code 125.200(a), define

"pollution control facilities" as:

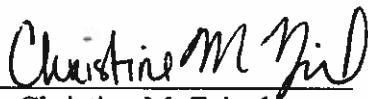
any system, method, construction, device or appliance appurtenant thereto or any portion of any building or equipment, that is designed, constructed, installed or operated for the primary purpose of: eliminating, preventing, or reducing air or water pollution ...or treating, pretreating, modifying or disposing of any potential solid, liquid or gaseous pollutant which if released without treatment, pretreatment modification or disposal might be harmful, detrimental or offensive to human, plant or animal life, or to property.

4. In order to receive preferential tax treatment as pursuant to 35 ILCS 200/11-5 (2016), pollution control facilities must be certified as such by the Board, 35 ILCS 200/11-20 (2016) and 35 Ill. Adm. Code 125.200(a).
5. Upon receipt of a tax certification application, the Illinois EPA must file a recommendation on the application with the Board, 35 Ill Adm. Code 125.204(a).
6. Based on the information in the application and the purpose of the facility, it is the Illinois EPA's engineering judgment that the described facilities may be considered "pollution control facilities," pursuant to 35 Ill. Adm. Code 125.200(a), with the primary purpose of eliminating, preventing, or reducing

water pollution, or as otherwise provided in 35 Ill. Adm. Code 125.200, and are eligible for tax certification from the Board.

WHEREFORE, the Illinois EPA recommends that the Board issue the requested tax certification.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

By:   
Christine M. Zeivel  
Assistant Counsel  
Division of Legal Counsel

Dated: December 26, 2018  
Illinois Environmental Protection Agency  
1021 North Grand Ave. East  
P.O. Box 19276  
Springfield, Illinois 62794-9276  
217/782-5544



# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 • (217) 782-3397

BRUCE RAUNER, GOVERNOR

ALEC MESSINA, DIRECTOR

## Memorandum

To: Charles Gunnarson, Division of Legal Counsel

From: Darin LeCrone, Manager, Industrial Unit, Permit Section

*DEL*

Date: NOV 19 2018

Re: Crestview Farms – Ashton  
Recommendation of Tax Certification  
Log # TC-139311  
BOW ID: W1038160002  
Property Identification # 17-05-30-300-002

The Bureau of Water received a request on March 2, 2018 from David Meurer of Crestview Farms for an Illinois EPA recommendation regarding the tax certification of water pollution control facilities pursuant to 35 Il. Adm. Code 125.204. We offer the following recommendation.

The water pollution control facilities in this request include the following:

Crestview Farms  
1614 Meridian Road  
Ashton, IL 61006

SW quarter of Section 30, Township 39N, Range 1E of the 3<sup>rd</sup> PM in Lee County.

Livestock waste management facilities consisting of one concrete manure pit (approximately 192 ft. x 100.66 ft. x 10 ft. deep) with 8 concrete manure pump out pits (approximately 5 ft. x 6 ft. x 10 ft. deep each) and the portion of concrete slotted flooring over the manure pit.

These livestock waste management facilities are used to collect, transport and/or store livestock wastes prior to cropland application.

These facilities are further described in the enclosed applications and supporting documents.

Based on the information included in this submittal, it is our engineering judgment that the above proposed facilities may be considered "Pollution Control Facilities" under 35 IAC 125.200(a), with the primary purpose of eliminating, preventing, or reducing water pollution, or as otherwise provided in this section, and therefore eligible for tax certification from the Illinois Pollution Control Board. The Bureau of Water therefore recommends that the Board issue the requested tax certification for these facilities.

If you have any questions regarding the above, please contact Thaddeus Faught at 217/782-0610.

DEL:TJF:TC-139311.docx

cc: Tax Cert File

**Faught, Thaddeus**

---

**From:** Pauline Meurer <crestviewfarms1@yahoo.com>  
**Sent:** Friday, November 16, 2018 9:31 AM  
**To:** Faught, Thaddeus  
**Subject:** [External] EPA Tax Exemption

To Whom It May Concern:

We are requesting that the eight pump out pits on our swine confinement facility #TC-139311 in Ashton, Illinois, be included in our tax certification. They were a required part of the original building plan, therefore, are part of this structure.

Thank you,

Crestview Farms  
Dave Meurer  
815-739 2766

Project Name: Crestview Farms  
Reviewer: Thaddeus Fugate  
Log No.: TC-129311

Location: Ashton  
Date: 7/27/18  
Type:  Agchem  
 Livestock

Applicant: Crestview Farms  
David Meurer  
1573 Meridian Road  
Ashton, IL 61006

Contact: Charles Meurer  
Phone: 815-973-5030

Facility: Crestview Farms 815-739-2766  
1614 Meridian Road  
Ashton, IL 61006

Property ID: 17-05-30-300-002

Legal Description: <sup>SW 1/4</sup> Section 30, T39N, R1E of 3<sup>rd</sup> P.M.

County: Lee

Date Control Devices Installed: 12/6-8/2017

Provided Fair Cash Value:   
Not a new form

Signature: Signed by David Meurer

Title: OWNER

Wastes:  Livestock waste is applied to cropland.  
 Agrichemical rinsate and spillage is recycled through the facility and/or land applied.  
 Other: \_\_\_\_\_

Physical Description of Pollution Control Devices:

• one concrete manure pit (100 ft dia x 192 ft x 10 ft. deep) w/ 8 concrete support pits (each 5 ft x 6 ft x 10 ft dia)

Facility is described in attached plans and dimensions are verified in the 9/27/2018 letter from the applicant.

Waste flow diagram is attached to 9/27/2018 letter from applicant.

Other: inclusion of pits requested by applicant in a 11/16/18 email



September 27, 2018

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OCT - 2 2018

SW/WS/IFAS

Mr. Thaddeus Faught, P.E.  
Illinois EPA, P.O. Box 19276  
Springfield  
Illinois 62794-9276

Dear Mr. Faught,

RE: Email concerning application for tax certification of hog facility

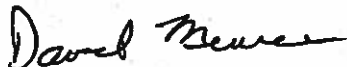
In reference to your e-mail of September 18, 2018, this should be the information you need.

Question 1 – Inside Dimension is 100'8" x 192' x 10' deep

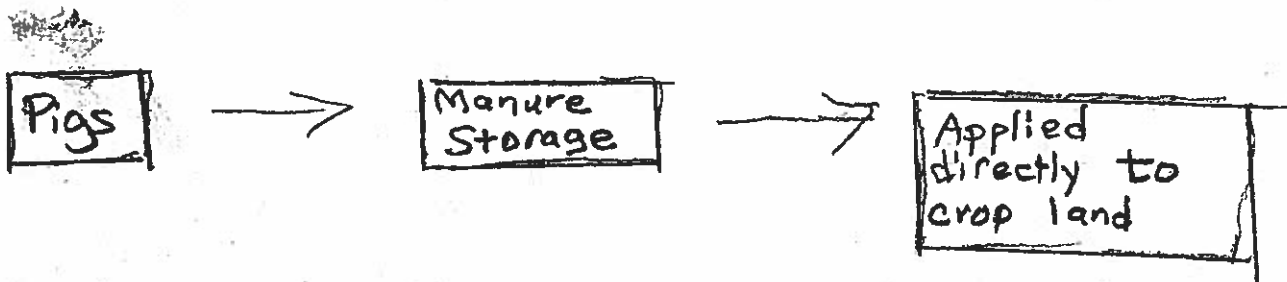
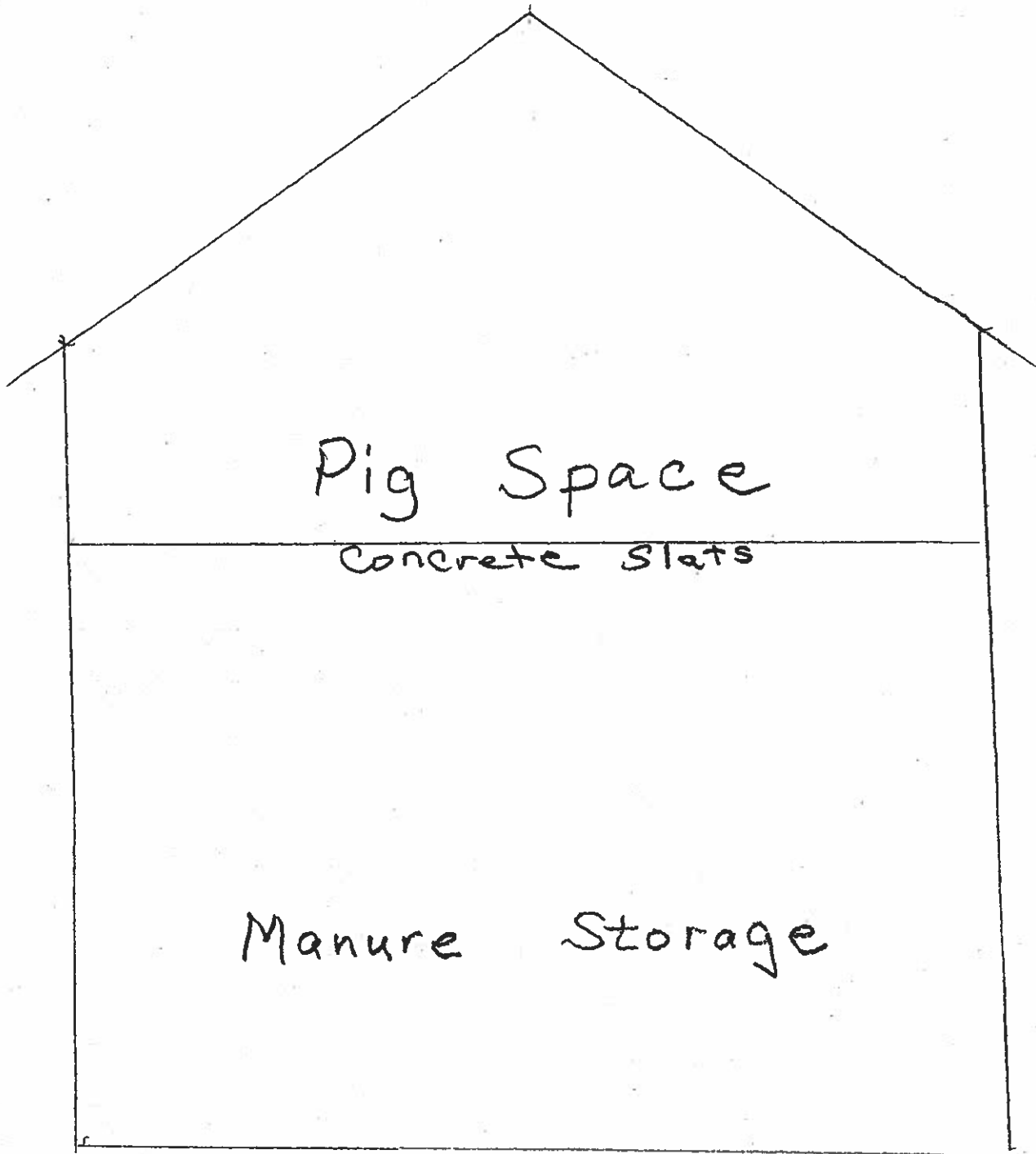
Question 2 – The material of construction is concrete, slats and pits

Question 3 - Please see enclosed drawing of schematic/flow diagram showing the flow of the manure that is enclosed.

Thank you,



Dave Meurer  
Crestview Farms  
1593 Meridian Road, Ashton, IL  
815-739-2766



**Faught, Thaddeus**

---

**From:** Faught, Thaddeus  
**Sent:** Wednesday, September 5, 2018 1:48 PM  
**To:** 'crestviewfarms1@yahoo.com'  
**Subject:** Illinois EPA tax certification application for swine facility TC-139311

Mr. Meurer,

I am reviewing your application for tax certification for your hog facility in Ashton.  
I had a few items that I will need to complete my review.

They are:

- 1) Please verify the size/dimensions of the all structures you are requesting certification for. The application form states dimensions for the confinement building are 100 x 198'8". However, the attached plans seem to show (if using outside dimensions) the confinement building is 101'8" x 193'. Please verify correct dimensions, including depth(s), for all structures requested.
- 2) Please verify the material of construction (concrete, etc.) for the confinement building and slats.
- 3) Please provide a schematic/flow diagram showing the flow of the waste (manure) from its generation (animals) to the final disposal (land application) to verify that the facility is a pollution control facility. I basically understand where the waste goes and how it is handled, but we need to have a clear flow diagram that documents all of the steps the waste takes from the animals to the slats/pit to land application (and any steps in between). A simple box diagram/flow chart would work perfectly.

Please let me know if you have any questions on what I need.

Thanks,  
Thaddeus Faught, P.E.  
Illinois EPA  
217-782-3362

# Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (2-17) 782-3397

## Application for Certification (Property Tax Treatment) Pollution Control Facility

### FOR AGENCY USE ONLY

File Number: _____	Date Rec'd: _____
Certification Number: _____	Date: _____

Facility Type (check one):  Air  Water

This form is to be used for any application for certification of property tax treatment for a pollution control facility for air or water from the Illinois EPA. Separate applications must be completed for each control facility claimed. Do not mix types (air and water). Where both air and water operations are related, file two applications.

If attachments are needed, record them consecutively on an index sheet.

You may complete this form online, save a copy locally, print, sign and submit it to:

Illinois EPA  
 Attention: Ray E. Pilapil, Permit Section  
 Division of Air Pollution Control  
 1021 North Grand Avenue East, P.O. Box 19276  
 Springfield, IL 62794-9276

Illinois EPA  
 Attention: Al Keller, Permit Section  
 Division of Water Pollution Control  
 1021 North Grand Avenue East, P.O. Box 19276  
 Springfield, IL 62794-9276

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 MAR 02 2018  
 I EPA  
 BOWWPC/PERMIT SECTION

### I. Applicant Information:

Company Name: <u>Crestview Farms</u>	Person to Contact for Additional Details: <u>Charles Meurer</u>
Person Authorized to Receive Certification: <u>David Meurer</u>	Street Address: <u>1593 Meridian Road</u>
Street Address: <u>1593 Meridian Road</u>	City: <u>Ashton</u> State: <u>IL</u>
City: <u>Ashton</u> State: <u>IL</u>	Zip: <u>61006</u> Phone: <u>815-739-2766</u>
Zip: <u>61006</u> Phone: <u>815-739-2766</u>	Email Address: <u>crestviewfarms1@yahoo.com</u>
Email Address: <u>crestviewfarms1@yahoo.com</u>	Email Address: <u>crestviewfarms1@yahoo.com</u>

### II. Facility Information:

Facility Location: Quarter Section: 30 Township: Reynolds Range: R-1-E  
 Municipality: \_\_\_\_\_ Township: Reynolds

Note: A plat map location is requested for facilities located outside of municipal boundaries.

Address: 1614 Meridian Rd City: Ashton  
 State: IL Zip Code: 61006 County: LOE Book Number: 1702 Page 51-59  
 Property Index Number: 17-05-30-300-002

Note: The Property Index Number is the numerical reference used to identify a parcel of real property for assessment and taxation purposes.

### Manufacturing Operations Information:

Nature of Operations Conducted at the Above Location:

Hog Operations - Barn that holds 2500 hogs - wean - market

### Permit Information:

WPC Construction Permit Number: <u>NA</u>	Date Issued: _____
NPDES Permit Number: <u>NA</u>	Date Issued: _____ Exp. Date: _____
APC Construction Permit Number: <u>NA</u>	Date Issued: _____
APC Operating Permit Number: <u>NA</u>	Date Issued: _____ Exp. Date: _____

Note: Submit copies of all relevant permits issued by local pollution control agencies. (e.g. MSD Construction Permit)

This Agency is authorized to request this information under 415 ILCS 5/4(b)(2012). Disclosure of this information is voluntary and no penalties will result from the failure to provide the information. However, the absence of the information could prevent your application from being processed or could result in denial of your application.

**Manufacturing Process Information:**

Please provide information on the manufacturing process and materials on which pollution control facility is used, including each major piece of equipment associated with the pollution control facility (or low sulfur dioxide emission coal fueled device).  
Description of the Process:

NA

**Materials Used in the Process:**

NA

**Pollution Control Facility Information:**

Please provide a narrative description of the pollution control facility (or low sulfur dioxide emission coal fueled device), and an explanation of why its primary purpose is to eliminate, prevent or reduce pollution. State the type of control facility, as well as a narrative description and a process flow diagram describing the pollution control facility. Include an average analysis of the influent and effluent of the control facility stating the collection efficiency, if applicable.

Describe the Pollution Control Facility (or Low Sulfur Dioxide Emission Coal Fueled Device):

Slatted floor confinement building 100x198'8"

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MAR 02 2018  
I EPA  
BOWWPC/PERMIT SECTION

Describe the Primary Purpose of the Pollution Control Facility (or Low Sulfur Dioxide Emission Coal Fueled Device):

This facility provides waste storage for the manure laden wastewater until the waste is land applied at the appropriate agronomic rates

Identify the statute or regulation (federal or state), or local ordinance, if any, requiring the installation of the subject pollution control facility (or low sulfur dioxide emission coal fueled device).

The Livestock management facilities act and the Natural Resources Conservation Service agency waste storage facility, Practice code (317) we met regarding pollution control devices that were installed.

**Nature of Contaminants or Pollutants:**

List air contaminants or water pollution substances released as effluents to the manufacturing processes. Also list the final disposal of any contaminants removed from the manufacturing processes.

Contaminant or Pollutant	Material Retained, Captured or Recovered	
	Description	Disposal or Use
Swine manure	Liquid	Slatted floor confinement pit
Washdown water	Liquid	Slatted floor confinement pit

Note: Contaminant or pollutant means that which is removed from the process by the pollution control facility.

**Point(s) of Waste Water Discharge:**

Identify the location of the discharge to the receiving stream. This will typically refer to a source of water pollution but can include water-carried wastes from air pollution control facilities.

Plans and Specifications Attached  Yes  No

Submit Drawings, which clearly show:

- (a) Point(s) of discharge to receiving stream; and
- (b) Sewers and process piping to and from the control facility.

Are contaminants (or residues) collected by the control facility?  Yes  No

Note: If the collected contaminants are disposed of other than as wastes, state the disposition of the materials, and the value dollars reclaimed by the sale or reuse of the collected substances. State the cost of reclamation and related expense.

**Project Status:**

Date Installation Completed: 12-6-18

Provide the date the pollution control facility was first placed into service and operated. If not, explain.

*Dec 8, 2017 The facility was placed into service.*

Status of installation on date of application:

*Completed*

**III. Verification and Signature:**

The following information is submitted in accordance with the Illinois Property Tax Code, as amended, and to the best of my knowledge is true and correct.

**Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))**

David Meurer Printed Name: Owner Title:

For incorporated entities, signature should be from an authorized corporate representative.

David Meurer Signature: 2-10-18 Date:

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MAR 02 2018

IEPA  
BOW/WPC/PERMIT SECTION



**SPECIFICATIONS**

**6" PERFORATED DRAIN TILE**

1. PERFORATED DRAIN TILE SHALL BE 4" DIAMETER, HAVE 1/2" DIAMETER OPENINGS AND CONFORMING TO AASHTO M-294 AND M-252 AND ASTM F-405 AND F-667.

2. GRANULAR BACKFILL SHALL BE USED AROUND DRAIN TILE.

**6" SOLID WALL DRAIN TILE**

1. SOLID WALL DRAIN TILE SHALL BE 6" DIAMETER, CONFORM TO AASHTO M-294 AND M-252 AND ASTM F-405 AND F-667.

2. LAST 10' OF THE SUBSURFACE DRAIN SHALL BE SOLID PVC SCHEDULE 40 PIPE OR HEAVIER WITH AN ASTM RATING OF D1785. DOWNSTREAM END OF THE PIPE SHALL HAVE AN ANIMAL GUARD INSTALLED.

3. ANIMAL GUARD SHALL BE A 4" PLASTIC SOLID PIPE AS MANUFACTURED BY HAVILAND OR APPROVED EQUAL.

4. ITEM 2 AND 3 SHALL BE INSTALLED IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS FOR PRACTICE CODE 606 SUBSURFACE DRAIN.

BENCHMARK CHISELED ON TOP OF EXISTING CONCRETE WALL ELEV. 788.66

MERIDAN ROAD

NE 774.83 EXISTING 6" TILE  
LE. 774.0

6" SOLID DRAIN  
180360 I.P. @ 1.4%  
EXTEND TO DAYLIGHT

DRAIN TILE INSPECTION PORT  
CONSTRUCTED OF PVC SDR 35  
PIPE OR EQUAL W/CAP ON TOP

777.43  
LE. 779.0

PROPOSED SLATTED FLOOR CONFINEMENT BARN  
TOP OF SLATS = 790.0  
788.43

FORM A DRAIN  
PERFORATED DRAIN TILE  
AROUND COMPLETE EXTERIOR OF BUILDING



REVISIONS			
NO.	DATE	BY	REMARKS

M.L.W.  
CHECKED  
A.A.W.  
APPROVED  
M.L.W.



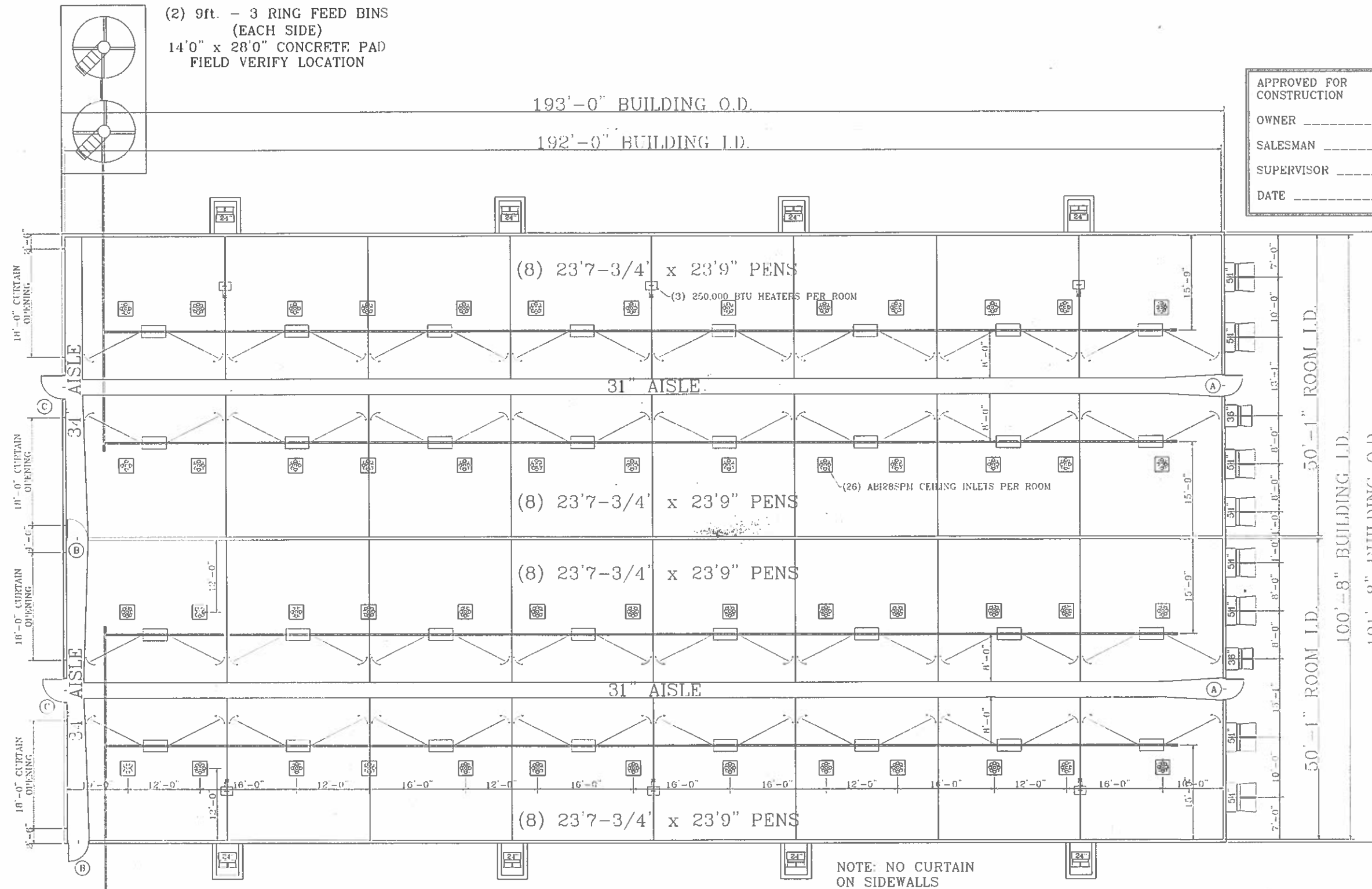
WAGNER CONSULTING & AGRICULTURE  
709 WEST OAK STREET  
LENA, ILLINOIS, 61048  
815-275-7642  
WAGNERCONSULTAG@MEDIACOMBB.NET

CONTACT JULIE AT 811 OR 800-892-0123  
With the following:  
County \_\_\_\_\_  
City/Township \_\_\_\_\_  
Sec & 1/4 Sec No \_\_\_\_\_  
48 HOURS (2 working days) BEFORE YOU DIG



CRESTVIEW FARMS  
1614 MERIDAN ROAD  
ASHTON, ILLINOIS 61006  
SUBSURFACE DRAIN DETAILS

PROJECT NO.  
14W17  
DATE  
11/28/17  
SHEET NO.  
3  
OF (14) SHEETS



(2) 9ft. - 3 RING FEED BINS  
(EACH SIDE)  
14'0" x 28'0" CONCRETE PAD  
FIELD VERIFY LOCATION

APPROVED FOR CONSTRUCTION

OWNER \_\_\_\_\_

SALESMAN \_\_\_\_\_

SUPERVISOR \_\_\_\_\_

DATE \_\_\_\_\_

DOOR SCHEDULE

LOCATION	SIZE	PART NUMBER	DOOR TYPE	CONCRETE R.O.	FRAMED ROUGH OPENING	WINDOW
(A)	36"	AJ71001 (NO DEADBOLT)	BARN GUARD STEEL DOOR	44-1/2"	40-1/2" x 81-1/2"	----
(B)	36"	3668(L or R)	HOG SLAT HEAVY DUTY BARN DOOR	43-1/2"	39-1/2" x 82-1/2"	----
(C)	42"	4268(L or R)	HOG SLAT HEAVY DUTY BARN DOOR	49-1/2"	45-1/2" x 82-1/2"	YES

NOTE: AJ71062/AJ71001 IS 1" SHORTER THAN OTHER DOORS

HOG SLAT  
MIDWEST DIVISION  
1112 W. WASHINGTON NORTH  
HUNTSVILLE, TN 35894  
PHONE: 1-515-332-4014  
TOLL FREE: 1-800-294-1014  
FAX: 515-332-1675



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REVISIONS & DESCRIPTION

NO.	DATE	DESCRIPTION

DATE: 01/14/2017  
DRAWN BY: E HALL  
FILE NAME: MEURER  
PLOTTER: MEURER  
SAMPLES: MEURER

FARM NAME: DAVE MEURER  
DESCRIPTION: FINISHER FLOOR PLAN



14'0" x 28'0" CONCRETE PAD  
FIELD VERIFY LOCATION

193'-10" CONCRETE FIRST POUR

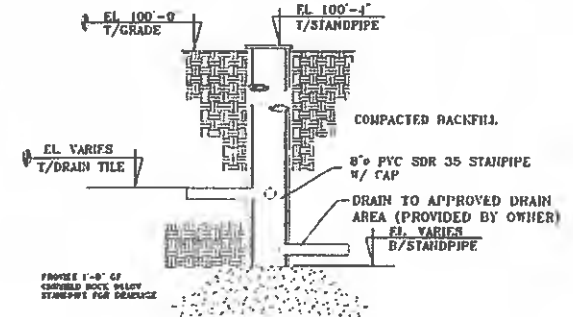
193'-4" PFI O.D.

193'-0" BUILDING O.D.

193'-0" BUILDING I.D.

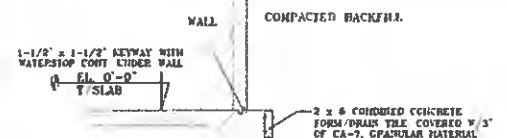
165.9'

24'-1" 48'-0" 48'-0" 48'-0" 24'-11"



SECTION - STANDPIPE

SCALE NONE  
BACKFILL IS PERFORMED WITH GRAVEL, SAND, SILT, AND CLAY MIXTURES (LESS THAN 50 PERCENT FINES), WITH COARSE SAND WITH SILT OR CLAY (LESS THAN 50 PERCENT FINES), OR CLEANER GRANULAR MATERIAL.



DRAIN TILE AT WALL

SCALE NONE

APPROVED FOR CONSTRUCTION

OWNER \_\_\_\_\_

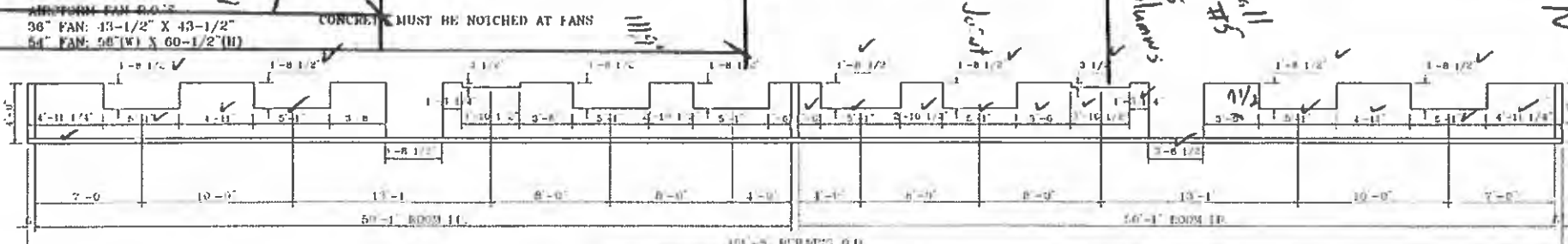
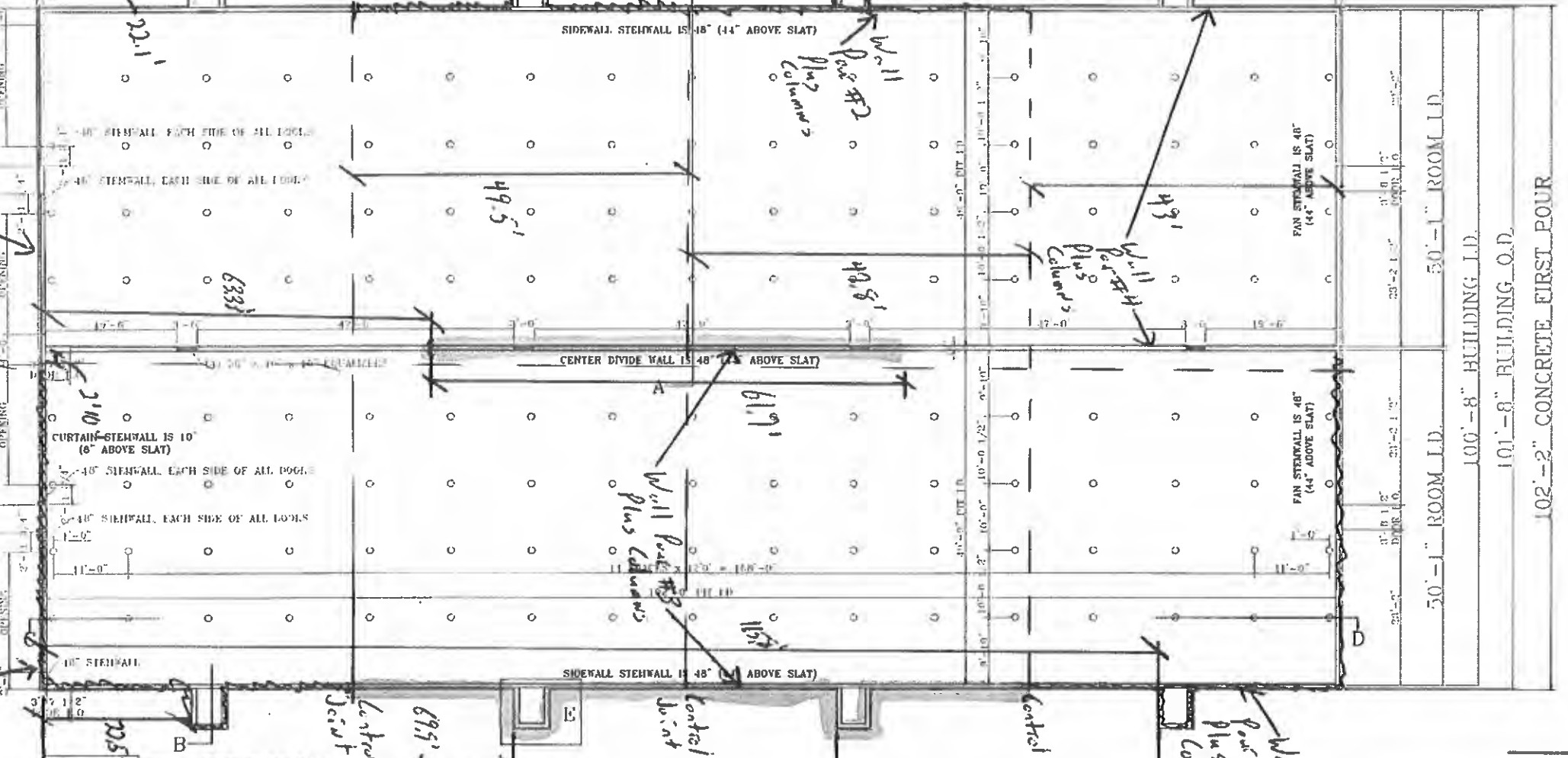
SALESMAN \_\_\_\_\_

SUPERVISOR \_\_\_\_\_

DATE \_\_\_\_\_

W/ Columns  
Post #1

W/ Columns  
Post #2



FAN ENDWALL

FROM OUTSIDE  
NOT TO SCALE

HOG SLAT  
INDUSTRIAL DIVISION  
1112 20TH STREET NORTH  
HUMBOLET, LA 70048  
PHONE 1-515-332-1014  
TOLL FREE: 1-800-294-1014  
FAX: 515-332-1075



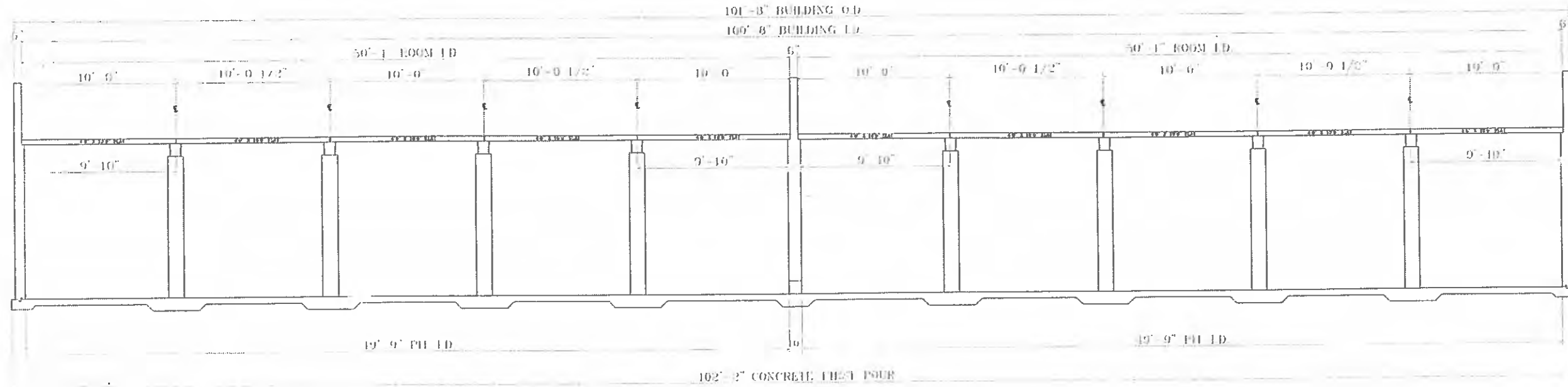
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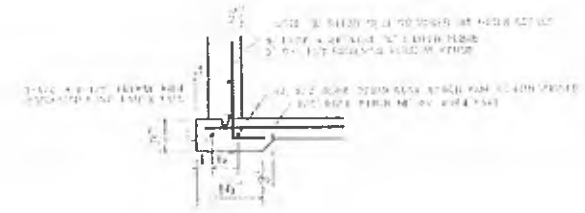
REVISIONS & DESCRIPTION:

DATE	BY	DESCRIPTION
07/16/2017	P. DEJARDY	7. REVISION

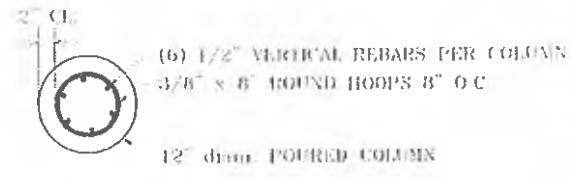
FARM NAME:	DAVE MEURER
DESCRIPTION:	FINISHER CONCRETE PLAN



PIT CONCRETE CROSS SECTION



REBAR DETAIL UNDER WALL  
(NOT TO SCALE)



COLUMN TOP VIEW  
(NOT TO SCALE)

THE CONCRETE MANURE PIT WALLS ARE DESIGNED FOR HEAVY EQUIPMENT TO BE A MINIMUM OF 5 FT FROM THE CONCRETE MANURE PIT WALLS. THE SEPERATION DISTANCE IS PROVIDED BY THE PUMP OUT PITS. THE REINFORCED CONCRETE PUMP-OUT PITS ARE DESIGNED TO ALLOW HEAVY EQUIPMENT TO BE NEAR THE EXTERIOR PUMP OUT PIT WALL.

APPROVED FOR CONSTRUCTION

OWNER \_\_\_\_\_

SALESMAN \_\_\_\_\_

SUPERVISOR \_\_\_\_\_

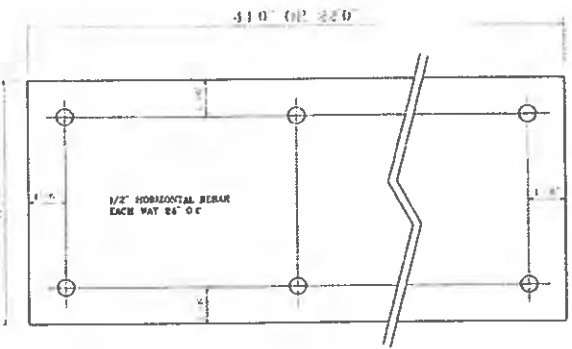
DATE \_\_\_\_\_

**GENERAL CONCRETE NOTES**

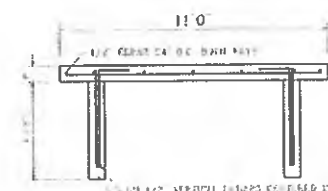
**SUBGRADE PREPARATION**  
THE SUBGRADE SHALL HAVE A MINIMUM BEARING CAPACITY OF 2,000 PSF. LARGE ROCKS, ORGANIC VEGETATION, OR FOREIGN MATERIAL SHALL BE REMOVED.

**CONCRETE.**

1. ALL WORK SHALL CONFORM TO THE LOCAL BUILDING CODES, AND THE GENERAL NOTES.
2. ALL CONCRETE WORK SHALL CONFORM TO THE "ACI MANUAL OF CONCRETE PRACTICE, ACI 301" AND THE "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ACI 318".
3. ALL CONCRETE SHALL HAVE A MINIMUM OF 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI UNLESS NOTED.
4. FINISHES OF CONCRETE, WALLS- STANDARD FORM FINISH; FLOORS- POWER SCREED FINISH.
5. ALL REINFORCING STEEL SHALL BE DEFORMED BARS OF NEW BILLET STEEL, CONFORMING TO ASTM A615, GRADE 60.
6. REBAR- MINIMUM 24" LAP ON ALL REINFORCING, MINIMUM 3'0" BETWEEN LAPS IN REBAR.
7. ALL FORMS AND REINFORCEMENT MUST BE PLACED, INSPECTED AND APPROVED PRIOR TO THE CONCRETE PLACEMENT.



FEED BIN CONCRETE DETAIL



NOTE START FIRST ANCHOR BOLT 10" FROM INSIDE WALL AND THEN 4'0" O.C.

**ANCHOR BOLT PLACEMENT**

ANCHOR BOLTS SPACED CORRECTLY

SUP. INITIALS \_\_\_\_\_

DATE \_\_\_\_\_

CONST. MGR. \_\_\_\_\_

DATE \_\_\_\_\_

HOG SLAT  
MIDWEST DIVISION  
1112 20TH STREET NORTH  
HOUMA, LA 70304  
PHONE: 504-833-1111  
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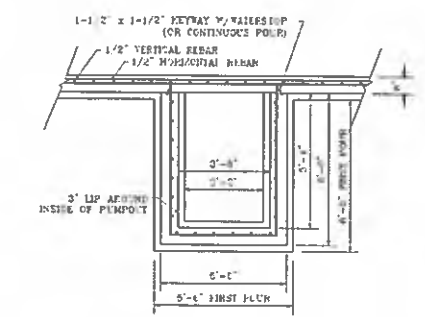
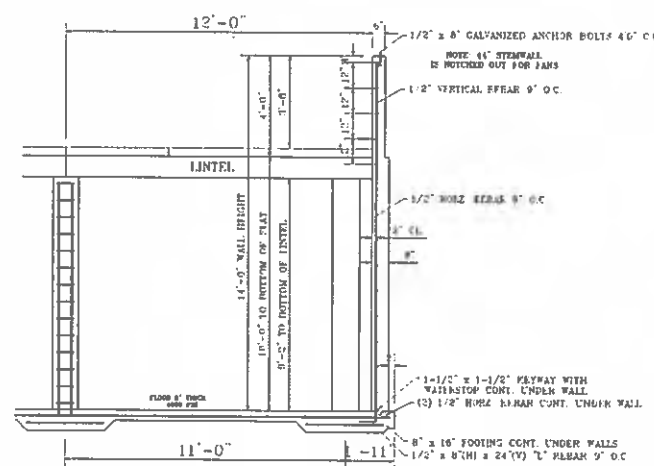
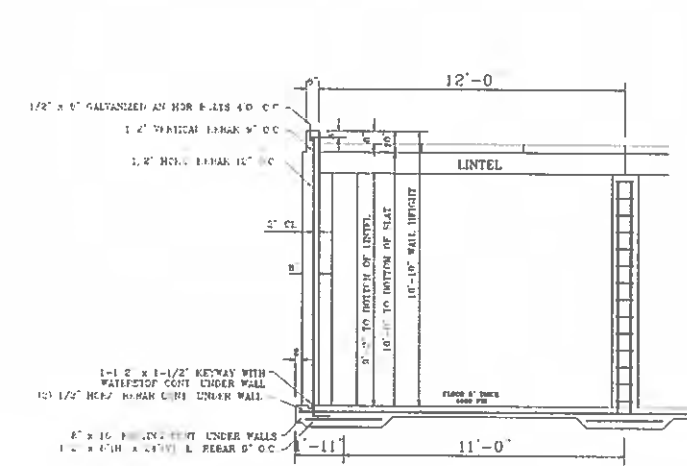
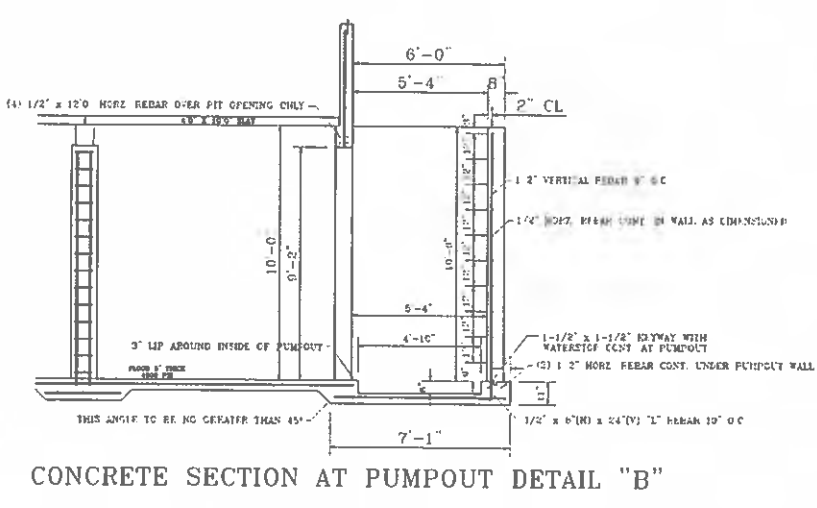
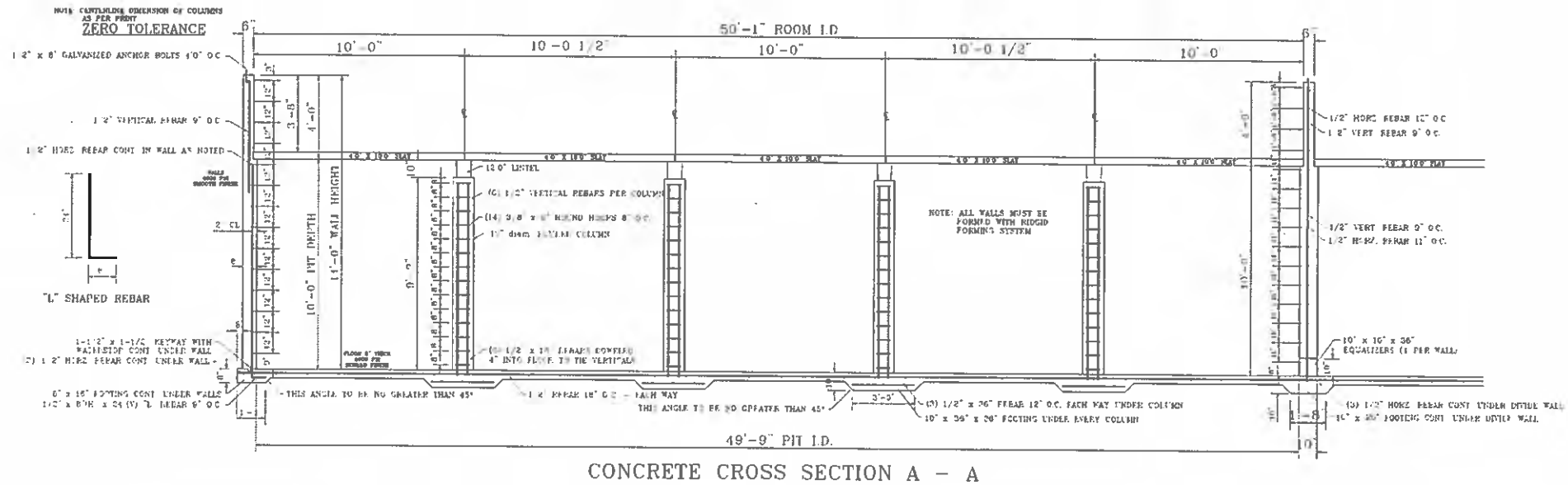
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DATE: 04/14/2017	DESIGNED BY: F. BENJAMIN	CHECKED BY: MEURER	SCALE: AS SHOWN
------------------	--------------------------	--------------------	-----------------

FARM NAME: DAVE MEURER	DESCRIPTION: FINISHER CONCRETE DETAILS
------------------------	--



CORRECT NUMBER OF HOOPS IN COLUMNS.

SUP. INITIALS \_\_\_\_\_

DATE \_\_\_\_\_

CONST. MGR. \_\_\_\_\_

DATE \_\_\_\_\_

FLOOR AND FOOTING DEPTHS VERIFIED.

SUP. INITIALS \_\_\_\_\_

DATE \_\_\_\_\_

CONST. MGR. \_\_\_\_\_

DATE \_\_\_\_\_

SLAT MUST SIT MINIMUM 2" ON LINTIL.

SUP. INITIALS \_\_\_\_\_

DATE \_\_\_\_\_

CONST. MGR. \_\_\_\_\_

DATE \_\_\_\_\_

SLAT MUST SIT MINIMUM 2" ON SIDEWALL LFDGE.

SUP. INITIALS \_\_\_\_\_

DATE \_\_\_\_\_

CONST. MGR. \_\_\_\_\_

DATE \_\_\_\_\_

WALL REBAR SPACED CORRECTLY.

SUP. INITIALS \_\_\_\_\_

DATE \_\_\_\_\_

CONST. MGR. \_\_\_\_\_

DATE \_\_\_\_\_

LINTEL MUST SIT MINIMUM 4 INCHES ON COLUMN.

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DATE \_\_\_\_\_

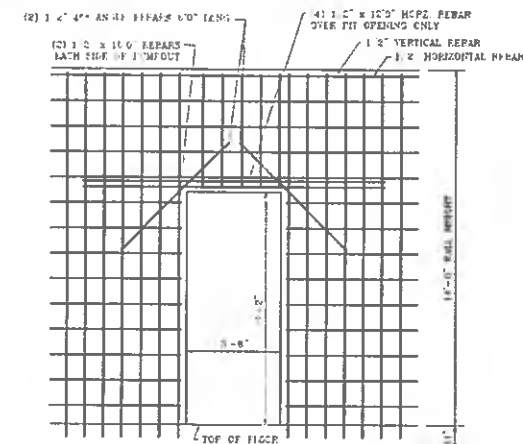
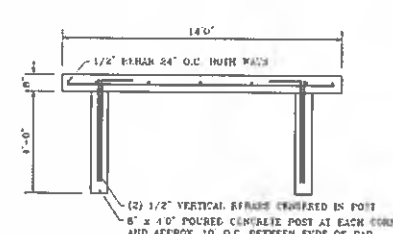
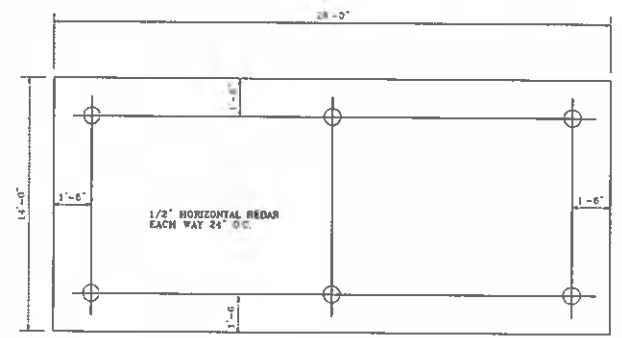
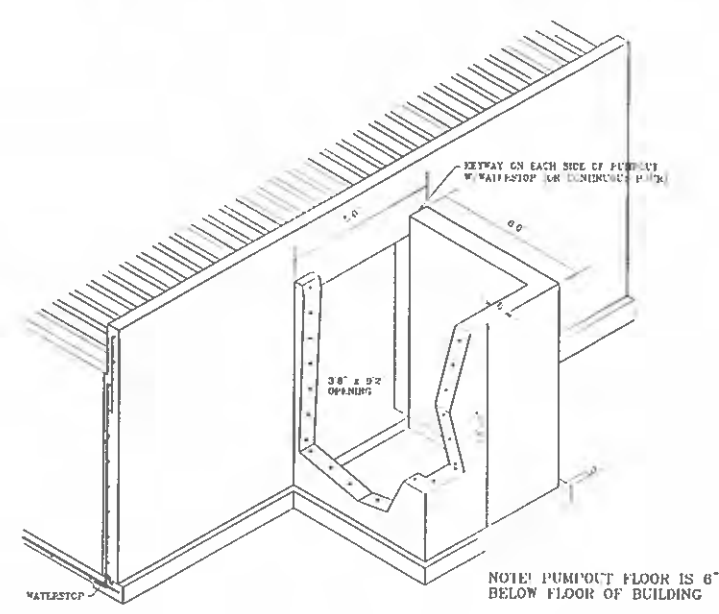
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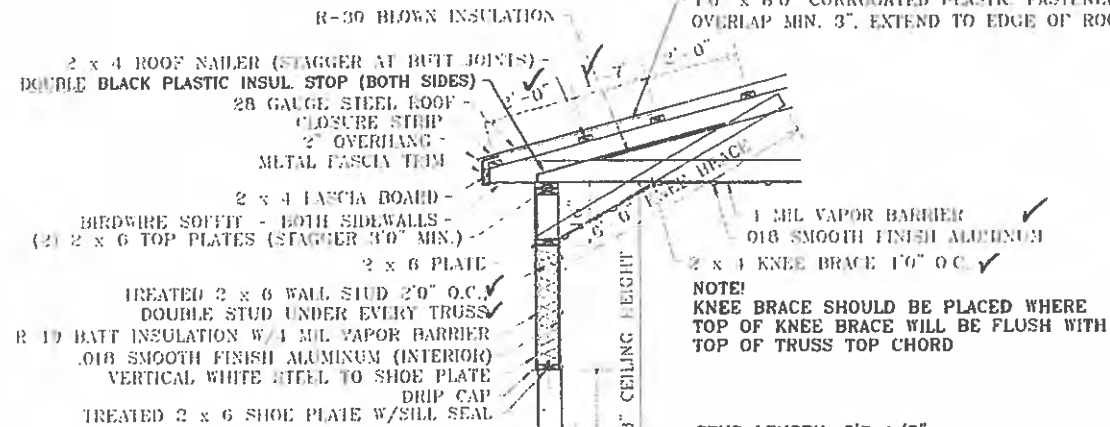
FARM NAME: DAVE MEURER  
 DESCRIPTION: FINISHER WALL SECTIONS #1

PAGE: 4

NOTE!  
DO NOT FASTEN INSULATION  
STOP TO PURLIN. FASTEN TO  
BOTTOM PART OF TRUSS TOP  
CHORD WITH SCREWS OR SHINGLE  
NAILS; DO NOT STAPLE

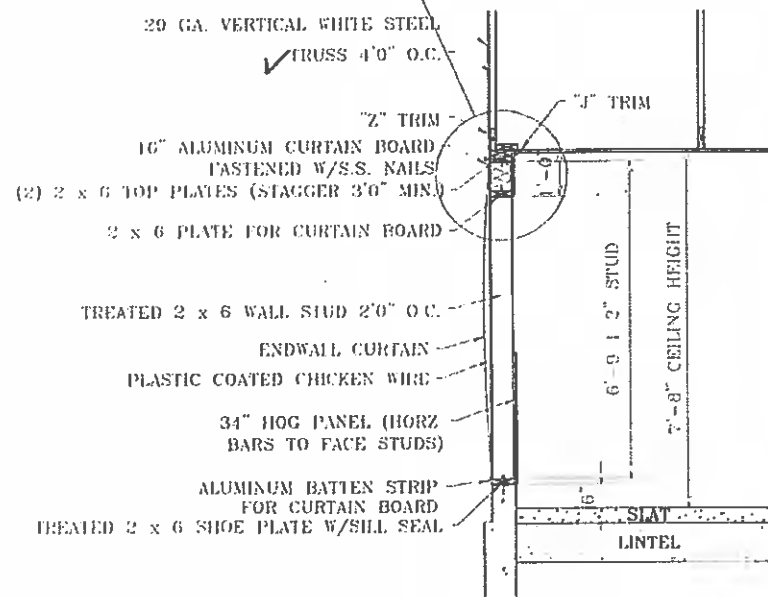
NOTE: 4'0" x 8'0" CORRUGATED PLASTIC WILL BE PLACED  
BETWEEN ROOF METAL AND WOOD PURLINS AT OVERHANGS ONLY.  
NOTE PURLIN PLACEMENT FOR PLASTIC ATTACHMENT.  
USE 1 1/2" SCREWS AT PLASTIC ONLY

1'0" x 8'0" CORRUGATED PLASTIC FASTENED W/1-1/2" SCREWS.  
OVERLAP MIN. 3". EXTEND TO EDGE OF ROOF STEEL.



FINISHING  
SIDEWALL SECTION

NOTE: INSTALL CUP HOOK ABOVE  
MIDDLE RIB ON 16" CURTAIN BOARD  
TO PULL CURTAIN TIGHT  
AGAINST BOTTOM OF MIDDLE RIB



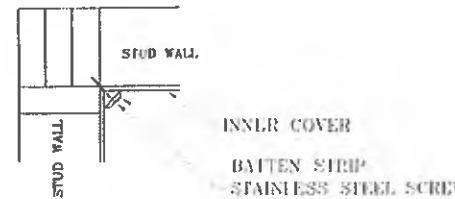
FINISHING ENDWALL  
SECTION AT CURTAIN

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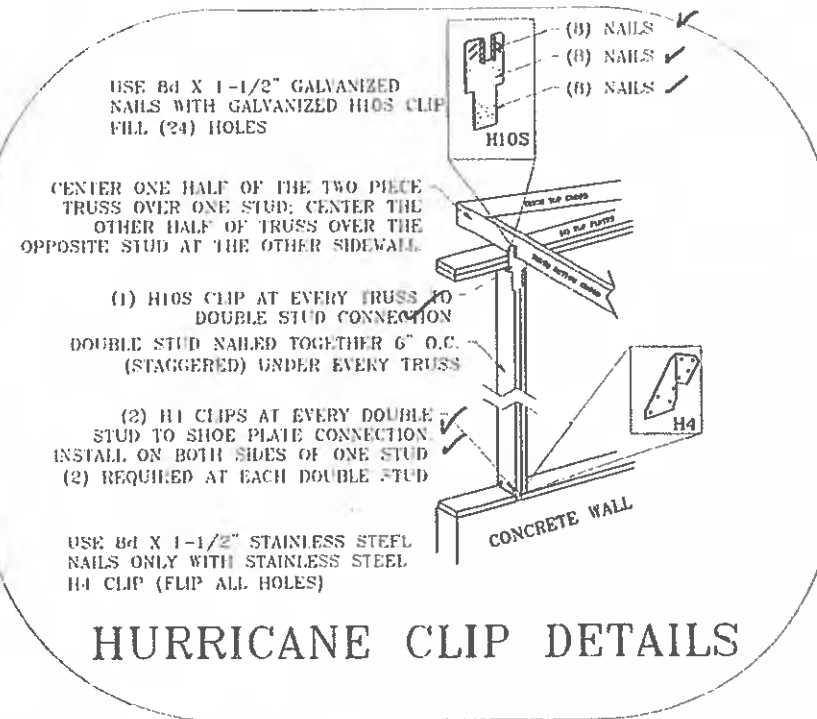
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SUPERVISOR \_\_\_\_\_  
DATE \_\_\_\_\_

CORRUGATED PLASTIC  
INSTALLED CORRECTLY.

SUP. INITIALS \_\_\_\_\_  
DATE \_\_\_\_\_  
CONST. MGR. \_\_\_\_\_  
DATE \_\_\_\_\_



CORNER DETAIL  
TYPICAL ALL WALLS



HURRICANE CLIP DETAILS

NOTE: DOUBLE STUD EACH SIDE OF FANS FOR FAN GUARD PLACEMENT

NOTE: USE TREATED LUMBER AROUND FANS

R-30 BLOWN INSULATION  
2 x 6 FOR "J" TRIM PLACEMENT  
(2) 2 x 6 TOP PLATES (STAGGER 3'0" MIN.)  
TREATED 2 x 6 FOR FAN PLACEMENT  
"J" TRIM AROUND FAN ONLY

54" FAN

AIRSTORM FAN R.O.'S:  
36" FAN: 43-1/2" X 43-1/2"  
54" FAN: 58" (W) X 60-1/2" (H)

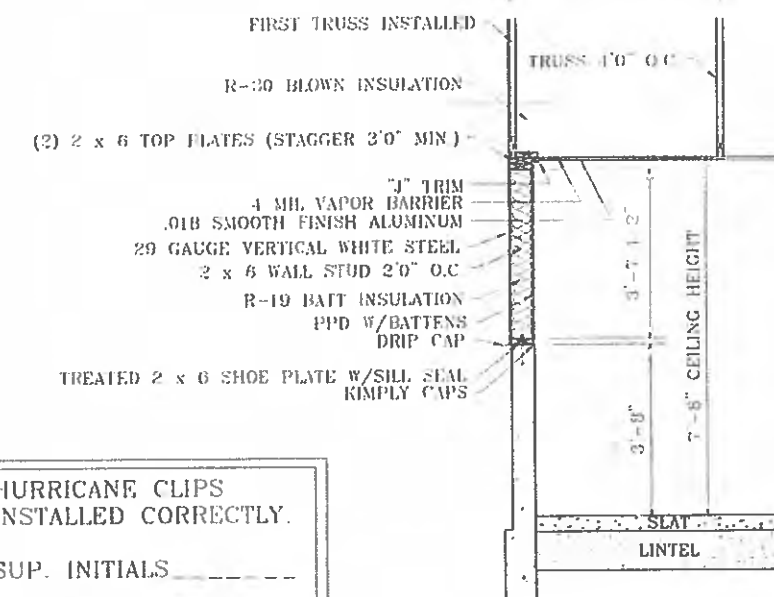
BATTEN STRIP UNDER FANS  
TREATED 2 x 6 SHOE PLATE W/SILL SEAL  
KIMPLY CAPS

NOTE: 44" CONCRETE STEMWALL  
IS NOTCHED OUT AT FANS.



FINISHING ENDWALL  
SECTION AT FAN

NOTE: CENTER OF SECOND TRUSS IS 4'6" FROM OUTSIDE  
OF GABLE TRUSS FOR CEILING INSTALLATION.  
TRUSSES ARE 4'0" AFTERWARDS.



FINISHING TYPICAL  
ENDWALL SECTION

HURRICANE CLIPS  
INSTALLED CORRECTLY.

SUP. INITIALS \_\_\_\_\_  
DATE \_\_\_\_\_  
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DATE \_\_\_\_\_

HOG SLAT  
HURRICANE  
1112 207th STREET NORTH  
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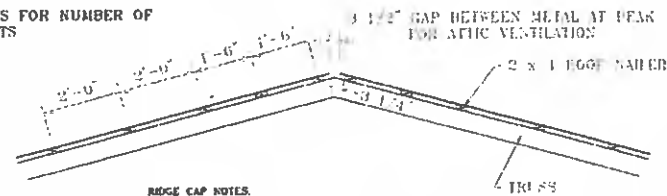
REVISIONS & DESCRIPTION:

DATE: 04/14/2017  
DRAWN BY: P. BEHANN  
FILED BY: MEURER  
CHECKED BY: MEURER  
SAMPLES

FARM NAME: DAVE MEURER  
DESCRIPTION: WALL SECTIONS #1

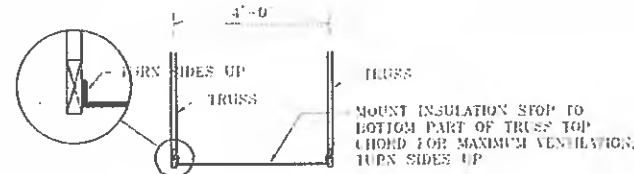
PAGE: 5

NOTE:  
SEE SPECS FOR NUMBER OF  
RIDGEVENTS



- RIDGE CAP NOTES:**
- 1) INSTALL FIRST ROOF RAILER BOARD 3-1/4" FROM PEAK OF TRUSS. SPACE FIRST (2) ROOF RAILER BOARDS 18" O.C. & REMAINING ROOF RAILER BOARDS 24" O.C.
  - 2) MAKE SURE ROOF METAL EXTENDS BEYOND ROOF RAILER 1-3/4" ON EACH SIDE OF THE TRUSS PEAK TO ENSURE A 3-1/2" GAP BETWEEN METAL AT PEAK
  - 3) SCREW OR NAIL RIDGE CAP
  - 4) USE CLOSURE STRIPS  
STRIPS MUST GO THROUGH ALL TRUSS TO HOLD IN PLACE. ADHESIVE IF NOT ENOUGH

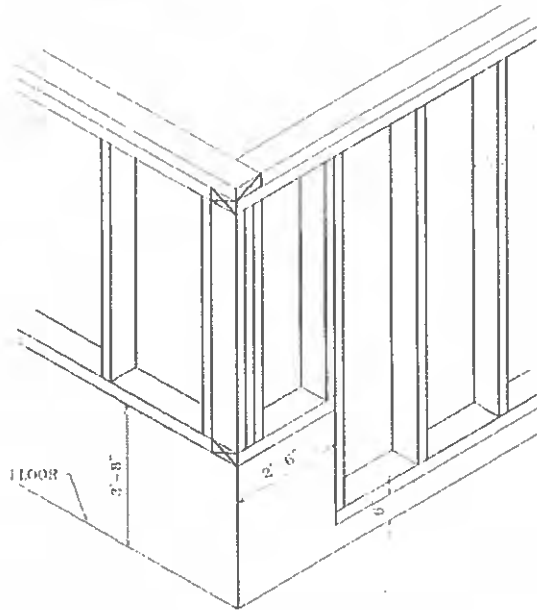
**RIDGE CAP DETAILS**



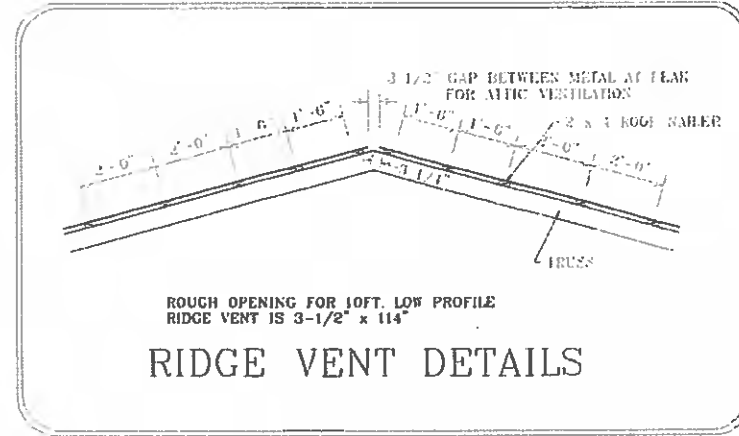
**INSULATION STOP  
DETAIL**

INSULATION STOP  
INSTALLED CORRECTLY.

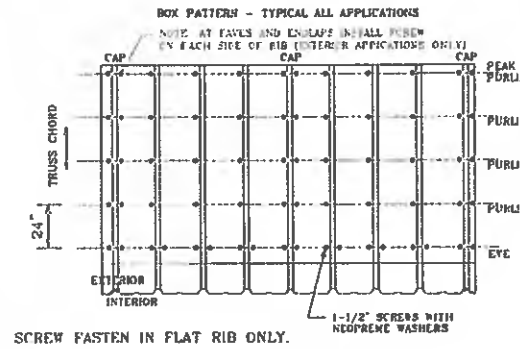
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DATE \_\_\_\_\_  
CONST. MGR. \_\_\_\_\_  
DATE \_\_\_\_\_



**FINISHING FRAMING CORNER DETAIL  
AT CURTAIN OPENING**



**RIDGE VENT DETAILS**



**METAL APPLICATIONS**

SCREW PATTERN FOLLOWED

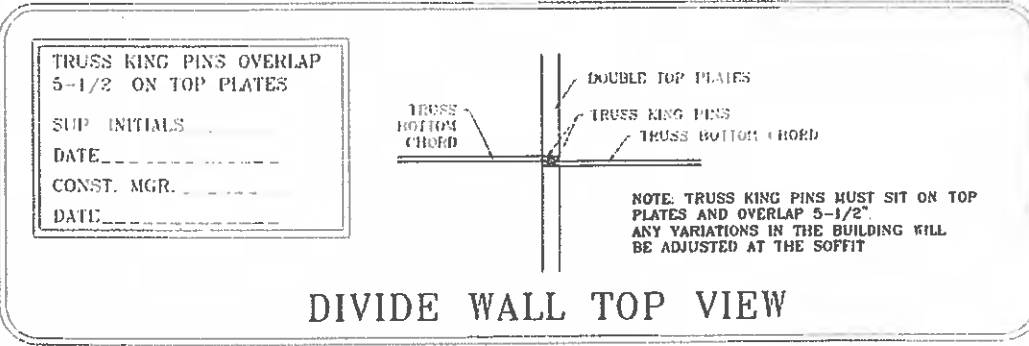
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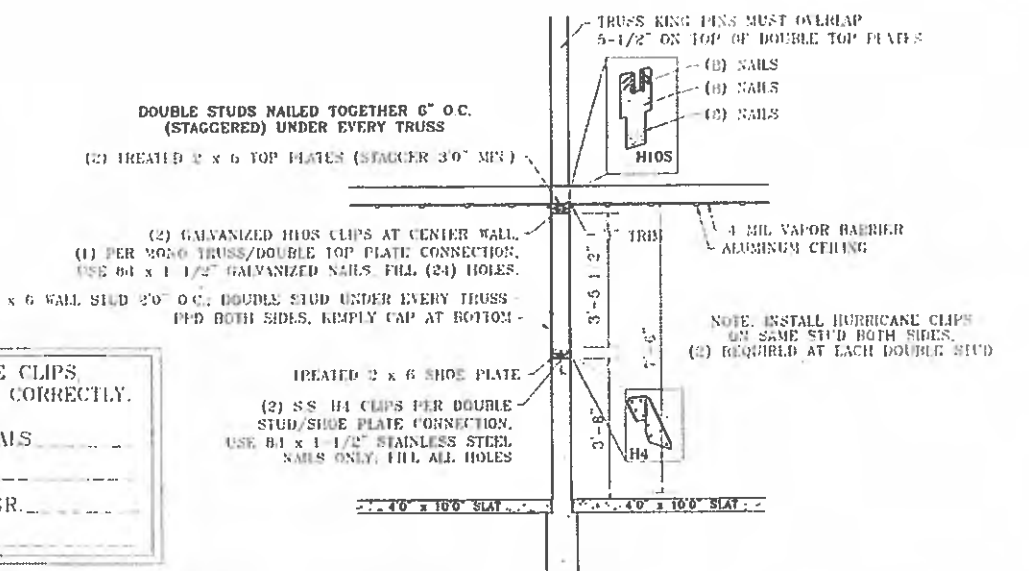
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DATE \_\_\_\_\_

PURLINS ARE ATTACHED TO  
TRUSSES WITH FASTENERS AS  
IN DRAWING (SIZE AND QTY)

SUP. INITIALS \_\_\_\_\_  
DATE \_\_\_\_\_  
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DATE \_\_\_\_\_



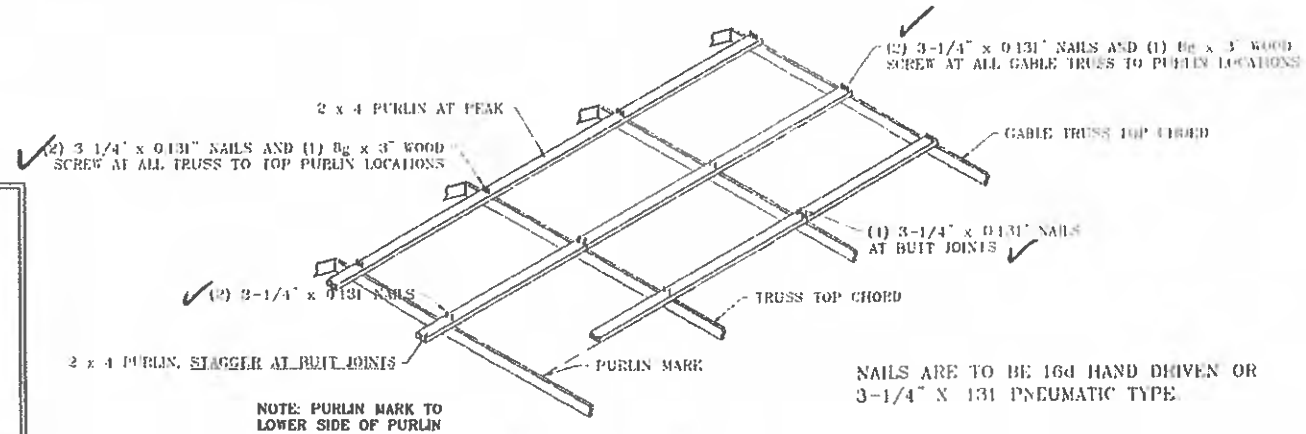
**DIVIDE WALL TOP VIEW**



**ROOM DIVIDE WALL**

HURRICANE CLIPS  
INSTALLED CORRECTLY.

SUP. INITIALS \_\_\_\_\_  
DATE \_\_\_\_\_  
CONST. MGR. \_\_\_\_\_  
DATE \_\_\_\_\_



**PURLIN TO TRUSS  
CONNECTION**

INSTALL (2) PNEUMATIC TYPE NAILS (3-1/4" X 0.131" AND (1) 8d X 3" WOOD SCREW AT EVERY TRUSS/PURLIN LOCATION AROUND "PERIMETER" OF ROOF. LOCATIONS INCLUDE EVERY GABLE TRUSS TO PURLIN CONNECTION AND EVERY PEAK/EAVE PURLIN TO TRUSS CONNECTION. ALL INTERIOR CONNECTIONS ARE (2) 3-1/4" X 0.131" PNEUMATIC NAILS.

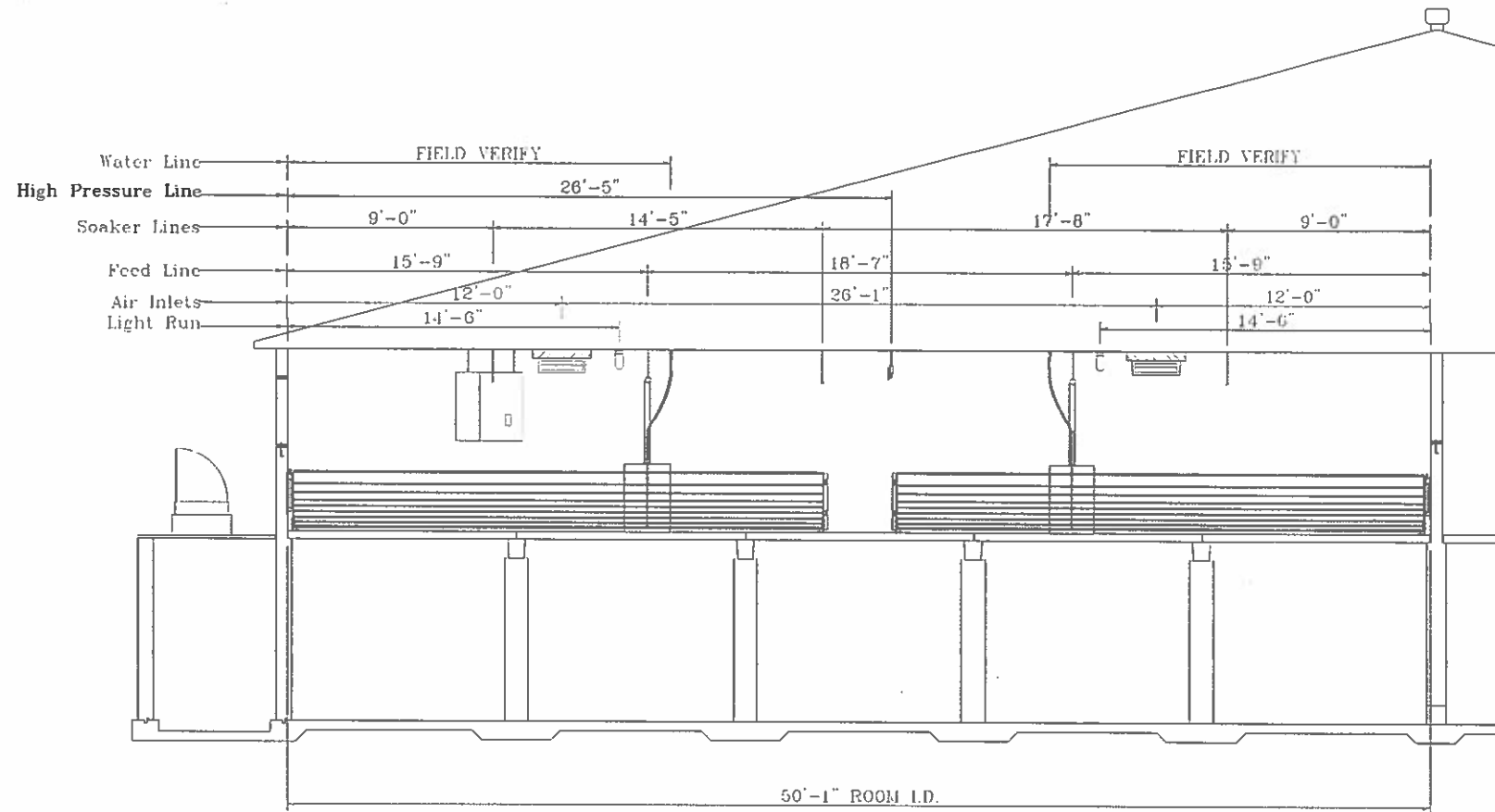
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DATE	04/14/2017
DESIGNED BY	P. BEAUMAIN
CHECKED BY	FILE NAME
APPROVED BY	MEASUR
	FINISH WALL SECTIONS #2
FIRM NAME:	DAVE MEURER
DESCRIPTION:	FINISH WALL SECTIONS #2
PAGE:	6





ONE ROOM CROSS-SECTION  
(LOOKING TOWARD FAN END)

NOTE: ALL OUTSIDE DOOR FRAMES MUST BE FASTENED TO THIS CONCRETE WALL WITH (2) 3/8" X 5" EXPANSION ANCHORS

GENERAL FRAMING SPECIFICATIONS

NAILS ARE TO BE 16d HAND DRIVEN OR 3-1/4" X 13d PNEUMATIC TYPE (EXCEPT 6d NAILS FOR PLYWOOD/INNERSEAL). ANY NAIL COMING INTO CONTACT WITH TREATED LUMBER MUST BE HOT DIPPED GALVANIZED.

STUDS: FASTEN 2 x 4 STUDS TO TOP AND BOTTOM PLATES: W/(2) 16d NAILS PER CONNECTION. FASTEN 2 x 6 STUDS W/(3) 16d NAILS PER CONNECTION. STUDS MUST BE FACE NAILED. TOP NAILING IS NOT ALLOWED.

DOUBLE TOP PLATES ARE TO BE NAILED EVERY 18" WITH 16d NAILS (3) NAILS FOR 2 x 6; (2) NAILS FOR 2 x 4.

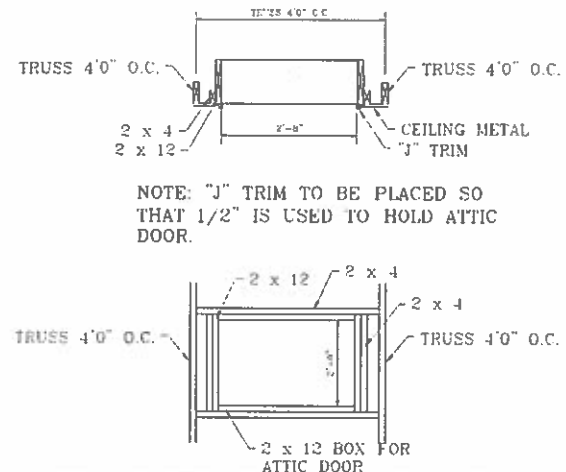
TRUSSES: SET TRUSS AND TIE NAIL TO TOP PLATE W/(3) 16d NAILS PER SIDE OF TRUSS. INSTALL TRUSS CLIP AS SOON AS TRUSSES ARE SET WITH NO LESS THAN (2) 1-1/2" NAILS PER SIDE OF TRUSS AND (3) 1-1/2" NAILS THROUGH TRUSS CLIP INTO TOP PLATE. ALL TRUSS BRACES MUST BE FASTENED TO TRUSS WITH A MIN. OF (2) 16d NAILS PER CONNECTION.

KNEE BRACES: FASTEN KNEE BRACE TO STUDS, BOTTOM TRUSS CHORD, AND TOP TRUSS CHORD WITH (3) 16d NAILS AT EACH CONNECTION.

SIDEWALL BRACES: USE 2 x 4 BRACES FOR 2 x 6 STUD WALL. SIDEWALL BRACE IS TO BE NAILED TO TOP PLATE, BOTTOM PLATE AND EACH STUD WITH (2) 16d NAILS AT EACH CONNECTION.

PLYWOOD/INNERSEAL TO BE NAILED WITH 6d NAILS WITH AN 8" SPACING.

BIRD WIRE IS INSTALLED TO EXTERIOR SIDE OF STUDS AND NAILED TO SHOE PLATE, TOP PLATE AND EVERY STUD WITH 3/4" POLYURETHANE STAPLE EVERY 10" TO 12". BATTEN STRIPS ARE INSTALLED AT SPLICES TO COVER ANY SHARP EDGES.



ATTIC DOOR OPENING  
(NOT TO SCALE)

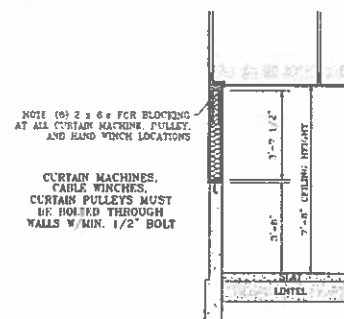
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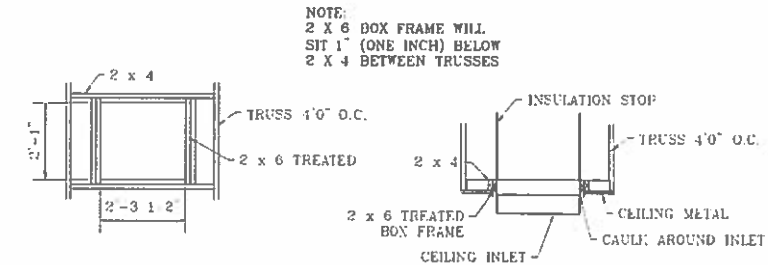
SALESMAN \_\_\_\_\_

SUPERVISOR \_\_\_\_\_

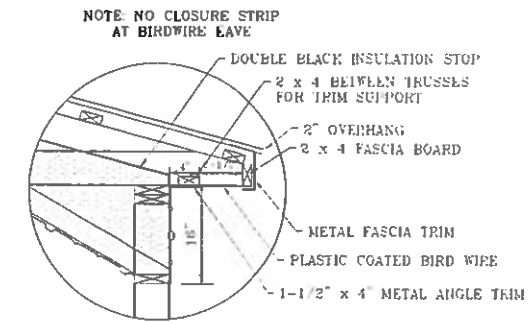
DATE \_\_\_\_\_



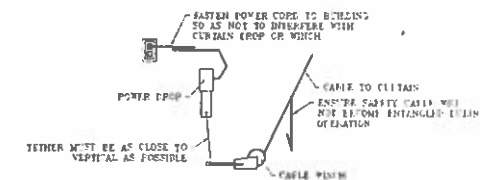
ENDWALL SECTION  
BLOCKING



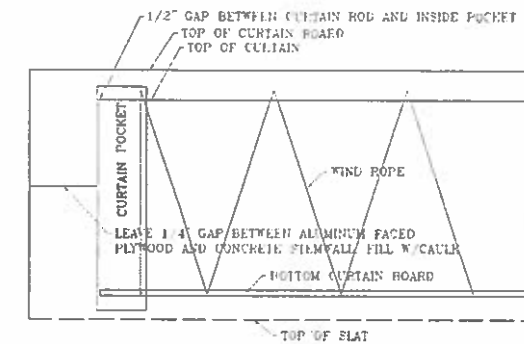
ROUGH OPENING FOR  
BI-28 CEILING INLET



FINISHING SOUTH SIDE  
SOFFIT DETAIL



TYPICAL CURTAIN DROP  
INSTALLATION DIAGRAM



CURTAIN POCKET DETAIL

INSTALL WIND ROPES AT CURTAIN POCKETS ONLY  
ROD IN CURTAIN HEM MUST BE 1/2" FROM TOUCHING CURTAIN POCKET AT EACH END  
CURTAIN SHOULD ALMOST TOUCH INSIDE OF CURTAIN POCKETS ON EACH END  
PLACE BATTEN STRIPS OVER ANY LOOSE ENDS OF BIRD WIRE

HOG SLAT  
MIDWEST DIVISION  
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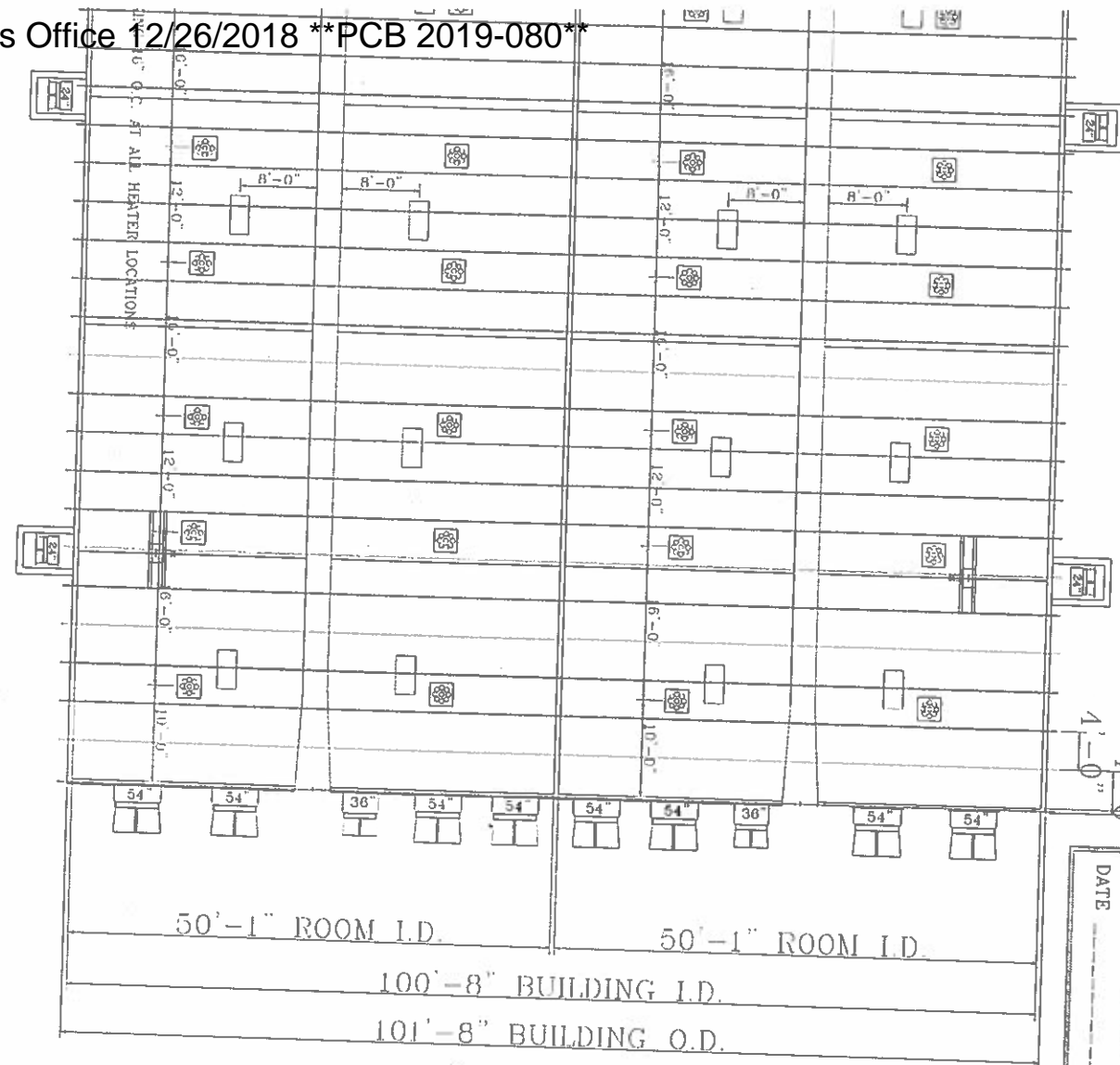


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DATE: 04/14/2017	DRAWN BY: P. BENJAMIN	CHECKED BY: M. MEURER	SCALE: AS SHOWN	SAMPLES:
FARM NAME: DAVE MEURER	DESCRIPTION: FINISHER WALL SECTIONS #3			
PAGE: 7				




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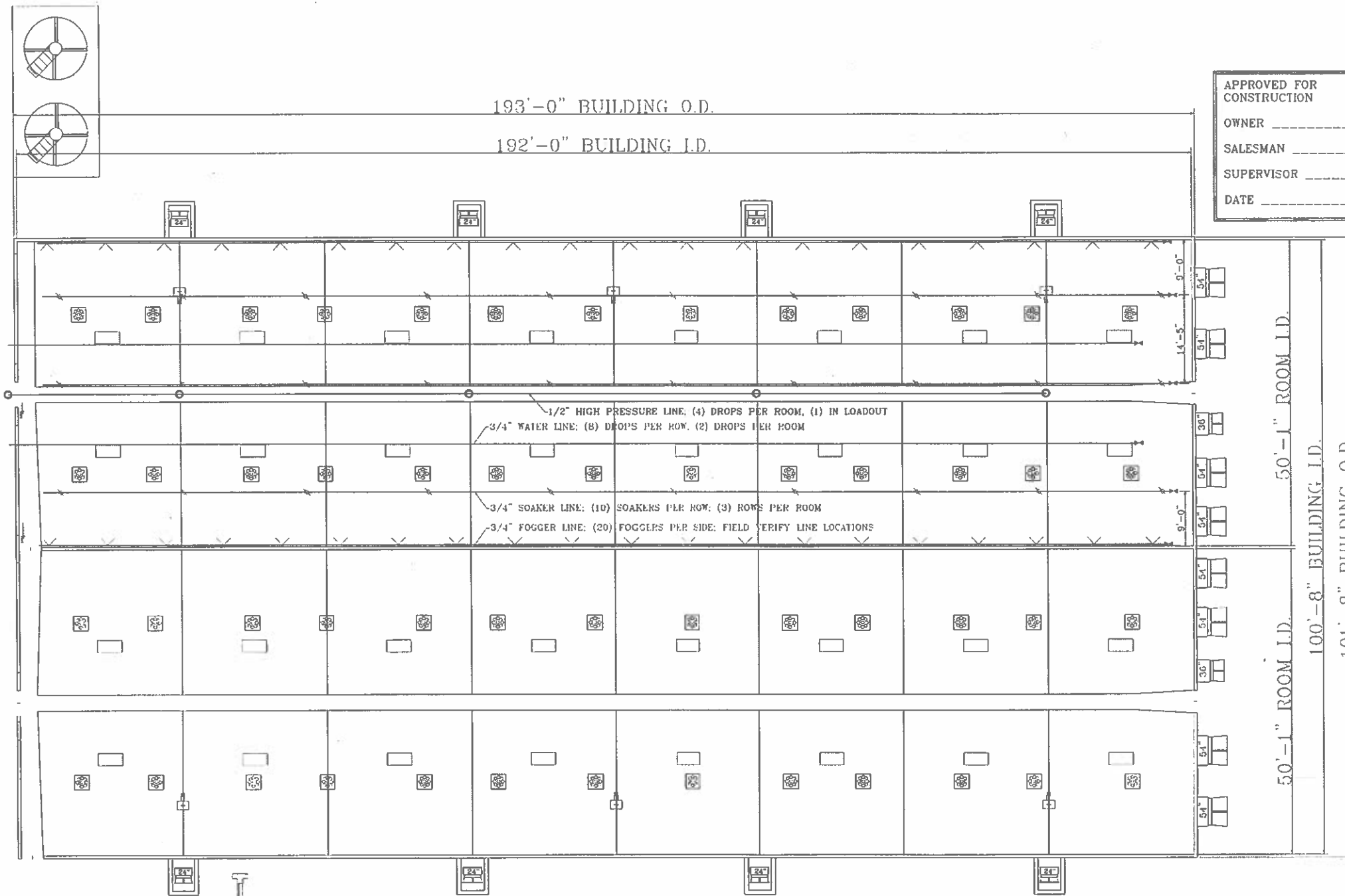
OWNER \_\_\_\_\_

SALESMAN \_\_\_\_\_

SUPERVISOR \_\_\_\_\_

DATE \_\_\_\_\_

PAGE: 8	FARM NAME: DAVE MEURER	DATE: 04/14/2017	REVISIONS & DESCRIPTION:	THIS DRAWING IS PREPARED FOR THE USE OF HOG SLAT INCORPORATED AND ITS SUB-CONTRACTORS. ANY REPRODUCTION OR OTHER USE OF THE DOCUMENT WITHOUT EXPRESSED WRITTEN CONSENT OF HOG SLAT INCORPORATED IS PROHIBITED. © 1996, HOG SLAT INCORPORATED	 <p>HOG SLAT MIDWEST DIVISION 1112 20TH STREET NORTH HUMBOLDT, IA 50548 PHONE: 1-515-332-4014 TOLL FREE: 1-800-294-4014 FAX: 515-332-1675</p>
	DESCRIPTION: TRUSS LAYOUT	DRAWN BY: F BENJAMIN	FILE NAME: MEURER		



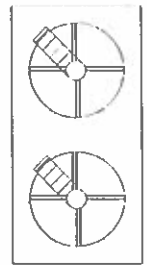
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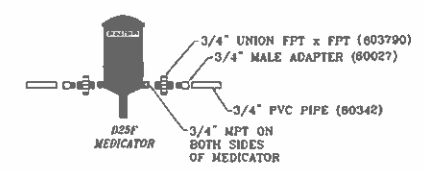
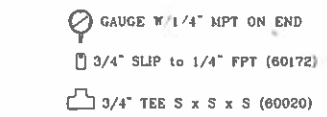
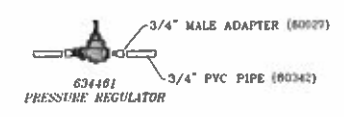
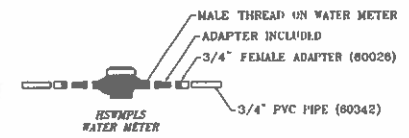
**HOGSLAT WET/DRY FEEDERS**

565701 Cargill plumbing kit (1/2" fpt on end)

050F quick coupler (1/2" mpt)

050D quick coupler (1/2" fpt)

1/2" mpt at top of Hog Slat wet/dry feeder



HOG SLAT  
MIDWEST DIVISION  
1112 20TH STREET NORTH  
HUMBERT IA 50548  
PHONE: 1-515-332-1014  
TOLL FREE: 1-800-394-4014  
FAX: 515-332-1675



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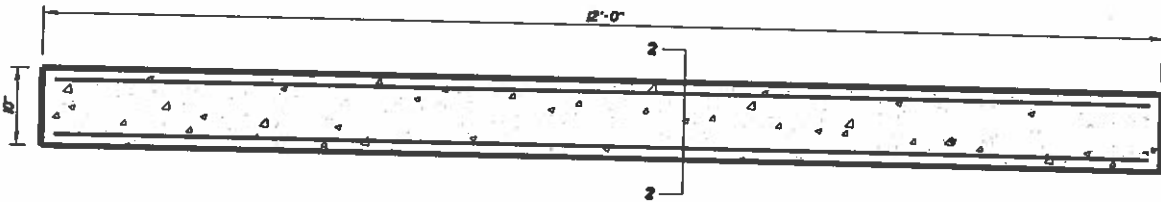
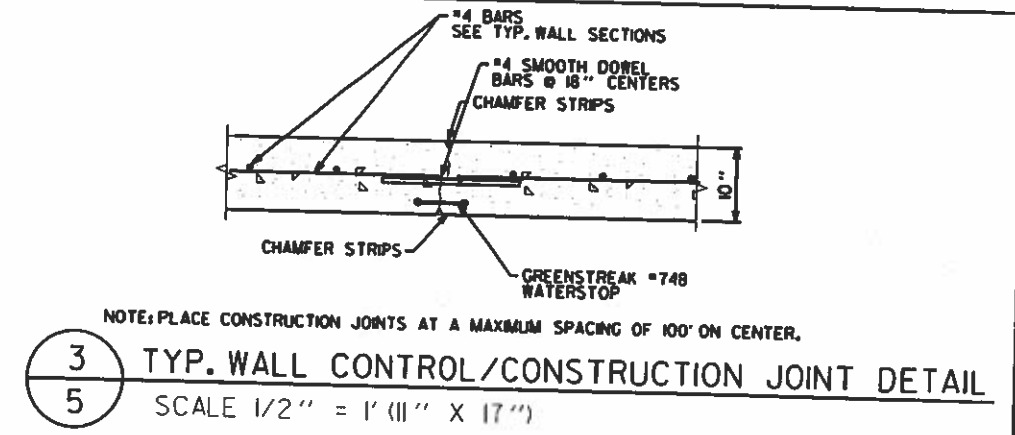
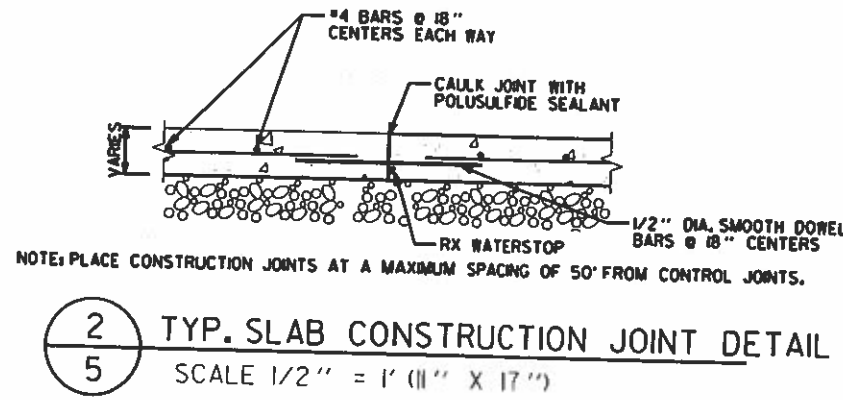
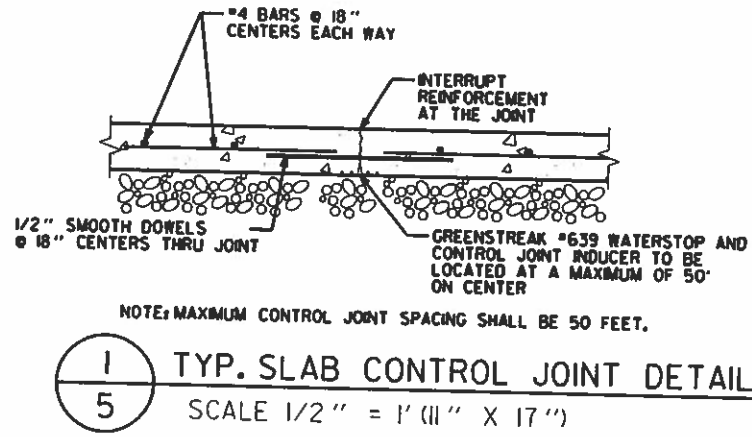
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REVISIONS & DESCRIPTION:	DATE:	BY:	APPROVED BY:
	04/11/2017	F. BENJAMIN	
		MEURER	
		MEURER	
		MEURER	
		MEURER	

FARM NAME: DAVE MEURER

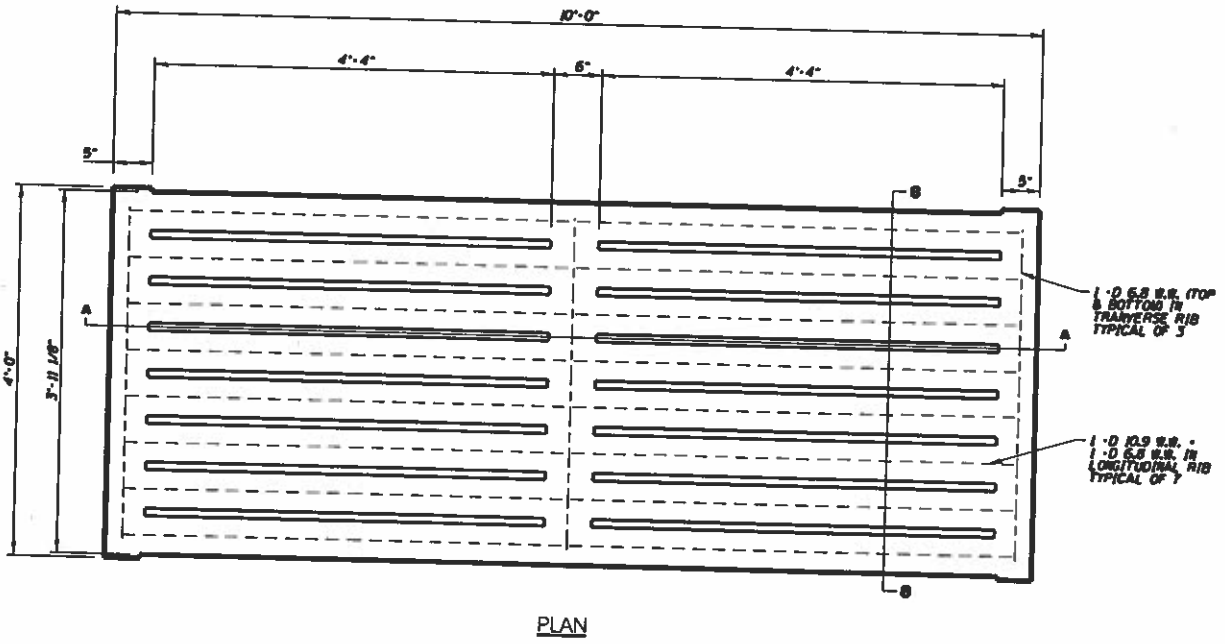
DESCRIPTION: FINISHER PLUMBING PLAN



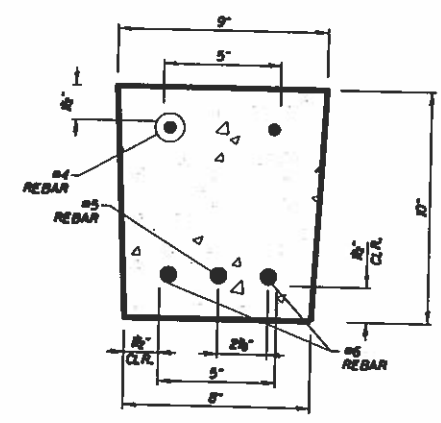


1. BOTTOM LAYER = 2 - #5 BARS, 1 - #5 BAR
2. TOP LAYER = 2 - #4 BARS
3. STIRRUPS = NONE REQUIRED PER ACI 318 FOR FINISHER PIGS AND BEAMS <= 10\"/>
- 4. ALL GRADE 60;  $f_y = 60,000$  PSI
- 5. CONCRETE IS  $f'_c = 3000$  PSI @ 28 DAYS
- 6. LOADING:  
DEAD = 428.5 psf (SELF WT. + SLABS)  
LIVE = 575 PLF (FINISHER PIGS)  
(ACI 318-14)
- 7. ALL CONCRETE AND REBAR PLACEMENT SHALL CONFORM TO ACI 318-14
- 8. 3\"/>

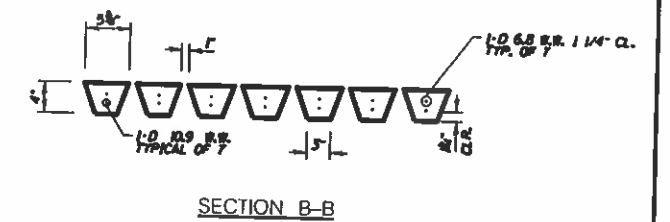
4 TYP. BEAM SIDE VIEW DETAIL  
5 SCALE 1/2" = 1' (11" X 17")



- $f_c = 3,000$  PSI (28 DAYS)  
 $f_y = 60,000$  PSI (D-BAR)
- LOADS:  
DEAD = 34 psf OR 18.5 psf  
LIVE = 125 psf  
 $W = W/2 = 125/2 = 62.5$  psf CONTROLS  
(SEE ACI 318-14)
- MAX. AGGREGATE SIZE = 1/2"
- 2\"/>



5 BEAM SECTION DETAIL  
5 SCALE 1/2" = 1' (11" X 17")



6 10' SLAT DETAILS  
5 SCALE 1/2" = 1' (11" X 17")

REVISIONS			
NO.	DATE	BY	REMARKS

DRAWN  
M.L.W.  
CHECKED  
A.A.W.  
APPROVED  
M.L.W.



WAGNER CONSULTING & AGRICULTURE  
709 WEST OAK STREET  
LENA, ILLINOIS, 61048  
815-275-7642  
WAGNERCONSULTAG@MEDIACOMBB.NET

CONTACT JULIE AT 811 OR 800-892-0123  
With the following:  
County \_\_\_\_\_  
City/Township \_\_\_\_\_  
Sec & 1/4 Sec No. \_\_\_\_\_  
48 HOURS (2 working days) BEFORE YOU DIG

CRESTVIEW FARMS  
1614 MERIDAN ROAD  
AHSTON, ILLINOIS 61006

PROJECT NO.  
14W17  
DATE  
05/24/17  
SHEET NO.  
13  
OF (14) SHEETS

**CONCRETE SPECIFICATIONS**

THE FOLLOWING TECHNICAL SPECIFICATIONS SHALL BE FOLLOWED DURING THE CONSTRUCTION PROCESS. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY, COMPLETENESS, AND COMPLIANCE STATUS OF THE FINAL INSTALLATION. STANDARDS OF THE FOLLOWING ASSOCIATIONS OR ORGANIZATIONS SHALL BE FOLLOWED AND APPLY AS MINIMUM REQUIREMENTS.

ACI AMERICAN CONCRETE INSTITUTE  
 ASTM AMERICAN SOCIETY OF TESTING METHODS  
 CRSI CONCRETE REINFORCING STEEL INSTITUTE  
 NFPA NATIONAL ENGINEERING HANDBOOK (210-VI-NEH, JANUARY 2009)

IN THE CASE OF A CONFLICT BETWEEN THESE SPECIFICATIONS AND ANY OF THE AFORE MENTIONED SPECIFICATIONS ABOVE, THESE SPECIAL PROVISIONS SHALL PREVAIL.

**1.0 GENERAL REQUIREMENT**

- A. DESIGN AND CONSTRUCTION SHALL CONFORM TO THE ACI 318-14.
- B. CONCRETE CONTRACTOR IS ACCOUNTABLE FOR ASSURING THAT ALL NECESSARY INSTALLATIONS ARE COMPLETE PRIOR TO EACH POUR (i.e. GROUNDING, PLUMBING, FASTENERS, AND STEEL).
- C. SUBSOIL OR COMPACTED SUBBASE SHALL BE CAPABLE OF SUPPORTING A DESIGN LOADING OF 3,000 PSF. THIS SHALL BE VERIFIED WITH POCKET PENETROMETER, NUCLEAR DENSITY GAUGE OR PROOF ROLLING.
- D. ALL GRANULAR SUBBASE SHALL BE COMPACTED TO A MINIMUM OF 90% OF THE MODIFIED PROCTOR OR 95% OF THE STANDARD PROCTOR. THIS SHALL BE VERIFIED WITH POCKET PENETROMETER, OR NUCLEAR DENSITY GAUGE OR PROOF ROLLING.
- E. CORRECT OVER EXCAVATED AREAS WITH GRANULAR SUBBASE MATERIAL.
- F. FILL SHALL NOT BE PLACED ON FROZEN GROUND AND FROZEN MATERIAL CAN NOT BE USED AS BACKFILL.
- G. STEEL REINFORCEMENT SHALL BE STORED ON THE JOB SITE IN SUCH A WAY AS TO ELIMINATE CONTAMINATION BY THE SOIL OR GRAVEL. (I.E. STEEL SHALL BE STORED ON CRIBBING OR TIMBERS WITH ADEQUATE SPACING TO PREVENT SAGGING TO THE SOIL.)
- H. ANY TILES ENCOUNTERED DURING THE EXCAVATION SHALL BE RELOCATED TO GREATER THAN 50 FEET AWAY FROM THE PROPOSED WASTE STORAGE STRUCTURE.
- I. CONCRETE SHALL NOT BE PLACED IN MUD, UNCOMPACTED FILL OR FROZEN SUBGRADE OR IN STANDING WATER. PLASTIC SHEETING USED TO ISOLATE THE CONCRETE FROM UNSUITABLE SOIL TYPES WILL NOT BE PERMITTED.
- J. FORMS SHALL BE COATED WITH A RELEASE AGENT. FORMS WITH TORN SURFACES, WORN EDGES, DENTS OR OTHER DEFECTS SHALL NOT BE USED. RELEASE AGENT SHALL BE PLACED ON FORMS PRIOR TO SETTING THEM.
- K. REINFORCEMENT SHALL BE ACCURATELY PLACED AND "SECURED" IN THE WALL AT THE POSITIONS AS SHOWN ON THE CONSTRUCTION DRAWINGS. METAL CHAIRS, METAL HANGERS, METAL SPACERS, OR PLASTIC CHAIRS SHALL BE USED TO SUPPORT THE REINFORCEMENT.
- L. STEEL TYING AND CONSTRUCTION ADJACENT TO A RECENT POUR SHALL NOT BEGIN UNTIL THE RECENT POUR HAS CURED FOR AT LEAST 12 HOURS.

**1.1 CONCRETE MIXES**

- A. ALL CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS.
- B. ALL CONCRETE SHALL BE AIR ENTRAINED 4% TO 6%, UNLESS OTHERWISE SPECIFIED.
- C. ALL CONCRETE SHALL HAVE A SLUMP OF 3 TO 5 INCHES UNLESS PRE-APPROVED BY ENGINEER.

**1.2 USE OF PLASTICIZERS**

- A. A WATER REDUCING AND/OR PLASTICIZING MIXTURE MAY BE ADDED TO THE CONCRETE MIX PROVIDED THE FOLLOWING REQUIREMENTS ARE MET.
- B. THE ADMIXTURE SHALL BE ADDED INTO THE CONCRETE MIX AS SPECIFIED BY THE MANUFACTURER AND BE COMPATIBLE WITH THE OTHER ADMIXTURES IN THE MIX.
- C. THE WATER CONTENT SHALL BE EQUAL TO OR LESS THAN THAT REQUIRED IN THE JOB MIX WITHOUT THE ADMIXTURE.
- D. THE CEMENT CONTENT SHALL BE THE SAME AS THAT REQUIRED IN THE JOB MIX WITHOUT THE ADMIXTURE.
- E. THE AIR CONTENT SHALL BE WITHIN THE SPECIFIED RANGE.
- F. THE SLUMP CONTENT SHALL NOT EXCEED 5 INCHES UNLESS THE CONTRACTOR CAN DEMONSTRATE BEFORE PLACEMENT THAT THE JOB MIX CAN BE PLACED WITHOUT SEGREGATION AT A SLUMP GREATER THAN 5 INCHES. THE CONCRETE SHALL RETAIN THE INCREASED SLUMP FOR NOT LESS THAN 30 MINUTES.
- G. IF THE ADMIXTURE IS ADDED AT THE JOB SITE, THE SLUMP OF THE CONCRETE BEFORE THE ADDITION OF THE ADMIXTURE SHALL NOT EXCEED A SLUMP OF 5 INCHES.

**1.3 CONCRETE REINFORCING**

- A. REINFORCING STEEL BARS
  - 1. ALL REINFORCING BARS TO BE ASTM A615 GRADE 60 OR GRADE 40 AS NOTED ON PLANS. GRADE 60 SHALL BE USED UNLESS OTHERWISE NOTED.
  - 2. WHERE USED, DOWELS SHALL BE SPACED WITH VERTICAL REINFORCEMENT, UNLESS OTHERWISE SPECIFIED.
  - 3. ALL LAP LENGTHS TO BE A MINIMUM OF 36 BAR DIAMETERS. ALL SPECIFIED LAP LENGTHS ARE SHOWN AS MINIMUMS.
  - 4. ALL STEEL BAR REINFORCING COVER WILL CONFORM TO ASTM A185.
  - 5. ALL STEEL SHALL BE PLACED, TIED, AND PROPERLY SUPPORTED PRIOR TO THE PLACEMENT OF THE CONCRETE.

**B. REINFORCING WIRE FABRIC**

- 1. ALL WELDED WIRE FABRIC (W.W.F) WILL CONFORM TO ASTM A185.
- 2. ALL STEEL WELDED WIRE FABRIC REINFORCING COVER SHALL CONFORM TO THE MIDWEST PLAN SERVICE 36.

**1.4 PLACING CONCRETE**

- A. ENSURE REINFORCEMENT, INSERTS AND EMBEDDED ITEMS ARE NOT DISTURBED DURING CONCRETE PLACEMENT.
- B. PLACE CONCRETE WITH THE AID OF MECHANICAL VIBRATORS OF APPROVED TYPE. ENOUGH VIBRATION SHALL BE USED TO CAUSE ALL CONCRETE TO FLOW OR SETTLE READILY INTO PLACE. VIBRATORS MUST NOT BE ALLOWED TO TOUCH REINFORCEMENT EMBEDDED IN PARTIALLY SET CONCRETE NOR USED TO TRANSFER CONCRETE IN FORMS.
- C. CONTROL JOINTS SHALL BE REQUIRED AT A MAXIMUM SPACING OF 50 FEET O.C. FOR FLOORS AND AT 100 FEET O.C. FOR WALLS.
- D. PLACEMENT OF CONCRETE SHALL NOT OCCUR UNTIL THE SUBGRADE, FORMS, STEEL REINFORCEMENT HAVE BEEN INSPECTED AND APPROVED BY THE PRIVATE CONSULTING ENGINEER OR ENGINEER'S REPRESENTATIVE.
- E. CONCRETE PLACEMENT CAN ONLY OCCUR IN THE PRESENCE OF THE ENGINEER. ADEQUATE TIME SHALL BE GIVEN TO THE PRIVATE CONSULTING ENGINEER OR ENGINEER'S REPRESENTATIVE SO THAT THE AREA TO BE POURED CAN BE INSPECTED PRIOR TO THE START OF THE POUR.
- F. CONCRETE SHALL NOT BE DROPPED MORE THAN 5' VERTICALLY UNLESS SUITABLE EQUIPMENT IS PROVIDED TO PREVENT SEGREGATION. WHEN A SUPERPLASTICIZED CONCRETE MIX IS USED CONCRETE SHALL NOT BE DROPPED MORE THAN 12' VERTICALLY.
- G. ALL CONCRETE SHALL BE VIBRATED WITH INTERNAL VIBRATION EXCEPT IN THIN SECTIONS OR INACCESSIBLE LOCATIONS.
- H. THE VIBRATOR SHALL BE INSERTED INTO THE FORMS IMMEDIATELY AFTER PLACEMENT AND SHALL BE WORKED IN ORDER THAT THE CONCRETE IS POURED. COMPLETELY WORK THE CONCRETE AROUND THE REINFORCEMENT.
- I. THE FOLLOWING SPECIFICATIONS APPLY FOR THE CONCRETE: DIAMETER OF HEAD (1.5 TO 2.5 INCHES), FREQUENCY (8,500 TO 12,500 VIBRATIONS PER MINUTE), AVERAGE AMPLITUDE (0.02 TO 0.04 INCHES), CENTRIFUGAL FORCE (300-1000 LBS), RADIUS OF ACTION (20-32 INCHES), RATE OF CONCRETE PLACEMENT (12-45 C.Y./HR)
- J. NO EXTRA WATER SHALL BE ADDED ON THE JOB SITE UNLESS THE JOB SITE SLUMP TEST INDICATE THE NEED OF ADDITIONAL WATER.
- K. CONCRETE SHALL BE PLACED WITH 90 MINUTES OF BATCHING FROM THE PLANT.
- L. FOR WALLS LESS THAN 10 FEET IN HEIGHT, THE MINIMUM CURE TIME REQUIRED BEFORE THE FORMS ARE REMOVED SHALL BE 12 HOURS.

**1.5 WATERSTOPS**


- A. ALL COLD JOINTS OR AREAS OF TWO DIFFERENT POURS WHERE MANURE MAY CONTACT CONCRETE SHALL BE WATERSTOPPED WITH RX WATERSTOP OR GREENSTREAK WATERSTOP PRODUCTS (AS SHOWN ON CONSTRUCTION DRAWINGS).
- B. ALL WATERSTOP LOCATIONS WILL BE REQUIRED AS PER PLANS.
- C. ALL WATERSTOPS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

**1.6 COLD WEATHER CONCRETE**

- A. METHODS FOR COLD WEATHER CONCRETE SHALL BE IMPLEMENTED WHEN THE FOLLOWING CONDITIONS EXIST FOR MORE THAN THREE CONSECUTIVE DAYS: THE AVERAGE DAILY AIR TEMPERATURE IS LESS THAN 40 DEGREES FAHRENHEIT OR THE AIR TEMPERATURE AT THE JOB SITE IS NOT MORE THAN 50 DEGREES FAHRENHEIT FOR MORE THAN HALF OF ANY 24 HOUR PERIOD.
- B. CONCRETE SHALL BE PROTECTED AGAINST FREEZING DURING THE FIRST 24 HOURS.
- C. IF ADDITIONAL CEMENT IS ADDED TO THE MIX, THE TEMPERATURE OF THE MIXING WATER SHALL NOT EXCEED 140 DEGREES FAHRENHEIT AND THE TEMPERATURE OF THE AGGREGATE SHALL NOT EXCEED 150 DEGREES FAHRENHEIT.
- D. PLEASE REFERENCE 210-VI-NEH FOR MINIMUM TEMPERATURES OF THE CONCRETE FOR THE FIRST 72 HOURS.
- E. EXHAUST GASES FROM THE COMBUSTION HEATERS SHALL BE VENTED OUTSIDE OF THE ENCLOSURE.
- F. AT THE END OF THE PROTECTION PERIOD, THE CONCRETE SHALL BE ALLOWED TO COOL GRADUALLY WITH A MAXIMUM INCREASE IN A 24 HOUR PERIOD OF 40 DEGREES FAHRENHEIT.

**1.7 HOT WEATHER CONCRETE**

- A. HOT WEATHER IS DEFINED AS ANY COMBINATION OF HIGH TEMPERATURE, HIGH CONCRETE TEMPERATURE, LOW RELATIVE HUMIDITY, AND WIND VELOCITY THAT IMPAIR THE QUALITY OF FRESH OR HARDENED CONCRETE.
- B. IN TEMPERATURE EXTREMES, THE FIRST CONSIDERATION SHOULD BE PLACEMENT OF THE CONCRETE AT DIFFERENT HOURS TO REDUCE THE POTENTIAL OF SHRINKAGE CRACKS.
- C. THE TEMPERATURE OF CONCRETE SHALL BE MAINTAINED BELOW 90 DEGREES FAHRENHEIT DURING MIXING, CONVEYING, AND PLACING.
- D. EXPOSED SURFACES THAT ARE RAPIDLY DRYING DUE TO THE FIELD CONDITIONS SHALL BE FOG SPRAYED.
- E. FINISHING OF THE CONCRETE SHALL BEGIN AS SOON AS CONCRETE ALLOWS WITHOUT DELAY. WATER SHALL NOT BE ADDED TO THE SURFACE TO FACILITATE FINISHING.
- F. FORMED WALL SURFACES SHALL BE KEPT CONTINUOUSLY WET FROM THE TIME OF INITIAL SET UNTIL CONCRETE IS FULLY CURED IN ACCORDANCE WITH SECTION 21 OF THE NEH.
- G. FORMED FLAT SURFACES SHALL BE KEPT CONTINUOUSLY WET FOR THE DURATION OF THE CURING PERIOD OR UNTIL A CURING COMPOUND IS APPLIED.

REVISIONS				DRAWN		WAGNER CONSULTING & AGRICULTURE 709 WEST OAK STREET LENA, ILLINOIS, 61048 815-275-7642 WAGNERCONSULTAG@MEDIACOMBB.NET	CONTACT JULIE AT 811 OR 800-892-0123 With the following: County: _____ City/Township: _____ Sec & 1/4 Sec No.: _____ 48 HOURS (2 working days) BEFORE YOU DIG	CRESTVIEW FARMS 1614 MERIDAN ROAD ASHTON, ILLINOIS 61006	PROJECT NO.				
NO.	DATE	BY	REMARKS	14W17									
													DATE
													07/18/17
													SHEET NO.
									14				
									OF (14) SHEETS				
ADDITIONAL CONCRETE SPECIFICATIONS													

STATE OF ILLINOIS )  
 )  
COUNTY OF SANGAMON )  
 )

**CERTIFICATE OF SERVICE**

I, the undersigned attorney at law, hereby certify that I have served on the date of December 26, 2018, the attached **NOTICE, APPEARANCE** and **RECOMMENDATION OF THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY**, upon the following persons by causing to be mailed a true copy thereof in an envelope duly addressed, bearing proper first class postage, and deposited in the United States mail at Springfield, Illinois:

Steve Santarelli  
Illinois Department of Revenue  
101 West Jefferson  
P.O. Box 19033  
Springfield, Illinois 62794

David Meurer  
1593 Meridian Road  
Ashton, Illinois 61006

**[Electronic Filing]**

Clerk  
Illinois Pollution Control Board  
James R. Thompson Center  
100 West Randolph Street, Suite. 11-500  
Chicago, Illinois 60601

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

/s/ Christine M. Zeivel  
Assistant Counsel  
Division of Legal Counsel  
1021 North Grand Avenue East  
P.O. Box 19276  
Springfield, Illinois 62794-9276  
217.782.5544  
217.782.9143 (TDD)

**THIS FILING IS SUBMITTED ON RECYCLED PAPER**