

**BEFORE THE ILLINOIS POLLUTION CONTROL BOARD**

**Kuntz By-Products, LLC-Chenoa** )  
**(Property Identification Number** ) **PCB No. 20-**  
**03-05-400-001)** ) **(Tax Certification)**  
 )

**NOTICE**

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

Kuntz By-Products, LLC  
c/o Rollyn Kuntz  
25055 E. 3100 N. Rd.  
Chenoa, Illinois 61726

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

**Copies also provided electronically as follows:**

Illinois Department of Revenue  
via email at REV.PropTaxApp@illinois.gov  
101 West Jefferson  
P.O. Box 19033  
Springfield, Illinois 62794

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

By:   
\_\_\_\_\_  
Amanda S. Kimmel  
Assistant Counsel  
Division of Legal Counsel

DATED: June 26, 2020

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**

**Kuntz By-Products, LLC-Chenoa** )  
**(Property Identification Number** ) **PCB No. 20-**  
**03-05-400-001)** ) **(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:   
\_\_\_\_\_  
Amanda S. Kimmel  
Assistant Counsel  
Division of Legal Counsel

DATED: June 26, 2020

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**

**Kuntz By-Products, LLC-Chenoa** )  
**(Property Identification Number** ) **PCB No. 20-**  
**03-05-400-001)** **(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 23, 2020, the Illinois EPA received a request from Kuntz By-Products LLC (log number TC-142497, 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: 

Kuntz By-Products, LLC
31258 N. 2550 E Rd.
Chenoa, IL 61726

The proposed water pollution control facilities in this request are located in the SE ¼ of Section 5, T26N, R4E of the 3rd P.M. in McLean County, at the above street address and consist of the following:

Livestock waste management facilities consisting of one concrete waste water storage pit (approximately 150 ft. dia. x 10 ft. deep)

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

3. Section 11-10 of the Property Tax Code, 35 ILCS 200/11-10 (2018), 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 (2018), pollution control facilities must be certified as such by the Board, 35 ILCS 200/11-20 (2018) 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:   
Amanda S. Kimmel  
Assistant Counsel  
Division of Legal Counsel

Dated: June 26, 2020

Illinois Environmental Protection Agency  
1021 North Grand Ave. E.  
P.O. Box 19276  
Springfield, Illinois 62794-9276  
217/782-5544

**RECEIVED**  
MAR 23 2020

APPLICATION FOR CERTIFICATION (PROPERTY TAX TREATMENT)

POLLUTION CONTROL FACILITY

AIR

WATER

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

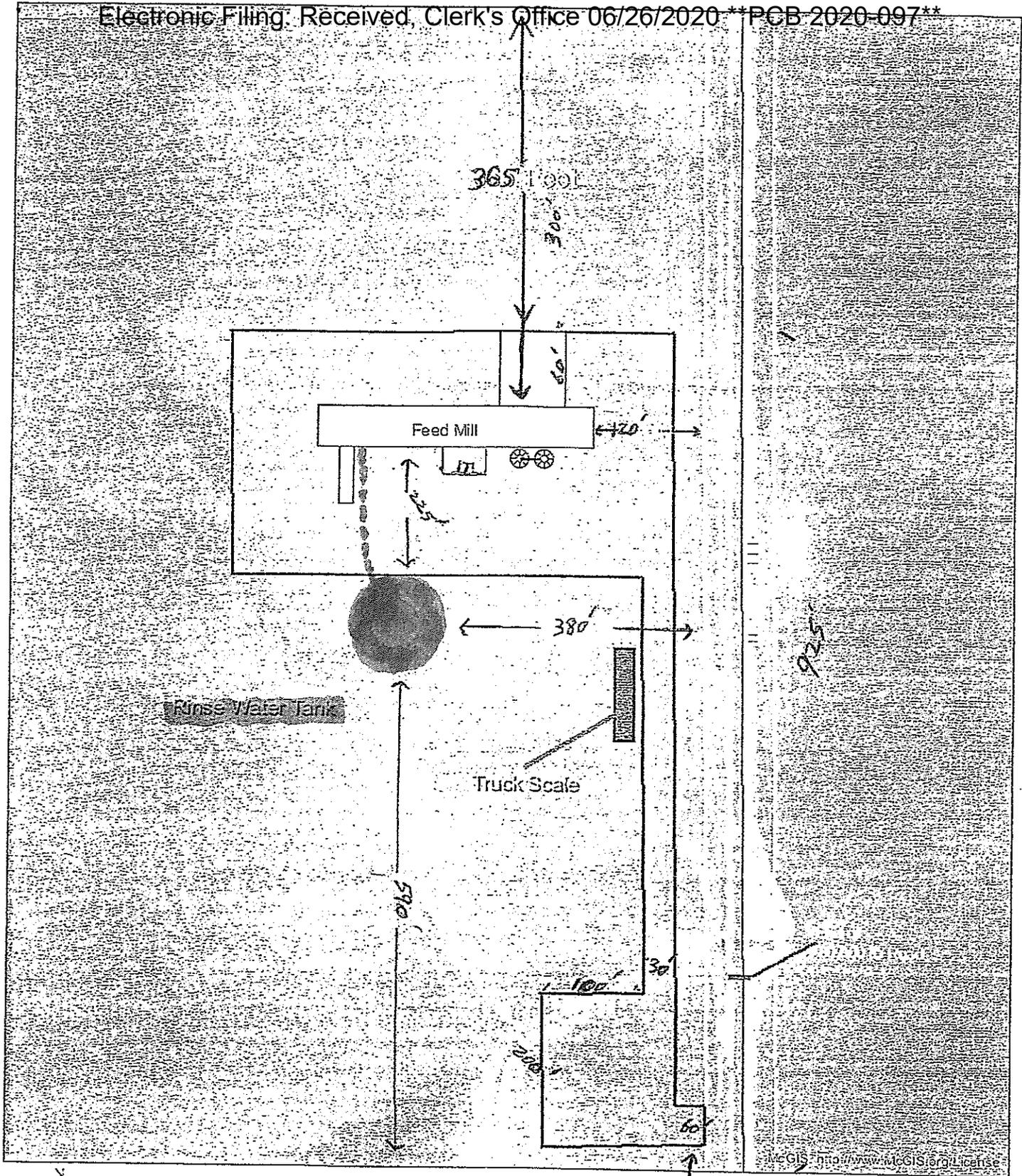
P. O. Box 19276, Springfield, IL 62794-9276

This Agency is authorized to request this information under Illinois Revised Statutes, 1979, Chapter, 120, Section 502a-5. Disclosure of this information is voluntary. However, failure to comply could prevent your application from being processed or could result in denial of your application for certification.

IEPA  
BOWW/PC/PERMIT SECTION

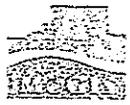
FOR AGENCY USE

File No.	Date Received	Certification No.	Date	
Sec. A  APPLICANT	Company Name Kuntz By-Products, LLC			
	Person Authorized to Receive Certification Rollyn Kuntz		Person to Contact for Additional Details Rollyn Kuntz	
	Street Address 25055 E 3100 N Rd		Street Address 25055 E 3100 N Rd	
	Municipality, State & Zip Code Chenoa, IL 61726		Municipality, State & Zip Code Chenoa, IL 61726	
	Telephone Number (815) 848-7384		Telephone Number (815) 848-7384	
	Location of Facility Quarter Section	Township 26 N	Range 4 E	Municipality NA
	Street Address 31258 N 2550 E Rd. Chenoa, IL 61726		County Mclean	Township 26 N
	Property Identification Number 03-05-400-001		Parcel Number	
	Sec. B  MANUFACTURING OPERATIONS	Nature of Operations Conducted at the Above Location Swine Feed Mill with waste bakery processing.		
		Water Pollution Control Construction Permit No. NA		Date Issued
NPDES PERMIT No. ILR10AE64		Date Issued 07/16/18	Expiration Date	
Air Pollution Control Construction Permit No. NA		Date Issued		
Air Pollution Control Operating Permit No. NA		Date Issued		
Sec. C  MANUFACTURING PROCESS	Describe Unit Process Swine feed production using bakery waste products.			
	Materials Used in Process Bakery waste, (cookies, cereal, peanuts, ect)			
Sec. D  POLLUTION CONTROL FACILITY DESCRIPTION	Describe Pollution Abatement Control Facility 150' X 10' deep waste water storage pit which contains the waste water from the washing process involved with the processing of bakery waste and production of swine feed. The waste water is tested for nutrient content and then applied to land as fertilizer according to an approved nutrient management plan.			
	See attached drawing.			



McGIS does not guarantee the accuracy of the information displayed. Only a site visitation or field survey by a licensed professional surveyor can provide such accuracy. Use for display and reference purposes only.

0 0.015 0.03 0.06 mi



Drain Pipe

**Han, Wei**

---

**From:** Rollyn Kuntz <kuntzrb@gmail.com>  
**Sent:** Saturday, April 25, 2020 9:03 PM  
**To:** Han, Wei  
**Subject:** [External] Re: TC-142497 Kuntz By-products, LLC  
**Attachments:** Kuntz By-Products Flow Chart 001.jpg; Circular Storage Tank Plans.pdf

Please find attached the items needed;  
The quarter section is SE.

On Thu, Apr 23, 2020 at 12:34 PM Han, Wei <[Wei.Han@illinois.gov](mailto:Wei.Han@illinois.gov)> wrote:

Mr. Kuntz,

Nice talking to you over the phone. The following information is needed to complete my review:

1. The quarter section index (NW, NE, SW, or SE ) of the property's legal description. The information can be found from your tax bill or local tax accessor.
2. Plan and/or profile drawings of the pollution control structure, which show dimensions and construction material of the structure.
3. A diagram showing the flow of wastewater from the initial generation through the pollution control facilities to final disposal on cropland.

Please let me know if you have any question regarding this additional information.

Wei Han, P.E.

Illinois Environmental Protection Agency

BOW/DWPC/Permit Section

1021 North Grand Avenue E.

P.O. Box 19276

Springfield, IL 62794-9276

Phone: 217-524-3034

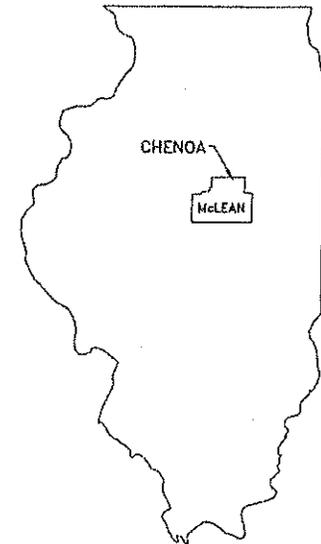
Email: [Wei.Han@Illinois.gov](mailto:Wei.Han@Illinois.gov)

State of Illinois - CONFIDENTIALITY NOTICE: The information contained in this communication is confidential, may be attorney-client privileged or attorney work product, may constitute inside information or internal deliberative staff communication, and is intended only for the use of the addressee. Unauthorized use, disclosure or copying of this communication or any part thereof is strictly prohibited and may be unlawful. If you have received this communication in error, please notify the sender immediately by return e-mail and destroy this communication and all copies thereof, including all attachments. Receipt by an unintended recipient does not waive attorney-client privilege, attorney work product privilege, or any other exemption from disclosure.

# KUNTZ FEED MILL

## INDEX OF PAGES

PAGE 1	DRAWING NO. 18-148CP	COVER PAGE
PAGE 2	DRAWING NO. 18-148CP	GENERAL NOTES
PAGE 3	DRAWING NO. 18-148CP	GENERAL NOTES
PAGE 4	DRAWING NO. 18-148CP	CONSTRUCTION NOTES
PAGE 5	DRAWING NO. 18-14830	ROUND TANK PLAN VIEW
PAGE 6	DRAWING NO. 18-14831	ROUND TANK CROSS SECTION E-E
PAGE 7	DRAWING NO. 18-14832	ROUND TANK DETAIL SHEET #1
PAGE 8	DRAWING NO. 18-14833	ROUND TANK DETAIL SHEET #2



THE DRAWINGS INCLUDED WITH THIS PACKET ARE FOR USE BY THE FACILITY NAMED ABOVE. THE DRAWINGS MAY NOT BE USED FOR ANY PURPOSE AT ANY OTHER FACILITY. NO REVISIONS, ADDITIONS OR MODIFICATIONS TO THESE DRAWINGS MAY OCCUR WITHOUT WRITTEN CONSENT AND PERMISSION FROM THE LICENSED PROJECT ENGINEER OF THE COMPANY LISTED IN THE TITLE BLOCK.

IT IS INTENDED THAT ALL PLANS CONFORM TO MWPS-36 OR TR-9 AS APPROPRIATE. IN ADDITION ANY CONSTRUCTION OUTSIDE THE PERVUE OF THIS DOCUMENT SHALL CONFORM TO THE APPROPRIATE ACI CODE.

CALL JULIE BEFORE YOU DIG 1 800 892-0123



 <b>Frank &amp; West</b> Environmental Engineers, Inc. 1032 S. 2nd Street Springfield, IL 62704 Phone: 217/879-7361 Fax: 217/879-8362	KUNTZ FEED MILL ROUND TANK 10' TALL - 150'Ø COVER PAGE	2018 © FRANK & WEST ENVIRONMENTAL ENGINEERS, INC. THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF FRANK AND WEST ENVIRONMENTAL ENGINEERS, INC. ARE ONLY FOR THIS PROJECT AND MAY NOT BE USED, COPIED OR DUPLICATED WITHOUT PRIOR WRITTEN CONSENT. DATE: 10/01/18 REVISED ON: XX/XX/XX DRAWING NO. 18-148CP
--	--	--

GENERAL NOTES:

**A. CONSTRUCTION OF LIVESTOCK FACILITIES:**

- 1.) CONTACT JULIE (JOINT UTILITY LOCATING FOR EXCAVATORS) BEFORE BEGINNING ANY EXCAVATION OF SOIL FOR PROJECT (PH 811).

**B. STORAGE OF STEEL REINFORCEMENT:**

- 1.) SCHEDULE DELIVERY TO MINIMIZE LONG TERM STORAGE AT JOB SITE.
- 2.) STORE BUNDLES ABOVE GROUND ON TIMBERS OR OTHER CRIBBING.
- 3.) SPACE SUPPORT CRIBBING CLOSE ENOUGH TO PREVENT EXCESSIVE SAGGING OF THE BUNDLES.
- 4.) BLOCK MATERIAL AND STORE ON A SLANT TO ALLOW FOR WATER DRAINAGE AND AIR FLOW.
- 5.) CONTRACTOR SHALL CONFIRM THAT ALL STEEL REINFORCEMENT DOCUMENTATION MEETS PROJECT REQUIREMENTS.

**C. PREPARATION OF CONCRETE SUBGRADES:**

- 1.) ALL ORGANIC TOPSOIL INSIDE THE CONSTRUCTION AREA AND AT SITE FILL AREAS SHALL BE REMOVED. CONTRACTOR SHALL VERIFY TOPSOIL DEPTHS PRIOR TO CONSTRUCTION PER THE GENERAL CONDITIONS.
- 2.) TOPSOIL SHALL BE STRIPPED FROM THE FOUNDATION AREA AND STOCKPILED FOR USE AS TOP DRESSING FOR VEGETATION ESTABLISHMENT UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
- 3.) PROOF ROLL SUBGRADES BELOW FLOOR, BEFORE FILLING OR PLACING AGGREGATE COURSES, WITH HEAVY PNEUMATIC-TIRED EQUIPMENT, SUCH AS A FULLY LOADED TANDEM AXLE DUMP TRUCK, TO IDENTIFY SOFT POCKETS AND AREAS OF EXCESS YIELDING. DO NOT PROOF ROLL WET OR SATURATED SUBGRADES.
- 4.) AGGREGATE BEDDING SUBGRADE SHALL BE PLACED TO A THICKNESS OF 3 TO 6 INCHES, AS NECESSARY, TO LEVEL THE FOUNDATION EXCAVATION TO FINISHED GRADE.
- 5.) RECONSTRUCT SUBGRADES DAMAGED BY FREEZING TEMPERATURES, FROST, RAIN, ACCUMULATED WATER, OR CONSTRUCTION ACTIVITIES.
- 6.) WHEN SUBSURFACE DRAINS ARE ENCOUNTERED DURING ANY EXCAVATION, THEY SHALL BE REMOVED TO A MINIMUM DISTANCE OF 50' AWAY FROM EXTERIOR HORIZONTAL EXTENT OR EXTERIOR BERM TOE OF ANY WASTE STORAGE STRUCTURE AND REROUTED AROUND THE FACILITY.

**D. FILL PLACEMENT FOR CONCRETE SUBGRADES:**

- 1.) FILL SHALL NOT BE PLACED UNTIL THE REQUIRED EXCAVATION AND PREPARATION OF THE UNDERLYING FOUNDATION IS COMPLETED AND APPROVED BY THE TESTING AND INSPECTION AGENCY. FILL SHALL BE PLACED BEGINNING AT THE LOWEST ELEVATION OF THE FOUNDATION. NO FILL SHALL BE PLACED ON A FROZEN SURFACE.
- 2.) IF THE SURFACE OF ANY LAYER BECOMES TOO HARD AND SMOOTH FOR PROPER BOND WITH THE SUCCEEDING LAYER, IT SHALL BE SCARIFIED PARALLEL TO THE AXIS OF THE FILL TO A DEPTH NOT LESS THAN 2 INCHES BEFORE THE NEXT LAYER IS PLACED.
- 3.) ALL FILL UNDER TANK AREAS SHALL BE PIT RUN GRAVEL, OR APPROVED ENGINEERED GRANULAR MATERIAL, PLACED IN 8" MAXIMUM LIFTS, AND COMPACTED TO AT LEAST 95% OF STANDARD PROCTOR MAXIMUM DENSITY. GRAVEL BASE BENEATH ALL CONCRETE SLABS SHALL BE 4" OF CLEAN SAND OR (3/4") CRUSHED STONE WITH FINES COMPACTED. FILL MAY NOT BE PLACED ON FROZEN GROUND AND NO FROZEN MATERIALS MAY BE USED AS BACK FILL.
- 4.) EXCAVATION CONTRACTOR MAY HIRE SOIL TESTING FIRM AND ALLOW TESTING OF SUBGRADES AND EACH FILL LAYER. PROVIDE (1) TEST FOR EVERY 2,500 SQ. FEET OF SUBGRADE AREA AND ONE TEST FOR EVERY 100 LINEAR FEET OF WALL FOOTING. PROCEED WITH SUBSEQUENT EARTHWORK ONLY AFTER TEST RESULTS PREVIOUSLY COMPLETED WORK COMPLY WITH COMPACTION REQUIREMENTS.

**E. PREPARATION OF FORMS:**

- 1.) PRIOR TO THE PLACEMENT OF CONCRETE, THE FORMS AND SUBGRADE SHALL BE FREE OF CHIPS, SAWDUST, DEBRIS, WATER, ICE, SNOW, EXTRANEOUS OIL, MORTAR, OR OTHER HARMFUL SUBSTANCES OR COATINGS. ANY OIL IN THE REINFORCING STEEL OR OTHER SURFACES REQUIRED TO BE BONDED TO THE CONCRETE SHALL BE REMOVED. ROCK SURFACES SHALL BE CLEANED BY AIR-WATER CUTTING, WET SANDBLASTING, OR WIRE BRUSH SCRUBBING AS NECESSARY.
- 2.) THE SITE SHALL BE GRADED TO THE DIMENSIONS AND ELEVATIONS AS SPECIFIED IN THE CONSTRUCTION PLANS.
- 3.) ALL SURFACES SHALL BE FIRM AND DAMP PRIOR TO PLACING CONCRETE. CONCRETE SHALL NOT BE PLACED IN THE MUD, DRIED EARTH, UNCOMPACTED FILL OR FROZEN SUBGRADE OR IN STANDING WATER. THE USE OF PLASTIC SHEETING TO ISOLATE THE CONCRETE FROM UNSUITABLE FOUNDATIONS WILL NOT BE PERMITTED.
- 4.) THE FORMS AND ASSOCIATED FALSE-WORK SHALL BE SUBSTANTIAL AND UNYIELDING AND SHALL BE CONSTRUCTED SO THAT THE FINISHED CONCRETE WILL CONFORM TO THE SPECIFIED DIMENSIONS AND CONTOURS. METAL CHAIRS, FORMS SHALL BE MORTAR TIGHT. FORMS WITH TORN SURFACES, WORN EDGES, DENTS OR OTHER DEFECTS WILL NOT BE USED. FORMS SHALL BE COATED WITH A FORM RELEASE AGENT BEFORE BEING SET INTO PLACE. EXCESS FORM COATING MATERIAL SHALL NOT COME IN CONTACT WITH THE STEEL REINFORCEMENT OR WITH HARDENED CONCRETE AGAINST WHICH FRESH CONCRETE IS TO BE PLACED.
- 5.) REINFORCEMENT SHALL BE ACCURATELY PLACED AS SHOWN ON THE DRAWINGS AND SECURED IN POSITION IN A MANNER THAT WILL PREVENT ITS DISPLACEMENT DURING THE PLACEMENT OF CONCRETE. METAL CHAIRS, METAL HANGERS, METAL SPACERS, PLASTIC CHAIRS, OR CONCRETE CHAIRS SHALL BE USED TO SUPPORT THE REINFORCEMENT. PRECAST CONCRETE CHAIRS SHALL BE MANUFACTURED FROM CONCRETE EQUAL IN QUALITY TO THE CONCRETE BEING PLACED. PRECAST CONCRETE CHAIRS SHALL BE MOIST AT THE TIME CONCRETE IS PLACED.
- 6.) REINFORCEMENT FOR FLATWORK SHALL BE BY A MINIMUM OF 1 SUPPORT EVERY THIRD BAR OR EVERY 4 FEET IN EACH DIRECTION, WHICHEVER SPACING IS SMALLER. SUPPORT CHAIRS SHALL HAVE A MINIMUM BASE AREA OF 4 SQUARE INCH IN CONTACT WITH THE SUB GRADE.
- 7.) STEEL TYING AND FORM CONSTRUCTION ADJACENT TO NEW CONCRETE SHALL NOT BE STARTED UNTIL CONCRETE HAS CURED FOR AT LEAST 12 HOURS.
- 8.) CONCRETE JOINTS SHALL BE OF THE TYPE SHOWN ON THE CONSTRUCTION DRAWINGS.
- 9.) WATERSTOPS SHALL BE LOCATED AS SHOWN ON THE DRAWINGS AND SECURED IN POSITION SO THAT DISPLACEMENT DOES NOT OCCUR DURING CONCRETE PLACEMENT. WATERSTOPS MAY BE SECURED TO REINFORCEMENT USING WIRE OR "HOG RING" TYPE FASTENERS.

**F. EPOXY GROUTING OF REBAR OR INSTALLATION OF OTHER APPURTENANCES:**

- 1.) DRILL HOLE IN CONCRETE NO MORE THAN 1/2 THE THICKNESS OF THE SLAB OR WALL BEING PREPPED.
- 2.) DRILL HOLE 1/8" LARGER THAN REBAR TO BE INSTALLED.
- 3.) CLEAN HOLE BY BLOWING COMPRESSED AIR INTO HOLE TO REMOVE ALL LOOSE PARTICLES.
- 4.) HOLE MUST BE FREE OF WATER.
- 5.) THE EPOXY MUST HAVE A PULLOUT STRENGTH GREATER THAN 5,000 LBS.
- 6.) THE EPOXY MUST BE CHEMICALLY RESISTANT TO LIVESTOCK MANURE.
- 7.) USE EPOXY APPROVED BY PROJECT ENGINEER OF THE COMPANY IN THE TITLE BLOCK OF THIS DRAWING.
- 8.) ANY BOLT OR ANY OTHER ANCHORING TYPE DEVICES SHALL BE TIED TO STRUCTURAL STEEL AT THE DEPTH RECOMMENDED BY THE MANUFACTURER.

**G. BACK FILLING**

- 1.) ONCE THE CONCRETE IS PROPERLY CURED, BACKFILL CAN BE PLACED AROUND THE TANK. AVOID BACKFILL CONTAINING LARGE ROCKS, HARD OR FROZEN SOIL LUMPS, OR CONSTRUCTION DEBRIS. BACKFILL NO HIGHER THAN 12" FROM THE TOP OF THE WALL.
- 2.) ADJACENT TO STRUCTURES AND PIPES, WITHIN 2 FEET OF STRUCTURES OR PIPES, EARTHFILL SHALL BE PLACED IN 4-INCH LIFTS (PRIOR TO COMPACTION) IN A MANNER ADEQUATE TO PREVENT DAMAGE TO THE STRUCTURE AND TO ALLOW THE STRUCTURE OR PIPE TO GRADUALLY AND UNIFORMLY ASSUME THE BACKFILL LOADS. COMPACTION SHALL BE ACCOMPLISHED BY MEANS OF MANUALLY DIRECTED POWER TAMPERS OR PLATE VIBRATORS OR HAND TAMPING UNLESS OTHERWISE SPECIFIED. HEAVY EQUIPMENT SHALL NOT BE OPERATED WITHIN 2 FEET OF ANY STRUCTURE OR PIPE. COMPACTION BY MEANS OF DROP WEIGHTS OPERATING FROM A CRANE OR HOIST OF ANY TYPE WILL NOT BE PERMITTED.
- 3.) SMALLER AREAS OF UNSUITABLE MATERIALS, LENSES OR POCKETS OF UNSUITABLE SOIL SHALL BE REMOVED AND REPLACED WITH SPECIFIED MATERIALS AS DIRECTED BY THE TESTING AND INSPECTION AGENCY. THE EXTENT OR REMOVAL AND THE QUALITY OF REPLACEMENT MATERIALS WILL BE DETERMINED BY THE TESTING AND INSPECTION AGENCY.
- 4.) THE TANK SITE SHALL BE GRADED TO PROVIDE DRAINAGE AWAY FROM THE TANK AT A MINIMUM OF 1% SLOPE.



1032 S. 2nd Street  
Springfield, IL 62704

Phone: 217/678-7361  
Fax: 217/678-8382

KUNTZ FEED MILL  
ROUND TANK 10' TALL - 150'  
GENERAL NOTES

2018 © FRANK & WEST ENVIRONMENTAL ENGINEERS, INC.  
THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF  
FRANK AND WEST ENVIRONMENTAL ENGINEERS, INC. ARE  
ONLY FOR THIS PROJECT AND MAY NOT BE USED, COPIED  
OR DUPLICATED WITHOUT PRIOR WRITTEN CONSENT.

DATE: 10/01/18 REVISED ON: XX/XX/XX DRAWING NO. 18-14BCP

GENERAL NOTES:

**H. PLACEMENT AND CONSOLIDATION OF CONCRETE:**

- 1.) NO CONCRETE SHALL BE PLACED ON ICE, SNOW, OR FROZEN FOUNDATION MATERIAL.
- 2.) THE METHOD AND MANNER OF PLACING CONCRETE SHALL BE SUCH AS TO AVOID SEGREGATION OR SEPARATION OF THE AGGREGATES OR THE DISPLACEMENT OF THE REINFORCEMENT. THE EXTERNAL SURFACE OF ALL CONCRETE SHALL BE THOROUGHLY WORKED DURING THE OPERATIONS OF PLACING IN SUCH A MANNER AS TO WORK THE MORTAR AGAINST THE FORMS TO PRODUCE A SMOOTH FINISH FREE OF HONEYCOMB AND WITH A MINIMUM OF WATER AND AIR POCKETS.
- 3.) OPEN TROUGHS AND CHUTES SHALL EXTEND AS NEARLY AS PRACTICABLE TO THE POINT OF DEPOSIT. DROPPING THE CONCRETE A DISTANCE OF MORE THAN 5' (1.5m) OR DEPOSITING A LARGE QUANTITY AT ANY POINT AND RUNNING OR WORKING IT ALONG THE FORMS WILL NOT BE PERMITTED. THE CONCRETE FOR WALLS WITH AN AVERAGE THICKNESS OF 12 IN. (300 mm) OR LESS SHALL BE PLACED WITH TUBES SO THAT DROP IS NOT GREATER THAN 5' (1.5 m).
- 4.) THE CONCRETE SHALL BE CONSOLIDATED BY INTERNAL VIBRATION, EXCEPT IN THIN SECTIONS OR INACCESSIBLE LOCATIONS WHERE CONSOLIDATION BY INTERNAL VIBRATION IS NOT PRACTICABLE.
- 5.) THE CONTRACTOR SHALL PROVIDE AND USE A SUFFICIENT NUMBER OF VIBRATORS TO ENSURE THAT CONSOLIDATION CAN BE STARTED IMMEDIATELY AFTER THE CONCRETE HAS BEEN DEPOSITED IN THE FORMS.
- 6.) THE VIBRATORS SHALL BE INSERTED INTO THE CONCRETE IMMEDIATELY AFTER IT IS DEPOSITED AND SHALL BE MOVED THROUGHOUT THE MASS SO AS TO THOROUGHLY WORK THE CONCRETE AROUND THE REINFORCEMENT, EMBEDDED FIXTURES, AND INTO THE CORNERS AND ANGLES OF THE FORMS. VIBRATORS SHALL NOT BE ATTACHED TO THE FORMS, REINFORCEMENT BARS, OR THE SURFACE OF THE CONCRETE.
- 7.) APPLICATION OF VIBRATORS SHALL BE AT POINTS UNIFORMLY SPACED AND NOT FARTHER APART THAN TWICE THE RADIUS OVER WHICH THE VIBRATION IS VISIBLY EFFECTIVE. THE DURATION OF THE VIBRATION AT THE POINTS OF INSERTION SHALL BE SUFFICIENT TO THOROUGHLY CONSOLIDATE THE CONCRETE INTO PLACE BUT SHALL NOT BE CONTINUED SO AS TO CAUSE SEGREGATION.
- 8.) CONCRETE SHALL BE PLACED IN CONTINUOUS HORIZONTAL LAYERS. WHEN IT IS NECESSARY BY REASON OF AN EMERGENCY TO PLACE LESS THAN A COMPLETE HORIZONTAL LAYER IN ONE OPERATION, SUCH LAYER SHALL TERMINATE IN A VERTICAL BULKHEAD, SEPARATE BATCHES SHALL FOLLOW EACH OTHER CLOSELY AND IN NO CASE SHALL THE INTERVAL OF TIME BETWEEN THE PLACING OF SUCCESSIVE BATCHES BE GREATER THAN 20 MINUTES.
- 9.) DO NOT ADD EXTRA MIX WATER TO THE MIX AT JOB SITE.
- 10.) PLACE CONCRETE WITHIN 90 MINUTES OF BATCHING AT THE PLANT.

**I. TESTING:**

- 1.) THE CONCRETE CONTRACTOR SHALL PERFORM AT LEAST 1 SLUMP TEST PER DAY, 1 EVERY MINIMUM 100 CUBIC YARDS, OR AT TIMES NOT MEETING DESIGN SPECIFICATIONS ARE SUSPECTED.
- 2.) SPECIFY THAT CONTRACTOR OR PROJECT ENGINEER OR HIS REPRESENTATIVE MAY REJECT MATERIALS DEEMED UNSUITABLE, NOT MEETING SPECIFICATIONS.
- 3.) THE CONCRETE CONTRACTOR SHALL PERFORM AT LEAST 1 BREAK TEST PER SECTION(S) OF STRUCTURE POURED.
- 4.) ALL TEST RESULTS WILL BE PROVIDED TO FWI AS SOON AS RECEIVED.

VIBRATION SPECIFICATIONS:

DIAMETER OF HEAD (inches)	RECOMMENDED FREQUENCY (vibrations per minute)	AVERAGE AMPLITUDE (inches)	CENTRIFUGAL FORCE (lbs.)	RADIUS OF ACTION (inches)	RATE OF CONCRETE PLACEMENT (yds. per hr.)
1½ - 2½	8,500-12,500	0.02-0.04	500-1000	20-32	12-45

**J. REMOVAL OF FORMS:**

- 1.) REMOVAL OF CONCRETE FORMS ARE SUBJECT TO THE EXERCISE OF GOOD JUDGMENT AND OBSERVATION OF THE CONCRETE WHEN STRIPPING OF THE FORMS START.
- 2.) AT A MINIMUM, OBSERVE THE FOLLOWING:
  - 24 HOURS SLABS ON GRADE
  - 48 HOURS WALLS AND COLUMNS
  - 144 HOURS BEAMS AND SUSPENDED SLABS
  - FOR FURTHER CONSTRUCTION TYPES NOT LISTED ABOVE, SEE ACI 347.

**K. REPAIRS TO CONCRETE:**

- 1.) ALL REPAIRS TO CONCRETE BECAUSE OF CRACKING, HONEYCOMBING, OR ANY OTHER DEFORMITY WILL BE COMPLETED ACCORDING TO: (NRC'S NATIONAL ENGINEERING HANDBOOK CONSTRUCTION SPECIFICATION 31-CONCRETE FOR MAJOR STRUCTURES DATED JANUARY 2009)

**L. BACKFILLING:**

- 1.) ONCE THE CONCRETE IS PROPERLY CURED, BACK FILL CAN BE PLACED. AVOID BACK FILL CONTAINING LARGE ROCKS, HARD OR FROZEN SOIL LUMPS, OR CONSTRUCTION DEBRIS. BACK FILL SHOULD BE PLACED NO HIGHER THAN 12" FROM THE TOP OF THE WALL.
- 2.) ADJACENT TO STRUCTURES AND PIPES WITHIN 2 FEET OF STRUCTURES OR PIPES, EARTH FILL SHALL BE PLACED IN 4-INCH LIFTS (PRIOR TO COMPACTION) IN A MANNER ADEQUATE TO PREVENT DAMAGE TO THE STRUCTURE AND TO ALLOW THE STRUCTURE OR PIPE TO GRADUALLY AND UNIFORMLY ASSUME THE BACK FILL LOADS. COMPACTION SHALL BE ACCOMPLISHED BY MEANS OF MANUALLY DIRECTED POWER TAMPERS OR PLATE VIBRATORS OR HAND TAMPING UNLESS OTHERWISE SPECIFIED. HEAVY EQUIPMENT SHALL NOT BE OPERATED WITHIN 5 FEET OF ANY STRUCTURE OR PIPE. COMPACTION BY MEANS OF DROP WEIGHTS OPERATING FROM A CRANE OR HOIST OF ANY TYPE WILL NOT BE PERMITTED.
- 3.) LENSES OR POCKETS OF UNSUITABLE SOIL SHALL BE REMOVED AND REPLACED WITH SPECIFIED MATERIALS AS DIRECTED BY THE TESTING AND INSPECTION AGENCY. THE EXTENT OR REMOVAL AND THE QUALITY OF REPLACEMENT MATERIALS WILL BE DETERMINED BY THE TESTING AND INSPECTION AGENCY.
- 4.) THE SITE SHALL BE GRADED TO PROVIDE DRAINAGE AWAY FROM THE STRUCTURE AT A MINIMUM OF 1% SLOPE.

**Frank & West**  
Environmental Engineers, Inc.

1032 S. 2nd Street  
Springfield, IL 62704

Phone: 217/679-7361  
Fax: 217/679-8362

KUNTZ FEED MILL  
ROUND TANK 10' TALL - 150'Ø  
GENERAL NOTES

2018 © FRANK & WEST ENVIRONMENTAL ENGINEERS, INC.  
THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF  
FRANK AND WEST ENVIRONMENTAL ENGINEERS, INC. ARE  
ONLY FOR THIS PROJECT AND MAY NOT BE USED, COPIED  
OR DUPLICATED WITHOUT PRIOR WRITTEN CONSENT.

DATE: 10/01/18 REVISED ON: XX/XX/XX DRAWING NO. 18-148CP

**CONCRETING IN HOT WEATHER:**

**A. HOT WEATHER DEFINITION:**

- 1.) FOR THE PURPOSE OF THIS SPECIFICATION, HOT WEATHER IS DEFINED AS ANY COMBINATION OF HIGH TEMPERATURE, (GENERALLY ABOVE 80 DEGREES F), HIGH CONCRETE TEMPERATURE, LOW RELATIVE HUMIDITY, AND WIND VELOCITY TENDING TO IMPAIR THE QUALITY OF FRESH OR HARDENED CONCRETE OR OTHERWISE RESULTING IN ABNORMAL PROPERTIES.
- 2.) SPECIAL PROVISIONS SHALL BE MADE TO IMMEDIATELY PROTECT AND CURE THE CONCRETE DUE TO RAPID DRYING CONDITIONS. CONCRETE SURFACES SHALL NOT BE ALLOWED TO DRY AFTER PLACEMENT AND DURING THE CURING PERIOD.
- 3.) IN EXTREME CONDITIONS, IT MAY BE NECESSARY TO (1) RESTRICT PLACEMENT TO LATE AFTERNOON OR EVENING, (2) RESURRECT THE DEPTH OF LAYERS TO ASSURE COVERAGE OF THE PREVIOUS LAYER WHILE IT WILL STILL RESOUND READILY VIBRATION, (3) SUSPEND PLACEMENT UNTIL CONDITIONS IMPROVE.

**B. PREPARATIONS FOR PLACING AND CURING:**

- 1.) **PLANNING HOT WEATHER PLACEMENTS:**  
UNDER HOT WEATHER CONDITIONS, SCHEDULING CONCRETE PLACEMENTS AT OTHER-THAN-NORMAL HOURS MAY BE ADVISABLE. PERTINENT CONSIDERATIONS INCLUDE EASE OF HANDLING AND PLACING, AND MINIMIZING THE RISK OF PLASTIC SHRINKAGE AND THERMAL CRACKING.
- 2.) **EXPEDITING PLACEMENT:**  
PREPARATIONS SHOULD BE MADE TO TRANSPORT, PLACE, CONSOLIDATE, AND FINISH THE CONCRETE AT THE FASTEST POSSIBLE RATE. CONCRETE DELIVERY TO THE JOB SHOULD BE SCHEDULED SO THAT IT IS PLACED PROMPTLY ON ARRIVAL, PARTICULARLY THE FIRST BATCH.
- 3.) **PLACING EQUIPMENT:**  
EQUIPMENT FOR PLACING THE CONCRETE SHOULD BE OF SUITABLE DESIGN AND HAVE AMPLE CAPACITY TO PERFORM EFFICIENTLY.
- 4.) **CONSOLIDATION EQUIPMENT:**  
THERE SHOULD BE AMPLE VIBRATION EQUIPMENT AND WORKERS TO CONSOLIDATE THE CONCRETE IMMEDIATELY AS IT IS RECEIVED IN THE FORM. (SEE PAGE 3 ITEM H)
- 5.) **PREPARATIONS FOR PROTECTING AND CURING THE CONCRETE:**  
AMPLE WATER SHOULD BE AVAILABLE AT THE PROJECT SITE FOR MOISTENING THE SUBGRADE, AS WELL AS FOR FOGGING FORMS AND REINFORCEMENT BEFORE CONCRETE PLACEMENT, FOR MOIST CURING, USE WATER WITH A TEMPERATURE NO MORE THAN 20°F (11°C) COOLER THAN THE CONCRETE TEMPERATURE TO AVOID THERMAL SHOCK.

**C. PLACEMENT AND FINISHING:**

- 1.) **GENERAL:**  
EXPEDITIOUS PLACEMENT AND FINISHING MATERIALLY REDUCES HOT WEATHER DIFFICULTIES. DELAYS INCREASE SLUMP LOSS AND INVITE THE ADDITION OF WATER OFFSETS TO OFFSET THOSE LOSSES. THE CONCRETE SHOULD NOT BE PLACED FASTER THAN IT CAN BE PROPERLY CONSOLIDATED AND FINISHED.
- 2.) **PLACEMENT OF FLATWORK:**  
WHEN CONCRETE IS DEPOSITED FOR FLATWORK ON THE GROUND, THE SUBGRADE SHOULD BE MOIST, BUT FREE OF STANDING WATER.

**D. CURING AND PROTECTION:**

- 1.) **GENERAL:**  
IMMEDIATELY FOLLOWING COMPLETION OF FINISHING OPERATIONS, EFFORTS SHOULD BE MADE TO PROTECT THE CONCRETE FROM LOW HUMIDITY, DRYING WINDS, AND EXTREME AMBIENT TEMPERATURE DIFFERENTIAL. WHENEVER POSSIBLE, THE CONCRETE AND SURROUNDING FORMWORK SHOULD BE KEPT IN A UNIFORM MOISTURE AND TEMPERATURE CONDITION TO ALLOW THE CONCRETE TO DEVELOP ITS MAXIMUM POTENTIAL STRENGTH AND DURABILITY. PROCEDURES FOR KEEPING EXPOSED SURFACES FROM DRYING SHOULD BEGIN PROMPTLY AND CONTINUE WITHOUT INTERRUPTION. FAILURE TO DO SO CAN RESULT IN EXCESSIVE DRYING SHRINKAGE AND RELATED CRACKING. AN APPROVED CURING METHOD SHOULD BE CONTINUED FOR AT LEAST 7 DAYS. IN ADDITION, CONCRETE SURFACES SHOULD NOT BE ALLOWED TO BECOME SURFACE-DRY AT ANY POINT DURING THE TRANSITION. CONCRETE SHOULD ALSO BE PROTECTED AGAINST THERMAL SHRINKAGE CRACKING DUE TO RAPID TEMPERATURE DROPS, PARTICULARLY DURING THE FIRST 24 HOURS. THERMAL SHRINKAGE CRACKING IS ASSOCIATED WITH A COOLING RATE OF MORE THAN 5°F (3°C) PER HOUR, OR MORE THAN 50°F (28°C) IN A 24 HOUR PERIOD FOR CONCRETE WITH A LEAST DIMENSION LESS THAN 12 IN. HOT WEATHER PATTERNS INCREASE THE POTENTIAL FOR THERMAL CRACKING DUE TO VAST DAY AND NIGHT TEMPERATURE DIFFERENCES.
- 2.) **MOIST CURING OF FLATWORK:**  
A COMMON PRACTICAL METHOD OF MOIST CURING IS TO COVER THE CONCRETE WITH IMPERVIOUS SHEETING OR FABRIC MATS KEPT CONTINUOUSLY WET WITH A SOAKER HOSE OR SIMILAR MEANS. THE TEMPERATURE OF WATER USED FOR INITIAL CURING SHOULD BE AS CLOSE AS POSSIBLE TO THAT OF THE CONCRETE TO AVOID THERMAL SHOCK.
- 3.) **MEMBRANE CURING OF FLATWORK:**  
CONCRETE SURFACES EXPOSED TO DIRECT SUNLIGHT SHOULD USE HEAT-REFLECTING, WHITE-PIGMENTED COMPOUNDS WHERE APPLICABLE. FOR USE IN HOT WEATHER CONDITIONS, A MATERIAL SHOULD BE SELECTED THAT ENSURES EQUAL OR GREATER MOISTURE RETENTION THAN REQUIRED BY ASTM C309. APPLICATION OF AN APPROVED MOISTURE-RETENTIVE MATERIAL SHOULD IMMEDIATELY FOLLOW THE DISAPPEARANCE OF SURFACE WATER SHEEN AFTER THE FINAL FINISHING PASS. MOST CURRYING COMPOUNDS SHOULD NOT BE USED ON ANY SURFACE AGAINST WHICH ADDITIONAL CONCRETE OR OTHER MATERIALS ARE TO BE BONDED.

**CONCRETING IN COLD WEATHER:**

**A. COLD WEATHER DEFINITION:**

- 1.) WHEN AIR TEMPERATURE HAS FALLEN TO, OR IS EXPECTED TO FALL BELOW, 40°F (4°C) DURING THE PROTECTION PERIOD; PROTECTION PERIOD IS DEFINED AS THE TIME REQUIRED TO PREVENT CONCRETE FROM BEING AFFECTED BY EXPOSURE TO COLD WEATHER.
- 2.) WHEN THE MINIMUM DAILY ATMOSPHERIC TEMPERATURE IS LESS THAN 40 DEGREES F, CONCRETE SHALL BE INSULATED OR HOUSED AND HEATED IMMEDIATELY AFTER PLACEMENT. THE TEMPERATURE OF THE CONCRETE AND AIR ADJACENT TO THE CONCRETE SHALL BE MAINTAINED AT NO LESS THAN 50 DEGREES F NOR MORE THAN 90 DEGREES F FOR THE DURATION OF THE CURING PERIOD.
- 3.) THE CURING PERIOD MAY BE REDUCED TO 3 DAYS WHEN TYPE III CEMENT IS USED. AN ADDITIONAL 100 POUNDS OF TYPE I CEMENT AND A MAXIMUM OF 6 GALLONS OF ADDED WATER PER CUBIC YARD MAY BE USED IN LIEU OF TYPE III CEMENT.
- 4.) COMBUSTION HEATERS SHALL HAVE EXHAUST FLUE GASES VENTED OUT OF THE CONCRETE PROTECTION ENCLOSURE AND SHALL NOT BE PERMITTED TO DRY THE CONCRETE.

**B. OBJECTIVES, PRINCIPLES, AND PLANNING:**

- 1.) **OBJECTIVES:**  
-PREVENT DAMAGE TO CONCRETE DUE TO EARLY AGE FREEZING. AT 50°F (10°C), MOST WELL-PROPORTIONED CONCRETE MIXTURES REACH A COMPRESSIVE STRENGTH OF 500 psi WITHIN 48 HOURS.  
-ENSURE THAT THE CONCRETE DEVELOPS THE REQUIRED STRENGTH FOR SAFE REMOVAL OF FORMS, SHORES AND RESHORES, AND FOR SAFE LOADING OF THE STRUCTURE DURING AND AFTER CONSTRUCTION.
- 2.) **PRINCIPLES:**  
CONCRETE PROTECTED FROM FREEZING UNTIL IT ATTAINS A COMPRESSIVE STRENGTH OF 500 psi WILL NOT BE DAMAGED BY EXPOSURE TO A SINGLE FREEZING CYCLE (POWERS 1962).
- 3.) **PLANNING:**  
PLANS TO PROTECT FRESH CONCRETE FROM FREEZING AND TO MAINTAIN TEMPERATURES ABOVE THE RECOMMENDED MINIMUM VALUES SHOULD BE MADE WELL BEFORE FREEZING ARE EXPECTED TO OCCUR. EQUIPMENT AND MATERIALS SHOULD BE AT THE WORK SITE BEFORE COLD WEATHER IS LIKELY TO OCCUR, NOT AFTER CONCRETE IS PLACED AND ITS TEMPERATURE APPROACHES THE FREEZING POINT.
- 4.) **SUBGRADE CONDITION:**  
CONCRETE SHOULD NOT BE PLACED ON FROZEN SUBGRADE. REMOVE ALL FROST BEFORE PLACING THE CONCRETE AND RECOMPACT THAWED SOIL DISTURBED BY FROST. PLACEMENT OF INSULATION OVER THE SUBGRADE, OR PROVISION OF HEAT, IS REQUIRED TO REMOVE ANY FROST IN THE SOIL AND RAISE THE SUBGRADE TEMPERATURE ABOVE 32°F. WHEN THE CONCRETE TEMPERATURE IS MORE THAN 10°F COOLER OR 5°F WARMER THAN THE SUBGRADE, DIFFERENTIAL RATES OF SETTING, BETWEEN THE TOP AND BOTTOM OF THE SLAB MAY RESULT IN VARIOUS SURFACE DEFECTS INCLUDING PLASTIC SHRINKAGE CRACKING, BULSTERING, AND DELAMINATIONS.

**C. TEMPERATURE DROP AFTER REMOVAL OF PROTECTION:**

- 1.) AT THE END OF THE PROTECTION PERIOD, CONCRETE SHOULD BE COOLED GRADUALLY TO REDUCE CRACK-INDUCING DIFFERENTIAL STRAINS BETWEEN THE INTERIOR AND EXTERIOR OF THE STRUCTURE. THE TEMPERATURE DROP OF CONCRETE SURFACES SHOULD NOT EXCEED THE RATES INDICATED IN TABLE 1.

**D. EQUIPMENT, MATERIALS, AND METHODS OF TEMPERATURE PROTECTION:**

- 1.) **INTRODUCTION:**  
THE TEMPERATURE OF CONCRETE PLACED DURING COLD WEATHER SHOULD BE MAINTAINED AS CLOSE AS POSSIBLE TO THE RECOMMENDED TEMPERATURES IN LINE 1 OF TABLE 1 AND FOR THE LENGTHS OF TIME RECOMMENDED IN TABLE 2 UNTIL THE IN-PLACE STRENGTH HAS REACHED A PREVIOUSLY ESTABLISHED TARGET VALUE.
- 2.) **INSULATING MATERIALS:**  
HEAT OF HYDRATION IS RETAINED BY USING INSULATING BLANKETS ON UNFORMED SURFACES AND BY USING INSULATING FORMS. TO BE EFFECTIVE, KEEP INSULATION IN CLOSE CONTACT WITH THE CONCRETE OR THE FORM SURFACE.

TABLE 1 RECOMMENDED CONCRETE TEMPERATURES

LINE	AIR TEMPERATURE	SECTION SIZE MINIMUM >72 in. (1800 mm)
1	-	40°F (5°C)
2	ABOVE 30°F (-1°C)	45°F (7°C)
3	0°-30°F (-18 to -1°C)	50°F (10°C)
4	BELOW 0°F (-18°C)	55°F (13°C)
5	-	20°F (1°C)

TABLE 2 LENGTH OF PROTECTION PERIOD FOR CONCRETE PLACED DURING COLD WEATHER

LINE	SERVICE CONDITION	PROTECTION PERIOD AT MINIMUM TEMPERATURE INDICATED IN LINE 1 OF TABLE 1, DAYS* (NORMAL SET CONCRETE)
1	NO LOAD, NOT EXPOSED	2
2	NO LOAD, EXPOSED	3
3	PARTIAL LOAD, EXPOSED	6
4	FULL LOAD	-

\*A DAY IS A 24 HOUR PERIOD.

**Frank & West**  
Environmental Engineers, Inc.

1032 S. 2nd Street  
Springfield, IL 62704

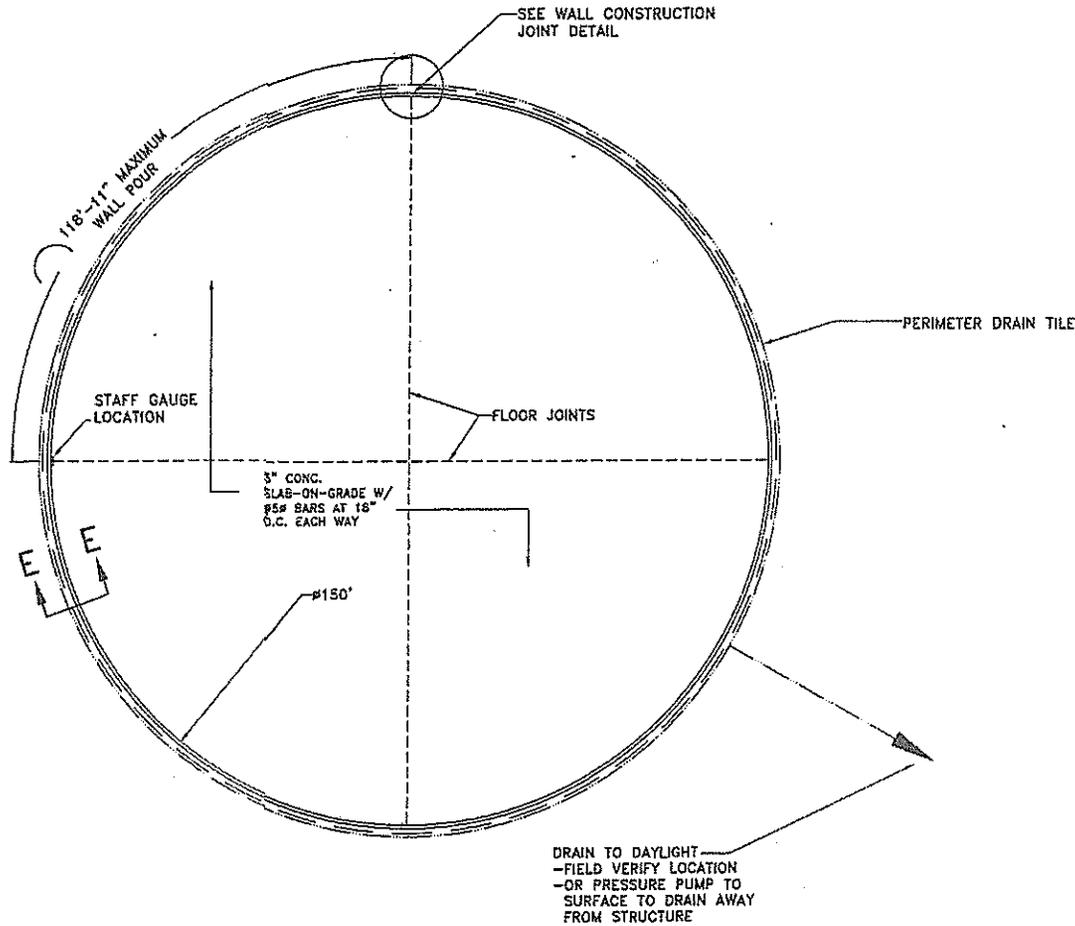
Phone: 217/879-7981  
Fax: 217/879-0462

KUNTZ FEED MILL  
ROUND TANK 10' TALL - 150'Ø  
CONSTRUCTION NOTES

2015 © FRANK & WEST ENVIRONMENTAL ENGINEERS, INC.  
THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF  
FRANK AND WEST ENVIRONMENTAL ENGINEERS, INC. ARE  
ONLY FOR THIS PROJECT AND MAY NOT BE USED, COPIED  
OR REPRODUCED WITHOUT PRIOR WRITTEN CONSENT

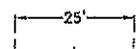
DATE: 10/01/18 REVISED ON: XX/XX/XX DRAWING NO. 18-148CP

150'Ø TANK - FOUNDATION PLAN



GENERAL NOTES

- 1.) ANY REVISIONS TO THESE DRAWINGS MUST BE APPROVED BY THE PROJECT ENGINEER OF THE COMPANY LISTED IN THE TITLE BLOCK.
- 2.) CONCRETE CONSTRUCTION SHALL MEET WITH MIDWEST PLAN SERVICE-36, CONCRETE MANURE STORAGE UNLESS NOTED OTHERWISE.
- 3.) NO CONCRETE SHALL BE PLACED ON ON ICE, SNOW OR FROZEN FOUNDATION MATERIAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONCRETE DAMAGED BY LOW TEMPERATURES AND SHALL REMOVE AND REPLACE ANY CONCRETE SO DAMAGED AT HIS/HER EXPENSE.
- 4.) THE METHOD AND MANNER OF PLACING CONCRETE SHALL BE SUCH AS TO AVOID SEGREGATION OR SEPARATION OF THE AGGREGATES OR THE DISPLACEMENT OF THE REINFORCEMENT.
- 5.) THE FOOTINGS ARE TO BE CONSTRUCTED WITH A MINIMUM OF 4,000 PSI CONCRETE.
- 6.) ALL WALLS AND FLOORS ARE TO BE CONSTRUCTED OF 4,000 PSI CONCRETE.
- 7.) NO VEHICLE LOADS ALLOWED WITHIN 5' OF TANK WALLS.
- 8.) NO PIPE PENETRATIONS OTHER THAN THE TYPES IDENTIFIED ON THESE DRAWINGS ARE ALLOWED. ALL WALL AND FLOOR APPROVED BY THE PROJECT ENGINEER.
- 9.) WATERSTOP SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS.



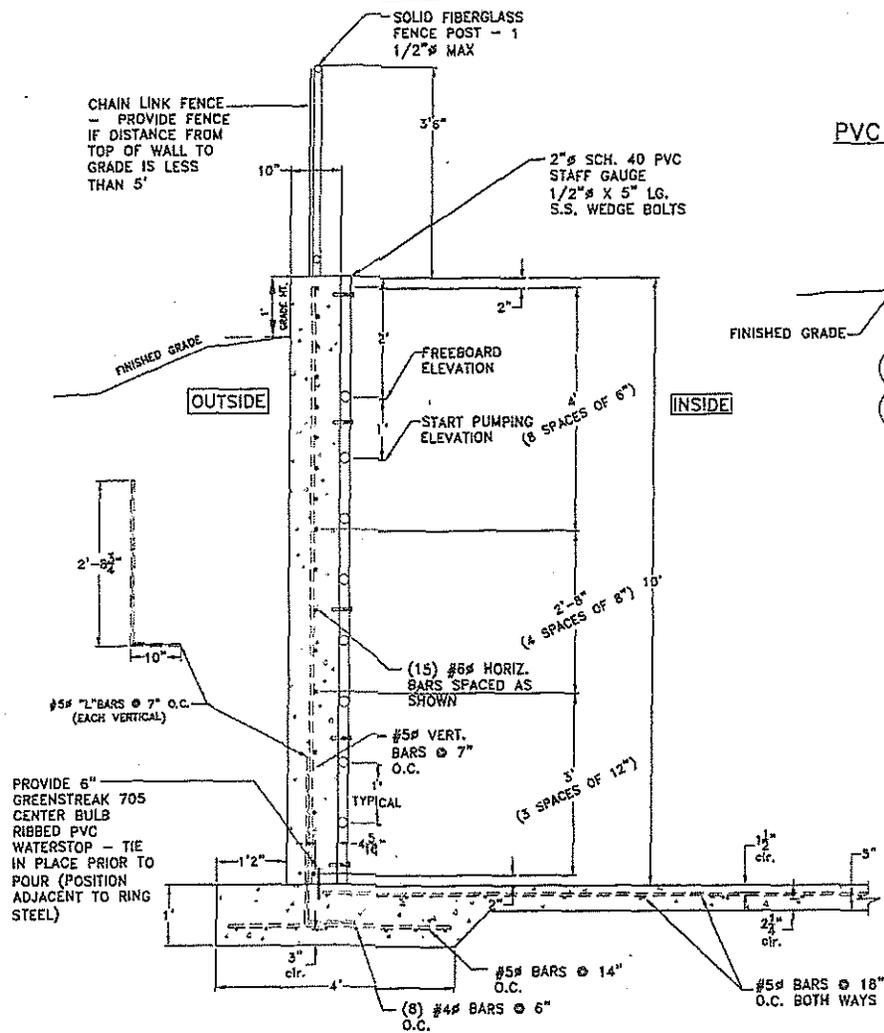
**Frank & West**  
Environmental Engineers, Inc.  
1032 S. 2nd Street  
Springfield, IL 62704  
Phone: 217/879-7361  
Fax: 217/879-8382

KUNTZ FEED MILL  
ROUND TANK 10' TALL - 150'Ø  
PLAN VIEW  
DRAWN BY: CEO

2018 © FRANK & WEST ENVIRONMENTAL ENGINEERS, INC. THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF FRANK AND WEST ENVIRONMENTAL ENGINEERS, INC. ARE ONLY FOR THIS PROJECT AND MAY NOT BE USED, COPIED OR DUPLICATED WITHOUT PRIOR WRITTEN CONSENT.  
SCALE: AS SHOWN | DATE: 10/01/18 | REVISED ON: XX/XX/XX | DRAWING NO. 18-14830

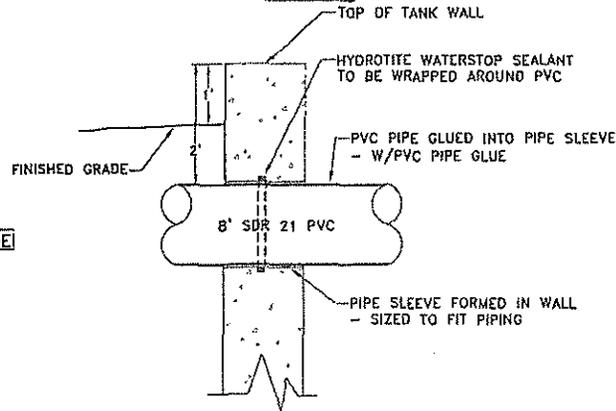
ROUND TANK WALL SECTION

E-E

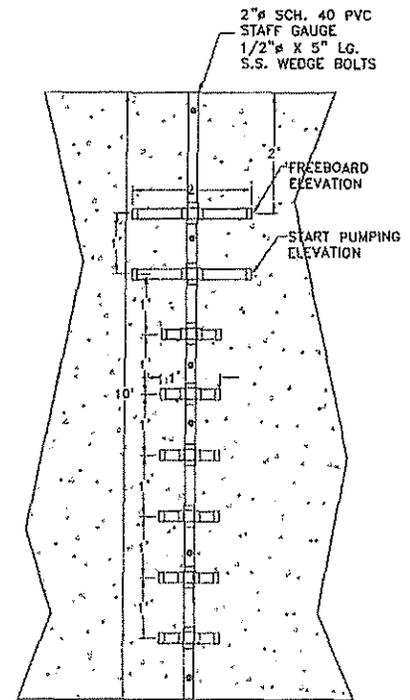


PVC PIPE PENETRATION DETAIL

(NO SCALE)



STAFF GAUGE DETAIL



NOTES:

- 1.) IF FINISHED GRADE IS THREE FEET OR MORE BELOW WHAT IS SHOWN, GREATER EXTERIOR WALL REINFORCEMENT WILL BE NECESSARY.
- 2.) ALL FOOTINGS ARE TO BE CONSTRUCTED OF A MINIMUM OF 3,000 PSI CONCRETE.
- 3.) ALL FLOORS, AND WALLS, ARE TO BE CONSTRUCTED OF A MINIMUM OF 4,000 PSI CONCRETE.
- 4.) ALL REINFORCEMENT TO BE GRADE 60 STEEL.

**Frank & West**  
Environmental Engineers, Inc.

1032 S. 2nd Street  
Springfield, IL 62704

Phone: 217/679-7561  
Fax: 217/679-8362

KUNTZ FEED MILL  
ROUND TANK 10' TALL - 150'  
CROSS SECTION E-E

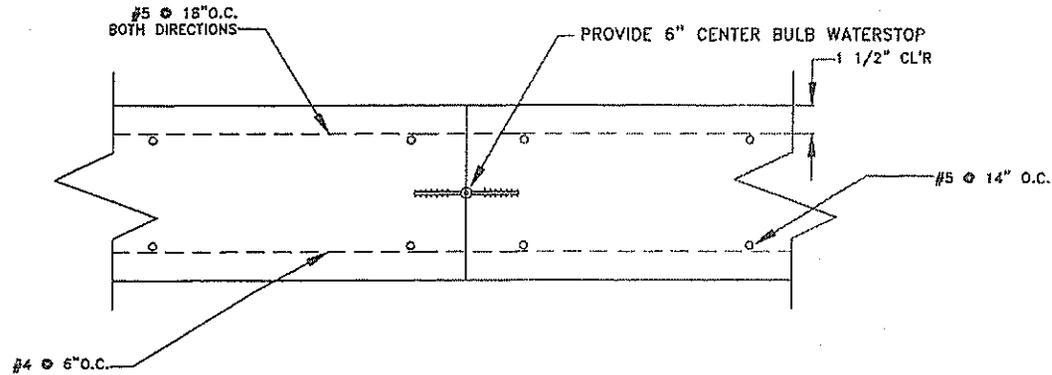
DRAWN BY: CEO

2018 © FRANK & WEST ENVIRONMENTAL ENGINEERS, INC.  
THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF  
FRANK AND WEST ENVIRONMENTAL ENGINEERS, INC. ARE  
ONLY FOR THIS PROJECT AND MAY NOT BE USED, COPIED  
OR DUPLICATED WITHOUT PRIOR WRITTEN CONSENT.

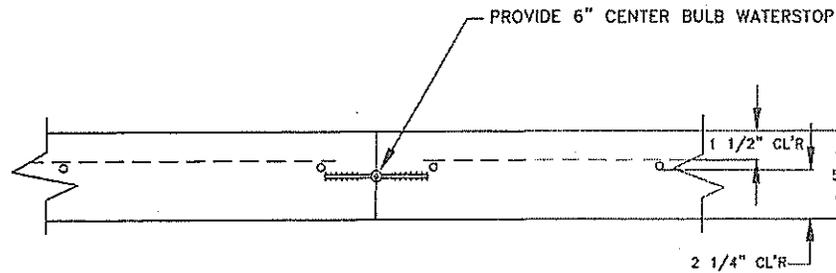
SCALE: AS SHOWN DATE: 10/01/18 REVISED ON: XX/XX/XX DRAWING NO. 18-14831

**SLAB CONSTRUCTION JOINT - FOOTING**

\* RING FOOTING REINFORCEMENT IS CONTINUOUS THROUGH THE JOINT

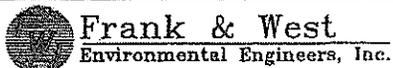


**SLAB CONSTRUCTION JOINT - MAIN FLOOR**



NOTES:

1. ALL FOOTINGS ARE TO BE CONSTRUCTED OF A MINIMUM OF 4,000 PSI CONCRETE.
2. ALL FLOORS, AND WALLS, ARE TO BE CONSTRUCTED OF A MINIMUM OF 4,000 PSI CONCRETE.
3. ALL REINFORCEMENT TO BE GRADE 60 STEEL.



1032 S. 2nd Street  
Springfield, IL 62704

Phone: 217/079-7341  
Fax: 217/079-8362

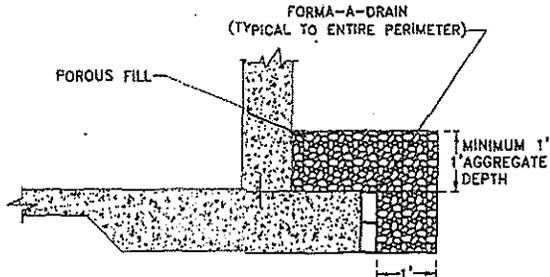
KUNTZ FEED MILL  
ROUND TANK 10' TALL - 150' $\phi$   
DETAIL SHEET #1

DRAWN BY: CEO

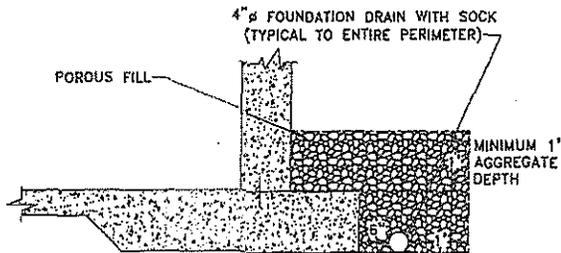
2018 © FRANK & WEST ENVIRONMENTAL ENGINEERS, INC.  
THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF  
FRANK AND WEST ENVIRONMENTAL ENGINEERS, INC. ARE  
ONLY FOR THIS PROJECT AND MAY NOT BE USED, COPIED  
OR DUPLICATED WITHOUT PRIOR WRITTEN CONSENT.

SCALE: AS SHOWN | DATE: 10/01/18 | REVISED ON: XX/XX/XX | DRAWING NO. 18-14832

**PERIMETER DRAIN DETAIL  
USING FORM-A-DRAIN**



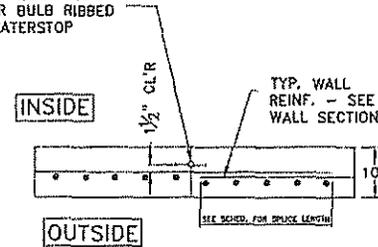
**PERIMETER DRAIN DETAIL  
USING 4"Ø ROUND TILE**



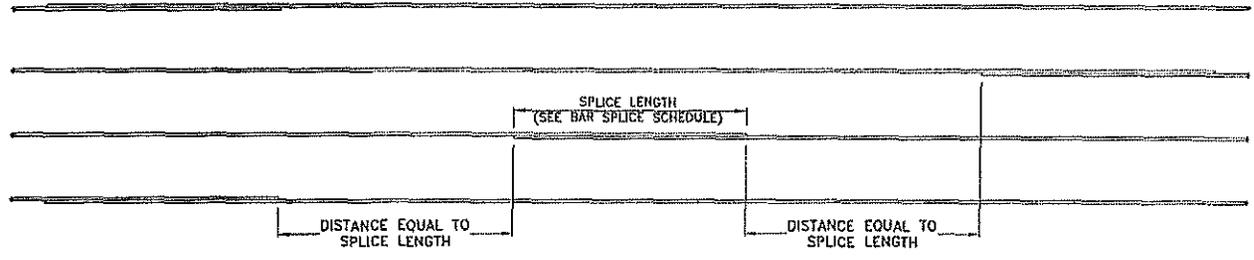
**WALL CONST. JOINT**

\* RING REINFORCEMENT IS CONTINUOUS THROUGH THE JOINT

PROVIDE 6" GREENSTREAK 705 CENTER BULB RIBBED PVC WATERSTOP



BAR SPLICE SCHEDULE	
BAR SIZE	SPLICE LENGTH (IN.)
#4Ø	20"
#5Ø	24"
#6Ø	30"
#7Ø	42"



**Frank & West**  
Environmental Engineers, Inc.  
1082 S. 2nd Street  
Springfield, IL 62704  
Phone: 217/879-7361  
Fax: 217/879-8362

KUNTZ FEED MILL  
ROUND TANK 10' TALL - 150Ø  
DETAIL SHEET #2  
DRAWN BY: CEO

2018 © FRANK & WEST ENVIRONMENTAL ENGINEERS, INC.  
THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF  
FRANK AND WEST ENVIRONMENTAL ENGINEERS, INC. ARE  
ONLY FOR THIS PROJECT AND MAY NOT BE USED, COPIED  
OR DUPLICATED WITHOUT PRIOR WRITTEN CONSENT.  
SCALE: AS SHOWN DATE: 10/01/18 REVISED ON: XX/XX/XX DRAWING NO. 18-14833





## ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

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

JB PRITZKER, GOVERNOR

JOHN J. KIM, DIRECTOR

# Memorandum

To: Charles Gunnarson, Division of Legal Counsel

From: Darin E. LeCrone, Manager, Industrial Unit, Permit Section *DEL*

Date: May 18, 2020

Re: Kuntz By-Products, LLC – Chenoa  
Recommendation of Tax Certification  
Log# TC-142497  
Property Index# 03-05-400-001

The Bureau of Water received a request on March 23, 2020 from Rollyn Kuntz for an Illinois EPA recommendation regarding the tax certification of water pollution control facilities pursuant to 35 Ill. Adm. Code 125.204. We offer the following recommendation.

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

Kuntz By-Products, LLC  
31258 N 2550 E Rd.  
Chenoa, IL 61726

SE ¼ of Section 5, T26N, R4E of the 3<sup>rd</sup> PM in McLean County

The livestock waste handling facilities consisting of one (1) concrete manure pit (approximately 150 ft. dia. x 10 ft. dpt.) The facility collects, transports and stores livestock waste prior to cropland application.

The facility is 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 Wei Han at 217/782-0610.

DEL:WH:Tax Cert Recommendation.docx

cc: Tax Cert File

## Watershed Unit Tax Certification Review Sheet

Project Name: Kuntz By-Products, LLC

Date: April 29, 2020

Reviewer: WH

Type:  Agchem  
 Livestock

Log number: TC-142497

Contact: Same as left

Applicant: Rollyn Kuntz  
25055 E 3100 N Rd.  
Chenoa, IL 61726

Phone: 815-848-7384

Facility: Kuntz By-Products, LLC  
31258 N 2550 E Rd.  
Chenoa, IL 61726

Property Index#: 03-05-400-001

Parcel#:

County: McLean

Legal Description:  
SE of Section: 5 Twp: 26N R: 4E PM: 3<sup>rd</sup>

Signature: Rollyn Kuntz

Title: Owner

Date Control Devices installed: November 2018

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:

The livestock waste handling facilities consist of one (1) concrete wastewater pit (approximately 150 ft. dia. x 10 ft. dp). The facility collects, transports and stores waste water prior to cropland application.

Pollution control facilities requested by the applicant through Description of Pollution Control Facilities, Section D of the application and email of 04/25/2020

One (1) concrete manure pit (approximately 150 ft.dia. x 10 ft.)

A process flow diagram and a plan view of the pit is submitted via email of 04/25/2020.

Recommended Action: Issue tax certification.

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 June 26, 2020, 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:

Kuntz By-Products, LLC  
c/o Rollyn Kuntz  
25055 E. 3100 N. Rd.  
Chenoa, Illinois 61726

**Copies also provided electronically as follows:**

Illinois Department of Revenue  
via email at REV.PropTaxApp@illinois.gov  
101 West Jefferson  
P.O. Box 19033  
Springfield, Illinois 62794

**[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/ Amanda S. Kimmel  
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**