

SCHEDULE "A"

Bulk Ingredient & Finished Feed Bin Systems to include the following:

(7) 8' x 8' x 25' bins, w/capacity of 1,568 cubic ft. or 31.5 tons (based on 40# material) not including hoppers, & (4) 4' x 8' x 25' bins w/capacity of 784 cubic ft. or 15.75 tons (based on 40# material) not including hoppers. Square bins will have 50 degree hoppers w/12" x 60" discharge openings, (12) 7' diameter 24-ton hopper tanks featuring smooth wall welded construction. These tanks will have 26" discharge opening for attachment of hopper boot by others.

Structural system to support above tanks and service platforms which are beneath the outlets of all tanks.

The entire bin system is enclosed by structural framing & covered w/galvalume metal bldg. siding. The enclosed area will be 46' x 60' x 66'. Overhead 8' x 8' metal door, (3) 30 x 70 half glass doors, (4) 40" x 50" thermopane windows, gutters & downspouts for low side of lean-to.

Batching & Mixing System to include the following:

four ton weigh hopper, four-ton Hayes & Stoltz 265 cubic ft. horizontal ribbon type mixer complete w/40 HP shaft mounted reducer & counter shaft drive assembly w/TEFC motor and OSHA guard. One air-operated discharge gate ea. for hopper & mixer discharge. Venting for dust containment between mixer & hopper.

(11) U-trough type screw feeders w/variable pitch auger for controlled material intake. (11) shaft-mount reduced drives w/TEFC motors & OSHA guards, dust-tight discharge to cover connection. 12' x 16" diameter screw conveyor to convey feed to bucket elevator w/7.5 HP TEFC motor & diverter valve.

Feed Dresser to include the following:

18" x 60" SWK rotary feed dresser w/90 ton per hour capacity. Fully guarded V belt drive w/25 HP TEFC motor.

Dresser will be mounted directly below the main distributor on a full-service platform accessed by stairway on tower.

Overs will be discharged through 8" spout to an inlet above the hammer mill & foreign material to be collected on the inlet magnet.

Feed will be routed through two-way valve & onto F.F. distributors.

Feed Grinding System to include the following:

SWK 22183 hammer mill w/100 HP 1800 RPM TEFC motor, coupler, & guard, inlet, flow diverter & magnet assembly. Two sets of 1/4" screens & one set of hammers will be provided.

Discharge will be conveyed to ground corn leg by 10" x 10'4" through screw conveyor powered by 2-HP TEFC motor.

Main Receiving & Finish Feed Leg & Distribution System to include the following:

Two 36" 137' discharge height 8,750 cubic ft. per hour Behlen galvanized bucket elevators w/rubber lined head discharge. Two (2) 40 HP shaft mounted reducer drives w/back stop driven by 40 HP TEFC motors & OSHA guards.

One (1) Hayes & Stoltz heavy duty 12" five hole electric dual swing valve w/12" seven gauge main ingredient finished feedspouts. Two (2) Hayes & Stoltz 12' 7-hole electric revolving distributor for finished feed distribution. One (1) 12" 11-hole electric revolving distributor for main distribution.

Two (2) manual two-way valves for alternating use of legs for emergency service.

Both legs will have inlet mounted magnets for tramp metal removal.

Main Receiving Conveyor & Dump Pit to include the following:

17' x 17' Riley heavy-duty easy-flow inclined conveyor w/8750/4375 cubic ft. per hour capacity. Conveyor drive to include 25 HP 2-speed motor, shaft mount reducer & guard. Receiving pit will be 8' x 6' w/bar-type grate. Hopper will be 6' in depth & will include a bypass inlet.

Ground Corn Leg to include the following:

24" x 89' discharge height 2500 cubic ft. per hour Behlen heavy duty galvanized bucket elevator w/rubber lined head & discharge. Drive to consist of 7.5 HP shaft mounted reducer w/back stops driven by 7.5 HP TEFC motor. Also included is 8" 10 gauge spouting to ground corn bin w/diverter valve to adjust bin for corn rotation.

Main Leg Support Tower & Access Stairway to include the following:

12' x 12' structural steel support tower, w/full service platform to main legs. Work platform for dual swing valve, distributor service platform for ground leg. Spiral stairway from ground level to top service platform.

Automatic Batch Controller to include the following:

Repete Sabre completely automated feed processing system controller to include computer hardware & software to control all batching & finished feed distribution task.

System will be programmed to accommodate major & microingredient scales, mixer, four liquids, one hundred formulas & three turnheads.

System will also include four-load cells for major scales & three load cells for minor scales as well as calibration of load cells.

Repete will also supply a complete manual control panel to control all equipment in total system.

Report and inventory system will have the same capabilities as previous system.

Automatic Electric Grain Sampler to include the following:

Hydraulic core sampler, handheld remote controls & receiving chamber.

Truck Scales to include the following:

10 x 60 Cardinal truck scales w/50-ton capacity, model 738 digital indicator w/model 740 discreet ticket printer w/time & date, consecutive ticket numbering, 99 weight accumulators & audit memory. Calibration included in labor.

Finished Feed Weighing System to include the following:

To consist of a Kister Morse bulk weight system including multivessle electronics w/digital readout and two microcell sensors on three legs per tank. Calibration is included in labor.

Office & Control Room to include the following:

16' x 20' office & power room w/finished interior, cabinets and insulation.

Concrete Foundations & Tunnel to include the following:

Material and labor for 46 x 60 mill foundation basement, 10 x 60 scale pit, 8 x 16 dump pit. Material & labor for the completion of three 60' diameter foundations w/deep stem wall footings, 235' of 6' x 6' tunnel, one (1) 24' diameter hopper tank foundation w/mat-type footing, & footings for dryer bin and outside legs. Not included are excavation, backfilling, backfill material or other abnormal requirements due to excessive ground water.

Electrical System to include the following:

Control Panel: Inter connect wiring and set up of manual control panel and computer batching system.

Motor Control Center: Allen Bradley Centerline 7 section motor control center for 480 VAC 3 phase 4 wire including one (1) 800 AMP main circuit breaker, one (1) 25 KVA transformer 240/120V 1 Ph 3 wire, six (6) 3 Ph circuit breakers for drying system & aeration fans, one (1) 225 AMP 18 circuit 1 PH breaker panel for lighting & control power, (25) Circuit breaker motor starter combination units, one (1) 2 speed circuit breaker motor starter unit, one (1) cubical contain 9 size one and two size one reversing motor starters w/circuit breakers, one (1) Nema one enclosure w/gaskets.

Fan Starters: three (3) size one combination starter circuit breaker units including two size one motor starters, one 30 AMP circuit breaker, start stop buttons mounted in outdoor enclosure box.

Heating & Cooling: one (1) 5 KW ceiling mount chromolox electric forced air heating unit, and One (1) white Westinghouse combination heating & cooling unit w/1500 BTU heating & 17,500 BTU cooling capacity.

Lighting: control room lighting to be provided by four, four tube florescent ceiling mounted fixtures on 2-way switches.

Work area & warehouse lighting provided by (7) 150 watt high intensity discharge, high pressure sodium explosion proof fixtures on 3-way switch.

Work platform, headhouse, tunnel and basement lighting provided by (32) 200 watt incandescent explosion proof fixtures on zone switches.

Scale and dumpit lighting provided by (2) 150 watt high pressure sodium flood lights controlled by switch in office.

High level, overflow and belt speed indicators.

High level bind indicators are provided in the 11 main ingredient bins. All conveyors will have overflow switches mounted in the discharge.

The hammermill surge hopper will have high & low indicators to control the feeding conveyors.

The two main legs & the ground corn leg will have belt speed monitoring devices to control supplying equipment & shut-down legs in the case of belt slow down or slippage.

General: there will be conv. outlets provided throughout the mill. All wiring will be run according to NEC standards. Owner will be responsible for providing power supply from power company transformer to main breaker.

Air Compressor System to include the following:

5 HP 80 gallon compressor w/air dryer & lines to all equipment requiring air operation. Each gate & valve will have regulator and lubricator at valve location. Air compressor is equipped w/low level oil shut down.

Engineering to include the following:

design and drawings for feed mill construction & foundation.

Painting to include the following:

blasting and priming all raw steel, finished coat on all mixing & batching equipment, finished coat on hopper of main ingredient bins.

Storage Tank & Accessories to include the following:

Three 18m x 20 mm metric series grain storage tanks having a capacity of 164,792 bushels, featuring 20 lb LL and 990 mph windloading, 10'8" diameter guarded work platform, continuous eave connector, four rows of grade 5 bolts, continuous roof rafters, 2" x 2" roll formed based angle. Accessories for ea. tank consist of an 18 ga. channel lock floor centralized aeration system. Two (2) 7 HP 3 PH motor 24" aeration fans. Four (4) 3.1 sq. ft. roof vents, inside ladder & brackets, one (1) heavy duty Behlen sweep auger w/5 HP 3 PH 24" powered roof exhauster, & handrails to eave access door.

Wet Holding Tank to include the following:

Grain Systems, Inc. 24' diameter 13 ring 2200 bushel hopper tank w/45 degree hopper. Tank will have inside ladder & will be accessed from the wet corn leg ladder & service platform.

Storage Tank Loading Conveyors & Catwalks to include the following:

Two (2) 70' Behlen 7000 BPH drag conveyors & one (1) 65' Behlen 7000 BPH drag conveyor, featuring galvanized steel trough w/UHMW liner, steel chain w/UHMW flights. Three (3) 10 HP class II shaft mounted drives and three (3) 10 HP 3 PH TEFC motors, two 12" electric over air two-way diverter valves w/Nema controls & limit switches to direct flow of grain into the tank or continuing conveyor. Catwalks are Brownie, type III, heavy duty, extra wide w/24" walk way and 20.5" drop thru. Support is provided by Brownie 16-1/2" sq. towers and top rafter ring of Behlen roof structure system. Also included is 4" toe board & hand rails to meet OSHA approval.

Reclaim Conveyors to include the following:

one (1) 108' 2500 BPH drag w/ three (3) 10" inlets and one (1) air gate w/Nema controls to connect bin #1 to hammer mill. One (1) 123" 2500 BPH Behlen drag w/ six (6) 10" inlets and two (2) air gates w/discharge to first conveyor. Conveyors feature galvanized trough UHMW liner, steel chain, w/UHMW flights, two (2) 5 HP class II shaft mounted reducer drives w/5 HP3 PH TEFC motors.

Wet Corn Leg & Conveyor to Fill Dryer Bin to include the following:

Behlen 64' 3000 BPH bucket elevator to include service platform, OSHA ladder & cage, vented head, rubber lined discharge, 7.5 HP class II shaft mounted reducer drive w/backstop & 7.5 HP TEFC motor.

24' 14" diameter conveyor w/5 HP class II drive & 5 HP TEFC motor, 12" hand operated R & P inlet gate & standard discharge transition to connect leg to dryer.

Also included is an intermediate discharge for transfer of product to reclaim conveyor from hopper tank.

Drying System to include the following:

Stormore EZ dry 27' diameter 10½ ring continuous flow dryer w/ 42" 30 HP LP gas drying fan, commercial control system, 18 gauge cooling floor w/24" supports, and 4HP cooling fan.

14" x 24' tube screw conveyor w/7.5 HP drive & motor, 6" sweep auger w/1.5 HP motor, two-way valve & tubing to connect discharge auger to main leg.

Micro Ingredient System to include the following:

10 - bin API micro ingredient system designed & built to the following specification:

I. Pre-mix System

- A. Ten (10) bins of 5-6 cubic ft. capacity ea., mild steel epoxy coated.

Each bin shall come complete with its own lockable, hinged fill cover & specially designed discharge feeder. To maximize feeder accuracy & repeatability, the following parameters are provided:

1. Approved feeder drive system
2. Controlled by programmable or computerized batching system
3. Weight hopper supported by three (3) load cells capable of sensing 0.01 pound resolution
4. Unit is installed in an environment conducive to good weighing practices or enclosed otherwise

All internal surfaces of the individual mild steel bins & hoppers and weight hopper will have a special food grade epoxy coating applied to improve flow ability & reduce exposure to contamination. All external surfaces will be given one prime coat & one enamel finish coat. All hoppers will have a minimum slope of 60 degrees.

Pre-mix weigh hopper will be a gross capacity of approximately five (5) cubic feet. Hopper shall be complete w/spouting board, mounting brackets & safety rods for three (3) tension load cells, (load cells by others) flexible connectors, & internal discharge grate w/air cylinder & solenoid valve pre-plumbed to outside scale hopper.

All Pre-Mix Drives to include the following safety features:

--fluid low level alarm: a liquid level switch shuts down the power unit upon low oil level. This prevents large oil spills & protects the system's components.

--fluid high temperature alarm: a high oil temperature switch set at 150 degrees shuts down the power unit upon high oil temperature.

Set of certified assembly drawings & manuals.

Lot of necessary hose & fittings pre-cut w/fittings attached for installation of hydraulic components by contractor.

Drive Package to include the following:

Furnish hydraulic components & manual select two-speed control system for a 10 bin Pre-Mix System as follows:

Power Unit

- 5 HP 1800 RPM, 480 Volt/30/60Hz, TEFC
- 16 Gallon reservoir capacity
- return line filter full flow
- sump strainer magnetic
- liquid level switch, set @ 150 degrees fahrenheit
- pressure switch set @ 100 psi
- pressure gauge 0.2000 psi
- 6 gpm loading sensing piston pump

System's General Specifications

- speed range infinite via manual flow control valves
 - HP @ screw feeder 2 @ 135 RPM
 - torque constant 1000"/#
 - hydraulic motor 9.7 cir ross or equal
 - reservoir 16 gallon capacity
 - pump 6 GPM load sensing
 - liquid level switch Low shutdown
 - oil temp. switch 150 degrees fahrenheit high shutdown
 - oil type Mobil DTE 26 or equal
- only one motor will operate at a time

Additional Work Orders

- Service catwalks and supports for the finish feed conveying systems.
- Wire liquid coline system and power supply for liquid alimet system.

Equipment Location: Hwy. 92, Winterset, Iowa, N.E. quarter of N.W. quarter and the East half of Section 34, Township 76 North, range 28 West, of the fifth PM, Madison County.

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