

**Construction Costs for a 4,000 Head Hog Finishing Facility in Manitoba & Saskatchewan**

**Prepared for: Manitoba Pork Council & Sask Pork**

**Prepared by:**

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**November, 2015  
REVISED September 29, 2023**



## **Introduction**

At the request of the Manitoba Pork Council & Sask Pork, DGH Engineering Ltd. has prepared a detailed budget estimate to construct a new hog finisher facility in today's market conditions utilizing a larger herd for improved economies of scale. A typical 4,000 Head Finisher Barn was designed as a model (see drawing, Appendix A). The facility would house the animals in four separate rooms. Staff services, building mechanical and animal receiving would be facilitated in a central corridor between the rooms. Waste collection would be facilitated through partial slats above 2' deep manure collection pits drained by underground sewer pipe to a lift station and a two cell HDPE lined earthen manure storage. Animal penning would consist of PVC paneling and gates with stainless steel mounting post and feeding would be provided by stainless steel self-feeders with exterior bins and an automated flex auger distribution system.

## **Revisions Made For September 2023**

**All unit prices were updated to reflect current industry costs.**

## **Methodology**

A detailed estimate was prepared presenting all building components along with associated costs organized according to the NMS Masterformat standard numbering system. The detailed budget for Manitoba is presented in Appendix B. The detailed budget for Saskatchewan is presented in Appendix C. The budget is based on the building's design and construction conforming to the 2010 Manitoba Farm Building Code (Note in Saskatchewan, while Farm Buildings are exempt from the Construction Codes Act, local authorities may require farm buildings to comply with certain construction standards through local building bylaws). All unit prices are based on current typical market costs and adjusted where necessary to reflect the differences in labour rates for an agricultural building vs typical commercial building labour costs. A detailed commentary organised according to the NMS divisions follows.

## **Differences Between Manitoba and Saskatchewan Pricing**

For the most part, all building materials and labour costs are for all intents and purposes at the budgetary stage the same, outside of a small variation in concrete costs. The only other major difference is in the Provincial Sales Tax Applicable in each of the provinces. This is due to both a difference in the base PST percentage rate, and more significantly a difference in what items are taxable and what items are exempt in the respective provincial sales tax acts.

## **Division 1 – General Requirements**

General Requirements include cost allowances for engineering design fees, permits, course of construction insurance, overhead and administration of the project, site survey and layout as well as miscellaneous temporary facilities (equipment rentals, construction consumables, sanitary facilities, first aid supplies, etc.)

Note that permits, insurance and overhead & administration are based on percentage values of the overall budget.

## **Division 3 – Concrete**

Concrete includes all costs associated with forming supplies, labour to form, place and pour concrete, reinforcing steel, concrete delivered to site, and precast concrete slats.

Concrete Formwork Labour unit cost rates provided are 65% of the typical unit rate for commercial construction.

Concrete reinforcing steel unit cost rates is based on current market rates for steel bars based on a detailed material take-off.

Concrete unit cost rates are based on the current market cost per yard allowing for typical discounts provided for large quantity orders in high volume pours.

Concrete slat unit cost rates are based on the current market price for slats allowing for typical discounts on single bulk orders.

### **Division 5 – Structural Steel**

Structural steel consists of a single roof framing lintel in the central corridor as well as a small cash allowance for miscellaneous steel fabrications which may be required during the course of construction.

### **Division 6 – Woods and Plastics**

Woods and plastics contains all components for the framing of the building shell, including pre-fabricated wood trusses, exterior foundation cladding in pressure treated plywood, and interior wall and ceiling cladding in OSB. Also included are 11 attic smoke stops constructed from 2 ply 7/16" OSB.

All dimensional lumber and sheathing unit costs are based on current market rates in the construction industry taking into account bulk construction package purchasing.

Pre-fabricated wood truss unit cost is based on market rate for recent comparable barns built in 2023.

All Labour unit costs are based on 90% of current commercial rates for construction labour.

### **Division 7 – Thermal & Moisture Protection**

Thermal and moisture protection contain all components for provision of building envelope insulation, vapour barriers, acoustical sealants, and 29 gauge pre-painted galvanized exterior metal cladding complete with associated trims and fasteners.

Insulation and metal cladding material unit costs are based on current market rates for agricultural construction.

Insulating labour unit costs are based on standard construction rates. There is no significant difference in terms of labour cost savings in an agricultural vs commercial project for insulation.

Metal cladding installation unit costs are based on 65% of typical commercial construction rates to reflect economies of construction due to simplicity and large surface areas of typical hog facility building layouts.

### **Division 8 – Doors & Windows**

Doors & windows include all pre-fabricated and site built doors, including overhead load-out door and associated door hardware. All unit costs are based on typical construction rates.

### **Division 9 – Finishes**

Finishes includes suspended ceiling and drywall in the staff/service areas, as well as painting of the OSB wall and ceiling cladding through-out the facility. All unit costs based on current typical market rates.

The exterior loadbearing walls need to be fire-rated to 45 minutes which will require one layer of 5/8" moisture resistant fire rated drywall under the interior wood sheathing.

### **Division 10 – Specialities**

Fire protection specialties provided for in the estimate are limited to 11 fire extinguishers only (two in each animal housing room, one in mechanical room and two in the central corridor)

Note that depending on local municipal firefighting infrastructure, an additional firefighting water holding pond may need to be constructed. If required, it would need to hold 96,000 gallons of water. See "optional prices" at the end of the report for the estimated cost of constructing a holding pond.

This plan for a 4000 head finisher barn involves a floor area of 35,464 sq.ft. As this area exceeds the allowable limit of 25,800 ft.sq. for an unrated ceiling, the ceiling must be rated 45 minutes. The budget includes special 2ply smoke stops as indicated under Division 6. These smoke stops have been accepted as an equivalent to installing 5/8" type X drywall on the ceiling, thereby providing the required rating. Notwithstanding this equivalent method of achieving a 45 min rated ceiling has been accepted by the Office of the Fire Commissioner, this policy is subject to change at any time at the discretion of the OFC.

If a link is constructed to connect multiple finisher facilities, the minimum separation distance would be 12 metres to avoid rating the walls more than 45 minutes. Note that the walls are required to be rated to 45 minutes because they are supporting a rated ceiling. The link itself will also require a 45 minute fire rating regardless of distance and fire rated doors would be required at each end of the link.

### **Division 11 – Equipment**

The following animal equipment is included in the budget estimate:

#### **Animal Penning:**

Animal penning is provided as per plan layout. Building walls in the penning area will be 4' of concrete above the slatted floor. Pen walls are constructed of 2" thick PVC panels, 38" high, supported by stainless steel posts and wall straps. Pen gates are to be 1 3/4" thick PVC panels with stainless steel bullnose hinge. All gates are 10' long hinged each end. Pens are 10' wide x 22' long, housing 27-28 animals per pen.

#### **Animal Heating and Ventilation:**

All exhaust and recirculation fans are provided including associated hardware (hoods and backdraft dampers, winter closures for stage 3/stage 4 fans).

All ceiling air inlets are included complete with actuators and all connecting hardware, pulleys, and manual hand winches.

Gas unit heaters are to be installed for supplementary winter heating.

Environmental controllers, temperature probes, back-up thermostats and manual fan controls are included in the equipment package.

### **Watering System**

All components to construct a complete watering system are provided including:

Water Meter

1 1/2" Main water supply lines with 3/4" branch lines, PVC Schedule 40.

1 1/2" High Volume wash drops at each end of the animal rooms and in the load out area, including quick connect camlock coupler for attachment of wash down fire hose.

Two 75' high volume wash down hoses with connectors and adjustable nozzle.

3/4" supply lines with 1/4" hose drops to double nipple drinkers with room shut off ball-valves, as well as isolation shut off ball-valves at each drinker connecting drop. Note isolation valves for drinkers are PVC schedule 40 ball valves, not nylon valves, for leak free operation.

Separate spray mister lines for animal cooling complete with electronic solenoid valve for room activation and manual cooling bypass. Solenoid valve has unions and shut-off valves at either end to facilitate easy replacement without interruption of water service.

Clamps, screws, fittings, glue, primer, unions & shut-off valves for maintenance isolation, Teflon tape and all materials required for a complete installation are. all included.

### **High Pressure Water system**

All components are provided for a functional high pressure barn wash system serviced by a centrally located 10 HP high pressure washer including:

3/4" Main line with 1/2" branch lines to supply high pressure water throughout facility. All pipe and fittings Galvanized Steel Pipe, Schedule 80.

Two high pressure wash drops offset in each room and one in the load-out area each complete with high pressure drop hose and shut off valve.

150' Pressure wash hose with wand.

### **Feed System**

All components to construct a complete automated feed delivery system (flex auger type) including:

Double Sided Stainless Steel Wet/Dry Feeders

PVC Tube with Flex Auger

¾ HP Feed Motors (3 per room)

22.64 tonne feed bins with unloaders, 1 feed bin provided per room. Note all four feed bins are located centrally at the entrance to the building to eliminate the requirement for an access ring road.

Control units, time clock, and proximity sensors

All related hardware and mounting materials

### **Lift Station**

Complete concrete lift station including:

5' diameter concrete well cribbing

10HP submersible pump including controls, motor starter, floats, etc.

Stainless steel guide rails and 2,000 lb winch

### **Sewer Pipe**

Complete under floor sewer package for typical under slab IPEX ultra-rib system with rubber pit plugs

### **Miscellaneous Components**

Agri-Alert Alarm system

Load out Ramp

Weigh Scale for single animals.

All animal equipment components are based on current market list prices with a 15% discount applied to represent a typical "package price" reduction when purchasing a complete animal equipment package for construction of a new barn.

Animal equipment installation is based on hours spent on a recently constructed 2,000 Head finisher barn at current hourly labour rates.

### **Division 15 – Mechanical**

Process Piping - Installation of 1" Schedule 40 Steel Pipe in facility to supply propane or natural gas to in room animal unit heaters. Unit costs are based on 85% of typical commercial rates to account for simplicity of surface mounted agricultural gas line layout.

Plumbing Fixtures – Plumbing fixtures for staff are based on "Assemblies" costs which include the fixtures themselves as well as associated supply, waste and vent piping. Assembly unit costs are 85% of typical commercial rates to reflect simplicity of agricultural staff service layouts.

Heat Generating Equipment - Assembly cost for provision of hot water tank to supply domestic hot water requirements as well as floor heat. Unit cost is 65% of commercial rate.

HVAC – HVAC includes baseboard heaters, washroom exhaust fan, and components for in office floor heating system. All materials and labour unit costs are based on current rates.

### **Division 16 – Electrical**

Building electrical is based on a “per square foot cost allowance” for typical barns constructed in Manitoba.

### **Division 31 – Earthworks**

Barn pad – estimate includes the following items:

Stripping and stockpiling on-site of all topsoil and excavation to 2’ below finished elevation of all floors and pits.

Backfilling of 24” of granular material beneath the entire building footprint.

Trenching and backfilling of all sewer piping below the building including sand bedding around the pipes.

Backfilling three feet around the perimeter of the building and sloping away from the foundation walls for drainage.

Roads and Parking – Requirements will vary depending on site conditions and location of barns. Costs provided are based on typical site works required. Assumptions allow for, a 30’ x 48’ gravel parking area, and a 25’ wide entrance driveway 150’ long along with a drainage ditch. Costs include earthworks to complete the road, a stabilizing geo-grid over road surfaces, and 18” of compacted road gravel. Note that the ring road has been eliminated as feed bins have been re-located to a central location to facilitate access from the main road.

Earthen Manure Storage – Costs included are for all earthworks required to construct a 2-cell earthen manure storage and required concrete ramps and spillways complete with a High Density Polyethylene Liner for containment. Costs are also included for a 75’ run of sewer pipe connecting the EMS to the Manure Lift Station.

**NOTE:** No provision has been provided in the estimate for an odour control cover over the earthen manure storage. If a cover were to be required on a given site, the cost of a plastic cover is expected to be approximately \$170,000.00 supplied and installed.

### **Division 33 – Utilities**

Costs for utilities connection will vary depending on site location, available utilities infrastructure, natural gas or propane, and municipal water or water table depth. Cost included for connection of gas, hydro, and water are cash allowances only for an estimated typical cost.

### **Contingency**

A contingency equal to 5% of the total cost of the facility is included for incidentals, unique requirements, and unforeseen issues arising during the course of construction.

### **Cost Summary**

**Manitoba** : The total estimated cost of the 4,000 head finisher barn including all services, materials, equipment, labour, site development works and contingency is \$3,310,351.00. This total cost translates into \$93.34 per square foot or \$828/per pig place. Separating out site development, earth works, utilities and contingency the nominal construction cost of the facility is \$76.68 per square foot for \$680 per pig place. The project budget does not include any cost for land, considering that the project would be constructed on an existing farm.

**Saskatchewan** : The total estimated cost of the 4,000 head finisher barn including all services, materials, equipment, labour, site development works and contingency is \$3,376,548.00. This total cost translates into \$95.21 per square foot or \$844/per pig place. Separating out site development, earth works, utilities and contingency the nominal construction cost of the facility is \$78.53 per square foot for \$696 per pig place. The project budget does not include any cost for land, considering that the project would be constructed on an existing farm.

### **OPTIONAL PRICES**

The following items are not included in the base estimate for the barn and would be costs over and above the estimated price of construction:

Upgrade interior wall and ceiling cladding from painted OSB to interlocking PVC liner panels:  
**\$192,250.00**

Add odour control cover to Earthen Manure Storage:  
**\$170,000.00**

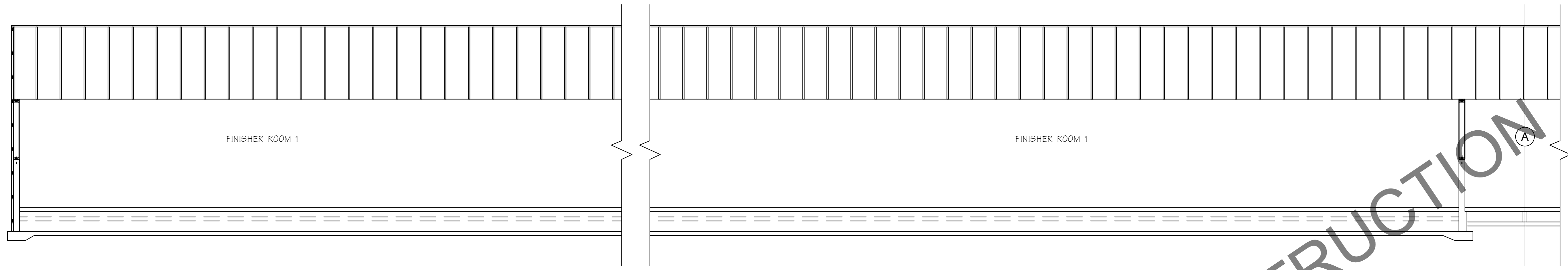
Add 45,000 Gallon Fire Fighting water storage pond:  
**\$20,300.00**

Upgrade to fully slatted pen floors with under barn manure storage :  
**~\$965,000.00 (see Appendix D for cost summary)**

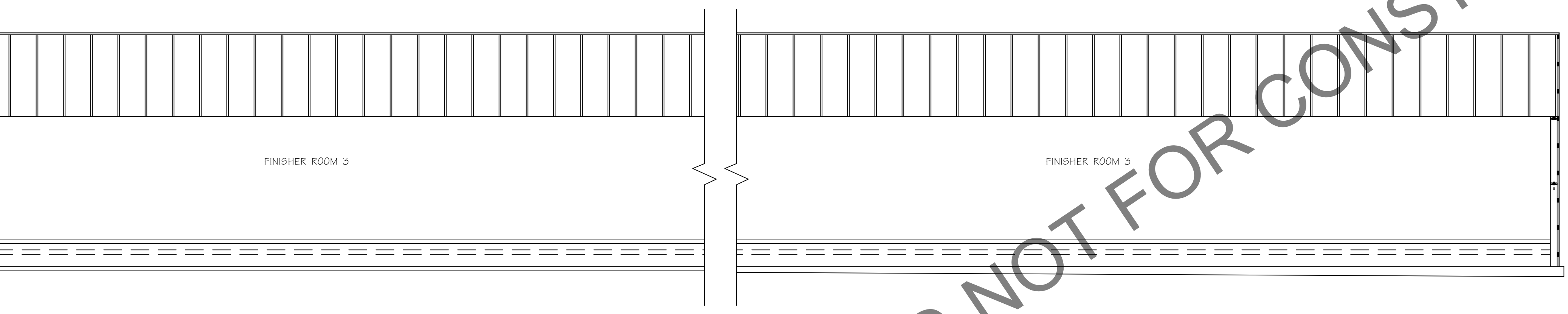




T/O WALL  
 EL. 109'-0"  
 T/O UPSTAND  
 EL. 104'-0"  
 T/O FLOOR  
 EL. 100'-0"  
 T/O FOOTING  
 EL. 98'-0"



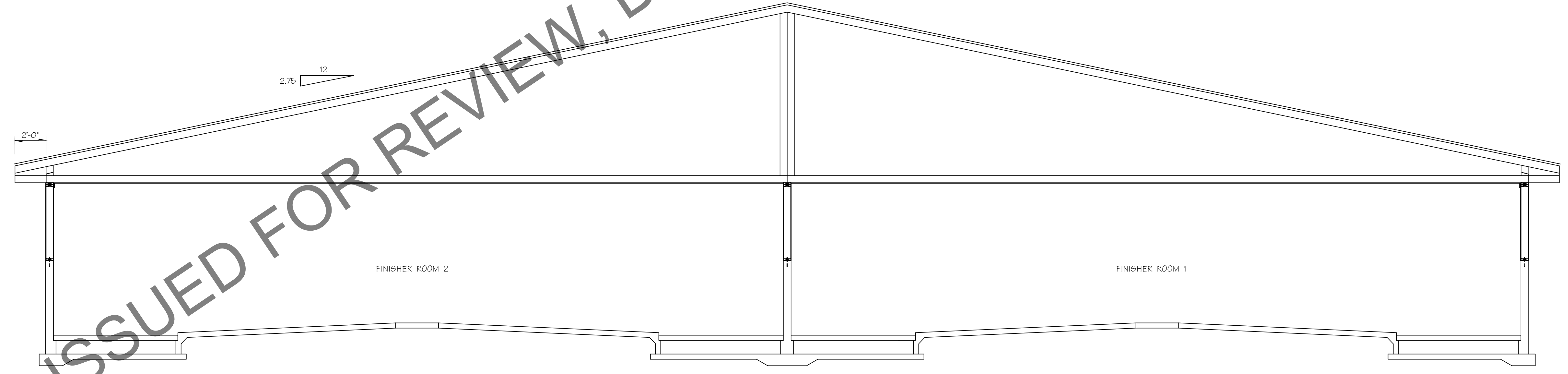
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 EL. 98'-0"



T/O WALL  
 EL. 109'-0"  
 T/O UPSTAND  
 EL. 104'-0"  
 T/O FLOOR  
 EL. 100'-0"  
 T/O FOOTING  
 EL. 98'-0"

**1 BUILDING SECTION**  
 B2 SCALE: 3/16" = 1'-0"  
 SHEET REF. B1

T/O WALL  
 EL. 109'-0"  
 T/O UPSTAND  
 EL. 104'-0"  
 T/O FLOOR  
 EL. 100'-0"  
 T/O FOOTING  
 EL. 98'-0"



**2 BUILDING SECTION**  
 B2 SCALE: 1/4" = 1'-0"  
 SHEET REF. B1

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NOT FOR  
CONSTRUCTION

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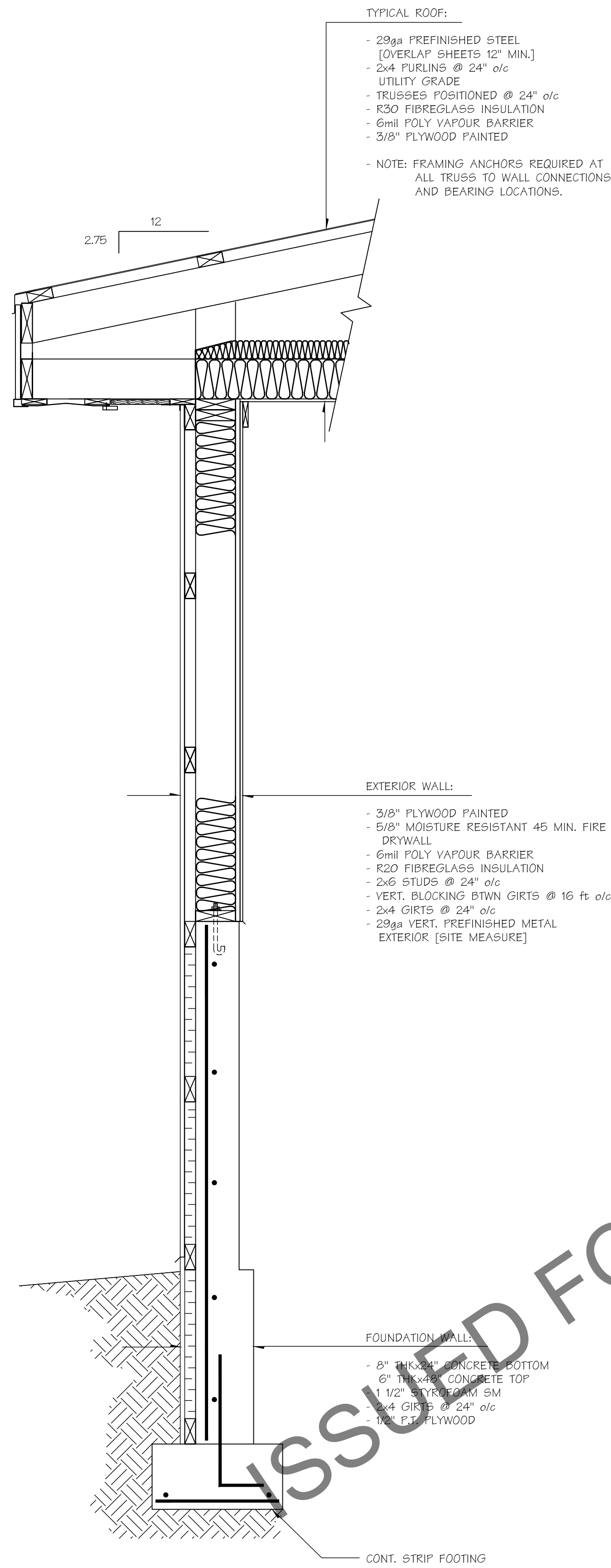
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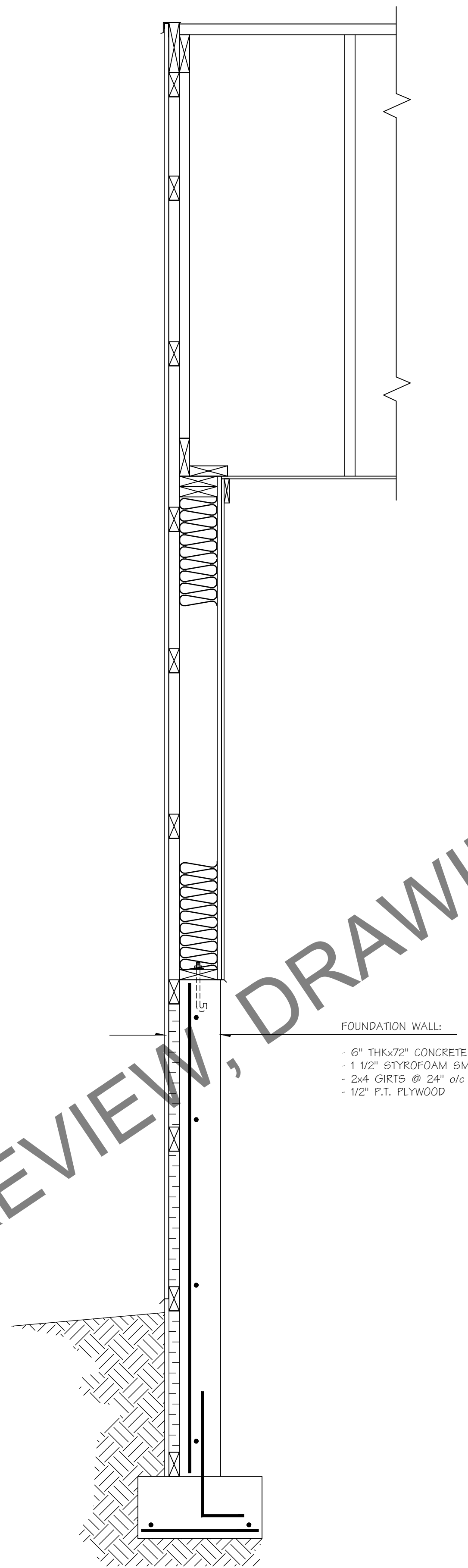
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CLIENT MANITOBA PORK COUNCIL	DESIGNED	COORDINATOR
	DRAWN NB	IH
DATE JUNE/2015	SCALE A5 NOTED	XREF PATH(S)

PROJECT TITLE FEEDER BARN	PROJECT NUMBER: 1306-004
LEGAL DESCRIPTION BUILDING SECTIONS	REV. 0 R00



**1**  
TYPICAL SIDE WALL SECTION  
SCALE: 1" = 1'-0"



**2**  
TYPICAL END WALL SECTION  
SCALE: 1" = 1'-0"

ISSUED FOR REVIEW, DRAWING NOT FOR CONSTRUCTION

<p>PROJECT TITLE <b>FEEDER BARN</b></p> <p>LEGAL DESCRIPTION <b>WALL SECTIONS</b></p> <p>PROJECT NUMBER: 1306-004 REV. <input type="checkbox"/> R00</p>	<p>CLIENT <b>MANITOBA PORK COUNCIL</b></p> <p>DESIGNED NIB</p> <p>DATE JUNE/2015</p> <p>COORDINATOR IH</p> <p>SCALE A/S NOTED</p> <p>XREF PATH(S)</p>	<p>ENGINEER'S SEAL</p> <p style="font-size: 24px; font-weight: bold; transform: rotate(-45deg); opacity: 0.5;">PRELIMINARY DRAWING, NOT FOR CONSTRUCTION</p> <p>ISSUED FOR REVIEW</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>REVISION</th> <th>ISSUE</th> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> <th>INITIAL</th> </tr> <tr> <td> </td> <td> </td> <td>01</td> <td>2015/11/05</td> <td>ISSUED FOR PERMIT</td> <td>SSM</td> </tr> </table>	REVISION	ISSUE	NO.	DATE	DESCRIPTION	INITIAL			01	2015/11/05	ISSUED FOR PERMIT	SSM
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Manitoba Pork Council

Appendix B

Feeder Barn Budget

Sample Barn, 4000 Head Finisher, 35464 Square Feet

Prepared by DGH Engineering Ltd.

01/10/2015 REVISED September 29, 2023

Item	Description	Unit	Quantity	Base Price - Material	Base Price - Labour	Base Price - Equipmen	Sub-Total Material	Sub-Total Labour & Equipment	Sub-Total Unit	Sub-Toral Category	Division Sub- Total Materials	Division Sub- Total Labour & Equipment	Division Total	Cost/sq. ft.
<b>Division 1 -General Requirements</b>											\$ 20,200.00	\$ 282,601.46	\$ 302,801.46	\$ 8.54
<b>Design, Engineering, and Construction Support</b>											\$ 60,200.00			
	Design, Engineering, and Construction Support	fee	1	\$ 41,300.00			\$ -	\$ 41,300.00	\$ 41,300.00					
	EMS Design Fees & Certification	fee	1	\$ 18,900.00			\$ -	\$ 18,900.00	\$ 18,900.00					
<b>1300</b>	<b>Administrative Requirements</b>									\$ 216,101.46				\$ 6.09
	Permits	fee	0.01	2,401,127.28			\$ -	\$ 24,011.27	\$ 24,011.27					
	Insurance	fee	0.03	2,401,127.28			\$ -	\$ 72,033.82	\$ 72,033.82					
	Overhead/Administration	allow	0.05	2,401,127.28			\$ -	\$ 120,056.36	\$ 120,056.36					
<b>1400</b>	<b>Quality Requirements</b>	allow	1	\$ 2,500.00			\$ -	\$ 2,500.00	\$ 2,500.00	\$ 2,500.00				\$ 0.07
<b>1500</b>	<b>Temporary Facilities &amp; Controls</b>									\$ 20,200.00				\$ 0.57
	Miscellaneous Hardware & tools/Office Supplies/First Aid	allow	1	\$ 7,700.00			\$ 7,700.00	\$ -	\$ 7,700.00					
	Equipment Rental	allow	1	\$ 12,500.00			\$ 12,500.00	\$ -	\$ 12,500.00					
<b>1700</b>	<b>Execution Requirements</b>	allow	1	\$ 3,800.00			\$ -	\$ 3,800.00	\$ 3,800.00	\$ 3,800.00				\$ 0.11
<b>Division 3 - Concrete</b>											\$ 346,272.20	\$ 203,324.74	\$ 549,596.94	\$ 15.50
<b>3101</b>	<b>Concrete Formwork</b>									\$ 223,680.83				\$ 6.31
	<i>Forms in Place</i>													
	Footings (9"x18") (1.55FCA/lin ft)	lin ft	1504	\$ 1.71	\$ 3.88	\$ -	\$ 2,571.84	\$ 5,834.02	\$ 8,405.86					
	6' Grade Beam w/Slat Provision One Side	lin ft	820	\$ 9.86	\$ 24.93		\$ 8,088.48	\$ 20,442.60	\$ 28,531.08					
	6' Grade Beam w/Slat Provision Both Sides	lin ft	360	\$ 9.86	\$ 24.93		\$ 3,551.04	\$ 8,974.80	\$ 12,525.84					
	6' Grade Beam	lin ft	324	\$ 8.42	\$ 19.44		\$ 2,729.38	\$ 6,298.56	\$ 9,027.94					
	Pit Walls (2' x 4") (45FCA/lin ft)	lin ft	1490	\$ 2.59	\$ 14.58	\$ -	\$ 3,862.08	\$ 21,724.20	\$ 25,586.28					
	Pit Floors	sq ft	12094	\$ 0.44	\$ 2.21	\$ -	\$ 5,355.33	\$ 26,776.67	\$ 32,132.00					
	Floor	sq ft	24463	\$ 0.44	\$ 2.71	\$ -	\$ 10,832.33	\$ 66,197.55	\$ 77,029.88					
	2' Concrete Curb b/t Office and Loadout	lin ft	16	\$ 2.59	\$ 14.58		\$ 41.47	\$ 233.28	\$ 274.75					
	Bin Pads	sq ft	576	\$ 0.82	\$ 6.15	\$ -	\$ 472.32	\$ 3,542.40	\$ 4,014.72					
	Aprons	sq ft	96	\$ 0.82	\$ 6.15	\$ -	\$ 78.72	\$ 590.40	\$ 669.12					
	<i>Pour Concrete</i>													
	Footings (9"x18")	cu yds	63	\$ -	\$ 21.50	\$ 5.90	\$ -	\$ 1,726.20	\$ 1,726.20					
	6' Grade Beam w/Slat Provision One Side	cu yds	102	\$ -	\$ 32.50	\$ 8.85	\$ -	\$ 4,217.70	\$ 4,217.70					
	6' Grade Beam w/Slat Provision Both Sides	cu yds	49	\$ -	\$ 32.50	\$ 8.85	\$ -	\$ 2,026.15	\$ 2,026.15					
	6' Grade Beam	cu yds	36	\$ -	\$ 32.50	\$ 8.85	\$ -	\$ 1,488.60	\$ 1,488.60					
	FIP Pit Walls (2' x 4")	cu yds	37	\$ -	\$ 17.95	\$ 4.93	\$ -	\$ 846.56	\$ 846.56					
	Pit Floors	cu yds	150	\$ -	\$ 25.00	\$ 6.80	\$ -	\$ 4,770.00	\$ 4,770.00					
	Floor	cu yds	302	\$ -	\$ 25.00	\$ 6.80	\$ -	\$ 9,603.60	\$ 9,603.60					
	Office Curbs	cu yds	1	\$ -	\$ 32.50	\$ 8.85	\$ -	\$ 41.35	\$ 41.35					
	Bin Pads	cu yds	22	\$ -	\$ 25.00	\$ 6.80	\$ -	\$ 699.60	\$ 699.60					
	Aprons	cu yds	2	\$ -	\$ 25.00	\$ 6.80	\$ -	\$ 63.60	\$ 63.60					
<b>3200</b>	<b>Concrete Reinforcement</b>									\$ 36,652.33				\$ 1.03
	Footings													
	15M Rebar	ea	172	\$ 14.65			\$ 2,519.80	\$ -	\$ 2,519.80					
	10M Dowels	ea	750	\$ 2.63			\$ 1,972.50	\$ -	\$ 1,972.50					
	10M Rebar	ea	73	\$ 7.40			\$ 540.20	\$ -	\$ 540.20					
	Grade Beams													
	15M Rebar	ea	462	\$ 14.65			\$ 6,768.30	\$ -	\$ 6,768.30					

	10M Rebar	ea	282	\$ 7.40			\$ 2,086.80	\$ -	\$ 2,086.80											
	10M Dowel	ea	816	\$ 1.82			\$ 1,485.12	\$ -	\$ 1,485.12											
	Pit Walls																			
	10M Rebar	ea	227	\$ 7.40			\$ 1,679.80	\$ -	\$ 1,679.80											
	Pit Floors																			
	10M Rebar	ea	829	\$ 7.40			\$ 6,131.07	\$ -	\$ 6,131.07											
	Floor																			
	10M Rebar	ea	1555	\$ 7.40			\$ 11,505.34	\$ -	\$ 11,505.34											
	Office Curbs																			
	10M Rebar	ea	4	\$ 7.40			\$ 29.60	\$ -	\$ 29.60											
	Bin Pads & Aprons																			
	15M Rebar	ea	132	\$ 14.65			\$ 1,933.80	\$ -	\$ 1,933.80											
<b>3310</b>	<b>Basic Concrete Materials</b>																			
	Footings (9"x18") (0.0417yds/lin ft)	cu yds	70	\$ 202.88		\$ 6.15	\$ 14,201.60	\$ 430.50	\$ 14,632.10											
	6' Grade Beam w/Slat Provision One Side	cu yds	113	\$ 202.88		\$ 6.15	\$ 22,925.44	\$ 694.95	\$ 23,620.39											
	6' Grade Beam w/Slat Provision Both Sides	cu yds	54	\$ 202.88		\$ 6.15	\$ 10,955.52	\$ 332.10	\$ 11,287.62											
	6' Grade Beam	cu yds	40	\$ 202.88		\$ 6.15	\$ 8,115.20	\$ 246.00	\$ 8,361.20											
	Pit Walls (2' x 4")	cu yds	41	\$ 202.88		\$ 6.15	\$ 8,318.08	\$ 252.15	\$ 8,570.23											
	Pit Floors	cu yds	165	\$ 202.88		\$ 6.15	\$ 33,475.20	\$ 1,014.75	\$ 34,489.95											
	Floor	cu yds	333	\$ 202.88		\$ 6.15	\$ 67,559.04	\$ 2,047.95	\$ 69,606.99											
	Office Curbs	cu yds	2	\$ 202.88		\$ 6.15	\$ 405.76	\$ 12.30	\$ 418.06											
	Bin Pads	cu yds	25	\$ 202.88		\$ 6.15	\$ 5,072.00	\$ 153.75	\$ 5,225.75											
	Aprons	cu yds	3	\$ 202.88		\$ 6.15	\$ 608.64	\$ 18.45	\$ 627.09											
<b>3480</b>	<b>Precast Concrete Specialties (Slats)</b>																			
	Slats	sq ft	12024	\$ 8.35			\$ 100,400.40	\$ -	\$ 100,400.40											
	Install Slats	sq ft	12024	\$ 0.64	\$ 0.36	\$ -	\$ -	\$ 12,024.00	\$ 12,024.00											
	<b>Division 5 - Structural Steel</b>																			
<b>5100</b>	<b>Structural Steel Columns and Beams</b>																			
	C9x15	lin ft	11	\$ 14.85	\$ 70.05	\$ 6.60	\$ 163.35	\$ 843.15	\$ 1,006.50											
<b>5500</b>	<b>Metal Fabrications</b>																			
	Misc Fabrications	allow	1	\$ 1,250.00			\$ 1,250.00	\$ -	\$ 1,250.00											
	<b>Division 6 - Wood &amp; Plastics</b>																			
<b>6090</b>	<b>Fasteners</b>																			
	1/2" Anchor Bolts w Nut and Washer	ea	375	\$ 1.69			\$ 633.75	\$ -	\$ 633.75											
	Edge Purlin Splice (T&B) 20ga 4"x20" Steel Strap	ea	128	\$ 6.50			\$ 832.00	\$ -	\$ 832.00											
	Simpson Strong Tie at Truss Ends	ea	372	\$ 0.65			\$ 241.80	\$ -	\$ 241.80											
	Allowance Nails & Screws	allow	1	\$ 8,750.00			\$ 8,750.00	\$ -	\$ 8,750.00											
<b>6110</b>	<b>Structural Wood Framing</b>																			
	2x6 Stud Wall @ 24" o/c 9' ht(Incl 2xT.P. & PT B.P.)	lin ft	24	\$ 9.06	\$ 6.80		\$ 217.44	\$ 163.20	\$ 380.64											
	2x6 Stud Wall @ 24" o/c 6' ht(Incl 2xT.P. & PT B.P.)	lin ft	1490	\$ 6.99	\$ 6.80		\$ 10,415.10	\$ 10,132.00	\$ 20,547.10											
	2x4 Stud Wall @ 16" o/c 9' ht(Incl 2xT.P. & PT B.P.)	lin ft	6	\$ 5.96	\$ 6.25		\$ 35.76	\$ 37.50	\$ 73.26											
	2x4 Girts @ 24"	BF	3120	\$ 1.01	\$ 1.33		\$ 3,151.20	\$ 4,155.84	\$ 7,307.04											
	2x4 PT Girts, to Concrete	BF	1248	\$ 1.82	\$ 1.62		\$ 2,271.36	\$ 2,021.76	\$ 4,293.12											
	2x6 Columns	BF	596	\$ 1.04	\$ 0.85		\$ 619.84	\$ 504.22	\$ 1,124.06											
	2x6 Header	BF	287	\$ 1.04	\$ 2.34		\$ 298.48	\$ 671.58	\$ 970.06											
	2 ply 2x8 Lintel	BF	104	\$ 1.04	\$ 1.87		\$ 108.16	\$ 194.69	\$ 302.85											
	2 ply 2x10 Lintel	BF	300	\$ 1.21	\$ 1.60		\$ 363.00	\$ 480.60	\$ 843.60											
	2 ply 2x12 Lintel	BF	44	\$ 1.90	\$ 1.42		\$ 83.60	\$ 62.57	\$ 146.17											
	2x4 Purlins (incl'd Valleys)	BF	12529	\$ 1.16	\$ 1.33		\$ 14,533.64	\$ 16,688.63	\$ 31,222.27											
	2x4 Lateral Bracing	BF	3968	\$ 1.01	\$ 1.33		\$ 4,007.68	\$ 5,285.38	\$ 9,293.06											
	2x6 Vertical Sway Bracing	BF	1320	\$ 1.01	\$ 1.33		\$ 1,333.20	\$ 1,758.24	\$ 3,091.44											
	2x6 Anchor Bracing	BF	360	\$ 1.01	\$ 1.33		\$ 363.60	\$ 479.52	\$ 843.12											
	2x6 Blocking under Splice Plates	BF	512	\$ 1.04	\$ 1.83		\$ 532.48	\$ 936.96	\$ 1,469.44											
	1x4 Web Nailer	BF	248	\$ 1.22	\$ 2.82		\$ 302.56	\$ 698.62	\$ 1,001.18											
	2x4 Ceiling Strapping	BF	11628	\$ 1.01	\$ 1.44		\$ 11,744.28	\$ 16,744.32	\$ 28,488.60											
	2x6 Purlins	BF	1488	\$ 1.04	\$ 0.95		\$ 1,547.52	\$ 1,406.16	\$ 2,953.68											
	2x6 Heels	BF	1488	\$ 1.04	\$ 1.69		\$ 1,547.52	\$ 2,517.70	\$ 4,065.22											

	1x4 Soffit Nailer	BF	744	\$ 1.22	\$ 2.81	\$ 907.68	\$ 2,089.15	\$ 2,996.83						
	1x4 Painted Trim Board	BF	686	\$ 1.22	\$ 2.00	\$ 836.92	\$ 1,372.00	\$ 2,208.92						
	Soffit Doors, 8'	ea	94	\$ 66.06	\$ 30.00	\$ 6,209.64	\$ 2,820.00	\$ 9,029.64						
	2x6 P.T. rough bucks for doors/windows	BF	120	\$ 1.82	\$ 1.95	\$ 218.40	\$ 234.00	\$ 452.40						
	2x4 P.T. sill plate for doors/windows	BF	80	\$ 1.82	\$ 1.95	\$ 145.60	\$ 156.00	\$ 301.60						
	Interior Galv. Drip Flashing	lin ft	1944	\$ 1.10	\$ 1.17	\$ 2,138.40	\$ 2,274.48	\$ 4,412.88						
	2x2 Recirc duct	BF	950	\$ 1.22	\$ 1.88	\$ 1,159.49	\$ 1,786.75	\$ 2,946.24						
<b>6160</b>	<b>Sheathing</b>								<b>\$ 84,389.20</b>					<b>\$ 2.38</b>
	1/2" P.T. Plywood Sheathing	sq ft	1872	\$ 2.06	\$ 0.83	\$ 3,856.32	\$ 1,553.76	\$ 5,410.08						
	3/8" OSB Sheathing Recirc duct	sq ft	2160	\$ 0.56	\$ 0.69	\$ 1,209.60	\$ 1,490.40	\$ 2,700.00						
	3/8" OSB for Attic Smoke Stops	sq ft	13200	\$ 0.56	\$ 0.63	\$ 7,392.00	\$ 8,316.00	\$ 15,708.00						
	3/8" OSB to Wall, P.N.	sq ft	12360	\$ 0.56	\$ 0.63	\$ 6,921.60	\$ 7,786.80	\$ 14,708.40						
	3/8" OSB to Gables, P.N.	sq ft	1288	\$ 0.56	\$ 0.63	\$ 721.28	\$ 811.44	\$ 1,532.72						
	3/8" OSB to Ceiling, P.N.	sq ft	35464	\$ 0.56	\$ 0.69	\$ 19,859.84	\$ 24,470.16	\$ 44,330.00						
<b>6170</b>	<b>Pre-Fabricated Structural Wood</b>								<b>\$ 177,142.68</b>					<b>\$ 5.00</b>
	Pre-Fabricated Trusses w 2' Overhang	sq ft	35464	\$ 4.20	\$ 0.80	\$ 148,771.48	\$ 28,371.20	\$ 177,142.68						
	<b>Division 7 - Thermal &amp; Moisture Protection</b>									<b>\$ 146,245.74</b>	<b>\$ 121,210.82</b>	<b>\$ 267,456.55</b>	<b>\$ 7.54</b>	
<b>7210</b>	<b>Building Insulation</b>								<b>\$ 87,713.69</b>					<b>\$ 2.47</b>
	R30 blow in Insulation	sq ft	35464	\$ 0.82	\$ 0.64	\$ 29,080.48	\$ 34,754.72	\$ 63,835.20						
	Insulation Stops	ea	374	\$ 3.94	\$ 1.50	\$ 1,474.31	\$ 561.00	\$ 2,035.31						
	1 1/2" Polystyrene (R7.69) for Recirc duct detail	sq ft	1440	\$ 1.37	\$ 0.64	\$ 1,972.80	\$ 921.60	\$ 2,894.40						
	Perimeter Ins., 1 1/2" Polystyrene (R7.69) around perimeter	sq ft	30	\$ 1.37	\$ 0.64	\$ 41.10	\$ 19.20	\$ 60.30						
	Perimeter Ins., 1 1/2" Polystyrene (R7.69) around perimeter	sq ft	5616	\$ 1.37	\$ 0.64	\$ 7,693.92	\$ 3,594.24	\$ 11,288.16						
	6"x23" Fibreglass Batts Unfaced (R20)	sq ft	5616	\$ 0.93	\$ 0.35	\$ 5,222.88	\$ 1,965.60	\$ 7,188.48						
<b>7260</b>	<b>Vapour Retarders</b>								<b>\$ 9,264.84</b>					<b>\$ 0.26</b>
	Urethane Sill Gasket	lin ft	936	\$ 0.24	\$ 0.20	\$ 224.64	\$ 187.20	\$ 411.84						
	6mil Poly Vapour Barrier	C. sq ft	454	\$ 6.85	\$ 12.65	\$ 3,109.90	\$ 5,743.10	\$ 8,853.00						
<b>7400</b>	<b>Roofing &amp; Siding Panels</b>								<b>\$ 167,152.84</b>					<b>\$ 4.71</b>
	10' Wall Metal Cladding	lin ft	3280	\$ 4.38	\$ 4.58	\$ 14,366.40	\$ 15,022.40	\$ 29,388.80						
	26' Roof Metal Cladding	lin ft	13000	\$ 4.38	\$ 3.49	\$ 56,940.00	\$ 45,370.00	\$ 102,310.00						
	12' Wall Gable Metal Cladding	lin ft	768	\$ 4.38	\$ 4.58	\$ 3,363.84	\$ 3,517.44	\$ 6,881.28						
	2' Facsia	lin ft	500	\$ 4.90	\$ 4.58	\$ 2,450.00	\$ 2,290.00	\$ 4,740.00						
	2' Soffit	sq ft	1484	\$ 1.05	\$ 2.90	\$ 1,558.20	\$ 4,302.12	\$ 5,860.32						
	J Trim	lin ft	1800	\$ 1.26	\$ -	\$ 2,268.00	\$ -	\$ 2,268.00						
	Rake Flashing	lin ft	750	\$ 1.94	\$ -	\$ 1,455.00	\$ -	\$ 1,455.00						
	Divider Flashing	lin ft	200	\$ 1.26	\$ -	\$ 252.00	\$ -	\$ 252.00						
	Base Drip Flashing	lin ft	936	\$ 1.26	\$ -	\$ 1,179.36	\$ -	\$ 1,179.36						
	Outside Corner	lin ft	40	\$ 3.20	\$ -	\$ 128.00	\$ -	\$ 128.00						
	Fascia	lin ft	750	\$ 1.84	\$ -	\$ 1,380.00	\$ -	\$ 1,380.00						
	Gable Flashing	lin ft	200	\$ 2.99	\$ -	\$ 598.00	\$ -	\$ 598.00						
	Ridge Cap	lin ft	380	\$ 3.15	\$ -	\$ 1,197.00	\$ -	\$ 1,197.00						
	#10 x 1 1/2" Pre-painted Screws w/neoprene washer	ea	49588	\$ 0.13	\$ -	\$ 6,446.44	\$ -	\$ 6,446.44						
	#12 x 5/8" Pre-painted Stitch Screw w/neoprene washer	ea	17048	\$ 0.18	\$ -	\$ 3,068.64	\$ -	\$ 3,068.64						
<b>7900</b>	<b>Joint Sealers</b>								<b>\$ 3,325.19</b>					<b>\$ 0.09</b>
	Acoustical Sealant, 3/4" dia	c. lin ft	37	\$ 14.87	\$ 75.00	\$ 550.19	\$ 2,775.00	\$ 3,325.19						
	<b>Division 8 - Doors &amp; Windows</b>									<b>\$ 23,255.65</b>	<b>\$ 5,354.35</b>	<b>\$ 28,610.00</b>	<b>\$ 0.81</b>	
<b>8100</b>	<b>Steel Doors &amp; Frame</b>								<b>\$ 6,790.00</b>					
	Steel Door, Insulated, 18 ga, 3'0" x 6' 8" with Frame	ea	7	\$ 615.00	\$ 62.50	\$ 4,305.00	\$ 437.50	\$ 4,742.50						
	Steel KD Frame, 16 ga, single	ea	7	\$ 234.00	\$ 58.50	\$ 1,638.00	\$ 409.50	\$ 2,047.50						
<b>8200</b>	<b>Wood &amp; Plastic Doors</b>								<b>\$ 2,468.85</b>					<b>\$ 0.07</b>
	Site Built Wood Door 3'0" x 6'8"	ea	5	\$ 225.00	\$ 135.00	\$ 1,125.00	\$ 675.00	\$ 1,800.00						
	Wood Frame, 5/4x4 9/16" deep	lin ft	65	\$ 8.10	\$ 2.19	\$ 526.50	\$ 142.35	\$ 668.85						
<b>8300</b>	<b>Specialty Doors</b>								<b>\$ 1,995.00</b>					<b>\$ 0.06</b>
	3'x7' Overhead Door, 24 ga. Steel, chain hoist operated	ea	1	\$ 1,525.00	\$ 470.00	\$ 1,525.00	\$ 470.00	\$ 1,995.00						
<b>8700</b>	<b>Door Hardware</b>								<b>\$ 17,356.15</b>					<b>\$ 0.49</b>
	Door Closer	ea	7	\$ 247.00	\$ 78.00	\$ 1,729.00	\$ 546.00	\$ 2,275.00						
	Door Check Chain	ea	7	\$ 3.50	\$ 2.50	\$ 24.50	\$ 17.50	\$ 42.00						

	Panic Bar w/Outside Key & Pull	ea	7	\$ 1,675.00	\$ 175.50	\$ 11,725.00	\$ 1,228.50	\$ 12,953.50						
	Alum. Thresholds	ea	7	\$ 43.05	\$ 29.25	\$ 301.35	\$ 204.75	\$ 506.10						
	Weatherstripping	ea	7	\$ 37.50	\$ 156.00	\$ 262.50	\$ 1,092.00	\$ 1,354.50						
	Vinyl Door Sweeps	ea	7	\$ 13.40	\$ 18.75	\$ 93.80	\$ 131.25	\$ 225.05						
	<b>Division 9 - Finishes</b>										\$ 20,624.12	\$ 42,860.12	\$ 63,484.24	\$ 1.79
<b>9100</b>	<b>Metal Support Assemblies</b>								\$ 235.20					\$ 0.01
	5/16" T-Bar Support System, 2'x4' grid	sq ft	120	\$ 1.37	\$ 0.59	\$ 164.40	\$ 70.80	\$ 235.20						
<b>9250</b>	<b>Gypsum Board</b>								\$ 16,504.44					\$ 0.47
	5/8" FR Drywall, Moisture Resistant	sq ft	9278	\$ 1.09		\$ 10,113.02	\$ -	\$ 10,113.02						
	Boarding, Walls	sq ft	9156	\$ -	\$ 0.47	\$ -	\$ 4,303.32	\$ 4,303.32						
	Boarding, Ceilings	sq ft	122	\$ -	\$ 0.52	\$ -	\$ 63.44	\$ 63.44						
	Tape & Finish, Walls	sq ft	348	\$ -	\$ 0.50	\$ -	\$ 174.00	\$ 174.00						
	Firetape, Walls	sq ft	8808	\$ 0.05	\$ 0.15	\$ 440.40	\$ 1,321.20	\$ 1,761.60						
	Tape & Finish, Ceilings	sq ft	122	\$ -	\$ 0.73	\$ -	\$ 89.06	\$ 89.06						
<b>9500</b>	<b>Ceiling</b>								\$ 412.80					\$ 0.01
	5/8" Mineral Fibre Tiles	sq ft	120	\$ 2.69	\$ 0.75	\$ 322.80	\$ 90.00	\$ 412.80						
<b>9910</b>	<b>Painting</b>								\$ 46,331.80					\$ 1.31
	Paint walls & ceilings	sq ft	47824	\$ -	\$ 0.76	\$ -	\$ 36,465.80	\$ 36,465.80						
	Paint Doors	ea	5	\$ 20.50	\$ 56.50	\$ 102.50	\$ 282.50	\$ 385.00						
	Oil Primer	5 gal	18	\$ 102.00	\$ -	\$ 1,836.00	\$ -	\$ 1,836.00						
	Latex Paint	5 gal	55	\$ 139.00	\$ -	\$ 7,645.00	\$ -	\$ 7,645.00						
	<b>Division 10 - Specialties</b>										\$ 1,336.50	\$ 172.15	\$ 1,508.65	\$ 0.04
<b>10520</b>	<b>Fire Protection Specialties</b>								\$ 1,508.65					
	All Purpose 9 1/2 lbs Extinguisher	ea	11	\$ 121.50		\$ 1,336.50	\$ -	\$ 1,336.50						
	Mount Extinguishers	ea	11		\$ 15.65	\$ -	\$ 172.15	\$ 172.15						
	<b>Division 11 - Building Equipment</b>										\$ 566,964.60	\$ 113,689.63	\$ 680,654.23	\$ 19.19
<b>11800</b>	<b>Barn Equipment</b>													\$ -
	<b>Penning</b>			\$ -					\$ 146,581.40					\$ 4.13
	PVC Plank 1.75"x20'	ea	82	\$ 346.78		\$ 28,436.21		\$ 28,436.21						
	PVC Plank 2" x 38" x 22'	ea	139	\$ 447.34		\$ 62,180.45		\$ 62,180.45						
	PVC Bullnose, 1.75"x32"	ea	304	\$ 10.86		\$ 3,302.93		\$ 3,302.93						
	PVC Droprod 3/4"x20"	ea	61	\$ 40.45		\$ 2,467.41		\$ 2,467.41						
	1/4" SS Bolt/Washers/Lock Nuts	ea	3000	\$ 0.73		\$ 2,203.20		\$ 2,203.20						
	SS 6 Loop U-channel Post 38" w/Plate	ea	143	\$ 87.37		\$ 12,494.00		\$ 12,494.00						
	SS 3 Loop U-channel Post 38" w/Plate	ea	2	\$ 89.79		\$ 179.58		\$ 179.58						
	SS double U-Channel Post 38" w/Plate	ea	64	\$ 114.88		\$ 7,352.08		\$ 7,352.08						
	SS U-Channel Post 38" w/Plate (Feeders)	ea	144	\$ 71.19		\$ 10,251.49		\$ 10,251.49						
	SS Wall U-Channel Post, 38"	ea	145	\$ 63.75		\$ 9,243.75		\$ 9,243.75						
	SS 3-Loop Wall Bracket	ea	16	\$ 57.44		\$ 919.10		\$ 919.10						
	3/8" SS Lag Bolts	ea	50	\$ 2.18		\$ 108.80		\$ 108.80						
	3/8" x3" SS Anchor bolts w/nuts and washer	ea	1400	\$ 1.85		\$ 2,594.20		\$ 2,594.20						
	SS T-Bolt w/nuts and washers	ea	650	\$ 7.46		\$ 4,848.19		\$ 4,848.19						
	<b>Animal HVAC</b>								\$ 122,132.34					\$ 3.44
	Exhaust Fan - Better Air LPF-2400	ea	9	\$ 893.70		\$ 8,043.30		\$ 8,043.30						
	Exhaust Fan - Better Air LPF-3800	ea	8	\$ 1,334.70		\$ 10,677.60		\$ 10,677.60						
	Exhaust Fan - Better Air LPF-4800	ea	8	\$ 1,994.40		\$ 15,955.20		\$ 15,955.20						
	Exhaust Fan - Better AirFW-6020	ea	4	\$ 2,878.20		\$ 11,512.80		\$ 11,512.80						
	Recirc Fan Better Air LCF 2400	ea	8	\$ 675.90		\$ 5,407.20		\$ 5,407.20						
	Winter Closure	ea	17	\$ 106.20		\$ 1,805.40		\$ 1,805.40						
	Hood	ea	12	\$ 90.90		\$ 1,090.80		\$ 1,090.80						
	Backdraft Damper	ea	12	\$ 157.50		\$ 1,890.00		\$ 1,890.00						
	White Silicone	ea	40	\$ 5.64		\$ 225.72		\$ 225.72						
	#10 x 1 1/2" SS Screws	ea	500	\$ 0.18		\$ 90.00		\$ 90.00						
	Air Inlet - Better Air SF 2000	ea	220	\$ 130.05		\$ 28,611.00		\$ 28,611.00						
	Air Inlet actuator	ea	5	\$ 535.50		\$ 2,677.50		\$ 2,677.50						
	SS cable	lin. Ft.	1700	\$ 1.17		\$ 1,989.00		\$ 1,989.00						
	Galv. Cable Clamp	ea	50	\$ 3.15		\$ 157.50		\$ 157.50						

Azuma nuts	ea	450	\$ 2.30		\$ 1,032.75	\$ 1,032.75						
Air inlet counterweight	ea	9	\$ 34.62		\$ 311.57	\$ 311.57						
Hanging pulley	ea	9	\$ 13.50		\$ 121.50	\$ 121.50						
Flush mount pulley	ea	25	\$ 10.80		\$ 270.00	\$ 270.00						
#10 x 1 1/2" SS Screws	ea	1250	\$ 0.20		\$ 250.00	\$ 250.00						
Hand Winch w/bracket and bolts	ea	5	\$ 112.50		\$ 562.50	\$ 562.50						
Space Heater (100 MBTU)	ea	5	\$ 900.00		\$ 4,500.00	\$ 4,500.00						
Space Heater (250MBTU)	ea	4	\$ 1,687.50		\$ 6,750.00	\$ 6,750.00						
Environmental controller	ea	5	\$ 1,489.20		\$ 7,446.00	\$ 7,446.00						
Back-up thermostat	ea	5	\$ 99.00		\$ 495.00	\$ 495.00						
Manual fan control	ea	5	\$ 155.00		\$ 775.00	\$ 775.00						
Temperature Probe with Cable	ea	9	\$ 665.00		\$ 5,985.00	\$ 5,985.00						
Central environment control computer	ea	1	\$ 1,500.00		\$ 1,500.00	\$ 1,500.00						
Environment control software	ea	1	\$ 2,000.00		\$ 2,000.00	\$ 2,000.00						
<b>Watering System</b>												
Water Meter	ea	1	\$ 1,000.00		\$ 1,000.00	\$ 1,000.00			\$ 59,115.22			\$ 1.67
1 1/2" camlock coupler FCCxHB	ea	14	\$ 15.27		\$ 213.76	\$ 213.76						
1 1/2" camlock coupler MCCxFNT	ea	14	\$ 3.62		\$ 50.65	\$ 50.65						
1 1/2" PVC sch40 end cap	ea	6	\$ 1.11		\$ 6.64	\$ 6.64						
1 1/2" PVC sch40 true union	ea	4	\$ 18.74		\$ 74.95	\$ 74.95						
1 1/2" PVC sch40 true union ball valve	ea	5	\$ 61.57		\$ 307.87	\$ 307.87						
1 1/2" PVC sch40 45 degree elbow	ea	14	\$ 2.46		\$ 34.40	\$ 34.40						
1 1/2" PVC sch40 90 degree elbow	ea	28	\$ 1.74		\$ 48.76	\$ 48.76						
1 1/2" PVC sch40 adapter SxMNT	ea	14	\$ 1.32		\$ 18.52	\$ 18.52						
1 1/2" PVC sch40 ball valve	ea	14	\$ 14.82		\$ 207.52	\$ 207.52						
1 1/2" PVC sch40 coupling SxS	ea	40	\$ 2.74		\$ 109.62	\$ 109.62						
1 1/2" PVC sch40 pipe (linear feet)	ea	1100	\$ 3.94		\$ 4,336.20	\$ 4,336.20						
1 1/2" PVC sch40 tee	ea	19	\$ 2.34		\$ 44.37	\$ 44.37						
1 1/2" PVC standoff clamp	ea	275	\$ 5.21		\$ 1,433.03	\$ 1,433.03						
1 1/2" x 3/4" PVC sch40 tee	ea	9	\$ 3.81		\$ 34.26	\$ 34.26						
1/4" braided hose (linear feet)	ea	750	\$ 0.54		\$ 405.00	\$ 405.00						
1/4" S.S. hose clamps	ea	350	\$ 0.49		\$ 173.04	\$ 173.04						
24v transformer for solenoid valve	ea	4	\$ 28.32		\$ 113.28	\$ 113.28						
3/4" PVC sch40 FT end cap	ea	18	\$ 1.03		\$ 18.47	\$ 18.47						
3/4" PVC sch40 90 degree elbow	ea	194	\$ 0.55		\$ 107.38	\$ 107.38						
3/4" PVC sch40 ball valve SxS	ea	88	\$ 4.85		\$ 426.49	\$ 426.49						
3/4" PVC sch40 coupling SxS	ea	100	\$ 0.47		\$ 47.25	\$ 47.25						
3/4" PVC sch40 pipe (linear feet)	ea	2800	\$ 1.59		\$ 4,460.40	\$ 4,460.40						
3/4" PVC sch40 SxMT adapter	ea	26	\$ 0.51		\$ 13.34	\$ 13.34						
3/4" PVC sch40 tee	ea	178	\$ 0.68		\$ 120.15	\$ 120.15						
3/4" PVC sch40 true union	ea	13	\$ 5.49		\$ 71.43	\$ 71.43						
3/4" PVC sch40 true union ball valve	ea	4	\$ 39.69		\$ 158.76	\$ 158.76						
3/4" PVC standoff clamp	ea	700	\$ 2.67		\$ 1,871.10	\$ 1,871.10						
PVC glue	ea	6	\$ 22.77		\$ 136.65	\$ 136.65						
PVC primer	ea	6	\$ 15.01		\$ 90.07	\$ 90.07						
Reducing adapter, 1/2" MNT x 1/4" hose barb	ea	152	\$ 4.04		\$ 613.55	\$ 613.55						
Reducing adapter, 3/4" slip x 1/4" hose barb	ea	152	\$ 2.17		\$ 330.37	\$ 330.37						
Shrubby nozzles, .2 GPM, 90 degree spray	ea	152	\$ 0.09		\$ 13.68	\$ 13.68						
Solenoid valves	ea	4	\$ 40.55		\$ 162.20	\$ 162.20						
Fire hose (linear feet)	ea	150	\$ 3.81		\$ 571.05	\$ 571.05						
Spray Nozzle	ea	2	\$ 20.13		\$ 40.26	\$ 40.26						
36" Double Drinker w/Nipples	ea	152	\$ 60.41		\$ 9,182.70	\$ 9,182.70						
Teflon Tape	ea	24	\$ 1.50		\$ 35.96	\$ 35.96						
#8x3" SS Screws	ea	2000	\$ 0.28		\$ 560.00	\$ 560.00						
Medicator	ea	1	\$ 902.37		\$ 902.37	\$ 902.37						
5% allowance for extras & modifications	ea	0.05	\$ 1,304.12		\$ 65.21	\$ 65.21						
1/2" sch80 galv steel pipe (linear feet)	ea	500	\$ 5.45		\$ 2,725.00	\$ 2,725.00						





	10"x8" U-R Tee	ea	28	\$ 426.30			\$ 11,936.40		\$ 11,936.40										
	10" U-R Wye	ea	9	\$ 948.26			\$ 8,534.34		\$ 8,534.34										
	8" U-R x 6" SDR35 Adapter	ea	12	\$ 305.31			\$ 3,663.72		\$ 3,663.72										
	8" U-R x 4" PVC DWV	ea	2	\$ 412.78			\$ 825.56		\$ 825.56										
	8" Ultra-rib pipe	lin ft	94	\$ 13.38			\$ 1,257.72		\$ 1,257.72										
	8" Pit Plugs	ea	28	\$ 32.00			\$ 896.00		\$ 896.00										
	6" SRD35 Pipe	lin ft	94	\$ 12.27			\$ 1,153.38		\$ 1,153.38										
	6" SDR35 45 degree Elbow	ea	12	\$ 56.69			\$ 680.28		\$ 680.28										
	6" SDR 35 Union	ea	12	\$ 75.95			\$ 911.40		\$ 911.40										
	6" SDR35 90 degree Elbow	ea	24	\$ 70.91			\$ 1,701.84		\$ 1,701.84										
	<b>Misc</b>			\$ -					\$ -					\$ 8,717.36					\$ 0.25
	Alarm System	ea	1	\$ 4,500.00			\$ 4,500.00		\$ 4,500.00										
	Load-out Ramp	ea	1	\$ 2,240.00			\$ 2,240.00		\$ 2,240.00										
	Stationary Weigh Scale	ea	1	\$ 1,717.36			\$ 1,717.36		\$ 1,717.36										
	Load Cells, 500lbs	ea	4	\$ 65.00			\$ 260.00		\$ 260.00										
<b>11850</b>	<b>Equipment Installation</b>													\$ 113,689.63					\$ 3.21
	Install Penning	lin ft	4698	\$ 7.78			\$ 36,531.65		\$ 36,531.65										
	Install Exhaust & Recirculation Fans	ea	37	\$ 9.72			\$ 359.64		\$ 359.64										
	Install Air Inlets	ea	124	\$ 9.72			\$ 1,205.28		\$ 1,205.28										
	Install Inlet Actuators	ea	5	\$ 9.72			\$ 48.60		\$ 48.60										
	Install Heaters	ea	9	\$ 110.16			\$ 991.44		\$ 991.44										
	Install Environmental Controls	ea	5	\$ 270.00			\$ 1,350.00		\$ 1,350.00										
	Install Back-up Thermostats	ea	5	\$ 95.00			\$ 475.00		\$ 475.00										
	Install Manual Fan Controls	ea	5	\$ 95.00			\$ 475.00		\$ 475.00										
	Install Waterlines	lin ft	3900	\$ 4.08			\$ 15,921.36		\$ 15,921.36										
	Install Drinkers	ea	152	\$ 19.44			\$ 2,954.88		\$ 2,954.88										
	Install HPW Pipe	lin ft	550	\$ 6.29			\$ 3,457.08		\$ 3,457.08										
	Install Pressure Washer	ea	1	\$ 760.00			\$ 760.00		\$ 760.00										
	Install Feed Lines	lin ft	1750	\$ 6.80			\$ 11,907.00		\$ 11,907.00										
	Install Feed Motors	ea	12	\$ 97.20			\$ 1,166.40		\$ 1,166.40										
	Install Feeders	ea	72	\$ 32.40			\$ 2,332.80		\$ 2,332.80										
	Install Feed Bins	ea	4	\$ 1,440.00			\$ 5,760.00		\$ 5,760.00										
	Install Lift Station	ea	1	\$ 4,440.00			\$ 4,440.00		\$ 4,440.00										
	Install Sewer Pipe	lin ft	1122	\$ 16.75			\$ 18,793.50		\$ 18,793.50										
	Install Alarms	ea	1	\$ 2,600.00			\$ 2,600.00		\$ 2,600.00										
	Install Load-out Ramp	ea	1	\$ 960.00			\$ 960.00		\$ 960.00										
	Install Scale	ea	1	\$ 1,200.00			\$ 1,200.00		\$ 1,200.00										
	<b>Division 15 - Mechanical</b>													\$ 20,322.41	\$ 20,917.33	\$ 41,239.74			\$ 1.16
<b>15200</b>	<b>Process Piping</b>													\$ 20,114.52					\$ 0.57
	1" Gas Pipe	lin ft	650	\$ 9.70	\$ 10.90		\$ 6,305.00	\$ 7,085.00	\$ 13,390.00										
	Gas Connection to Unit Heater	ea	9	\$ 140.76	\$ 532.02		\$ 1,266.84	\$ 4,788.18	\$ 6,055.02										
	Gas Pipe Fittings	allow	5%	\$ 13,390.00			\$ 669.50	\$ -	\$ 669.50										
<b>15400</b>	<b>Plumbing Fixtures &amp; Equipment Including Supply, Waste and Vent Piping</b>													\$ 7,037.60					\$ 0.20
	Water Closet, 2-piece, floor mount	ea	1	\$ 794.75	\$ 824.50		\$ 794.75	\$ 824.50	\$ 1,619.25										
	Shower, 1 piece, Fibreglass	ea	1	\$ 1,105.00	\$ 871.25		\$ 1,105.00	\$ 871.25	\$ 1,976.25										
	S.S. Sink, Single	ea	1	\$ 1,253.75	\$ 850.00		\$ 1,253.75	\$ 850.00	\$ 2,103.75										
	Floor Drain	ea	2	\$ 433.50	\$ 86.50		\$ 867.00	\$ 173.00	\$ 1,040.00										
	Rough In - Washer	ea	1	\$ 64.60	\$ 233.75		\$ 64.60	\$ 233.75	\$ 298.35										
<b>15500</b>	<b>Heat Generating Equipment</b>													\$ 4,101.25					\$ 0.12
	Hot Water Heater	ea	1	\$ 2,741.25	\$ 1,360.00		\$ 2,741.25	\$ 1,360.00	\$ 4,101.25										
<b>15700</b>	<b>HVAC</b>													\$ 9,986.37					\$ 0.28
	1000 Watt Baseboard	ea	2	\$ 54.00	\$ 80.50		\$ 108.00	\$ 161.00	\$ 269.00										
	Exhaust Fan, 150 CFM	ea	1	\$ 115.00	\$ 58.00		\$ 115.00	\$ 58.00	\$ 173.00										
	6" diameter exhaust ducting	lin ft	22	\$ 5.20	\$ 3.61		\$ 114.40	\$ 79.42	\$ 193.82										
	36"x36" Ducting	lin ft	22	\$ 12.06	\$ 120.60		\$ 265.32	\$ 2,653.20	\$ 2,918.52										
	1" Connecting Pipe	lin ft	50	\$ 9.70	\$ 10.90		\$ 485.00	\$ 545.00	\$ 1,030.00										

	1" Connecting Pipe Fittings	allow	15%	\$ 1,030.00			\$ 154.50	\$ -	\$ 154.50					
	1" Valves	ea	5	\$ 54.50	\$ 38.50		\$ 272.50	\$ 192.50	\$ 465.00					
	Strainer	ea	1	\$ 310.00	\$ 38.50		\$ 310.00	\$ 38.50	\$ 348.50					
	Thermostat	ea	1	\$ 99.00	\$ 45.00		\$ 99.00	\$ 45.00	\$ 144.00					
	Auto Air Vent	ea	1	\$ 540.00	\$ 58.00		\$ 540.00	\$ 58.00	\$ 598.00					
	Floor Heat Pump	ea	1	\$ 770.00	\$ 173.00		\$ 770.00	\$ 173.00	\$ 943.00					
	3/4" Floor heat piping	lin ft	200	\$ 1.61	\$ 1.95		\$ 322.00	\$ 390.00	\$ 712.00					
	Floor heat manifolds	ea	2	\$ 370.00	\$ 120.02		\$ 740.00	\$ 240.03	\$ 980.03					
	Extrol 15 Expansion Tank	ea	1	\$ 935.00	\$ 61.50		\$ 935.00	\$ 61.50	\$ 996.50					
	Pressure Gauge	ea	1	\$ 24.00	\$ 36.50		\$ 24.00	\$ 36.50	\$ 60.50					
	<b>Division 16 - Electrical</b>									\$ 266,866.60	\$ 173,463.29	\$ 93,403.31	\$ 266,866.60	\$ 7.53
16200	Main Service & Distribution	Fir Sq Ft	35464	\$ 4.89	\$ 2.63		\$ 173,463.29	\$ 93,403.31	\$ 266,866.60					
	<b>Division 31 Earthworks</b>										\$ 151,030.04	\$ 270,460.69	\$ 421,490.73	\$ 11.89
	<b>Barn Foundation</b>									\$ 126,758.00				\$ 3.57
	Strip Top Soil	cu yds	1452			\$ 4.96	\$ -	\$ 7,201.92	\$ 7,201.92					
	Excavate Foundations	cu yds	3532			\$ 6.44	\$ -	\$ 22,746.08	\$ 22,746.08					
	Place & Compact A Base	cu yds	1584	\$ 28.00	\$ 22.68		\$ 44,352.00	\$ 35,925.12	\$ 80,277.12					
	Trench Sewer Piping & Backfilling	lin ft	1154			\$ 5.60	\$ -	\$ 6,462.40	\$ 6,462.40					
	Sand Bedding for Sewer Pipe	lin ft	1154	\$ 2.87	\$ 2.45		\$ 3,311.98	\$ 2,827.30	\$ 6,139.28					
	Backfill 3' and slope away from building	cu yds	156			\$ 25.20	\$ -	\$ 3,931.20	\$ 3,931.20					
	<b>Roads and Parking</b>									\$ 21,429.00				\$ 0.60
	Allow for 30' x48' parking pad,150' of driveway, 25' wide w/ditch													
	Strip Top Soil	cu yds	200			\$ 4.96	\$ -	\$ 992.00	\$ 992.00					
	Excavate/Backfill Road and Ditch	cu yds	400			\$ 6.48	\$ -	\$ 2,592.00	\$ 2,592.00					
	Geo-Grid Reinforcement Under Roads	sq ft	5200	\$ 0.29	\$ 0.16		\$ 1,508.00	\$ 832.00	\$ 2,340.00					
	18" Gravel topping on roads	cu yds	350	\$ 28.00	\$ 16.30		\$ 9,800.00	\$ 5,705.00	\$ 15,505.00					
	<b>Earthen Manure Storage w/HDPE Liner</b>									\$ 273,303.73				\$ 7.71
	Strip Top Soil	cu yds	4042			\$ 4.96	\$ -	\$ 20,048.32	\$ 20,048.32					
	Excavate Cells and Backfill to Berms	cu yds	12970			\$ 6.48	\$ -	\$ 84,045.60	\$ 84,045.60					
	High Density PolyEthylene Liner	sq ft	77907	\$ 1.02	\$ 0.44		\$ 79,465.14	\$ 34,279.08	\$ 113,744.22					
	6" Pipe to lagoon	lin ft	75	\$ 12.27	\$ 21.53		\$ 920.25	\$ 1,614.75	\$ 2,535.00					
	Post and Rail System for 6" Pipe	lin ft	75	\$ 10.05	\$ 7.35	\$ 2.59	\$ 753.75	\$ 745.50	\$ 1,499.25					
	Spread Topsoil on Berm	cu yds	1599		\$ 16.10		\$ -	\$ 25,743.90	\$ 25,743.90					
	<b>Concrete Spillway &amp; Ramp with Curb</b>													
	Forming	sq ft	1788	\$ 0.82	\$ 7.65		\$ 1,466.16	\$ 13,678.20	\$ 15,144.36					
	Pouring	cu yds	33	\$ -	\$ 25.00	\$ 8.04	\$ -	\$ 1,090.32	\$ 1,090.32					
	Reinforcing	ea	263	\$ 7.40			\$ 1,946.20	\$ -	\$ 1,946.20					
	Concrete Material	cu yds	37	\$ 202.88			\$ 7,506.56	\$ -	\$ 7,506.56					
	<b>Division 33 Utilities</b>									\$ 38,500.00			\$ 38,500.00	\$ 1.09
	<b>Utilities</b>									\$ 38,500.00				
	Gas	Allow	1	\$ 5,000.00			\$ 5,000.00	\$ -	\$ 5,000.00					
	Electrical	Allow	1	\$ 15,000.00			\$ 15,000.00	\$ -	\$ 15,000.00					
	Water Well	Allow	1	\$ 18,500.00			\$ 18,500.00	\$ -	\$ 18,500.00					
19000	<b>Contingency (5%)</b>												\$ 130,861.44	\$ 3.69
<b>Sub-Total</b>											\$1,853,129.12	\$1,354,951.78	\$ 3,208,080.90	\$ 90.46
<b>PST 7%</b>	Note: Some Elements are PST Exempt												\$ 102,269.85	
<b>Sub-Total Including PST</b>													\$ 3,310,350.76	\$ 93.34
<b>GST 5%</b>													\$ 160,404.05	
<b>TOTAL</b>													\$ 3,470,754.80	

Sask Pork  
Appendix C  
**Feeder Barn Budget**  
**Sample Barn, 4000 Head Finisher, 35464 Square Feet**

Prepared by DGH Engineering Ltd.  
01/10/2015 REVISED September 29, 2023

Item	Description	Unit	Quantity	Base Price - Material	Base Price - Labour	Base Price - Equipmen	Sub-Total Material	Sub-Total Labour & Equipment	Sub-Total Unit	Sub-Total Category	Division Sub- Total Materials	Division Sub- Total Labour & Equipment	Division Total	Cost/sq. ft.
<b>Division 1 - General Requirements</b>											\$ 20,200.00	\$ 283,962.08	\$ 304,162.08	\$ 8.58
<b>Design, Engineering, and Construction Support</b>											\$ 60,200.00			
	Design, Engineering, and Construction Support	fee	1	\$ 41,300.00			\$ -	\$ 41,300.00	\$ 41,300.00					
	EMS Design Fees & Certification	fee	1	\$ 18,900.00			\$ -	\$ 18,900.00	\$ 18,900.00					
<b>1300</b>	<b>Administrative Requirements</b>									\$ 217,462.08				\$ 6.13
	Permits	fee	0.01	2,416,245.30			\$ -	\$ 24,162.45	\$ 24,162.45					
	Insurance	fee	0.03	2,416,245.30			\$ -	\$ 72,487.36	\$ 72,487.36					
	Overhead/Administration	allow	0.05	2,416,245.30			\$ -	\$ 120,812.26	\$ 120,812.26					
<b>1400</b>	<b>Quality Requirements</b>	allow	1	\$ 2,500.00			\$ -	\$ 2,500.00	\$ 2,500.00	\$ 2,500.00				\$ 0.07
<b>1500</b>	<b>Temporary Facilities &amp; Controls</b>									\$ 20,200.00				\$ 0.57
	Miscellaneous Hardware & tools/Office Supplies/First Aid	allow	1	\$ 7,700.00			\$ 7,700.00	\$ -	\$ 7,700.00					
	Equipment Rental	allow	1	\$ 12,500.00			\$ 12,500.00	\$ -	\$ 12,500.00					
<b>1700</b>	<b>Execution Requirements</b>	allow	1	\$ 3,800.00			\$ -	\$ 3,800.00	\$ 3,800.00	\$ 3,800.00				\$ 0.11
<b>Division 3 - Concrete</b>											\$ 361,390.22	\$ 203,324.74	\$ 564,714.96	\$ 15.92
<b>3101</b>	<b>Concrete Formwork</b>									\$ 223,680.83				\$ 6.31
	<i>Forms in Place</i>													
	Footings (9"x18") (1.5SFCA/lin ft)	lin ft	1504	\$ 1.71	\$ 3.88	\$ -	\$ 2,571.84	\$ 5,834.02	\$ 8,405.86					
	6' Grade Beam w/Slat Provision One Side	lin ft	820	\$ 9.86	\$ 24.93		\$ 8,088.48	\$ 20,442.60	\$ 28,531.08					
	6' Grade Beam w/Slat Provision Both Sides	lin ft	360	\$ 9.86	\$ 24.93		\$ 3,551.04	\$ 8,974.80	\$ 12,525.84					
	6' Grade Beam	lin ft	324	\$ 8.42	\$ 19.44		\$ 2,729.38	\$ 6,298.56	\$ 9,027.94					
	Pit Walls (2' x 4") (4SFCA/lin ft)	lin ft	1490	\$ 2.59	\$ 14.58	\$ -	\$ 3,862.08	\$ 21,724.20	\$ 25,586.28					
	Pit Floors	sq ft	12094	\$ 0.44	\$ 2.21	\$ -	\$ 5,355.33	\$ 26,776.67	\$ 32,132.00					
	Floor	sq ft	24463	\$ 0.44	\$ 2.71	\$ -	\$ 10,832.33	\$ 66,197.55	\$ 77,029.88					
	2' Concrete Curb b/t Office and Loadout	lin ft	16	\$ 2.59	\$ 14.58		\$ 41.47	\$ 233.28	\$ 274.75					
	Bin Pads	sq ft	576	\$ 0.82	\$ 6.15	\$ -	\$ 472.32	\$ 3,542.40	\$ 4,014.72					
	Aprons	sq ft	96	\$ 0.82	\$ 6.15	\$ -	\$ 78.72	\$ 590.40	\$ 669.12					
	<i>Pour Concrete</i>													
	Footings (9"x18")	cu yds	63	\$ -	\$ 21.50	\$ 5.90	\$ -	\$ 1,726.20	\$ 1,726.20					
	6' Grade Beam w/Slat Provision One Side	cu yds	102	\$ -	\$ 32.50	\$ 8.85	\$ -	\$ 4,217.70	\$ 4,217.70					
	6' Grade Beam w/Slat Provision Both Sides	cu yds	49	\$ -	\$ 32.50	\$ 8.85	\$ -	\$ 2,026.15	\$ 2,026.15					
	6' Grade Beam	cu yds	36	\$ -	\$ 32.50	\$ 8.85	\$ -	\$ 1,488.60	\$ 1,488.60					
	FIP Pit Walls (2' x 4')	cu yds	37	\$ -	\$ 17.95	\$ 4.93	\$ -	\$ 846.56	\$ 846.56					
	Pit Floors	cu yds	150	\$ -	\$ 25.00	\$ 6.80	\$ -	\$ 4,770.00	\$ 4,770.00					
	Floor	cu yds	302	\$ -	\$ 25.00	\$ 6.80	\$ -	\$ 9,603.60	\$ 9,603.60					
	Office Curbs	cu yds	1	\$ -	\$ 32.50	\$ 8.85	\$ -	\$ 41.35	\$ 41.35					
	Bin Pads	cu yds	22	\$ -	\$ 25.00	\$ 6.80	\$ -	\$ 699.60	\$ 699.60					
	Aprons	cu yds	2	\$ -	\$ 25.00	\$ 6.80	\$ -	\$ 63.60	\$ 63.60					
<b>3200</b>	<b>Concrete Reinforcement</b>									\$ 36,652.33				\$ 1.03
	Footings													
	15M Rebar	ea	172	\$ 14.65			\$ 2,519.80	\$ -	\$ 2,519.80					
	10M Dowels	ea	750	\$ 2.63			\$ 1,972.50	\$ -	\$ 1,972.50					
	10M Rebar	ea	73	\$ 7.40			\$ 540.20	\$ -	\$ 540.20					
	Grade Beams													
	15M Rebar	ea	462	\$ 14.65			\$ 6,768.30	\$ -	\$ 6,768.30					

	10M Rebar	ea	282	\$ 7.40			\$ 2,086.80	\$ -	\$ 2,086.80											
	10M Dowel	ea	816	\$ 1.82			\$ 1,485.12	\$ -	\$ 1,485.12											
	Pit Walls																			
	10M Rebar	ea	227	\$ 7.40			\$ 1,679.80	\$ -	\$ 1,679.80											
	Pit Floors																			
	10M Rebar	ea	829	\$ 7.40			\$ 6,131.07	\$ -	\$ 6,131.07											
	Floor																			
	10M Rebar	ea	1555	\$ 7.40			\$ 11,505.34	\$ -	\$ 11,505.34											
	Office Curbs																			
	10M Rebar	ea	4	\$ 7.40			\$ 29.60	\$ -	\$ 29.60											
	Bin Pads & Aprons																			
	15M Rebar	ea	132	\$ 14.65			\$ 1,933.80	\$ -	\$ 1,933.80											
<b>3310</b>	<b>Basic Concrete Materials</b>																			
	Footings (9"x18") (0.0417yds/lin ft)	cu yds	70	\$ 220.75		\$ 6.15	\$ 15,452.50	\$ 430.50	\$ 15,883.00											
	6' Grade Beam w/Slat Provision One Side	cu yds	113	\$ 220.75		\$ 6.15	\$ 24,944.75	\$ 694.95	\$ 25,639.70											
	6' Grade Beam w/Slat Provision Both Sides	cu yds	54	\$ 220.75		\$ 6.15	\$ 11,920.50	\$ 332.10	\$ 12,252.60											
	6' Grade Beam	cu yds	40	\$ 220.75		\$ 6.15	\$ 8,830.00	\$ 246.00	\$ 9,076.00											
	Pit Walls (2' x 4")	cu yds	41	\$ 220.75		\$ 6.15	\$ 9,050.75	\$ 252.15	\$ 9,302.90											
	Pit Floors	cu yds	165	\$ 220.75		\$ 6.15	\$ 36,423.75	\$ 1,014.75	\$ 37,438.50											
	Floor	cu yds	333	\$ 220.75		\$ 6.15	\$ 73,509.75	\$ 2,047.95	\$ 75,557.70											
	Office Curbs	cu yds	2	\$ 220.75		\$ 6.15	\$ 441.50	\$ 12.30	\$ 453.80											
	Bin Pads	cu yds	25	\$ 220.75		\$ 6.15	\$ 5,518.75	\$ 153.75	\$ 5,672.50											
	Aprons	cu yds	3	\$ 220.75		\$ 6.15	\$ 662.25	\$ 18.45	\$ 680.70											
<b>3480</b>	<b>Precast Concrete Specialties (Slats)</b>																			
	Slats	sq ft	12024	\$ 8.35			\$ 100,400.40	\$ -	\$ 100,400.40											
	Install Slats	sq ft	12024		\$ 0.64	\$ 0.36	\$ -	\$ 12,024.00	\$ 12,024.00											
	<b>Division 5 - Structural Steel</b>																			
<b>5100</b>	<b>Structural Steel Columns and Beams</b>																			
	C9x15	lin ft	11	\$ 14.85	\$ 70.05	\$ 6.60	\$ 163.35	\$ 843.15	\$ 1,006.50											
<b>5500</b>	<b>Metal Fabrications</b>																			
	Misc Fabrications	allow	1	\$ 1,250.00			\$ 1,250.00	\$ -	\$ 1,250.00											
	<b>Division 6 - Wood &amp; Plastics</b>																			
<b>6090</b>	<b>Fasteners</b>																			
	1/2" Anchor Bolts w Nut and Washer	ea	375	\$ 1.69			\$ 633.75	\$ -	\$ 633.75											
	Edge Purlin Splice (T&B) 20ga 4"x20" Steel Strap	ea	128	\$ 6.50			\$ 832.00	\$ -	\$ 832.00											
	Simpson Strong Tie at Truss Ends	ea	372	\$ 0.65			\$ 241.80	\$ -	\$ 241.80											
	Allowance Nails & Screws	allow	1	\$ 8,750.00			\$ 8,750.00	\$ -	\$ 8,750.00											
<b>6110</b>	<b>Structural Wood Framing</b>																			
	2x6 Stud Wall @ 24" o/c 9' ht(Incl 2xT.P. & PT B.P.)	lin ft	24	\$ 9.06	\$ 6.80		\$ 217.44	\$ 163.20	\$ 380.64											
	2x6 Stud Wall @ 24" o/c 6' ht(Incl 2xT.P. & PT B.P.)	lin ft	1490	\$ 6.99	\$ 6.80		\$ 10,415.10	\$ 10,132.00	\$ 20,547.10											
	2x4 Stud Wall @ 16" o/c 9' ht(Incl 2xT.P. & PT B.P.)	lin ft	6	\$ 5.96	\$ 6.25		\$ 35.76	\$ 37.50	\$ 73.26											
	2x4 Girts @ 24"	BF	3120	\$ 1.01	\$ 1.33		\$ 3,151.20	\$ 4,155.84	\$ 7,307.04											
	2x4 PT Girts, to Concrete	BF	1248	\$ 1.82	\$ 1.62		\$ 2,271.36	\$ 2,021.76	\$ 4,293.12											
	2x6 Columns	BF	596	\$ 1.04	\$ 0.85		\$ 619.84	\$ 504.22	\$ 1,124.06											
	2x6 Header	BF	287	\$ 1.04	\$ 2.34		\$ 298.48	\$ 671.58	\$ 970.06											
	2 ply 2x8 Lintel	BF	104	\$ 1.04	\$ 1.87		\$ 108.16	\$ 194.69	\$ 302.85											
	2 ply 2x10 Lintel	BF	300	\$ 1.21	\$ 1.60		\$ 363.00	\$ 480.60	\$ 843.60											
	2 ply 2x12 Lintel	BF	44	\$ 1.90	\$ 1.42		\$ 83.60	\$ 62.57	\$ 146.17											
	2x4 Purlins (incl'd Valleys)	BF	12529	\$ 1.16	\$ 1.33		\$ 14,533.64	\$ 16,688.63	\$ 31,222.27											
	2x4 Lateral Bracing	BF	3968	\$ 1.01	\$ 1.33		\$ 4,007.68	\$ 5,285.38	\$ 9,293.06											
	2x6 Vertical Sway Bracing	BF	1320	\$ 1.01	\$ 1.33		\$ 1,333.20	\$ 1,758.24	\$ 3,091.44											
	2x6 Anchor Bracing	BF	360	\$ 1.01	\$ 1.33		\$ 363.60	\$ 479.52	\$ 843.12											
	2x6 Blocking under Splice Plates	BF	512	\$ 1.04	\$ 1.83		\$ 532.48	\$ 936.96	\$ 1,469.44											
	1x4 Web Nailer	BF	248	\$ 1.22	\$ 2.82		\$ 302.56	\$ 698.62	\$ 1,001.18											
	2x4 Ceiling Strapping	BF	11628	\$ 1.01	\$ 1.44		\$ 11,744.28	\$ 16,744.32	\$ 28,488.60											
	2x6 Purlins	BF	1488	\$ 1.04	\$ 0.95		\$ 1,547.52	\$ 1,406.16	\$ 2,953.68											
	2x6 Heels	BF	1488	\$ 1.04	\$ 1.69		\$ 1,547.52	\$ 2,517.70	\$ 4,065.22											

	1x4 Soffit Nailer	BF	744	\$ 1.22	\$ 2.81		\$ 907.68	\$ 2,089.15	\$ 2,996.83											
	1x4 Painted Trim Board	BF	686	\$ 1.22	\$ 2.00		\$ 836.92	\$ 1,372.00	\$ 2,208.92											
	Soffit Doors, 8'	ea	94	\$ 66.06	\$ 30.00		\$ 6,209.64	\$ 2,820.00	\$ 9,029.64											
	2x6 P.T. rough bucks for doors/windows	BF	120	\$ 1.82	\$ 1.95		\$ 218.40	\$ 234.00	\$ 452.40											
	2x4 P.T. sill plate for doors/windows	BF	80	\$ 1.82	\$ 1.95		\$ 145.60	\$ 156.00	\$ 301.60											
	Interior Galv. Drip Flashing	lin ft	1944	\$ 1.10	\$ 1.17		\$ 2,138.40	\$ 2,274.48	\$ 4,412.88											
	2x2 Recirc duct	BF	950	\$ 1.22	\$ 1.88		\$ 1,159.49	\$ 1,786.75	\$ 2,946.24											
<b>6160</b>	<b>Sheathing</b>																			\$ 2.38
	1/2" P.T. Plywood Sheathing	sq ft	1872	\$ 2.06	\$ 0.83		\$ 3,856.32	\$ 1,553.76	\$ 5,410.08											
	3/8" OSB Sheathing Recirc duct	sq ft	2160	\$ 0.56	\$ 0.69		\$ 1,209.60	\$ 1,490.40	\$ 2,700.00											
	3/8" OSB for Attic Smoke Stops	sq ft	13200	\$ 0.56	\$ 0.63		\$ 7,392.00	\$ 8,316.00	\$ 15,708.00											
	3/8" OSB to Wall, P.N.	sq ft	12360	\$ 0.56	\$ 0.63		\$ 6,921.60	\$ 7,786.80	\$ 14,708.40											
	3/8" OSB to Gables, P.N.	sq ft	1288	\$ 0.56	\$ 0.63		\$ 721.28	\$ 811.44	\$ 1,532.72											
	3/8" OSB to Ceiling, P.N.	sq ft	35464	\$ 0.56	\$ 0.69		\$ 19,859.84	\$ 24,470.16	\$ 44,330.00											
<b>6170</b>	<b>Pre-Fabricated Structural Wood</b>																			\$ 5.00
	Pre-Fabricated Trusses w 2' Overhang	sq ft	35464	\$ 4.20	\$ 0.80		\$ 148,771.48	\$ 28,371.20	\$ 177,142.68											
	<b>Division 7 - Thermal &amp; Moisture Protection</b>																			\$ 7.54
<b>7210</b>	<b>Building Insulation</b>																			\$ 2.47
	R30 blow in Insulation	sq ft	35464	\$ 0.82	\$ 0.64	\$ 0.34	\$ 29,080.48	\$ 34,754.72	\$ 63,835.20											
	Insulation Stops	ea	374	\$ 3.94	\$ 1.50		\$ 1,474.31	\$ 561.00	\$ 2,035.31											
	1 1/2" Polystyrene (R7.69) for Recirc duct detail	sq ft	1440	\$ 1.37	\$ 0.64		\$ 1,972.80	\$ 921.60	\$ 2,894.40											
	Perimeter Ins., 1 1/2" Polystyrene (R7.69) around perimeter	sq ft	30	\$ 1.37	\$ 0.64		\$ 41.10	\$ 19.20	\$ 60.30											
	Perimeter Ins., 1 1/2" Polystyrene (R7.69) around perimeter	sq ft	5616	\$ 1.37	\$ 0.64		\$ 7,693.92	\$ 3,594.24	\$ 11,288.16											
	6"x23" Fibreglass Batts Unfaced (R20)	sq ft	5616	\$ 0.93	\$ 0.35		\$ 5,222.88	\$ 1,965.60	\$ 7,188.48											
<b>7260</b>	<b>Vapour Retarders</b>																			\$ 0.26
	Urethane Sill Gasket	lin ft	936	\$ 0.24	\$ 0.20		\$ 224.64	\$ 187.20	\$ 411.84											
	6mil Poly Vapour Barrier	C. sq ft	454	\$ 6.85	\$ 12.65		\$ 3,109.90	\$ 5,743.10	\$ 8,853.00											
<b>7400</b>	<b>Roofing &amp; Siding Panels</b>																			\$ 4.71
	10' Wall Metal Cladding	lin ft	3280	\$ 4.38	\$ 4.58		\$ 14,366.40	\$ 15,022.40	\$ 29,388.80											
	26' Roof Metal Cladding	lin ft	13000	\$ 4.38	\$ 3.49		\$ 56,940.00	\$ 45,370.00	\$ 102,310.00											
	12' Wall Gable Metal Cladding	lin ft	768	\$ 4.38	\$ 4.58		\$ 3,363.84	\$ 3,517.44	\$ 6,881.28											
	2' Fascia	lin ft	500	\$ 4.90	\$ 4.58		\$ 2,450.00	\$ 2,290.00	\$ 4,740.00											
	2' Soffit	sq ft	1484	\$ 1.05	\$ 2.90		\$ 1,558.20	\$ 4,302.12	\$ 5,860.32											
	J Trim	lin ft	1800	\$ 1.26	\$ -		\$ 2,268.00	\$ -	\$ 2,268.00											
	Rake Flashing	lin ft	750	\$ 1.94	\$ -		\$ 1,455.00	\$ -	\$ 1,455.00											
	Divider Flashing	lin ft	200	\$ 1.26	\$ -		\$ 252.00	\$ -	\$ 252.00											
	Base Drip Flashing	lin ft	936	\$ 1.26	\$ -		\$ 1,179.36	\$ -	\$ 1,179.36											
	Outside Corner	lin ft	40	\$ 3.20	\$ -		\$ 128.00	\$ -	\$ 128.00											
	Fascia	lin ft	750	\$ 1.84	\$ -		\$ 1,380.00	\$ -	\$ 1,380.00											
	Gable Flashing	lin ft	200	\$ 2.99	\$ -		\$ 598.00	\$ -	\$ 598.00											
	Ridge Cap	lin ft	380	\$ 3.15	\$ -		\$ 1,197.00	\$ -	\$ 1,197.00											
	#10 x 1 1/2" Pre-painted Screws w/neoprene washer	ea	49588	\$ 0.13			\$ 6,446.44	\$ -	\$ 6,446.44											
	#12 x 5/8" Pre-painted Stitch Screw w/neoprene washer	ea	17048	\$ 0.18			\$ 3,068.64	\$ -	\$ 3,068.64											
<b>7900</b>	<b>Joint Sealers</b>																			\$ 0.09
	Acoustical Sealant, 3/4" dia	c. lin ft	37	\$ 14.87	\$ 75.00		\$ 550.19	\$ 2,775.00	\$ 3,325.19											
	<b>Division 8 - Doors &amp; Windows</b>																			\$ 0.81
<b>8100</b>	<b>Steel Doors &amp; Frame</b>																			\$ 6.790.00
	Steel Door, Insulated, 18 ga, 3'0" x 6' 8" with Frame	ea	7	\$ 615.00	\$ 62.50		\$ 4,305.00	\$ 437.50	\$ 4,742.50											
	Steel KD Frame, 16 ga, single	ea	7	\$ 234.00	\$ 58.50		\$ 1,638.00	\$ 409.50	\$ 2,047.50											
<b>8200</b>	<b>Wood &amp; Plastic Doors</b>																			\$ 0.07
	Site Built Wood Door 3'0" x 6'8"	ea	5	\$ 225.00	\$ 135.00		\$ 1,125.00	\$ 675.00	\$ 1,800.00											
	Wood Frame, 5/4x4 9/16" deep	lin ft	65	\$ 8.10	\$ 2.19		\$ 526.50	\$ 142.35	\$ 668.85											
<b>8300</b>	<b>Specialty Doors</b>																			\$ 0.06
	3'x7' Overhead Door, 24 ga. Steel, chain hoist operated	ea	1	\$ 1,525.00	\$ 470.00		\$ 1,525.00	\$ 470.00	\$ 1,995.00											
<b>8700</b>	<b>Door Hardware</b>																			\$ 0.49
	Door Closer	ea	7	\$ 247.00	\$ 78.00		\$ 1,729.00	\$ 546.00	\$ 2,275.00											
	Door Check Chain	ea	7	\$ 3.50	\$ 2.50		\$ 24.50	\$ 17.50	\$ 42.00											

	Panic Bar w/Outside Key & Pull	ea	7	\$ 1,675.00	\$ 175.50		\$ 11,725.00	\$ 1,228.50	\$ 12,953.50									
	Alum. Thresholds	ea	7	\$ 43.05	\$ 29.25		\$ 301.35	\$ 204.75	\$ 506.10									
	Weatherstripping	ea	7	\$ 37.50	\$ 156.00		\$ 262.50	\$ 1,092.00	\$ 1,354.50									
	Vinyl Door Sweeps	ea	7	\$ 13.40	\$ 18.75		\$ 93.80	\$ 131.25	\$ 225.05									
	<b>Division 9 - Finishes</b>																	
<b>9100</b>	<b>Metal Support Assemblies</b>																	
	5/16" T-Bar Support System, 2'x4' grid	sq ft	120	\$ 1.37	\$ 0.59		\$ 164.40	\$ 70.80	\$ 235.20									
<b>9250</b>	<b>Gypsum Board</b>																	
	5/8" FR Drywall, Moisture Resistant	sq ft	9278	\$ 1.09			\$ 10,113.02	\$ -	\$ 10,113.02									
	Boarding, Walls	sq ft	9156	\$ -	\$ 0.47		\$ -	\$ 4,303.32	\$ 4,303.32									
	Boarding, Ceilings	sq ft	122	\$ -	\$ 0.52		\$ -	\$ 63.44	\$ 63.44									
	Tape & Finsh, Walls	sq ft	348	\$ -	\$ 0.50		\$ -	\$ 174.00	\$ 174.00									
	Firetape, Walls	sq ft	8808	\$ 0.05	\$ 0.15		\$ 440.40	\$ 1,321.20	\$ 1,761.60									
	Tape & Finish, Ceilings	sq ft	122	\$ -	\$ 0.73		\$ -	\$ 89.06	\$ 89.06									
<b>9500</b>	<b>Ceiling</b>																	
	5/8" Mineral Fibre Tiles	sq ft	120	\$ 2.69	\$ 0.75		\$ 322.80	\$ 90.00	\$ 412.80									
<b>9910</b>	<b>Painting</b>																	
	Paint walls & ceilings	sq ft	47824	\$ -	\$ 0.76		\$ -	\$ 36,465.80	\$ 36,465.80									
	Paint Doors	ea	5	\$ 20.50	\$ 56.50		\$ 102.50	\$ 282.50	\$ 385.00									
	Oil Primer	5 gal	18	\$ 102.00	\$ -		\$ 1,836.00	\$ -	\$ 1,836.00									
	Latex Paint	5 gal	55	\$ 139.00	\$ -		\$ 7,645.00	\$ -	\$ 7,645.00									
	<b>Division 10 - Specialties</b>																	
<b>10520</b>	<b>Fire Protection Specialties</b>																	
	All Purpose 9 1/2 lbs Extinguisher	ea	11	\$ 121.50			\$ 1,336.50	\$ -	\$ 1,336.50									
	Mount Extinguishers	ea	11	\$ -	\$ 15.65		\$ -	\$ 172.15	\$ 172.15									
	<b>Division 11 - Building Equipment</b>																	
<b>11800</b>	<b>Barn Equipment</b>																	
	<b>Penning</b>																	
				\$ -														
	PVC Plank 1.75"x20'	ea	82	\$ 346.78			\$ 28,436.21	\$ -	\$ 28,436.21									
	PVC Plank 2" x 38" x 22'	ea	139	\$ 447.34			\$ 62,180.45	\$ -	\$ 62,180.45									
	PVC Bullnose, 1.75"x32"	ea	304	\$ 10.86			\$ 3,302.93	\$ -	\$ 3,302.93									
	PVC Droprod 3/4"x20'	ea	61	\$ 40.45			\$ 2,467.41	\$ -	\$ 2,467.41									
	1/4" SS Bolt/Washers/Lock Nuts	ea	3000	\$ 0.73			\$ 2,203.20	\$ -	\$ 2,203.20									
	SS 6 Loop U-channel Post 38" w/Plate	ea	143	\$ 87.37			\$ 12,494.00	\$ -	\$ 12,494.00									
	SS 3 Loop U-channel Post 38" w/Plate	ea	2	\$ 89.79			\$ 179.58	\$ -	\$ 179.58									
	SS double U-Channel Post 38" w/Plate	ea	64	\$ 114.88			\$ 7,352.08	\$ -	\$ 7,352.08									
	SS U-Channel Post 38" w/Plate (Feeders)	ea	144	\$ 71.19			\$ 10,251.49	\$ -	\$ 10,251.49									
	SS Wall U-Channel Post, 38"	ea	145	\$ 63.75			\$ 9,243.75	\$ -	\$ 9,243.75									
	SS 3-Loop Wall Bracket	ea	16	\$ 57.44			\$ 919.10	\$ -	\$ 919.10									
	3/8" SS Lag Bolts	ea	50	\$ 2.18			\$ 108.80	\$ -	\$ 108.80									
	3/8" x3" SS Anchor bolts w/nuts and washer	ea	1400	\$ 1.85			\$ 2,594.20	\$ -	\$ 2,594.20									
	SS T-Bolt w/nuts and washers	ea	650	\$ 7.46			\$ 4,848.19	\$ -	\$ 4,848.19									
	<b>Animal HVAC</b>																	
	Exhaust Fan - Better Air LPF-2400	ea	9	\$ 893.70			\$ 8,043.30	\$ -	\$ 8,043.30									
	Exhaust Fan - Better Air LPF-3800	ea	8	\$ 1,334.70			\$ 10,677.60	\$ -	\$ 10,677.60									
	Exhaust Fan - Better Air LPF-4800	ea	8	\$ 1,994.40			\$ 15,955.20	\$ -	\$ 15,955.20									
	Exhaust Fan - Better AirFW-6020	ea	4	\$ 2,878.20			\$ 11,512.80	\$ -	\$ 11,512.80									
	Recirc Fan Better Air LCF 2400	ea	8	\$ 675.90			\$ 5,407.20	\$ -	\$ 5,407.20									
	Winter Closure	ea	17	\$ 106.20			\$ 1,805.40	\$ -	\$ 1,805.40									
	Hood	ea	12	\$ 90.90			\$ 1,090.80	\$ -	\$ 1,090.80									
	Backdraft Damper	ea	12	\$ 157.50			\$ 1,890.00	\$ -	\$ 1,890.00									
	White Silicone	ea	40	\$ 5.64			\$ 225.72	\$ -	\$ 225.72									
	#10 x 1 1/2" SS Screws	ea	500	\$ 0.18			\$ 90.00	\$ -	\$ 90.00									
	Air Inlet - Better Air SF 2000	ea	220	\$ 130.05			\$ 28,611.00	\$ -	\$ 28,611.00									
	Air inlet actuator	ea	5	\$ 535.50			\$ 2,677.50	\$ -	\$ 2,677.50									
	SS cable	lin. Ft.	1700	\$ 1.17			\$ 1,989.00	\$ -	\$ 1,989.00									
	Galv. Cable Clamp	ea	50	\$ 3.15			\$ 157.50	\$ -	\$ 157.50									







	10"x8" U-R Tee	ea	28	\$ 426.30			\$ 11,936.40		\$ 11,936.40											
	10" U-R Wye	ea	9	\$ 948.26			\$ 8,534.34		\$ 8,534.34											
	8" U-R x 6" SDR35 Adapter	ea	12	\$ 305.31			\$ 3,663.72		\$ 3,663.72											
	8" U-R x 4" PVC DWV	ea	2	\$ 412.78			\$ 825.56		\$ 825.56											
	8" Ultra-rib pipe	lin ft	94	\$ 13.38			\$ 1,257.72		\$ 1,257.72											
	8" Pit Plugs	ea	28	\$ 32.00			\$ 896.00		\$ 896.00											
	6" SRD35 Pipe	lin ft	94	\$ 12.27			\$ 1,153.38		\$ 1,153.38											
	6" SDR35 45 degree Elbow	ea	12	\$ 56.69			\$ 680.28		\$ 680.28											
	6" SDR 35 Union	ea	12	\$ 75.95			\$ 911.40		\$ 911.40											
	6" SDR35 90 degree Elbow	ea	24	\$ 70.91			\$ 1,701.84		\$ 1,701.84											
	<b>Misc</b>			\$ -					\$ -											\$ 0.25
	Alarm System	ea	1	\$ 4,500.00			\$ 4,500.00		\$ 4,500.00											
	Load-out Ramp	ea	1	\$ 2,240.00			\$ 2,240.00		\$ 2,240.00											
	Stationary Weigh Scale	ea	1	\$ 1,717.36			\$ 1,717.36		\$ 1,717.36											
	Load Cells, 500lbs	ea	4	\$ 65.00			\$ 260.00		\$ 260.00											
<b>11850</b>	<b>Equipment Installation</b>																			\$ 3.21
	Install Penning	lin ft	4698	\$ 7.78			\$ 36,531.65		\$ 36,531.65											
	Install Exhaust & Recirculation Fans	ea	37	\$ 9.72			\$ 359.64		\$ 359.64											
	Install Air Inlets	ea	124	\$ 9.72			\$ 1,205.28		\$ 1,205.28											
	Install Inlet Actuators	ea	5	\$ 9.72			\$ 48.60		\$ 48.60											
	Install Heaters	ea	9	\$ 110.16			\$ 991.44		\$ 991.44											
	Install Environmental Controls	ea	5	\$ 270.00			\$ 1,350.00		\$ 1,350.00											
	Install Back-up Thermostats	ea	5	\$ 95.00			\$ 475.00		\$ 475.00											
	Install Manual Fan Controls	ea	5	\$ 95.00			\$ 475.00		\$ 475.00											
	Install Waterlines	lin ft	3900	\$ 4.08			\$ 15,921.36		\$ 15,921.36											
	Install Drinkers	ea	152	\$ 19.44			\$ 2,954.88		\$ 2,954.88											
	Install HPW Pipe	lin ft	550	\$ 6.29			\$ 3,457.08		\$ 3,457.08											
	Install Pressure Washer	ea	1	\$ 760.00			\$ 760.00		\$ 760.00											
	Install Feed Lines	lin ft	1750	\$ 6.80			\$ 11,907.00		\$ 11,907.00											
	Install Feed Motors	ea	12	\$ 97.20			\$ 1,166.40		\$ 1,166.40											
	Install Feeders	ea	72	\$ 32.40			\$ 2,332.80		\$ 2,332.80											
	Install Feed Bins	ea	4	\$ 1,440.00			\$ 5,760.00		\$ 5,760.00											
	Install Lift Station	ea	1	\$ 4,440.00			\$ 4,440.00		\$ 4,440.00											
	Install Sewer Pipe	lin ft	1122	\$ 16.75			\$ 18,793.50		\$ 18,793.50											
	Install Alarms	ea	1	\$ 2,600.00			\$ 2,600.00		\$ 2,600.00											
	Install Load-out Ramp	ea	1	\$ 960.00			\$ 960.00		\$ 960.00											
	Install Scale	ea	1	\$ 1,200.00			\$ 1,200.00		\$ 1,200.00											
	<b>Division 15 - Mechanical</b>																			\$ 1.16
<b>15200</b>	<b>Process Piping</b>																			\$ 0.57
	1" Gas Pipe	lin ft	650	\$ 9.70	\$ 10.90		\$ 6,305.00	\$ 7,085.00	\$ 13,390.00											
	Gas Connection to Unit Heater	ea	9	\$ 140.76	\$ 532.02		\$ 1,266.84	\$ 4,788.18	\$ 6,055.02											
	Gas Pipe Fittings	allow	5%	\$ 13,390.00			\$ 669.50	\$ -	\$ 669.50											
<b>15400</b>	<b>Plumbing Fixtures &amp; Equipment Including Supply, Waste and Vent Piping</b>																			\$ 0.20
	Water Closet, 2-piece, floor mount	ea	1	\$ 794.75	\$ 824.50		\$ 794.75	\$ 824.50	\$ 1,619.25											
	Shower, 1 piece, Fibreglass	ea	1	\$ 1,105.00	\$ 871.25		\$ 1,105.00	\$ 871.25	\$ 1,976.25											
	S.S. Sink, Single	ea	1	\$ 1,253.75	\$ 850.00		\$ 1,253.75	\$ 850.00	\$ 2,103.75											
	Floor Drain	ea	2	\$ 433.50	\$ 86.50		\$ 867.00	\$ 173.00	\$ 1,040.00											
	Rough In - Washer	ea	1	\$ 64.60	\$ 233.75		\$ 64.60	\$ 233.75	\$ 298.35											
<b>15500</b>	<b>Heat Generating Equipment</b>																			\$ 0.12
	Hot Water Heater	ea	1	\$ 2,741.25	\$ 1,360.00		\$ 2,741.25	\$ 1,360.00	\$ 4,101.25											
<b>15700</b>	<b>HVAC</b>																			\$ 0.28
	1000 Watt Baseboard	ea	2	\$ 54.00	\$ 80.50		\$ 108.00	\$ 161.00	\$ 269.00											
	Exhaust Fan, 150 CFM	ea	1	\$ 115.00	\$ 58.00		\$ 115.00	\$ 58.00	\$ 173.00											
	6" diameter exhaust ducting	lin ft	22	\$ 5.20	\$ 3.61		\$ 114.40	\$ 79.42	\$ 193.82											
	36"x36" Ducting	lin ft	22	\$ 12.06	\$ 120.60		\$ 265.32	\$ 2,653.20	\$ 2,918.52											
	1" Connecting Pipe	lin ft	50	\$ 9.70	\$ 10.90		\$ 485.00	\$ 545.00	\$ 1,030.00											

