



Ministry of Natural Resources and Agriculture

PROJECT EXECUTION UNIT

NATIONAL AGRICULTURE SHOW GROUNDS, BELMOPAN

Tel:(501)-822-2131, Fax:(501)-822-0041,E-Mail: minagricpubelize@gmail.com

**WORKS CONTRACT
FOR
IRAH CONSTRUCTION**

NAME OF PROJECT : CONSTRUCTION OF COMMUNAL LIVESTOCK HOLDING FACILITY

Ministry of Natural Resources & Agriculture (MNRA)

("The Contracting Authority"),

of the one part,

and

IRAH Conctruction, 19 Montalvo Street Las Flores, Belmopan City, Belize
("the Supplier")

of the other part,

have agreed as follows:

Whereas the MNRA has requested the Contractor to provide certain works as defined in this Contract (hereinafter called *the Works*),

and has accepted a Proposal by the Contractor for the execution and delivery of such *Works* and the remedying of any defects therein.

It is hereby agreed as follows:

Article 1. In this contract words and expressions shall have the meanings assigned to them in the contractual conditions set out below.

Article 2. The following documents shall be deemed to form and be read and construed as part of this contract, in the following order of precedence:

- (a) The contract,
- (b) Conditions to the Contract (Annex I),
- (c) Description of Works (Annex II)
- (d) Bill of Quantities (BOQ) [Annex III]
- (e) Designs (Annex IV)

Addenda shall have the order of precedence of the document they are modifying.

Article 3. In consideration of the payment to be made by the United Nations Development Program (UNDP) to the Contractor as hereinafter mentioned, the Contractor undertakes to execute and complete the goods and remedy defects therein in full compliance with the provisions of the contract and its annex (Description of Works, BOQ and Designs).

Article 4. The MNRA will approve payment for the Contractor in consideration of the execution and completion of the works and remedying of defects therein the amount of:

Price & Payment:

In full consideration for the complete and satisfactory performance of the Services under this Contract, UNDP shall pay the Contractor a fixed contract price of BZD \$113,064.00 (One Hundred Thirteen Thousand Sixty Four Dollars)

The price of this contract is not subject to any adjustment or revision because of price or currency fluctuation or the actual costs incurred by the contractor in the performance of the Contract.

UNDP shall effect payments to the Contractor after acceptance by UNDP of the invoices submitted by the Contractor to the address specified below upon achievement of the corresponding milestone of the following amounts:

MILESTONE	AMOUNT	TARGET DATE
Submission of & approval of work plan by the MNRA. Payment will be made a minimum of 2 weeks after the submission of every invoice	22,612.80(Twenty Two Thousand Six Hundred Twelve and Eighty)	November 18 th 2014
Submission & approval of 1 st Progress Report (Wooden House Complete, Perimeter Fence & Loading/Unloading Chutes	33,919.20(Thirty Three Thousand Nine Hundred Nineteen and Twenty)	December 9 th 2014
Submission & approval of 2 nd Progress Report (Roof Structure, Storage Room & Concrete Floor, Wiring, Plumbing & Water Troughs)	33,919.20(Thirty Three Thousand Nine Hundred Nineteen and Twenty)	December 23 rd 2014
Submission & Approval of Final Completion Report (Corralling Pen Chute, Concrete Floor for Chute, Internal Perimeter Fence, Gates, Installation Scale & Squeeze & Site Clearing	22,612.80(Twenty Two Thousand Six Hundred Twelve and Eighty)	January 6 th 2014


In witness whereof the parties hereto have signed the contract. This contract shall take effect on the date on which it is signed by the last party, namely the Contractor.

Done in English in two originals, one original being for the MNRA/PEU and one original being for the Contractor.

For the Contractor

Name: *manuel I. Igheta*

Title: *contractor*


Signature: 

Date: *17/11/14*

For the MNRA

Name: *Carlos A. Igheta*

Title: *Director of projects*

Signature: 

Date: *17/11/14*

ANNEX 1:

CONDITIONS to the CONTRACT

Article 1: Law and language of the contract

The language used shall be English.

Article 2: Communications

2.2 The contact information of the parties is as follows:

For the MNRA:

Ms. Tracey Recinos

Tel: 822-2131

E-mail: agriculturegcca@gmail.com

For the Contractor:

Mr. Manuel Iraheta

Tel: 610-1002

Email : manuel.iraheta@yahoo.com

Article 3: Sub-contracting

Subcontracting is not allowed except on the mutual written agreement of both parties to this contact agreement.

Article 4: Duration of the Contract

The contract will enter into force upon signature by the Contractor. The contractor will have SEVEN (7) weeks to deliver the goods to an agreed location, by the MNRA & IRAH CONSTRUCTION.

Article 5: Queries of Conditions of Contract

The Project Coordinator & Project Manager shall clarify any queries in the conditions of contract.

Article 6: Completion Reports & Certificate

The Contractor must submit completion reports at the end of prescribed deliverables. These reports will then be reviewed and must be approved by the Project Manager or Project Coordinator in order to process payments. A Completion Certificate will be issued at the end of the contract period after inspection that all activities, stated in the Description of Works and BOQ, has been finalized and approved by the Project Manager/Coordinator.

Article 7: Defects, Testing & Correction

The Contracting Authority at anytime shall check the Contractor's work and notify the Contractor of any Defects that are found. If the Project Coordinator carries out a test not specified in the Specification to check whether any work has a Defect and the test shows that it does the Contracting Authority shall give the Contractor notice to remedy all defects before the completion date. Concrete tests shall be made in accordance with ASTM method C192, tested and the results recorded in accordance with ASTM method C39.

Article 8: Termination of the Contract

The Contracting Agency or the Contractor may terminate the Contract if:

- The Contractor stops work for more than 7 days without the prior approval of the Project Coordinator
- Contracting Agency or the Contractor is made bankrupt or goes into liquidation other than for a reconstruction or amalgamation;
- Project Coordinator gives Notice that failure to correct a particular Defect and the Contractor fails to correct it within a reasonable period of time determined by the Project Coordinator;
- Contractor has delayed the completion of the Works by the number of days for which the maximum amount of liquidated damages can be paid;
- Notwithstanding the above, the Contracting Agency may terminate the Contract for convenience at any time.

Article 9: Liquidated Damages

The Contractor shall pay liquidated damages to the Contracting Authority at 0.05% of the overall contracted amount per week that Completion Date is later than the Intended Completion Date. The total amount of liquidated damages shall not exceed 5% of the overall contracted amount. The Contracting Agency may deduct liquidated damages from payments due to the Contractor.

Article 10: Quality of Timber

Timber to be used in the permanent works shall be thoroughly seasoned. Sound, free from waney edges, open shakes, splits pin holes; and large loose or dead knots or other defects that may impair its strength and durability. Hardwoods shall be used. No excessively light, spongy, soft or otherwise inferior timber shall be approved.

Article 11: Contractor's drawings

The Office of the MNRA will provide all the necessary technical specifications.

Article 12: Period of implementation of tasks

The period of implementation is November 17th – January 5th 2014

Article 13: General principles for payments

Payments shall be made in Belize Currency (BZ\$).

Article 14: Safety & Taking Over

The Contractor shall be responsible for the safety of all activities, equipments & materials on the Site at all times until the Contracting Authority has officially taken over. Taking over will be done at the date of issuance of the completion certificate by the Contracting Authority.

Article 15: Dispute settlement

Any dispute arising out of or relating to this contract which cannot be settled otherwise shall be referred to the exclusive jurisdiction of Belize applying the national legislation of Belize.

ANNEX 2: COMMUNAL LIVESTOCK HOLDING FACILITY DESCRIPTION OF WORKS

Site Clearing

This includes Site clearing, removal of existing trees and clearing of site after completion of works.

150ft X 120ft Perimeter Fence including divisions made of Hardwood Lumber

This includes the perimeter fence and the internal/division fence. It is for Supply and Installation of Fence Posts and Rails made of Hardwood Lumber with divisions. Posts are to measure 4" X 6" X 9' spacing 8feet(ft) c/c, Rails are to measure 2" X 6" X 8' spacing 14" c/c, Posts for Hinge gate are to measure 6" X 6" X 9' and to all be joined with 6" Galvanized Nails. The top of the post is to measure a minimum of 6ft from ground level and should be inserted a minimum of 3ft below ground level. Refer to Diagram.

Loading & Unloading Chute made of Hardwood Lumber

This includes One Loading and One Unloading Chute and must be attached at the entrance section of the Corral. It is for the Supply and Installation of Posts measuring 4" X 4" thick hardwood, Rails measuring 2" X 6" thick hardwood with spacing 12" c/c, Decking to use 2" X 6" thick hardwood lumber. Top & Floor Joist to be fixed using 2" X 6" thick hardwood.

150ft in length Corralling Pen & Chute Fence made of Hardwood Lumber

This includes Fence for the Corralling Pen & Chute, Pedestrian Gate, Cutting Gate and Locking (Slide) Gate. It is for the Supply and Installation of Posts measuring 6" X 6" X 9' spacing 6ft c/c, Upper Rails measuring 2" X 6" X 6' spacing 12" c/c, Lower Rails measuring 2" X 10" X 6', Posts for Hinge gate are to measure 6" X 6" X 9' and to be joined with 6" Galvanized Nails. Refer to Diagram

Locking Gate

Supply and install One 1.5" Galvanized Metal Pipe Gate in Chute measuring 32" W X 6' H with metal handle, latch, frame and rollers. Spacing is to be made at a minimum of 8 inches.

Cutting Gate

Supply and install One 1.5" Galvanized Metal Pipe Gate in Chute as per drawing with two heavy duty metal Hinge & Latch. Spacing is to be made at a minimum of 8 inches.

Pedestrian Gate

Supply and install Pedestrian Metal Pipe Swinging Gate 30" Wide X 6' in the chute with two heavy duty Metal Hinges & Latch. Spacing is to be made at a minimum of 8 inches.

12ft Gates made of Hardwood Lumber

Supply and Install Six standard 5 bar gates. The gates are to measure 12ft long X 62" high wide swing made of 2" X 6" hardwood at 8" spacing with two heavy duty metal hinges and a latch on each. The gates are to be joined and installed using 6" galvanized nails, nut and bolts.

A Roof Structure measuring 60 feet in length. The base of the roof must measure a minimum of 10ft from the ground level and is to be made of Pine Lumber or Hardwood & Zinc Roof.

Roof Structure is to include but not be limited to posts, purling, beams, rafters, supports, roofing and ridging. To supply and install Posts measuring 4" X 4" thick X 12' in height at 10ft spacing, Purling to measure 1" x 4" thick, Beams and Rafters to measure 2" x 4", Supports to measure 2" X 4" thick hardwood or treated pine lumber to be joined using galvanized nails and nuts & bolts if necessary. Roofing sheets are to be R Panel unpainted with a minimum thickness of 28G. It must also include galvanized roof ridging to properly cover 60ft of roofing with eaves of a minimum of 12 inches. Roof Ridging and Roofing Sheets to be securely fastened with roofing screws.

15ft X 15ft Storage Room, which is to be made of concrete.

Storage room is to include Floor, Foundation, Walls and Belt Beam. Supply and construct Concrete Foundation to be made with 3/8" diameter Rebar (4"X4"), 1/4" diameter Rebar and Concrete Mix with a minimum PSI of 3500. Foundation must be a Raw Foundation with beams having a measurement of no less than 6"W X 10"H which must be attached to the floor slab. 1/4" Rebar Binder for the foundation must be a maximum of 16" apart. Walls are to be made of concrete blocks measuring 16" X 8" X 6" to have cavity fills and 3/8" rebar every 4ft center to center. Storage Room floor is to be made of concrete mix with a minimum PSI of 3500 with BRC 66 Steel Fabric to be set at the center of the concrete mixture to cover a minimum of 225 sq-ft. The concrete mix must measure no less than 3" from ground level. Belt Beam to be used at the top level where the wall meets the roof is to be constructed using Concrete Mix with a minimum of 3500 PSI, 3/8" diameter Rebar (3"X3") with 1/4" diameter Rebar (binder). Belt Beam to Measure 7"W X 8"H with Binder spacing of no more than 16". Must also supply and install a double door 1-3/4" thick made of hardwood with locks, faucet with piping on the outside and a double outlet. Outlet must be to the breaker box.

A 10ft X 14ft House made of Wood or Aluminum outer walls, installing it on posts measuring 6" X 6", floor height at a minimum of 3ft from ground level with roof & steps

Supply and install a 10' X 14' X 10ft High Wooden or Aluminum House. It is to include fully functioning electrical fixtures to BEL standards: 3 light fixtures, 3 switches, 3 electrical double outlets, 1 breaker box 120 amp, 1-3/4" hardwood door with locks, aluminum windows, medium duty bathroom faucet, electrical wires. House to include a roof made of galvanized roofing, roof ridging, supported with hardwood lumber securely fastened with roofing nails. House to be securely fastened with galvanized nails or screws where necessary. Supply & Install fully functioning plumbing fixtures of High Quality Standards: 1 Water Closet with 1 set shower head, 1 flush toilet, 1 ceramic sink & 2 faucets, 1 stainless steel double sink with supporting shelf and drawers along with PVC pipes, drain pipes & fittings. The house is to also include 3 Standard size aluminum storm guard windows (1 small for the bathroom and two double) and steps to the door. Supply and Install new 1/8"

thick celotex ceiling with all joint works and allow for external eaves surfaces. Location of the house is to be determined by the client.

Concrete Floor for Corralling Pen & Chute and a Portion of the Roof Structure with a thickness of no less than 3 inches

Supply and Install Concrete Mix with a minimum PSI of 3500 and BRC 66 Steel Fabric to cover an area of no less than 1,400 sqft. The floor is to have a thickness of no less than 3" from the ground level and the BRC 66 Steel Fabric to be at a cover of 1.5" within the Mix. The Concrete Mix of the Chute and Corralling Pen is to cover all that area from inner post to inner post. The Chute, Corralling Pen and a portion of the roof's Floor must have a rough finish. All other Concrete Mix must have a smooth finish. The Concrete Mix must be in accordance with the drawings found in the attached diagrams.

Scale & Squeeze

The Scale & Squeeze will be provided by the project. It is the responsibility of the contractor to install them within the Chute as shown in the attached Floor Plan Diagram. The Squeeze is to be installed at the point where it meets the Post of the Pedestrian Gate. The Scale is to be installed directly in front of the Squeeze. The Chute Fence is to be built to accommodate the Cattle Scale & Squeeze.

Water Troughs

Supply and Install Water Troughs, PVC pipes, valves and fittings. Water Troughs are to be for Livestock use, made of Heavy Duty Plastic, Minimum Capacity of 100 gallons and Black in color. The PVC pipes are to be ¾" & 1.5" schedule 40 which are to be connected from the water well to four water troughs. The layout of the pipes is to be determined by the client. Floating Valves are to be properly fixed on all troughs. Supply and Install a 2" electronic submersible pump to have a minimum Horsepower of 10 or equivalent.

Additional Information:

All items must be New and made of High Quality Material. Items that may not appear in the attached Bill of Quantities (BOQ) must be inserted. A detailed Bill of Quantities must be sent in along with proposal. Quantities of a few line items in the BOQ have been intentionally omitted and bidder must state the amount necessary to execute the job. Please refer to diagrams for measurements.

ANNEX 3

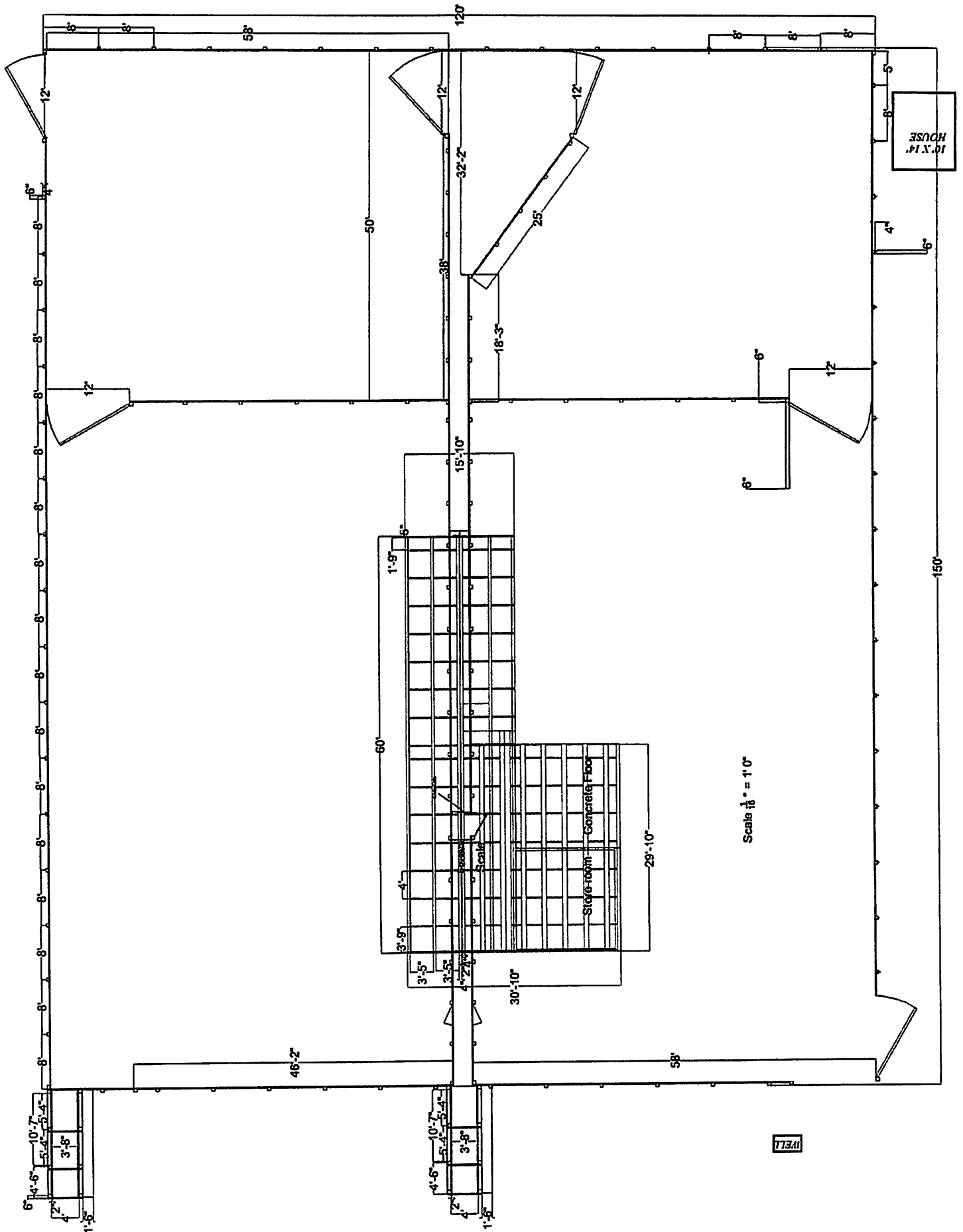
Bill of Quantities for Livestock Communal Holding Facility				
Item	Description of Works	Quantity	Unit Price	Total
1A	Site Clearing	1		
	Site clearing, removal of existing trees and clearing of site after completion of works.			\$ 1,200.00
1	150ft X 120ft Perimeter Fence including divisions made of Hardwood Lumber	1		
1.1	Perimeter/Internal Fence			
1.2	Posts measuring 4" X 6" X 9' spacing 8ft c/c	80	\$ 50.00	\$ 4,000.00
1.3	Rails measuring 2" X 6" X 8' spacing 12" c/c	375	\$ 20.00	\$ 7,500.00
1.4	Posts measuring 6" X 6" X 9' for hinge gate	10	\$ 75.00	\$ 750.00
1.5	Galvanized 6" Nails			\$ 800.00
2	One Loading & One Unloading Chute made of Hardwood Lumber	2		
2.1	Posts measuring 4" X 4"	16	\$ 54.00	\$ 864.00
2.2	Rails measuring 2" X 6" spacing 12" c/c	50	\$ 20.00	\$ 1,000.00
2.3	Decking measuring 2" X 6"	18	\$ 20.00	\$ 360.00
2.4	Top & Floor Joist 2" X 6" (fixed)	15	\$ 20.00	\$ 300.00
2.5	Galvanized 6" Nails			\$ 250.00
3	150ft in length Corraling Pen & Chute Fence made of Hardwood Lumber	1		
3.1	Posts measuring 6" X 6" X 9' spacing 6ft c/c	52	\$ 75.00	\$ 3,900.00
3.2	Upper Rails measuring 2" X 6" X 6' spacing 12" c/c	300	\$ 15.00	\$ 4,500.00
3.3	Lower Rails measuring 2" X 10" X 6'	86	\$ 25.00	\$ 2,150.00
3.4	Posts for Hinge gate 6" X 6" X 9'	6	\$ 75.00	\$ 450.00
3.5	Galvanized 6" Nails			\$ 600.00
3.1A	Locking Gate	1		
	Provide 1.5" Galvanized Metal Pipe Gate in Chute. 32" W X 6' H with 8" spacing in rails metal handle, frame and rollers.			\$ 600.00
3.2A	Cutting Gate	2		
	Provide 1.5" Galvanized Metal Pipe Gate with 8" spacing in rails in Chute as per drawing with two heavy duty metal Hinge & Latch			\$ 575.00
3.3A	Pedestrian Gate	1		
	Provide Pedestrian Metal Pipe Swinging Gate 30" Wide X 6' in the chute with 8" spacing in rails & two heavy duty Metal Hinges & Latch			\$ 550.00

4	12ft Gates made of Hardwood Lumber			
	Provide 12ft Long X 62" High Wide Swing Gate made of 2'X6" hardwood at 8" spacing with two heavy duty Metal Hinges and Latch(Standard 5 Bar Gate)	6		
4.1	2" X 6" X 10'	24	\$ 25.00	\$ 600.00
4.2	2 x 6 x 14'	24	\$ 33.00	\$ 792.00
4.3	2 x 6 x 12'	48	\$ 30.00	\$ 1,440.00
4.4	Heavy duty Metal Hinge			\$ 120.00
4.5	Nut & Bolt			\$ 240.00
4.6	Galvanized Nail			\$ 120.00
5	A Roof Structure measuring 60 feet in length. The base of the roof must measure a minimum of 10ft from the ground level and is to be made of Treated Pine Lumber or Hardwood & Zinc Roof.	1		
5.1	Posts measuring 4" X 4" X 12' at 10ft spacing	14	\$ 40.00	\$ 560.00
5.2	Purlin 1" x 4"	66	\$ 8.50	\$ 561.00
5.3	Beams 2" x 4"	16	\$ 16.60	\$ 265.60
5.4	Rafters 2" x 4"	30	\$ 26.65	\$ 799.50
5.5	Roof Sheeting 28G R Panel Unpainted	2000	\$ 6.00	\$ 12,000.00
5.6	Roof Ridging	9	\$ 35.00	\$ 315.00
5.7	Roofing Screws	20	\$ 16.00	\$ 320.00
6	15ft X 15ft X 10ft in height Storage Room, which is to be made of concrete.	1		
6.1	Foundation/Floor			
6.1.1	3/8 diameter Rebar	16	\$ 24.00	\$ 384.00
6.1.2	1/4 diameter Rebar	18	\$ 6.00	\$ 108.00
6.1.3	BRC 66 steel fabric	50	\$ 6.00	\$ 300.00
6.1.4	Concrete Mix 3,500 PSI	4	\$ 190.00	\$ 760.00
6.2	Wall/Belt Beam			
6.2.1	6" Concrete Blocks	700	\$ 1.60	\$ 1,120.00
6.2.2	3/8 diameter Rebar	18	\$ 24.00	\$ 432.00
6.2.3	1/4" diameter Rebar	16	\$ 6.00	\$ 96.00
6.2.4	Mortar Mix	3	\$ 190.00	\$ 570.00
6.2.5	Concrete Mix 3,500 PSI Cavity Fill/Beam	3	\$ 190.00	\$ 570.00
6.2.6	Double Door Complete 1-3/4" Wood	1		\$ 900.00
6.2.7	Faucet (Installed)	1		\$ 150.00
6.2.8	Double Outlet	1		\$ 300.00

7	A 10ft X 14ft House made of Wood or Aluminum outer walls, installing it on posts measuring 6" X 6", floor height at a minimum of 3ft from ground level with roof & steps				\$ 14,500.00
7.1	Supply & Install Light Fixture and switch	3			
7.2	Supply & Install electric outlets (Double)	3			
7.3	breaker box 120amp Complete	1			
7.4	Bathroom Complete	1			
7.5	Kitchenette Complete	1			
7.6	Windows	3			
7.7	Door with locks	1			
7.8	Ceiling	1			
8	Concrete Floor for Corralling Pen & Chute, Storage Room and a Portion of the Roof Structure with a thickness of no less than 3 inches	1			
8.1	Concrete Mix 3,500 PSI (min of 1,400sqft)	16	\$ 190.00		\$ 3,040.00
8.2	BRC 66 Steel Fabric @ 1.5" cover (min of 1,400sqft)	135	\$ 6.00		\$ 810.00
8.1A	Scale & Squeeze	1			\$ 300.00
	Installation of Scale & Squeeze				
8.2A	Water Troughs				
	Supply & Install 4 Water Troughs,	4	\$ 250.00		\$ 1,000.00
	¾ " schedule 40 PVC water pipe,	300	15.00		\$ 300.00
	1.5" Schedule 40 PVC water pipe,	500	25.00		\$ 700.00
	Floating Valves &	4	40.00		\$ 160.00
	Submersible Pump	1	1.50		\$ 2,000.00
9	Miscellaneous Items				
	Form Board				\$ 800.00
	Nails				\$ 150.00
	Tying Wire				\$ 200.00
	Pipe Fittings				\$ 29.90
	Other				\$ 300.00
	Total Material				\$ 78,462.00
	Total Labour				\$ 34,602.00
	Grand Total				\$ 113,064.00

ANNEX 4:

Designs of Communal Livestock Holding Facility



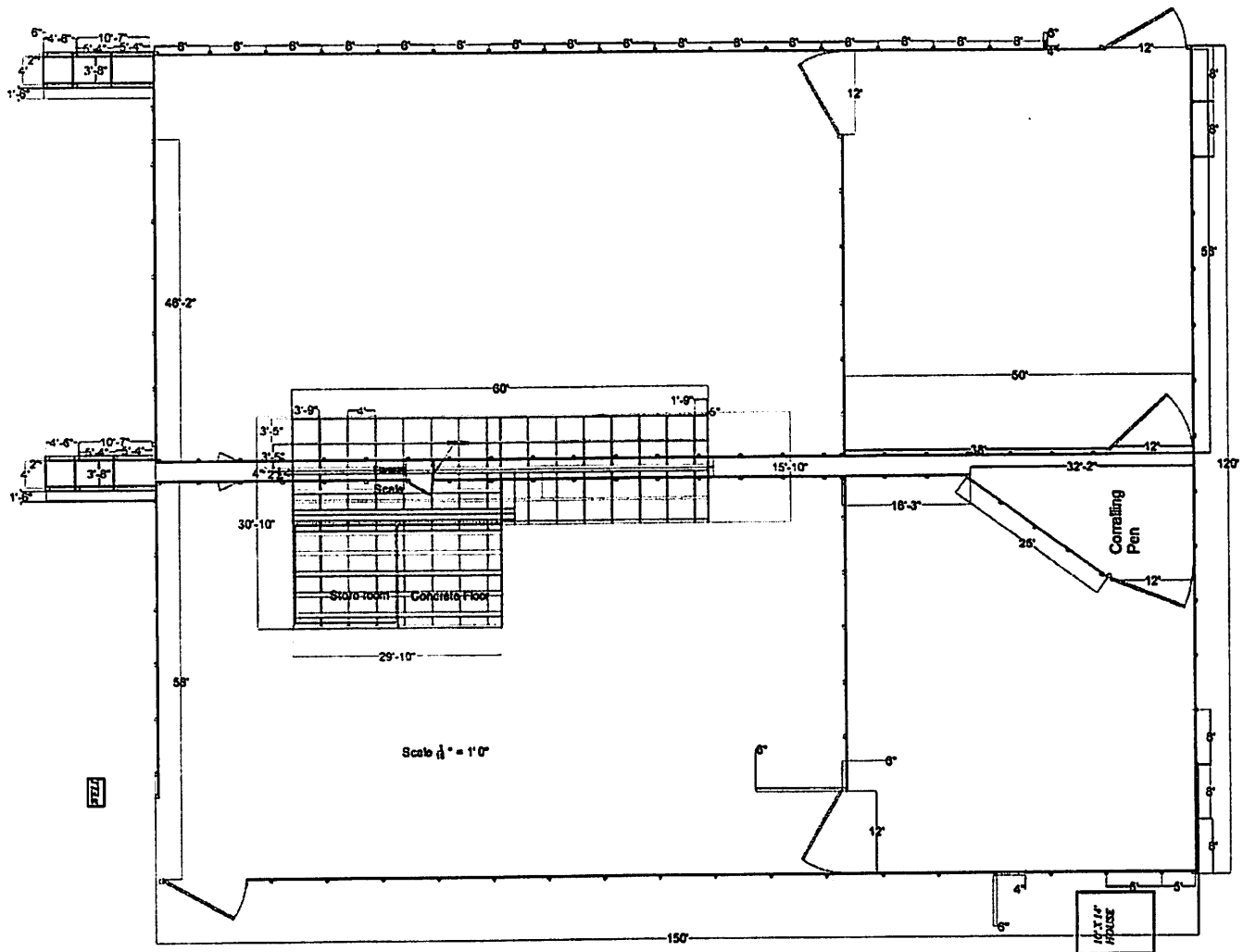
Scale 1/8" = 1' 0"

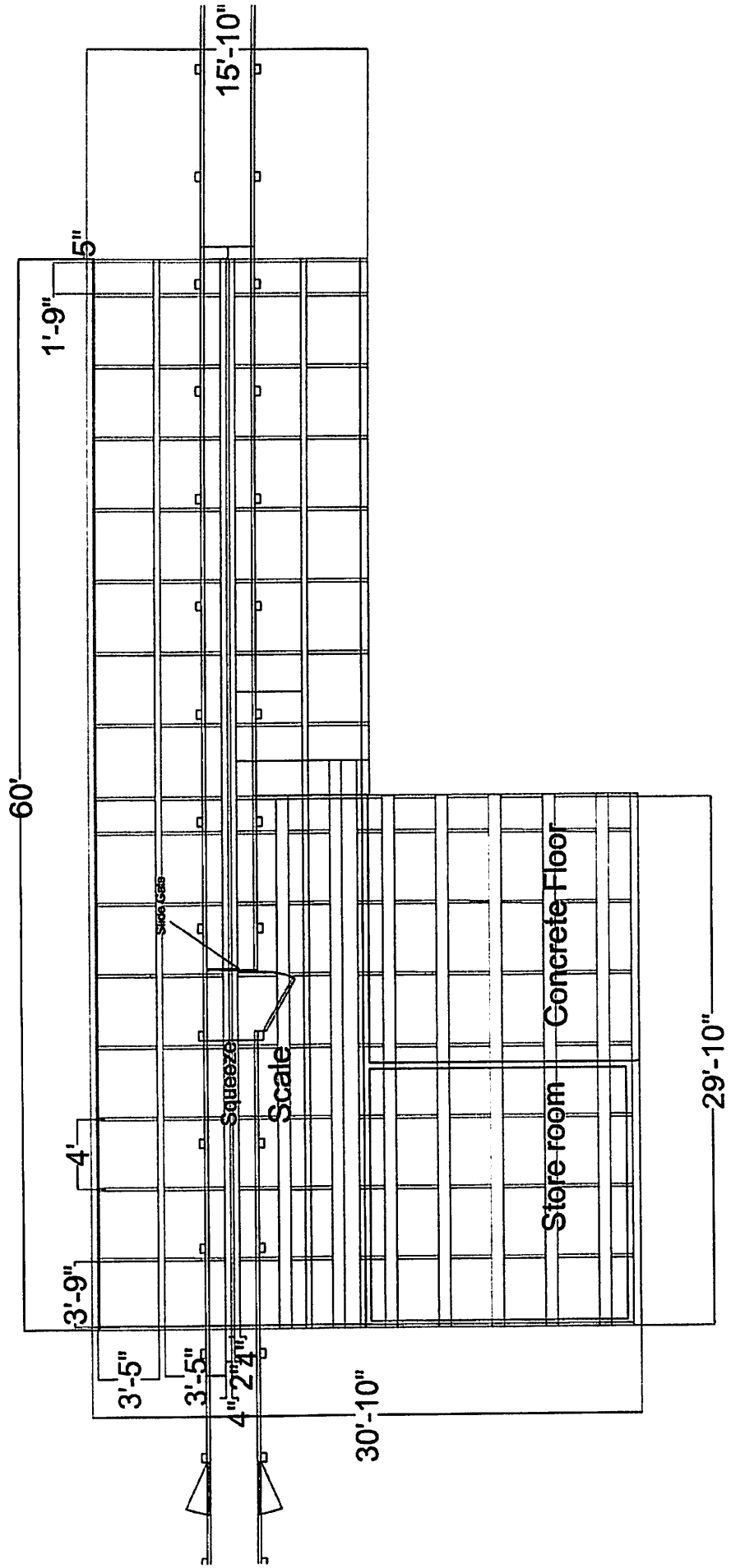
WELL

10' X 14'
HOUSE

Storage Room
Concrete Floor

Staircase





60'

1'-9"

5"

15'-10"

3'-9"

4'

3'-5"

3'-5"

4'-2 1/4"

30'-10"

29'-10"

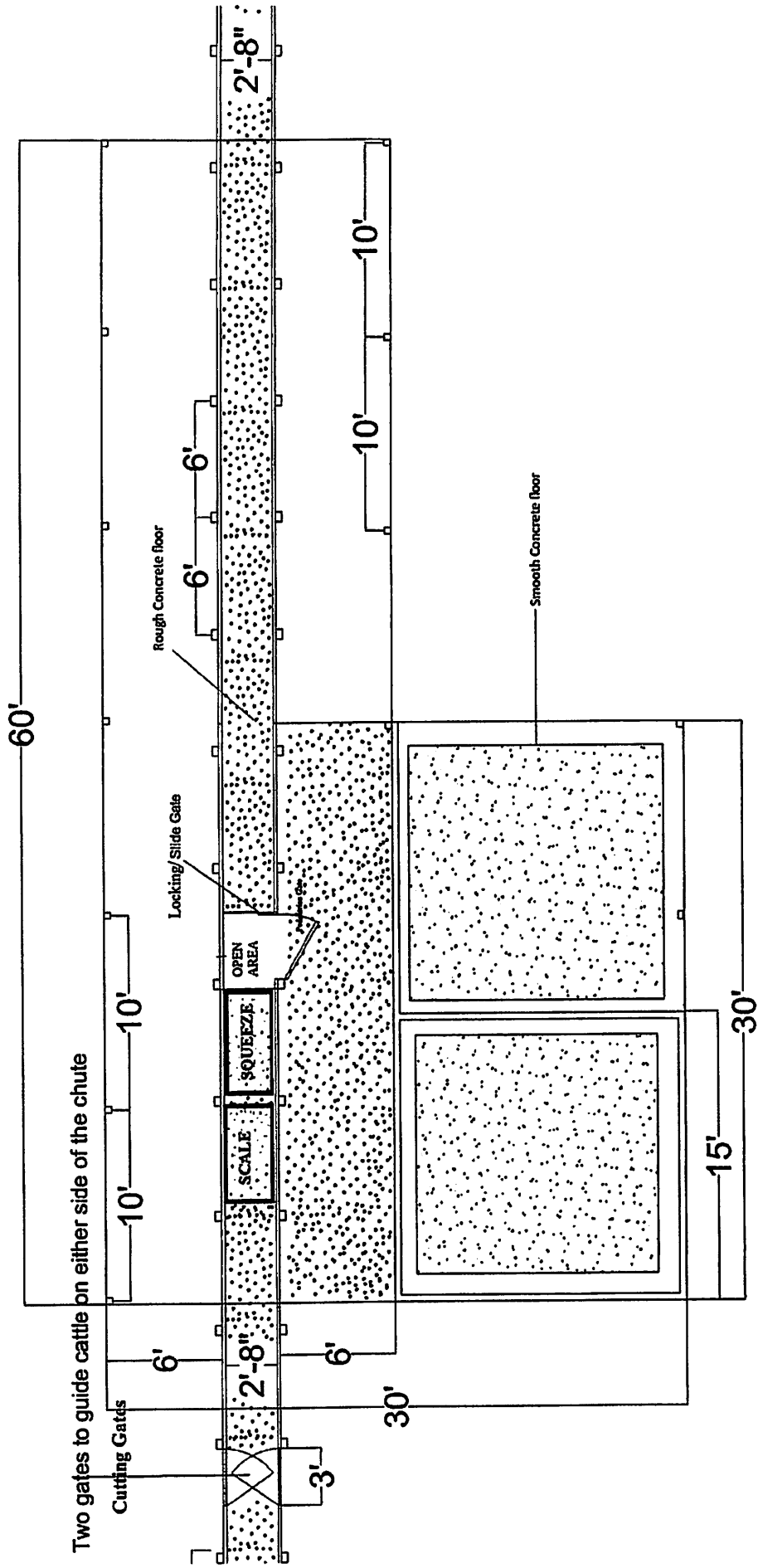
Squeeze

Scale

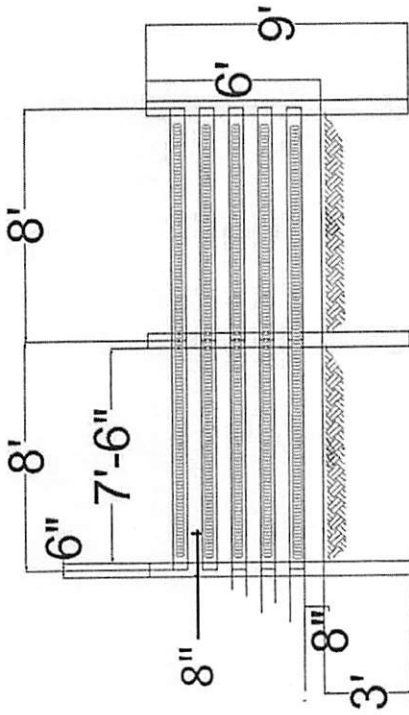
Store room

Concrete Floor

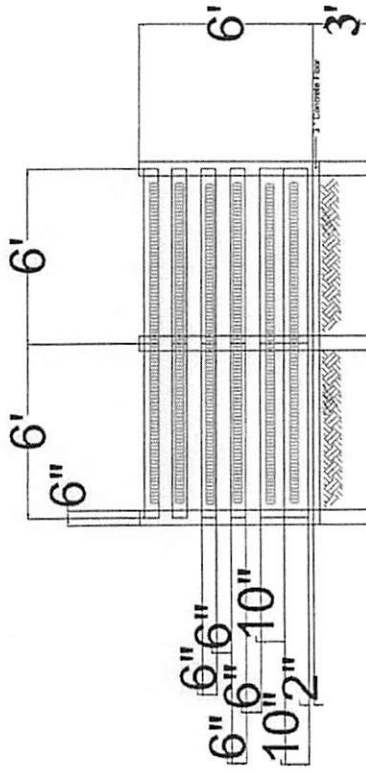
FLOOR PLAN

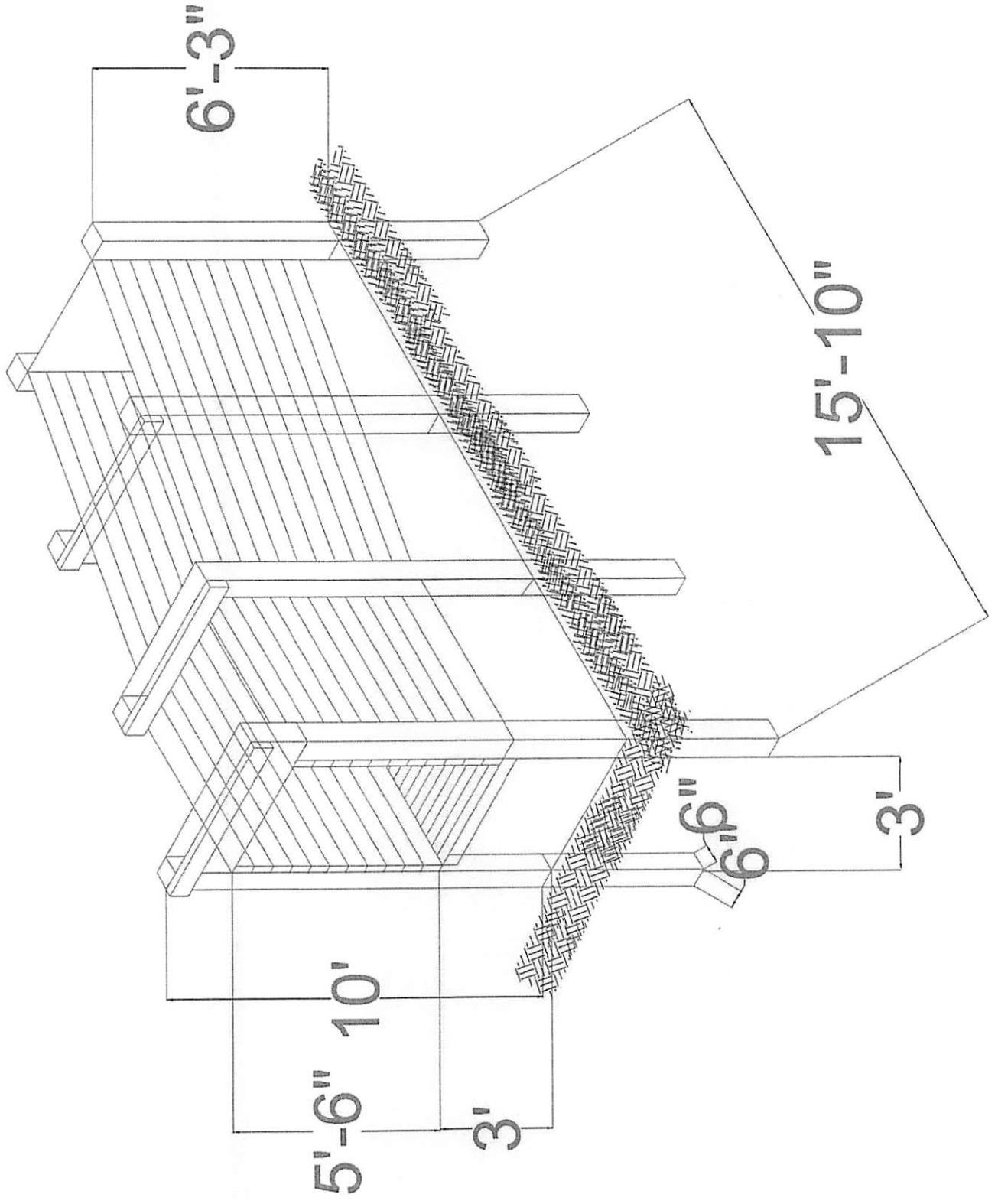


Perimeter Fence
&
Internal Fence

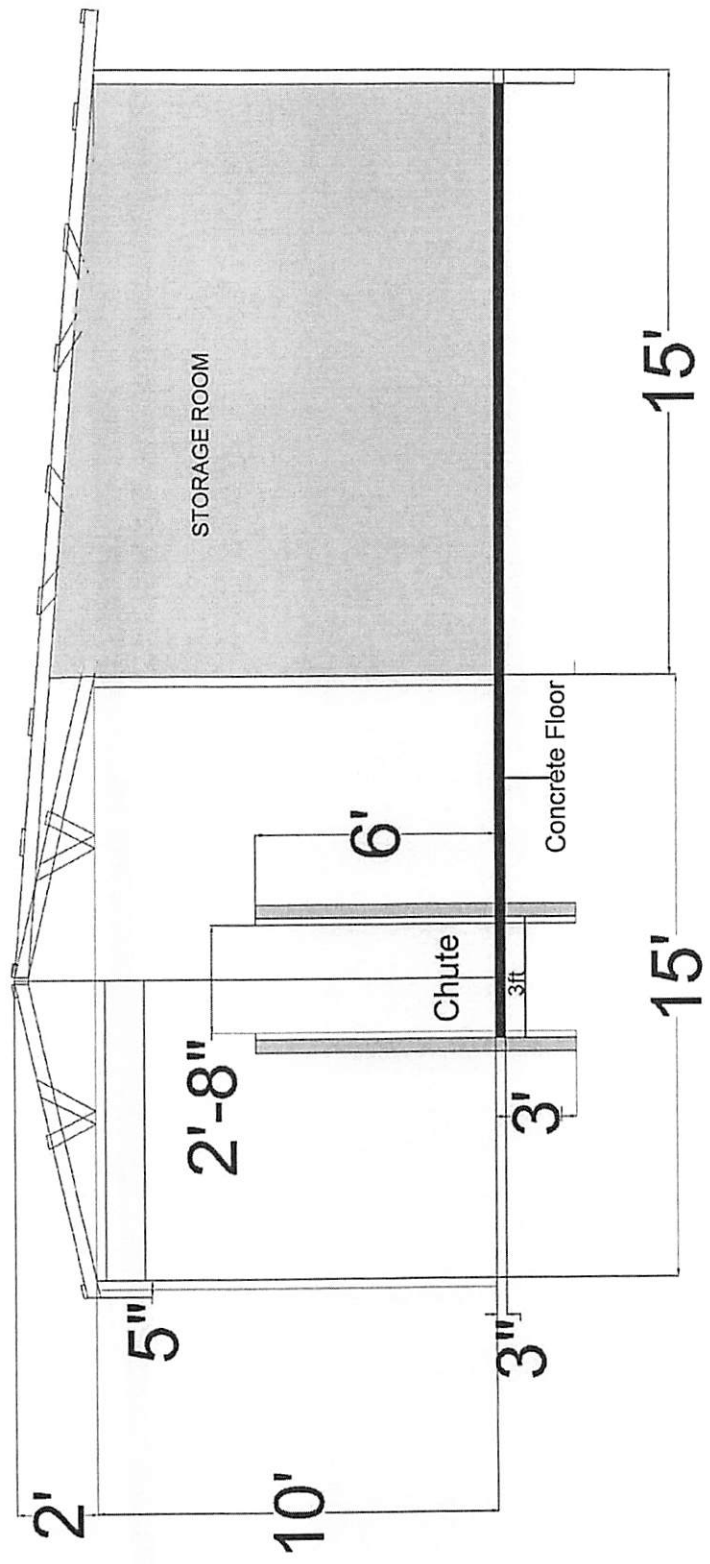


Chute Fence





FRONT VIEW OF CORRAL & ROOF STRUCTURE



Cross section A