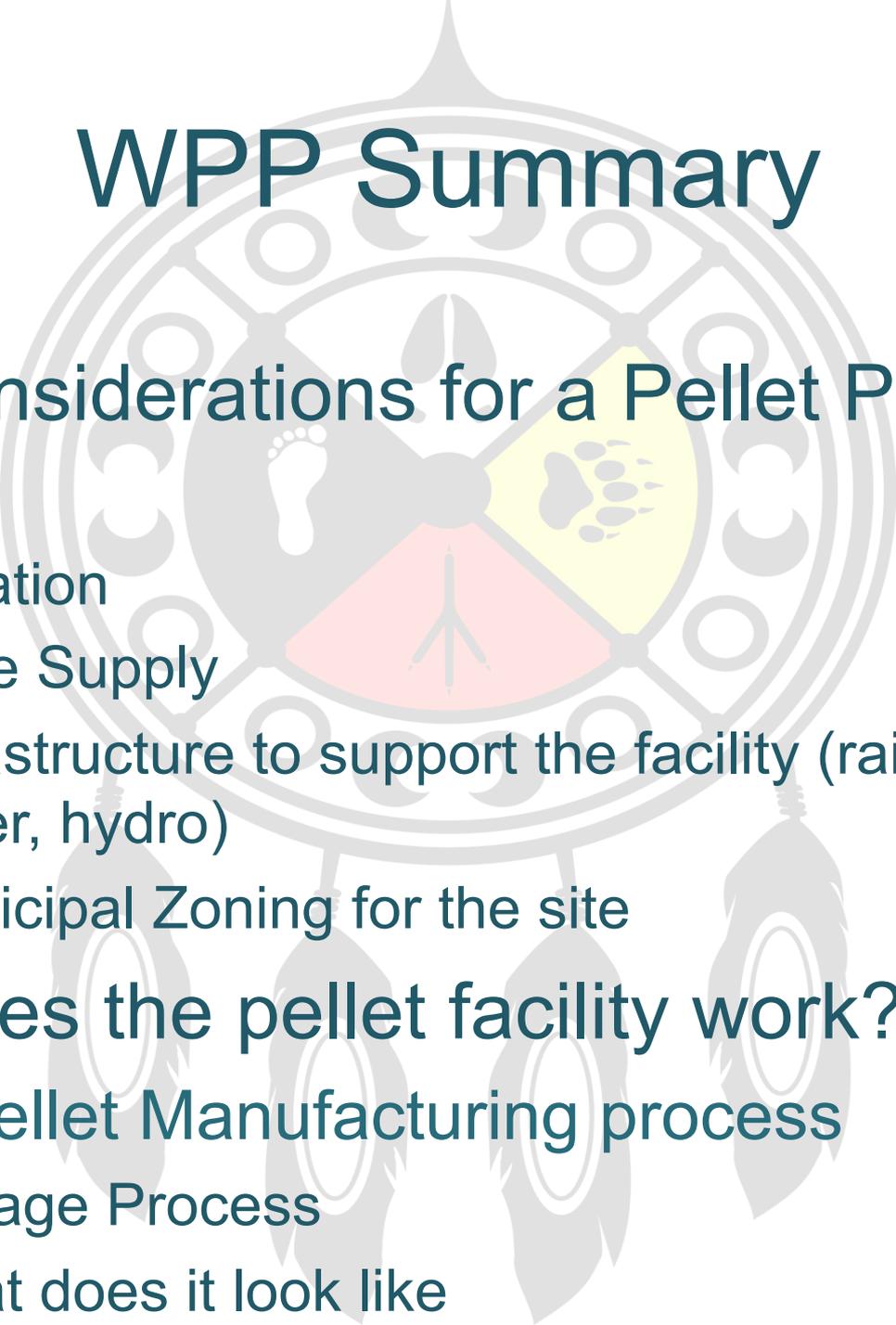




# Wiikwemkoong Pellet Plant in Nairn Centre

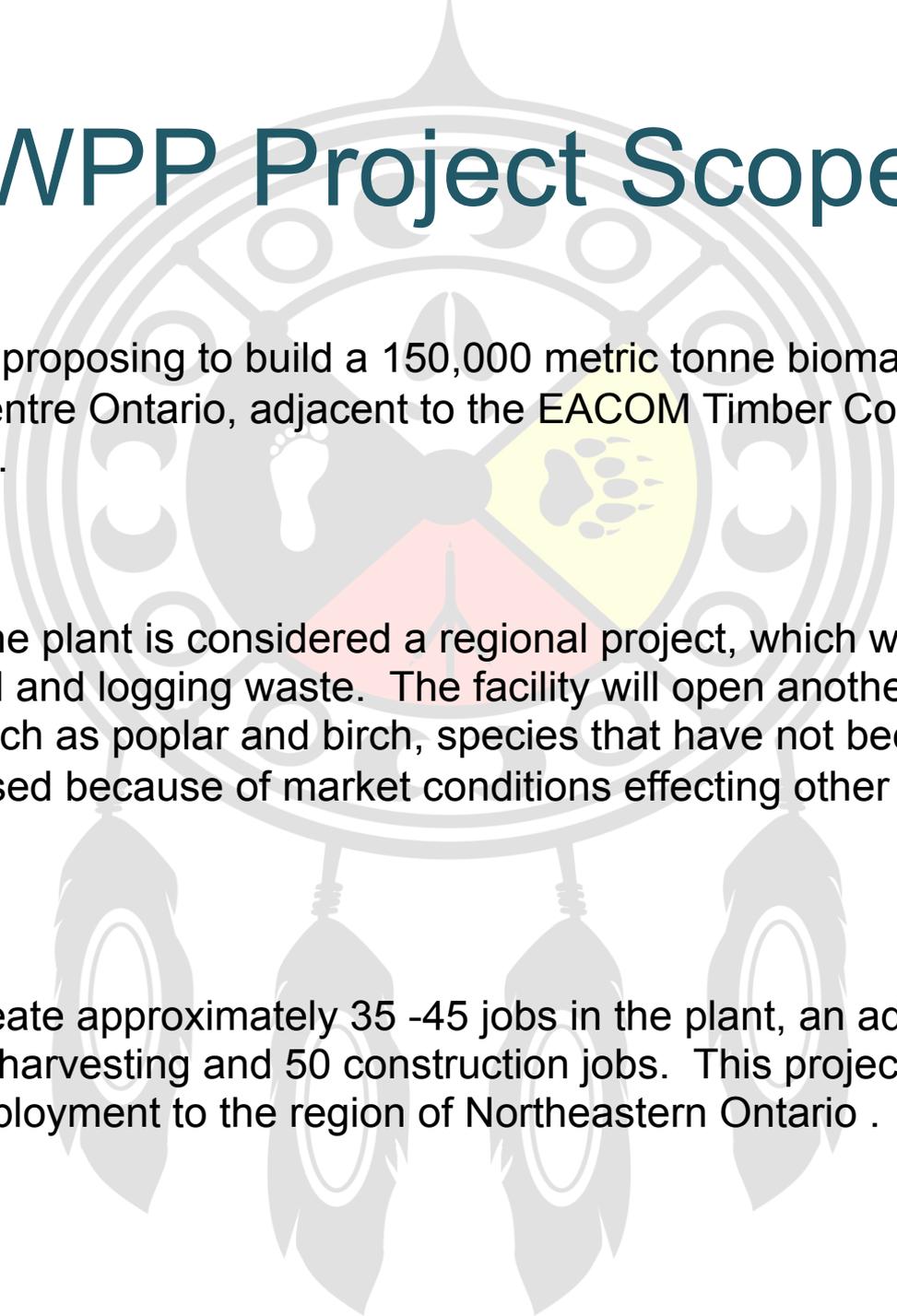
An Economic Venture  
by the Wikwemikong  
Development Commission

# WPP Summary



- Key Considerations for a Pellet Plant Facility
  - Location
  - Fibre Supply
  - Infrastructure to support the facility (rail, road, water, hydro)
  - Municipal Zoning for the site
- How does the pellet facility work?
  - The Pellet Manufacturing process
    - 4 Stage Process
    - What does it look like

# WPP Project Scope



Wiikwemkoong is proposing to build a 150,000 metric tonne biomass pellet plant facility in Nairn Centre Ontario, adjacent to the EACOM Timber Corporation (EACOM) sawmill.

Development of the plant is considered a regional project, which will provide a market for sawmill and logging waste. The facility will open another market for low valued species such as poplar and birch, species that have not been utilized or have been bypassed because of market conditions effecting other users of the forest.

The facility will create approximately 35 -45 jobs in the plant, an additional 100 forest sector jobs harvesting and 50 construction jobs. This project will provide much needed employment to the region of Northeastern Ontario .

# Why Nairn

## 1. *The fibre supply is key.*

- *Nairn Centre is centrally located between 3 SLF's to draw fibre from*
- *Haul distance or distance to deliver fibre supply to facility*

## 2. *The area has the infrastructure nearby, close to rail, deep water port, highway access, power.*

- *All three site here did have access but cost was a constraint at one site*
- *3 deep water ports nearby for delivery by truck or by rail*
- *Highway 17 is close to all three sites in this area for truck access*
- *Major power line nearby that supports an existing sawmill*

## 3. *Ease of ingress and egress*

- *Delivery of fiber*
- *Delivery of product*

## 4. *Support of the Local Municipality and other FNs for Project*

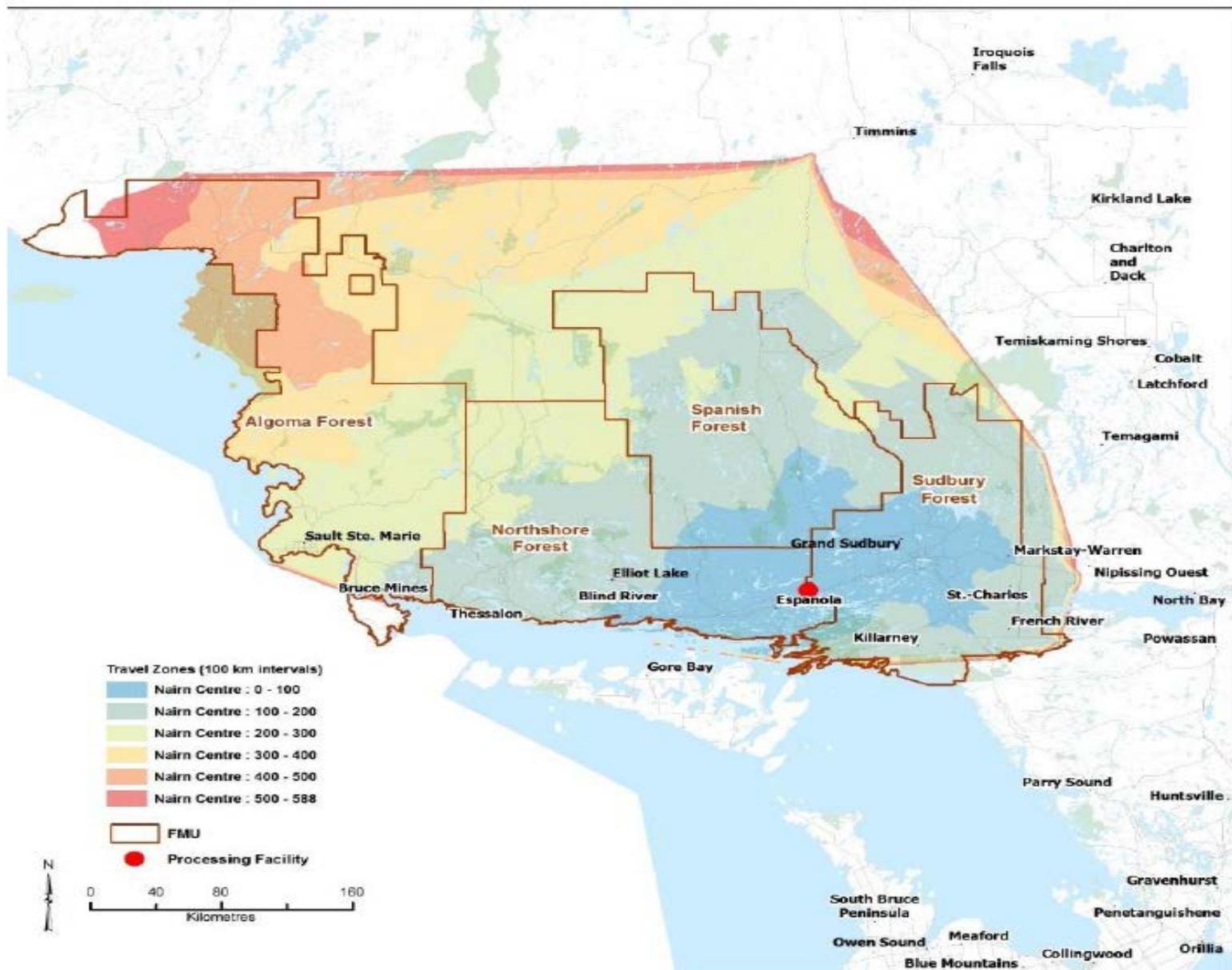
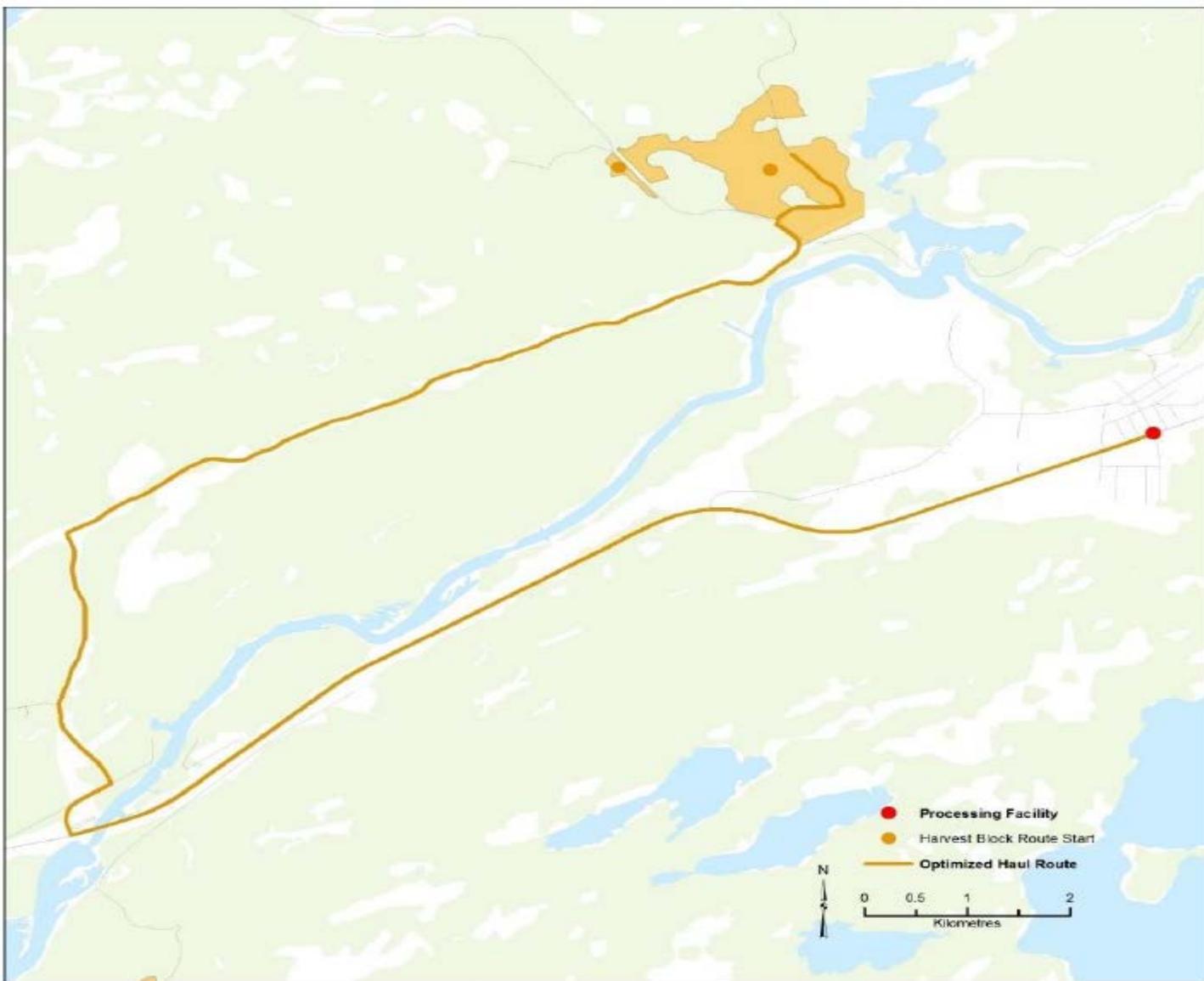


Table 13 provides a breakdown of net merchantable volume (NMV) within each haul zone. Harvest volumes for Po and Bw are predominantly within the 0-100 and 1-200 km haul zones, totaling 74% of the allocated volumes. A similar trend is also apparent with SPF volumes, of which 72% are within the 0-100 and 100-200 km haul zones.



Following the completion of the road network analysis, harvest areas were classified based on one-way haul distance zones consisting of 0-100km, 100-200 km, 200-300 km, 300-400 km and 400-500 km.

Figure 10 provides a geographic representation of each haul zone across all four FMU's. This map clearly shows that the majority of the wood within the economically feasible haul distance (0-200 km) is located within the Sudbury, Spanish and Northshore Forests while the majority of the harvest allocations on the Algoma Forest would be cost prohibitive to access.



# ZONING BY-LAW FOR THE TOWNSHIP OF NAIRN & HYMAN

## SCHEDULE "A2" TO BY-LAW 2013-5



File No. P-2155  
April 2014



**Legend**

**Zones**

**1. Residential Zones**

- General Residential Zone
- Multiple Residential Zone
- Rural Residential Zone

**2. Commercial Zones**

- Highway and Tourist Commercial Zone
- Resort Commercial Zone
- Local Commercial Zone

**3. Industrial Zones**

- Light Industrial Zone
- Medium Industrial Zone
- Rural Industrial Zone
- Mineral Aggregate Resource Zone
- Mining Zone
- Waste Management Facility
- 500 m Influence Area (approximate)

**4. Rural and Environmental Zones**

- Natural Resource (Rural) Zone
- Environmental Protection Zone

**5. Transportation and Infrastructure**

- Provincial Highway
- Township Roads
- Private Roads
- Trail
- Transmission Line
- Rail Line
- Snowmobile Trail
- Municipal Water Main

**6. Other Features**

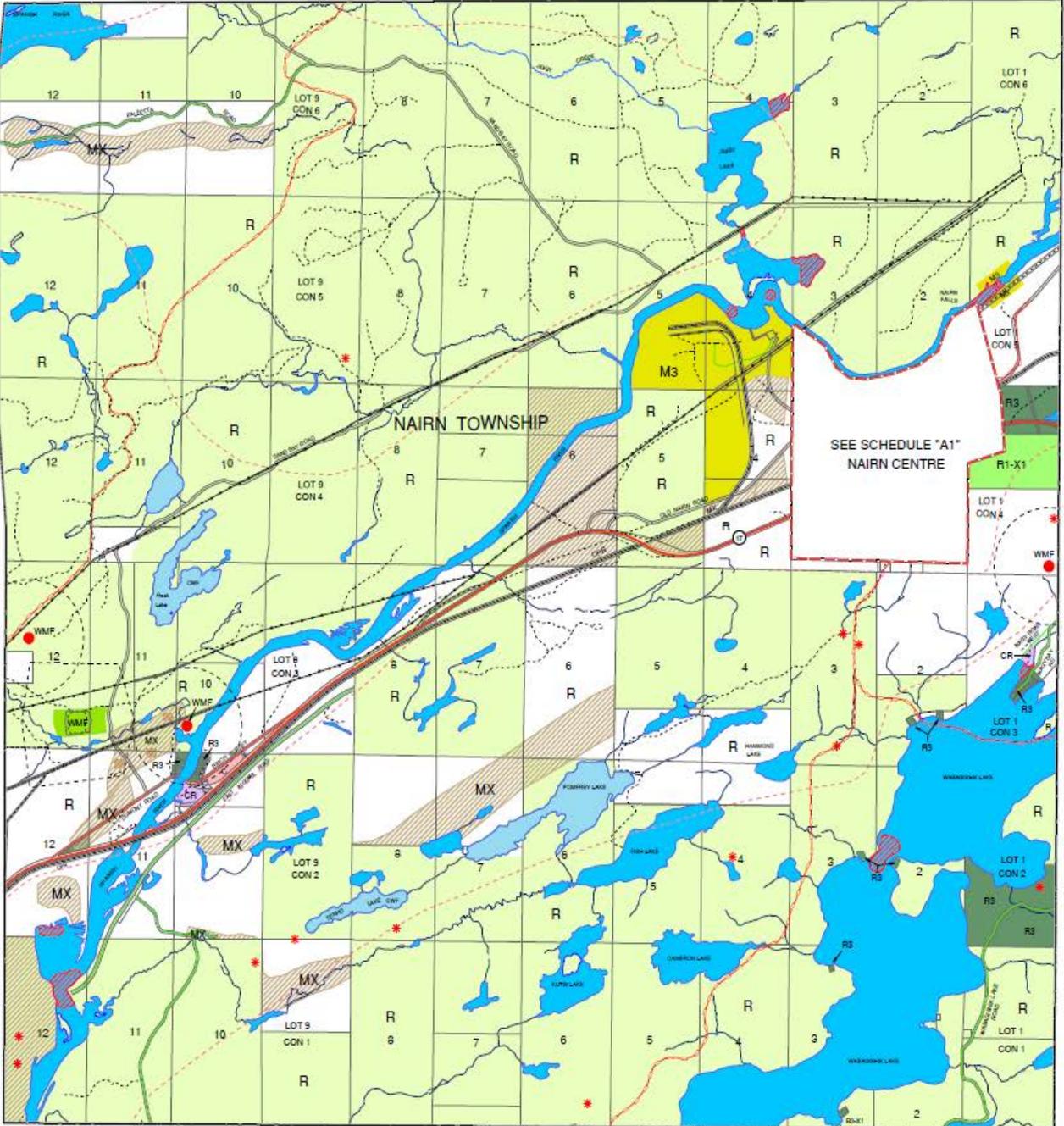
- Urban Retirement Area Inventory
- Township Boundary
- Buildings
- Contaminated Site
- Tailings Management Areas (WMF Zone)
- Heritage Zone
- Mineral Resources Constraint Overlay
- Crown Land
- Mine Hazards
- Baseline Sites
- Cold Water Streams
- Warm Water Streams
- CWF - Cold Water Lakes
- Self-sustaining Lake Trout Lake
- Warm Water lakes

**Notes:**

1. Zones may consist of several features. Features may be distinguished by symbols or hatching and may be one or more colors. The features in each zone are listed under the zone heading.
2. Flood elevations: Flood elevations apply to Agnew Lake. Elevations shall be established by survey for individual properties. For further information, contact the Ministry of Natural Resources office in Espanora or Sudbury.

**Source of Information**

Ontario Geological Survey Map No. 2360  
 Ontario Geological Survey Map No. 5002  
 Ontario Geological Survey Open File Report No. 5484  
 resources (news) in (information system) (mnr)  
 Nairn Water Works Project (Distribution System) Page No. 102



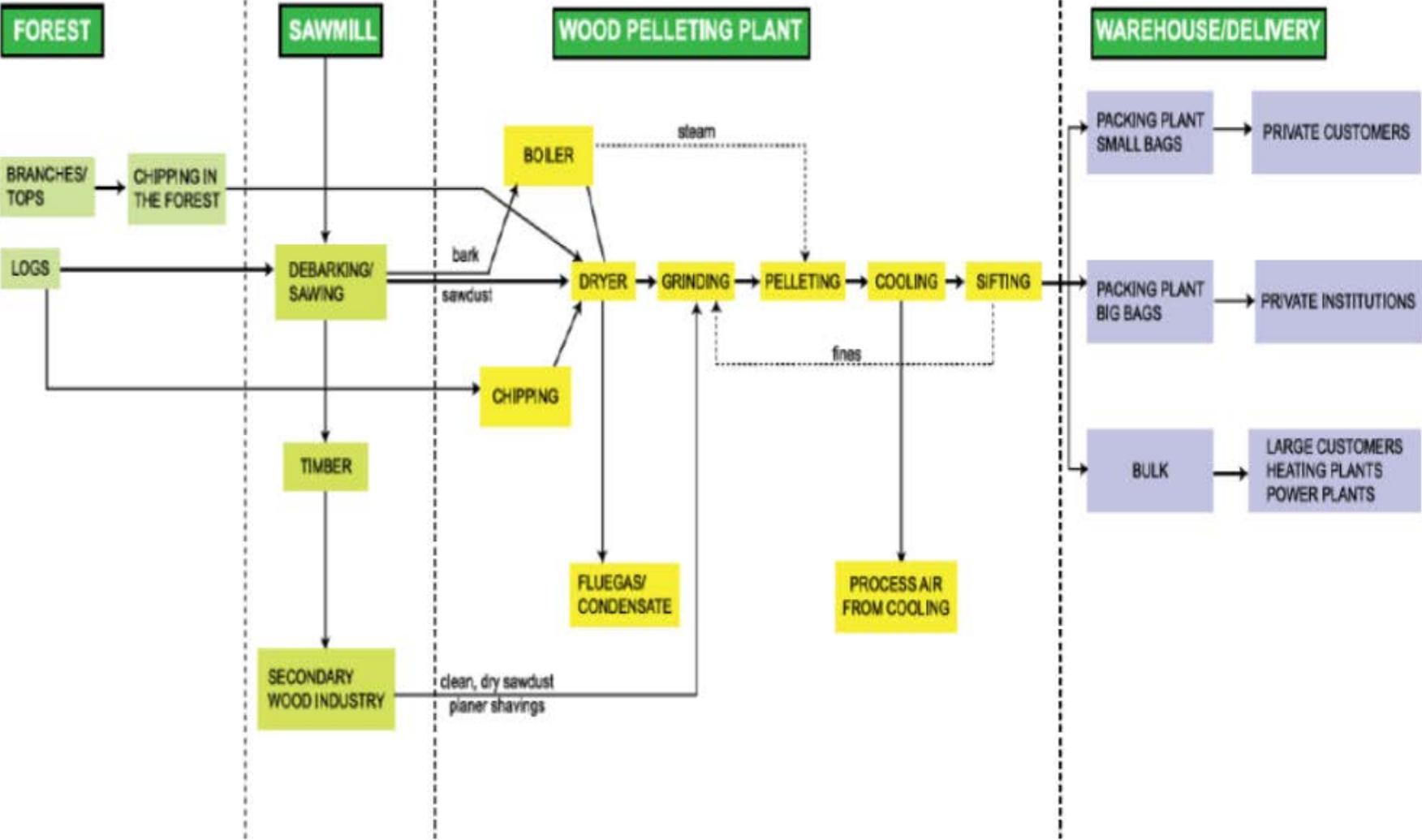
BALDWIN TOWNSHIP

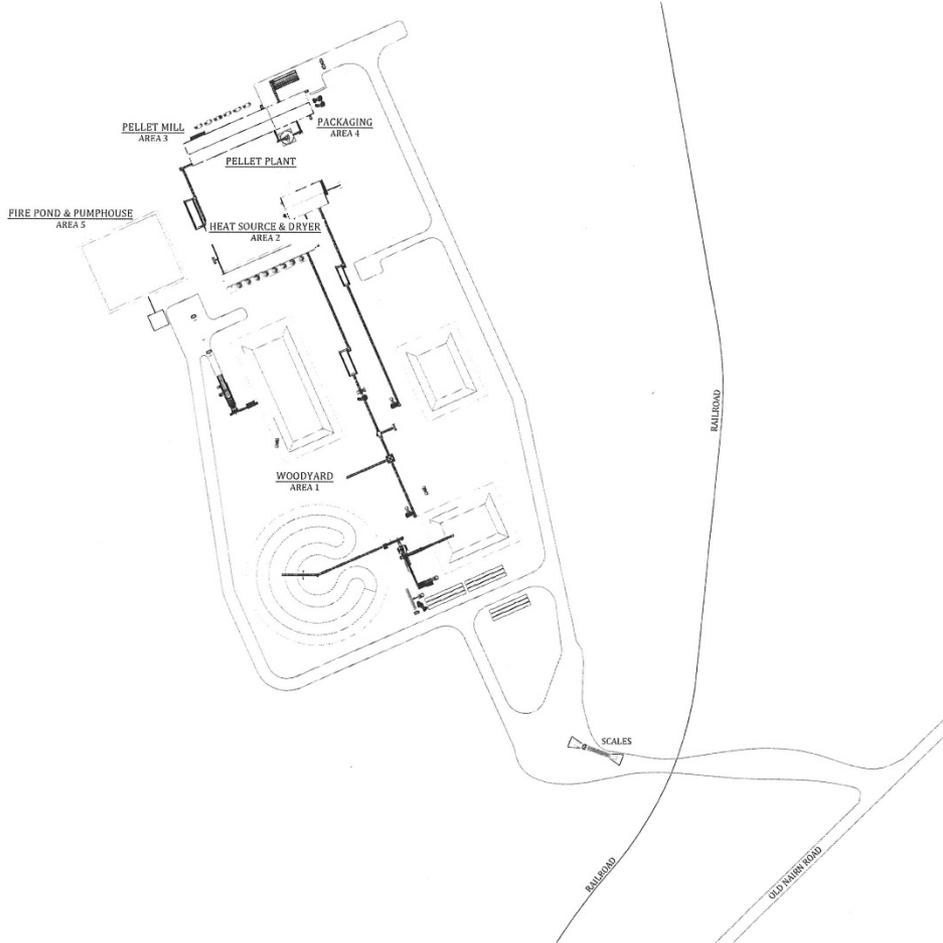
LORNE TOWNSHIP

# How does the Pellet Facility work?

- What does it look like
  - Overview of site and how it works
    - The “Wood Yard”
      - Fibre Delivery over scales
      - Either Round Wood or Mill Co-Products (Green Chips, Sawdust, Planner Shavings, Bark)
      - Separated to Radial Chip Pile or Sawdust Pile and Raw Fuel Storage or Bark/Hog Fuel
    - The “Drying Process” for Biomass
      - Moisture has to be removed from fibre before making pellets
      - Once dried on belt dryer it is ready to be for the Hammer Mills and Pellet Mills
    - The “Hammer Mill and Pellet Mill Process”
      - Dry Biomass is pulverized in the Hammer Mills to be sent to pellet mill.
      - The pulverized fibre is bonded together in the pelleting process to make wood pellets.
    - The “Packaging Process”
      - Depending on market the pellets will either be:
        - » Bagged for domestic or foreign markets
        - » Put in large steel containers for the foreign market
        - » Put in large bags for the foreign market
        - » Put on a train for the foreign market
        - » Loaded into delivery truck for the domestic market for homes or domestic industrial markets

# Pellet Manufacturing Process





- NOTES:**
1. DO NOT SCALE DRAWINGS.
  2. ALL DIMENSIONS ARE IN FEET-INCHES UNLESS NOTED OTHERWISE.

SITE PLAN - WIKWEMIKONG PELLETT PLANT  
SCALE: NTS

DWG SHEETS DRAWN CHECKED APPROVED	SCALE NTS DATE DATE DATE	DRAWING TITLE GREAT NORTH BIO ENERGY WIKWEMIKONG INDUSTRIAL PELLETT PLANT GENERAL ARRANGMENT	REV A
18.09.10 C. HULLS 18.09.10 F. TIAN 18.09.10 K. KOZAR 18.09.10		1811201-G1901	

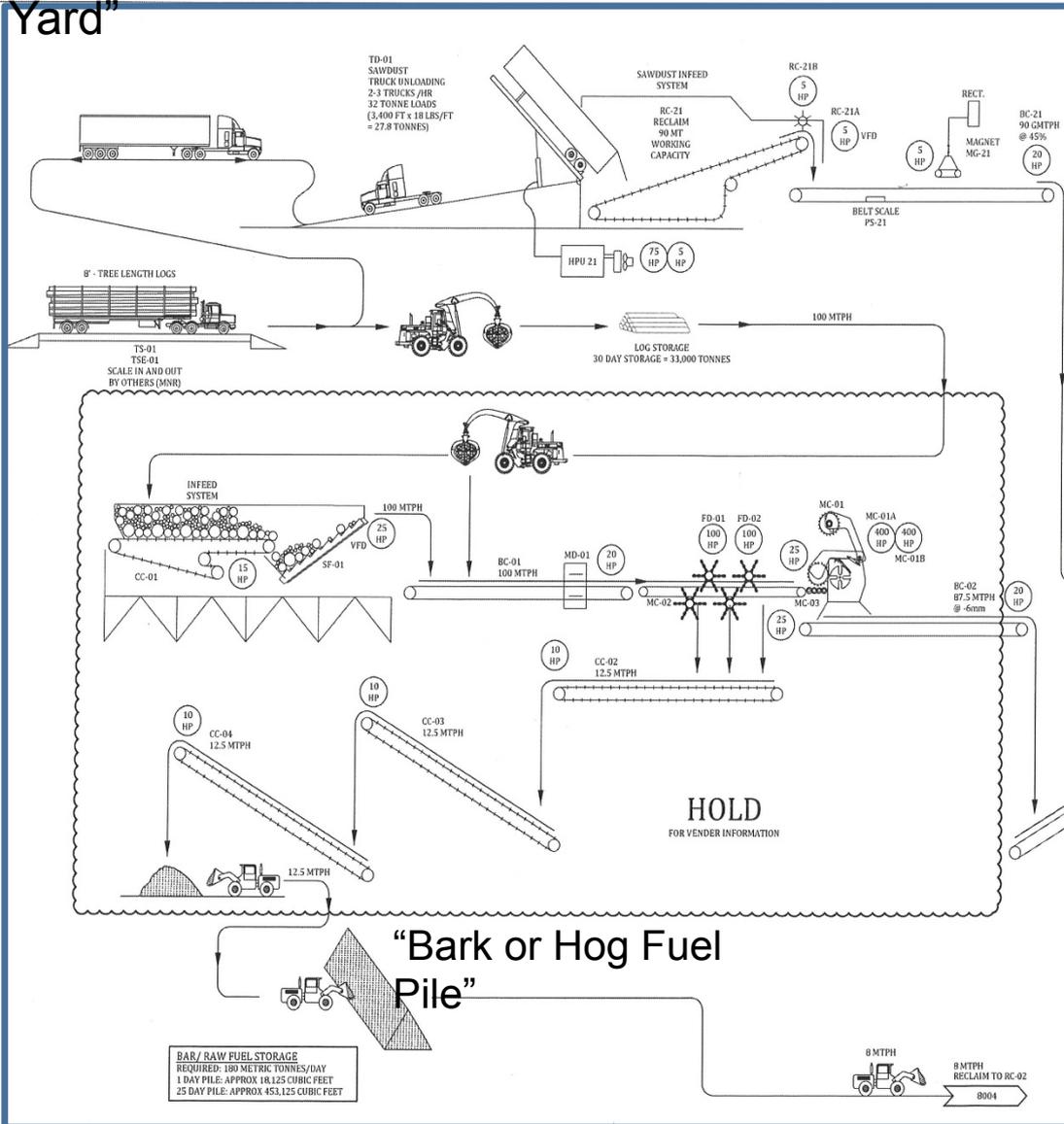
STAMP  
**PRELIMINARY DRAWING**  
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DOCUMENT NUMBER	REFERENCE DESCRIPTION	REV	DATE	PRELIMINARY	REVISION DESCRIPTION	CH	CH	FT	KK
		A	18.09.10	PRELIMINARY		CH	CH	FT	KK

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# The "Wood Yard"



**NOTES:**  
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**BIOMASS BULK DENSITY ASSUMPTIONS:**

**GREEN CHIPS**  
FOR STORAGE :22 LBS/FT<sup>3</sup>  
FOR CONVEYOR HP :28 LBS/FT<sup>3</sup>  
FOR CONVEYOR SIZING :22 LBS/FT<sup>3</sup>

**SAWDUST**  
FOR STORAGE :18 LBS/FT<sup>3</sup>  
FOR CONVEYOR HP :28 LBS/FT<sup>3</sup>  
FOR CONVEYOR SIZING :18 LBS/FT<sup>3</sup>

**DRY RESIZED**  
FOR STORAGE :10 LBS/FT<sup>3</sup>  
FOR CONVEYOR HP :15 LBS/FT<sup>3</sup>  
FOR CONVEYOR SIZING :10 LBS/FT<sup>3</sup>

**PELLETS**  
FOR STORAGE :40 LBS/FT<sup>3</sup>  
FOR CONVEYOR HP :50 LBS/FT<sup>3</sup>  
FOR CONVEYOR SIZING :40 LBS/FT<sup>3</sup>

**OPERATING PARAMETERS**

**TOTAL OPERATION FEED STOCK:**  
TOTAL 333,000 METRIC TONNES PER YEAR (BARK ON)  
MOISTURE CONTENT FOR DESIGN = 50%  
BARK CONTENT FOR DESIGN: RANGE 5%-15%

**PELLET PLANT FEED STOCK:**  
300,000 MTPY FEED STOCK @ 50% MOISTURE  
WOODYARD OPERATION MATERIAL PROCESSING - 4.296 HRS/YEAR  
(358 DAYS/YEAR @ 12 HRS/DAY)

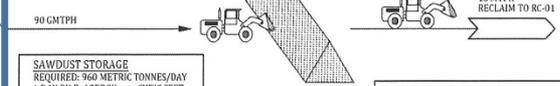
**LOGS:**  
AVERAGE LENGTH: 8'-0" AVERAGE DIAMETER: 10"-12"  
MINIMUM LENGTH: 7'-6" MINIMUM DIAMETER: 6"  
MAXIMUM LENGTH: TREE LENGTH MAXIMUM DIAMETER: 22"

**SAWDUST:**  
90,000 GMTPY @ 50% MOISTURE CONTENT  
SIZE DISTRIBUTION \_\_\_ %

**PELLET PLANT OPERATION:**  
PELLETS: 150,000 METRIC TONNES PER YEAR  
DESIGN: 20 TONNES PER HOUR @ 5-8% MOISTURE CONTENT  
PLANT OPERATION PELLET PLANT PRODUCTION - 8,591 HRS/YEAR  
(358 DAYS/YEAR @ 24 HRS/DAY, 3 - 8 HR. SHIFTS)

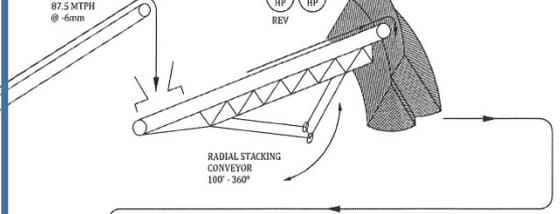
**S.D. = SPARK DETECTION**

## "Sawdust Pile"



**SAWDUST STORAGE**  
REQUIRED: 960 METRIC TONNES/DAY  
1 DAY PILE: APPROX. CUBIC FEET  
25 DAY PILE: APPROX. CUBIC FEET

## "Green Chip Pile"



**GREEN CHIP STORAGE**  
REQUIRED: 875 METRIC TONNES/DAY  
1 DAY PILE: APPROX 87,500 CUBIC FEET  
6 DAY PILE: APPROX 525,000 CUBIC FEET

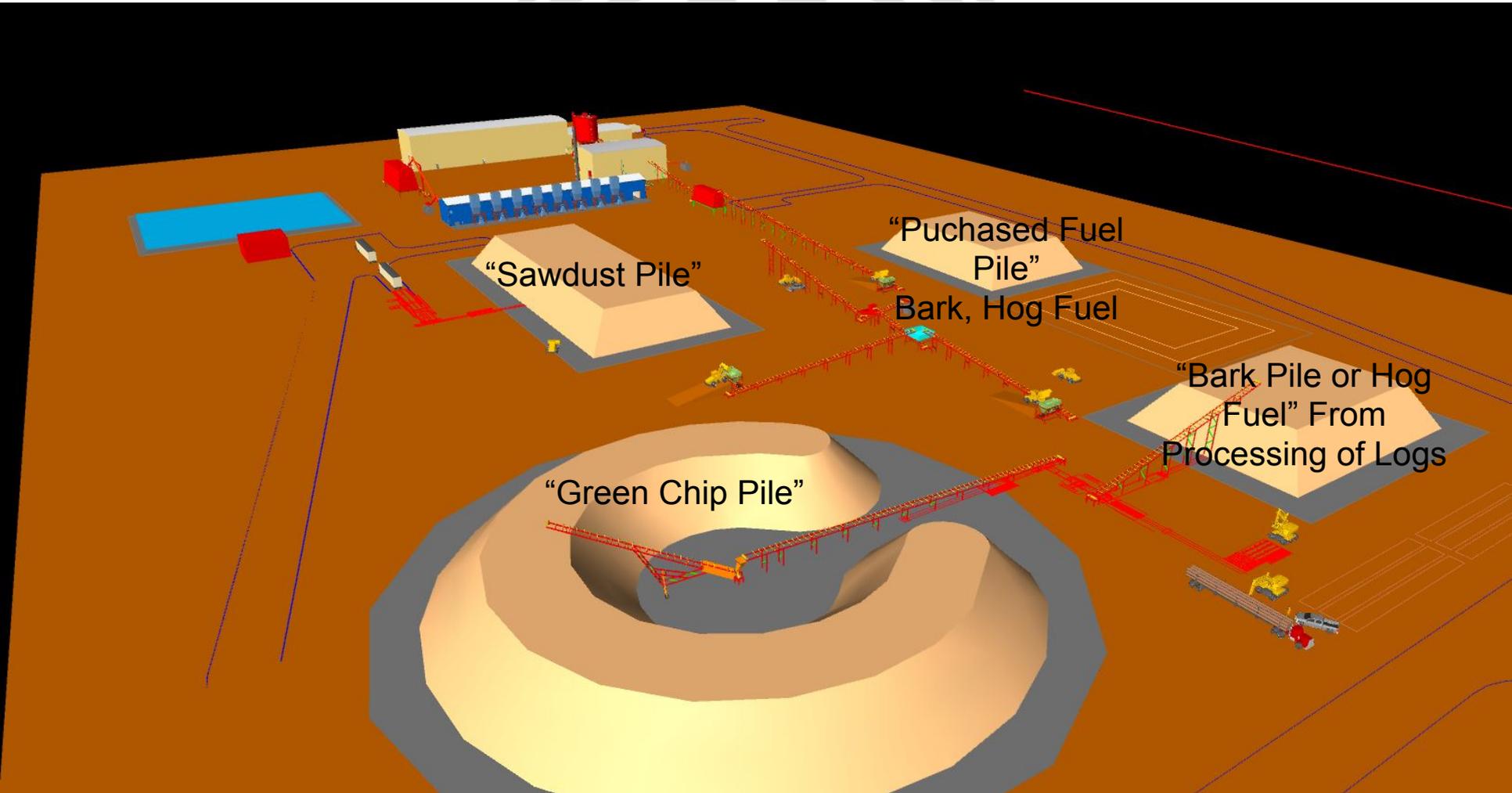
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DESIGNED	C. HULLS	DATE	18.08.13
DESIGNED	C. HULLS	DATE	18.08.13
CHECKED	F. TIAN	DATE	18.08.13
APPROVED	K. KOZAR	DATE	18.08.13
ED DWG No.	1811201-M8000		
REV	A		

**WIKWEMIKONG DC INDUSTRIAL PELLET PLANT WOODYARD PROCESS FLOW DIAGRAM**

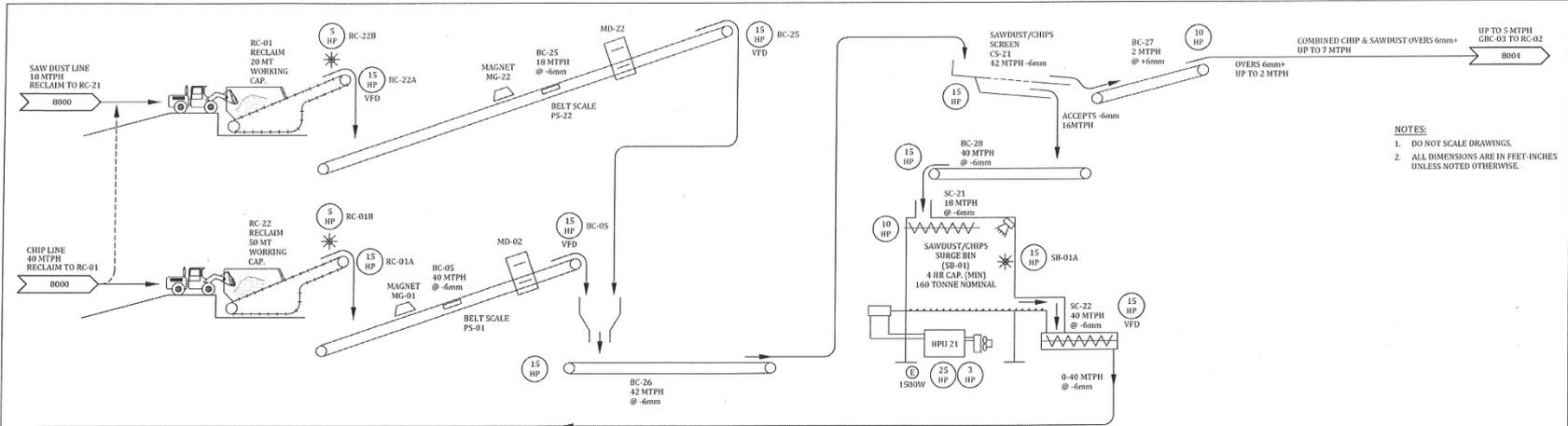


"Sawdust Pile"

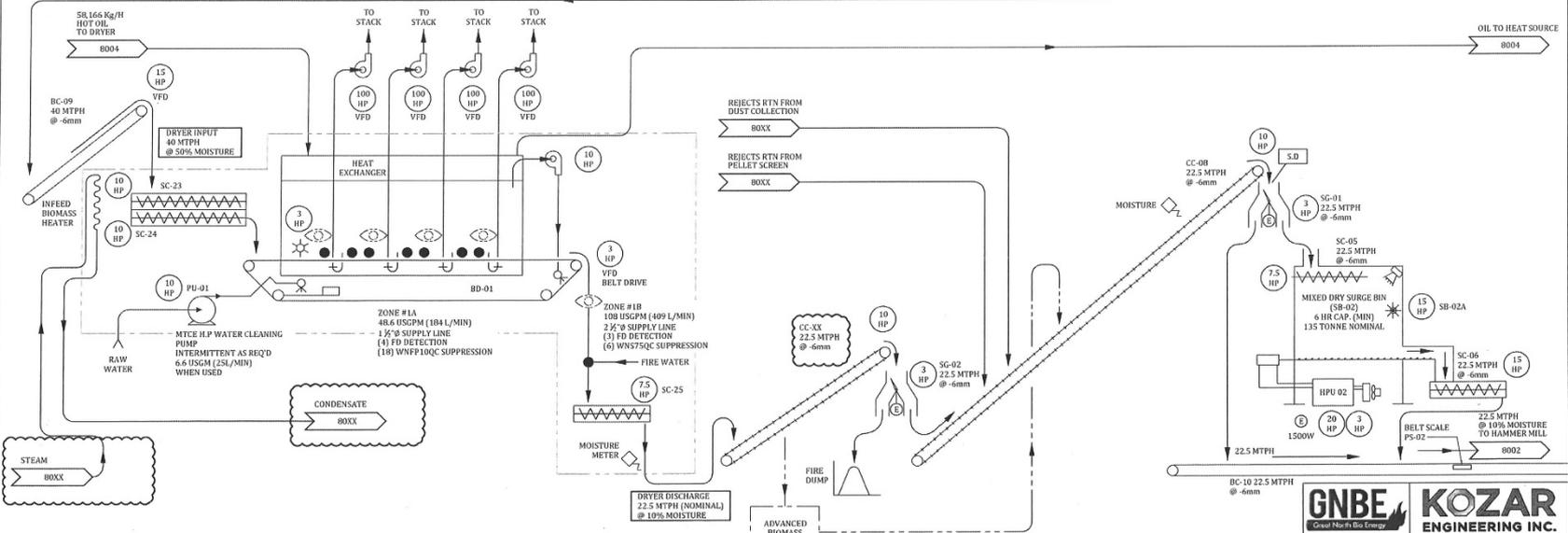
"Purchased Fuel Pile"  
Bark, Hog Fuel

"Bark Pile or Hog Fuel" From  
Processing of Logs

"Green Chip Pile"



**NOTES:**  
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**GNBE**  
 Good North Bio Energy

**KOZAR ENGINEERING INC.**

PROJECT TITLE: WIKWEMIKONG DC INDUSTRIAL PELLET PLANT PELLET DRYER PROCESS FLOW DIAGRAM

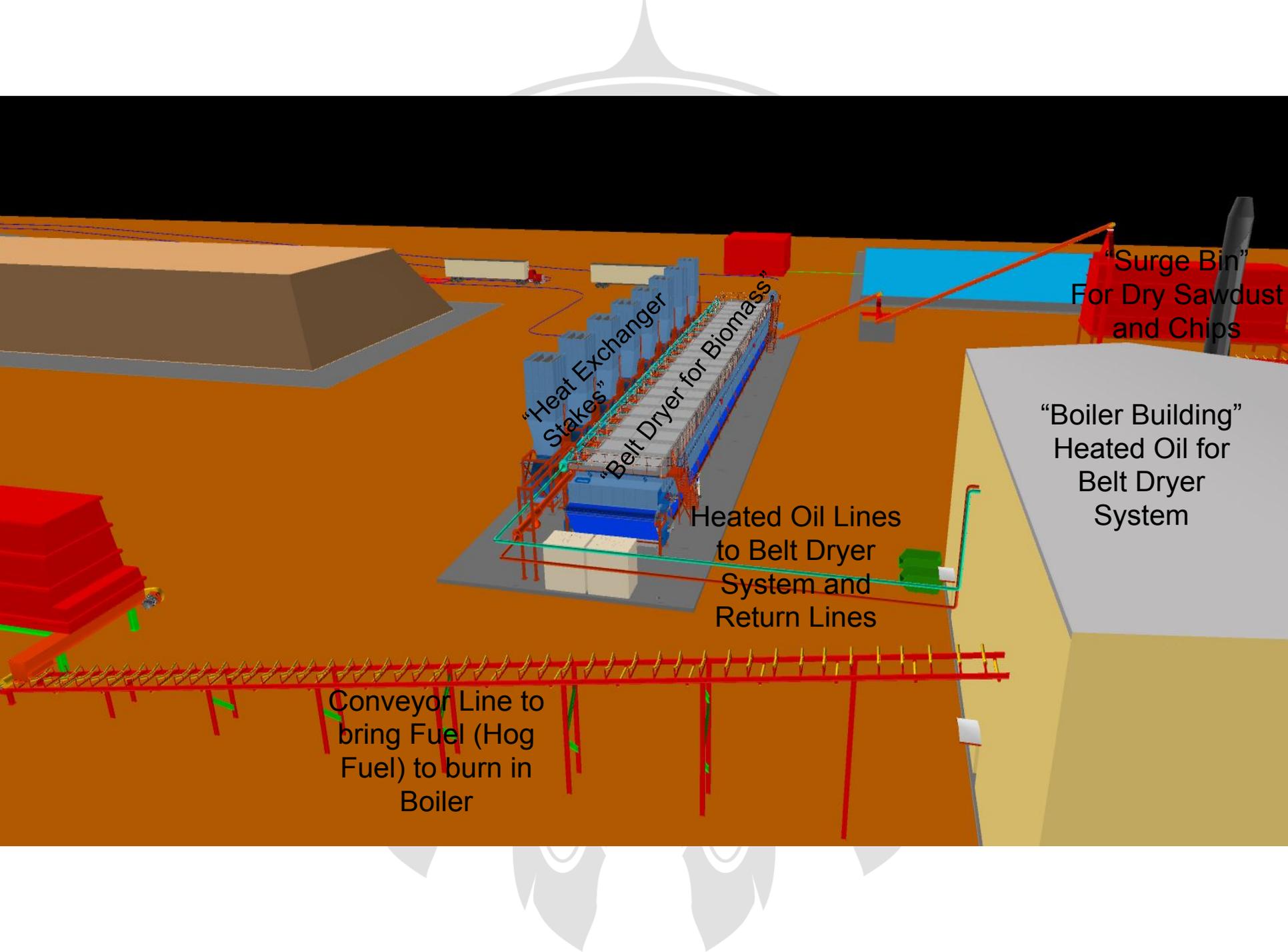
DESIGNED BY: C. HULLS	DATE: 18.08.13
CHECKED BY: F. TAN	DATE: 18.08.13
APPROVED BY: K. KOZAR	DATE: 18.08.13

PROJECT NUMBER: 1811201-M8001

SCALE: 1" = 10'

DATE: 18.08.13

BY: A



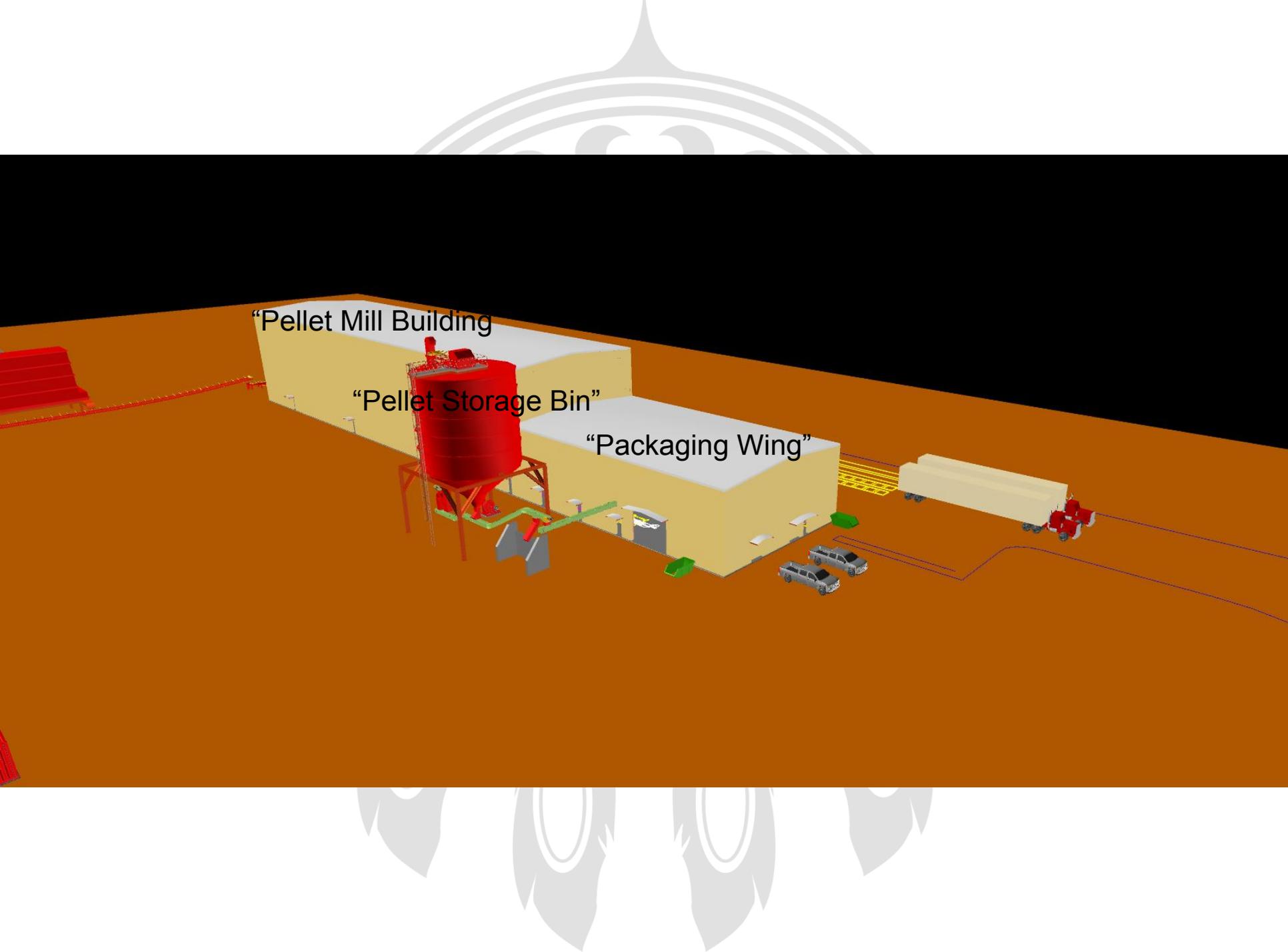
"Surge Bin"  
For Dry Sawdust  
and Chips

"Heat Exchanger  
Stakes"  
"Belt Dryer for Biomass"

Heated Oil Lines  
to Belt Dryer  
System and  
Return Lines

"Boiler Building"  
Heated Oil for  
Belt Dryer  
System

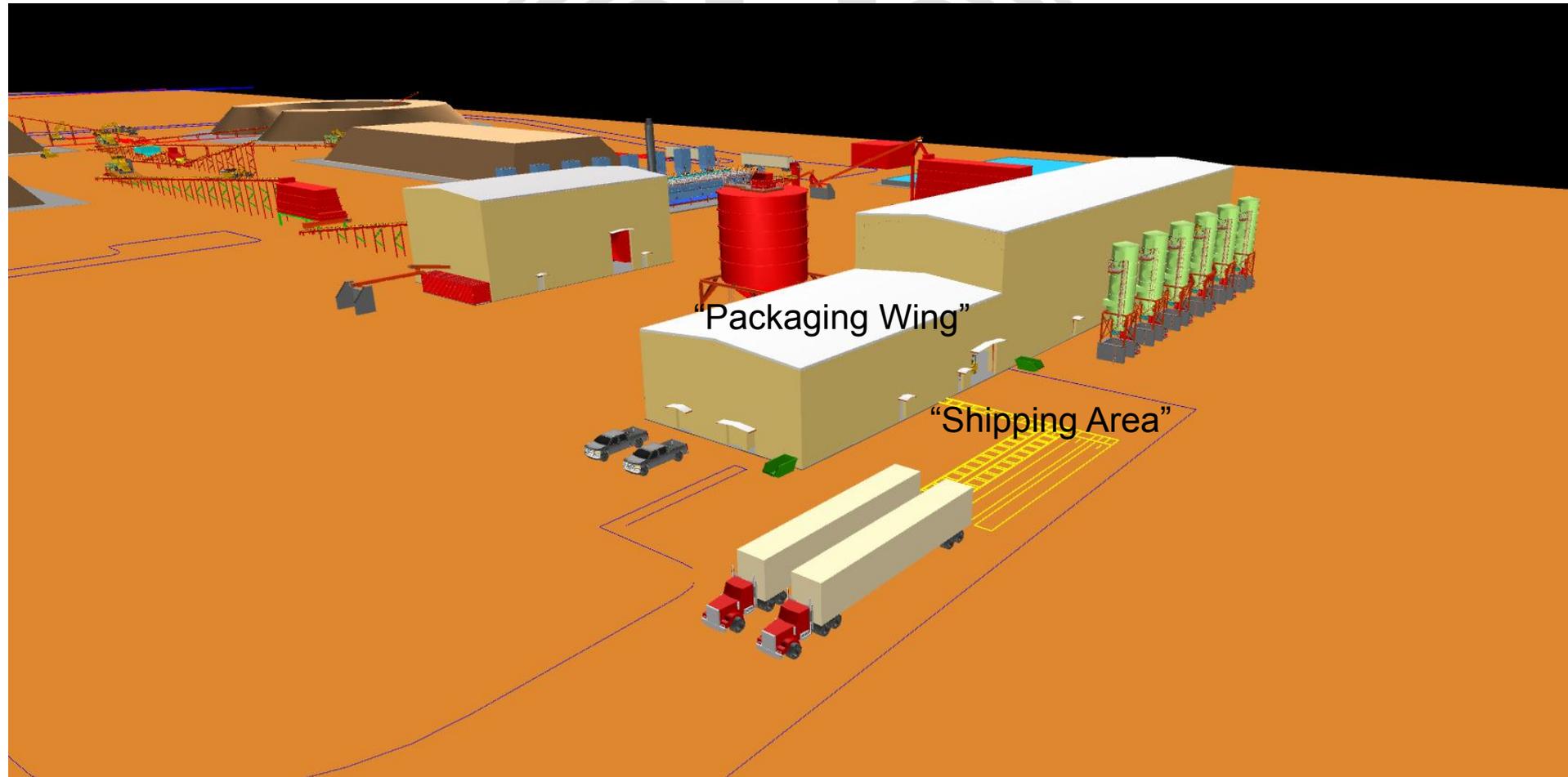
Conveyor Line to  
bring Fuel (Hog  
Fuel) to burn in  
Boiler



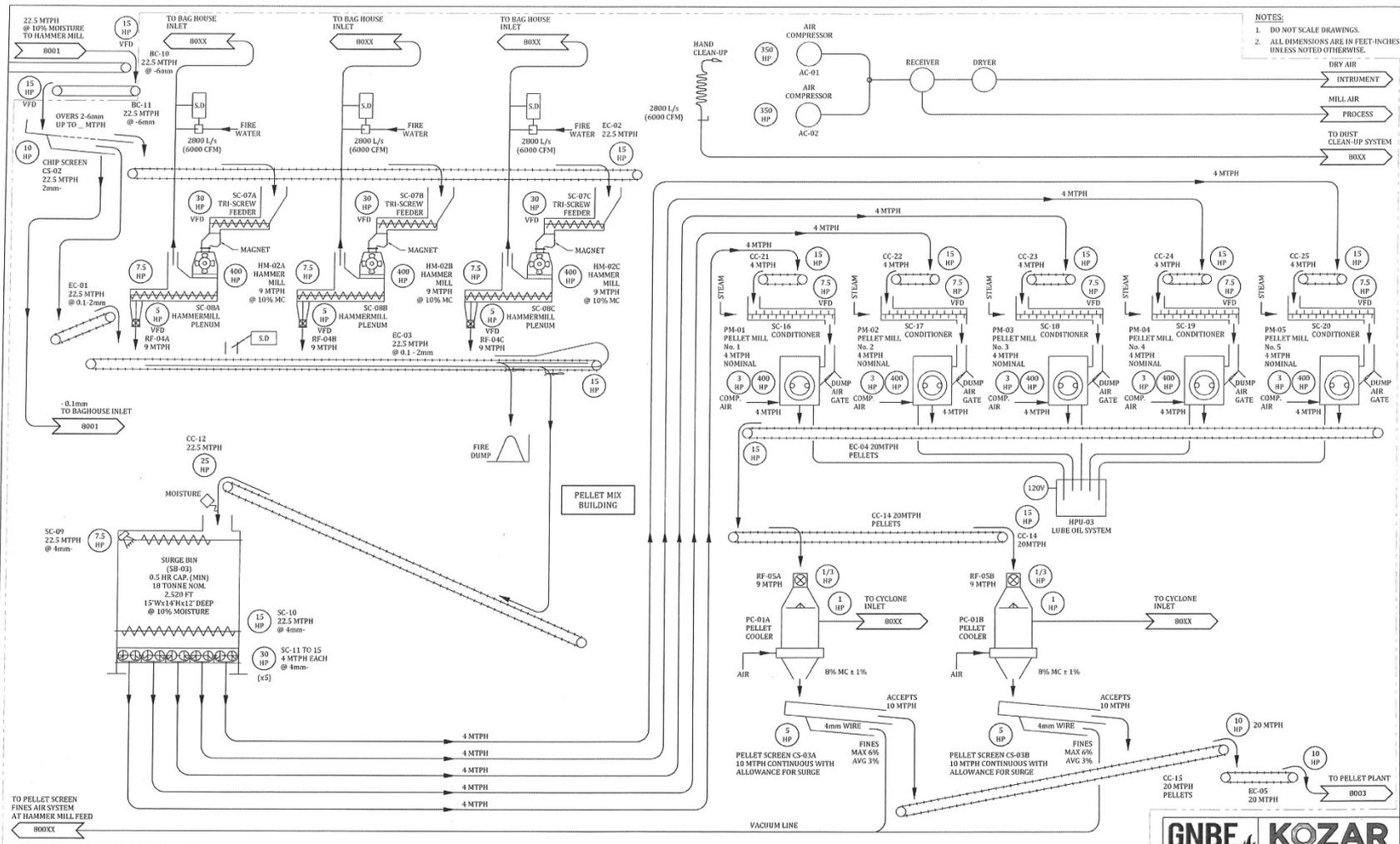
"Pellet Mill Building"

"Pellet Storage Bin"

"Packaging Wing"



- NOTES:**
- DO NOT SCALE DRAWINGS.
  - ALL DIMENSIONS ARE IN FEET-INCHES UNLESS NOTED OTHERWISE.



NO.	REV	DATE	DESCRIPTION	BY	CHKD	APPV
A	18.09.07		PRELIMINARY			

PRELIMINARY DRAWING  
NOT TO BE USED FOR CONSTRUCTION



**GNBE**  
Great North Bay Energy

**KOZAR**  
ENGINEERING INC.

PROJECT TITLE: WIKWEMIKONG DC INDUSTRIAL PELLET PLANT PELLET MILL PROCESS FLOW DIAGRAM

DATE: 18.08.13

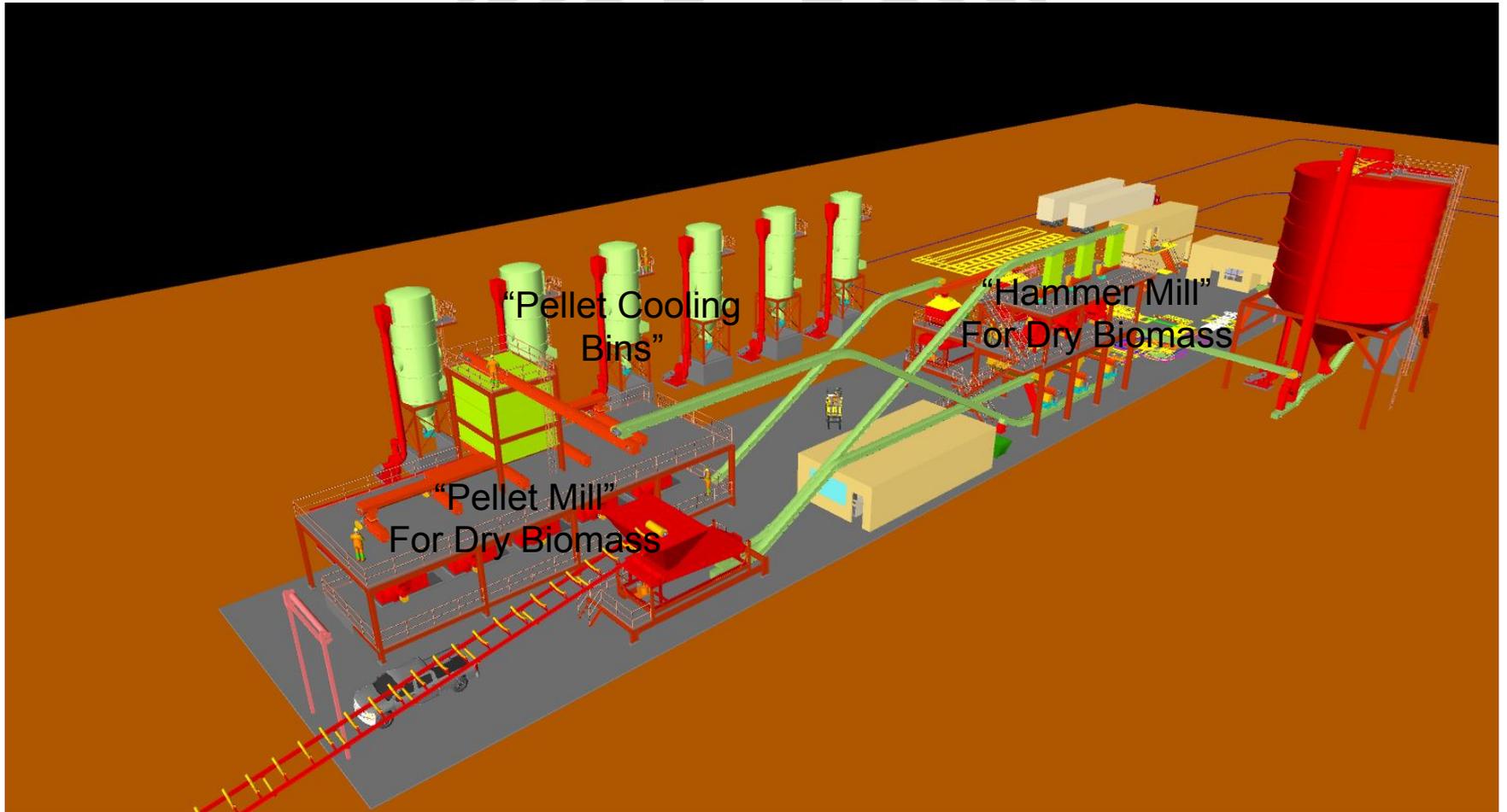
SCALE: AS SHOWN

APPROVED BY: K. KOZAR

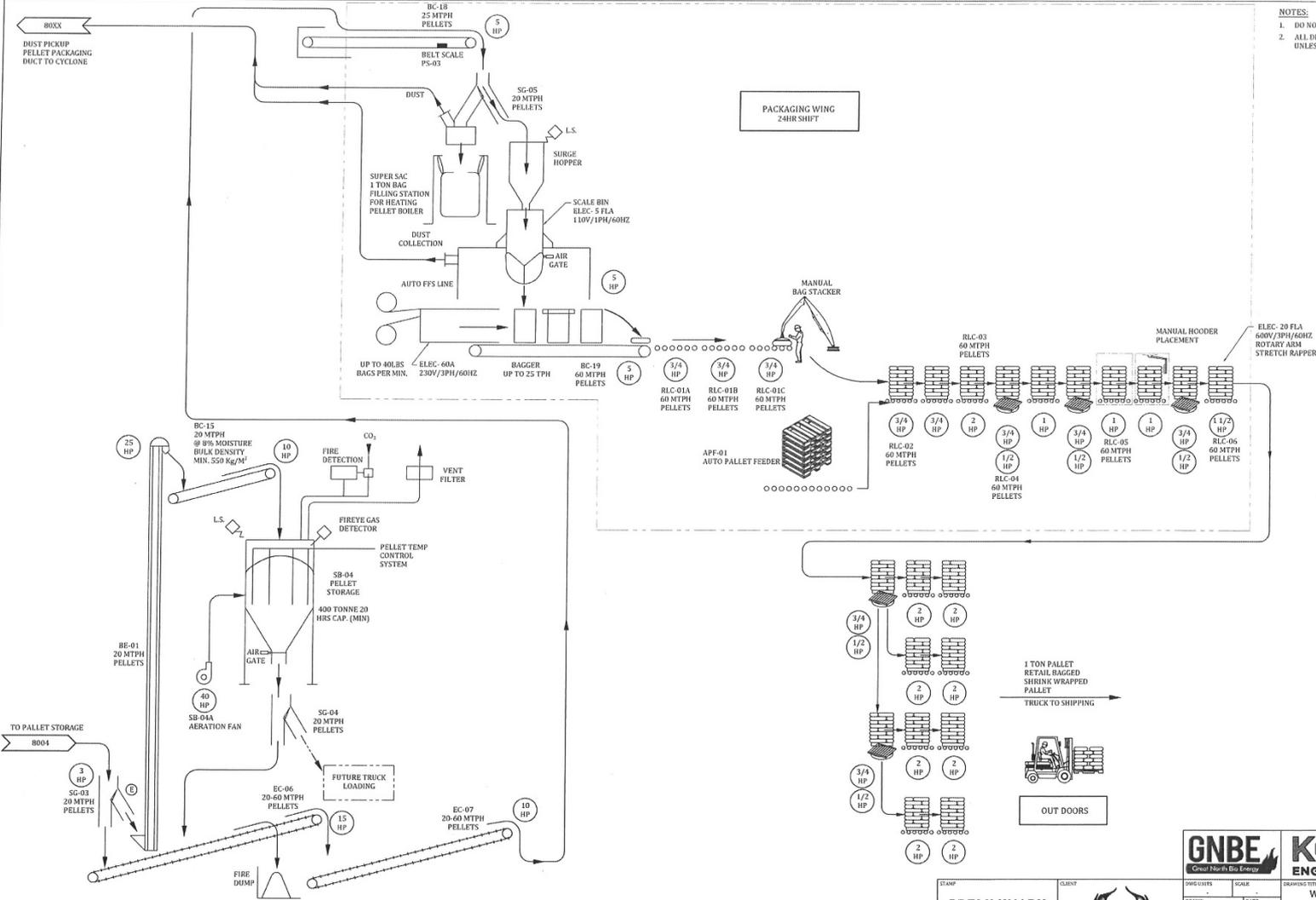
PROJECT NO: 1811201-M8002

DATE: 18.08.13

SCALE: 1/8" = 1'-0"



- NOTES:**
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**GNBE**  
Great North Co. Energy

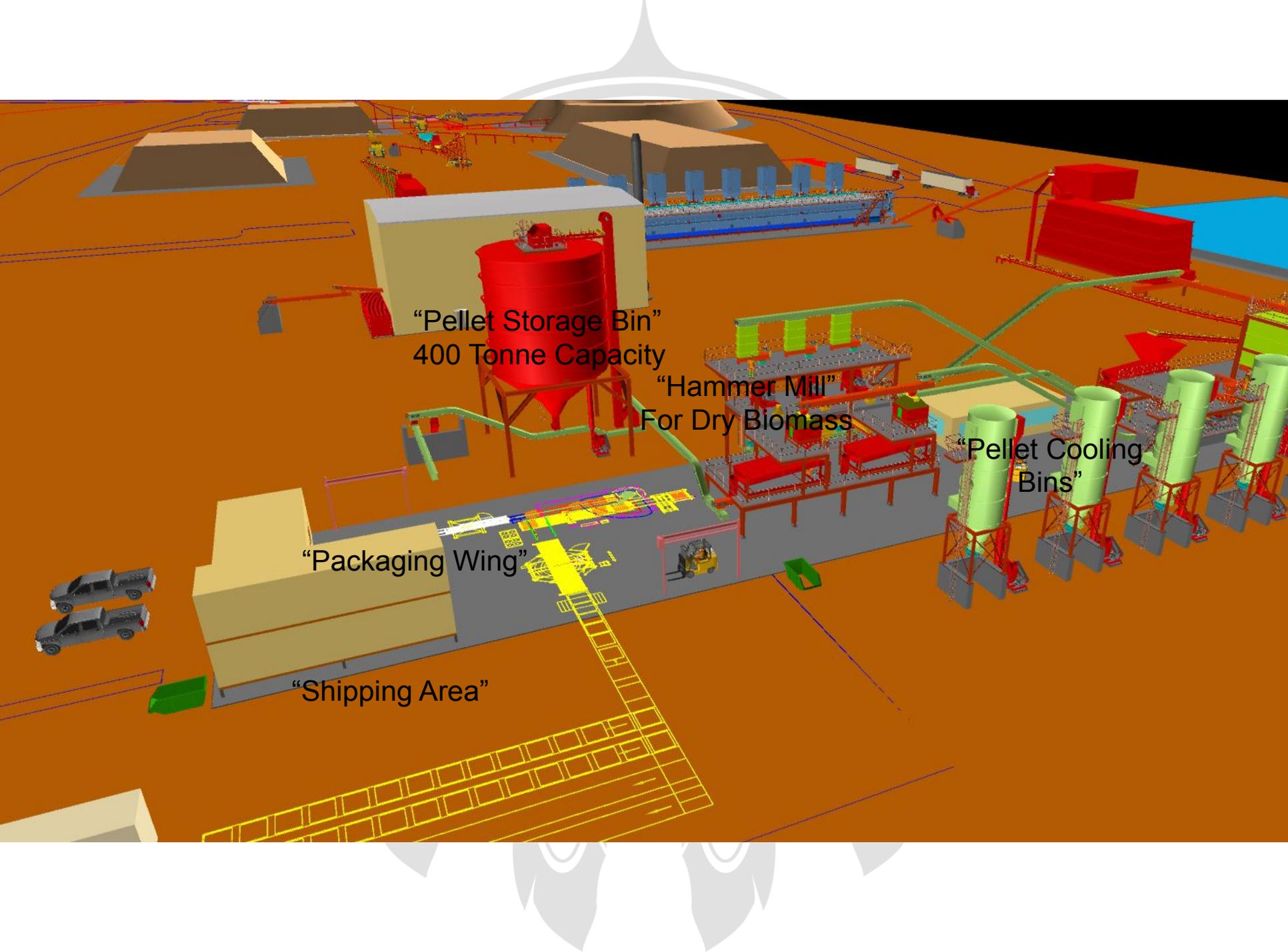
**KOZAR**  
ENGINEERING INC.

DESIGNED BY C. HULLS	SCALE	DRAWING TITLE WIKWIKONG DC INDUSTRIAL PELLET PLANT PACKAGING LINE
CHECKED BY C. HULLS	DATE 18.09.13	PROJECT NO. 1811201-M8003
APPROVED BY K. KOZAR	DATE 18.09.13	REV. A



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		A	18.09.07	PRELIMINARY		CH	CH	FT	KK



“Pellet Storage Bin”  
400 Tonne Capacity

“Hammer Mill”  
For Dry Biomass

“Pellet Cooling  
Bins”

“Packaging Wing”

“Shipping Area”

# Project Achievements and Related Studies

## **1. Technical Consulting Report OWPMI-DTS-51: Completed December 2013**

FP Innovations completed a study (funded by FedNor, the Ministry of Natural Resources of Ontario and the Value to Wood Program, through Canada's Economic Action Plan) to identify surplus wood waste in the Sault Ste Marie area following the closure of St Mary's Paper.

The report, based on information available in August 2013, estimated that wood waste available in the Sault Ste. Marie area from three industrial sources, made up primarily of waste pallets, crates and dunnage, totaled approximately 2000 to 2500 tonnes/ year, along with an additional 1500 to 2000 tonnes / year of tree trimmings and other wood waste that was being landfilled from households.

These findings supported the development of a small pellet or biomass plant in the Sault Ste Marie area to make use of the amalgamated volumes.

## **2. Biomass Supply and Moisture Content of Boreal and Great Lakes – St. Lawrence Tree Species for Wikwemikong First Nation: Completed August 2014**

FP Innovations completed a study (funded by FedNor, the Ministry of Natural Resources of Ontario and the Value to Wood Program, through Canada's Economic Action Plan) "to identify information on potential biomass resources available in all or parts of the Sudbury, Nipissing, Spanish, North Shore and French-Severn Forest Management Units and indicate the typical green moisture content of Boreal and Great Lakes-St. Lawrence tree species as well as seasonal variations in the moisture content of chip piles."

The report identified merchantable and unmerchantable wood supply available in the region (as at June 2014) through the Ontario Wood Report, made recommendations on ideal storage of chips, provided green moisture contents of wood species in the region, and identified additional resources relevant to the project.

## **3. A Feasibility Analysis for A New Pellet Manufacturing Facility in Nairn Center, Ontario: Completed October 2015**

The Ministry of Natural Resources and Forestry commissioned "A Feasibility Analysis for A New Pellet Manufacturing Facility in Nairn Center, Ontario" (updated in October 2015), which was produced by FutureMetrics, LLC.

This study was the first stage in the development of a pellet production plant in the Nairn Centre area, to determine if the concept had the potential to generate a return on investment sufficient to warrant further development.

The study identified a reasonable probability of generating cash flows sufficient to merit further investment.

#### **4. A Market Study for Determining Potential Distribution Channels for Wood Pellets Produced at a New Pellet Mill in Nairn Centre, Ontario: Completed January 2016**

Wikwemikong Development Commission commissioned a market study, which was produced by FutureMetrics, LLC in January 2016, to identify potential markets for up to 150,000 short tons per year of wood pellets produced in Nairn Centre. This study focused on wood pellet markets in Michigan and detailed the ability of the Nairn Centre project to sell into the Michigan markets. The study also looks briefly at the potential for developing a regional market via relationships with other First Nations communities. This study determined that the Nairn Centre project can competitively sell its pellets into the Michigan bagged pellet markets—which is currently underserved by Michigan pellet mills and Michigan already imports pellets from other states. The study also recommended the potential for an industrial wood pellet market in Michigan based on the US Clean Power Plan.

#### **5. Preliminary Site Evaluation Study and Constraints Analysis: Completed August 2016**

Site feasibility, including a Site Review, Site Evaluation and Fibre Supply Analysis, was conducted in 2016 by Great North Bio Energy (GNBE) to evaluate four potential site locations for the location of the proposed pellet plant. These sites were reviewed for existing site conditions and infrastructure, and to identify potential site development opportunities and environmental constraints. The study indicated that the 25-hectare property (part of Lot 4 Concession 4 in the Township of Nairn), had the attributes and services required for the plant. The analysis included the following:

5. a) • **Wood Supply Due Diligence Analysis:** KBM Resources Group completed a due diligence study, including wood basket analysis, for the proposed construction of a wood pellet manufacturing facility, which confirmed sufficient access to fibre to support production.

5. b). • **Environmental Pre-Feasibility Analysis:** Arbora Management Services completed a preliminary analysis of the four sites which included a regulatory permitting overview.

## **6. Detailed Site Analysis/Site Confirmation: Completed March 2017**

Based on the findings of the Site Evaluation and Constraints Analysis, a Detailed Site Analysis was completed in March 2017. The objective of this phase was to confirm, through existing information, that the proposed site would have the attributes and services required for the development, construction and operation of a 150,000 MTPY pellet plant. The aspects investigated at this phase included the following: Archeological, Environmental, Geotechnical, Rail Transportation, Road Transportation, Electrical Grid Connection.

## **7. Wikwemikong Development Commission Northern Ontario Wood Pellet Market Study: Completed**

A regional marketing study has been completed to identify other clusters of opportunity for conversion projects. In January 2018, Wikwemikong retained the services of Axiom Management Consulting to complete a wood pellet market study of Northern Ontario. The Northern Ontario Wood Pellet Market Study was completed in June 2018 and provided the estimated residential wood pellet market (number of tonnes / wholesale and retail values), outlined the major suppliers of wood pellets in Northern Ontario and provided recommendations on targeting Northern Ontario as a potential market.

## **8. Category B Environmental Assessment: In Progress**

Wikwemikong has completed a Category B Environmental Assessment, which is a pre-requisite for the purchase of the land from the Ontario Ministry of Natural Resources and Forestry (MNRF). The work has been contracted to Environmental Ecosystems and has been completed and submitted in January of 2019. The report is under review with the MNRF. The project team is waiting to meet with OMNRF to have approved the first phase in order to complete the disposition of Crown Land process, inclusive but limited to activities as a survey, consultation and purchase of the land.

## **9. Offer of Purchase: In Progress**

The purchase of the 25-hectare property (part of Lot 4 Concession 4 in the Township of Nairn) is in progress. The aggregate permit to the land is held by 1930180 Ontario Limited. 1930180 Ontario Ltd is company owned by Wiikwemikong Unceded Indian Reserve. Upon completion of the Category B Environmental Assessment, Wikwemikong will move to purchase the property. The Company to operate the pellet plant will lease the land of 1930180.

## **10. Opinion of Cost Study: In Progress**

Wikwemikong is currently proceeding with a detailed evaluation of the project. The Class 30 study was completed in March 2018 and is being followed by a concurrent Class 20/10 cost evaluation. Both include a full business plan with pellet market potential for this plant. The Class 20 has been completed to 90% and the Project Team are reviewing a few details requiring decisions related to electricity sourcing options, markets, financing, and transportation logistics.

## **11. Community Heating Strategy/ Biomass Conversion Project: In Progress**

Independently exclusive but relative, this project aligns to the community's strategic plan in creating wealth and employment opportunities while aligned to the community energy plan. Production of residential pellets supports Wikwemikong's community heating strategy. Wikwemikong is currently working with government funders to reduce the community's greenhouse gas emissions through conversion to wood pellet heating. The strategy includes conversion of seven community buildings and close to 200 homes to wood pellet heating, either through modern wood stoves, pellet stoves, pellet boilers or furnaces, representing a domestic demand for wood pellets. At this time, funding has been received to complete three community building installations. These three buildings transitioned from fuel based appliances to Froling Pellet Boilers as well as a Bulk Silo Storage and have been on-line this heating season (2019). Wikwemikong is working with government agencies (Province and Federal) to pursue funding for the additional conversions. The conversions noted will take place in the summer of 2019. To support the residential homes, a truck to delivery bulk pellets locally, and a silo to store an adequate supply of pellets are part of the plan.



# Project Team Contacts

**R. Nikki Manitowabi**, MBA, B.Comm., is the Business Development Specialist Advisor, to Wikwemikong Chief and Council. She has been working in economic development for 9 years, and is the former Chief Financial Officer for Wikwemikong Unceded Indian Reserve and former Chief Executive Officer with the Union of Ontario Indians, the Anishinabek Nation. She brings to the project team, management and administrative expertise, finance, marketing and public relations. Currently, she is leading along with Todd, the project for the pellet manufacturing plant. She is also CEO of an online marketing company, and involved with other project teams in the community working toward a light industrial park development and involved in negotiations on a final agreement with an operator for an aquaculture development.

**Todd Lewis** H.B.Sc. in Forestry, Forest Inventory Manager, Negotiator, on Islands Claim. Todd brings to the Project Team cumulative experience of 10 years in negotiating, research, 6 years with United Chiefs and Councils of Manitoulin and 4 with Wikwemikong. He has worked as a Silvicultural and Operations Forester on the Spanish, Romeo Malette, and Pineland Forests for Domtar Inc. He has also worked for private forest companies out of Gogama and Sudbury who form part of the Day Group of Companies. He worked for the Ontario Provincial Government with the Ministry of Natural Resources and has also worked as part of an audit team for QMI-SAI Global, a firm of independent auditors and an FSC accredited certification body evaluating forest management practices of companies who have applied for Forest Stewardship Council (FSC) certification. Currently, he manages all the Forest Resource Inventory work done for Wikwemkoong's clients which encompass field calibration plots and photo interpretation of data related to lands/contract areas within the Area of Undertaking in the Province of Ontario.



# Project Team Contacts

R. Nikki Manitowabi, MBA, B.Comm.

Business Development

Enaadmaagehjik, Wikwemikong Development Commission

2102 Wikwemikong Way

Wikwemikong, ON P0P 2J0

[rnmanitowabi@wikydevcom.ca](mailto:rnmanitowabi@wikydevcom.ca)

Tel: 705.859.3018

Todd Lewis, H.B.Sc.

Forest Resource Inventory Manager

Wikwemikong Unceded Territory

19A Complex Drive

Wikwemikong, ON P0P 2J0

[toddlewis@wiikwemkoong.ca](mailto:toddlewis@wiikwemkoong.ca)

Tel: 705.859.3775