Permit Application For Solid Waste Processing Facility

Maya Energy, LLC

Material Recovery / Recycling Facility

Gary, Indiana

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Introduction

Maya Energy, LLC is submitting this application for construction and operation of a Solid Waste Processing Facility to be located in Gary, Indiana.

Contents of this application are intended to meet the requirements of 329 IAC 11-9-2 for an application for a solid waste processing facility. A completed checklist (State Form 53315) is included in Appendix A. The application (State Form 50392) is attached as Appendix B. A copy of the application fee payment and associated Fee Transmittal Form (State Form 47215) are included in Appendix C. Reviewers may refer to the Checklist or the Table of Contents to find all required application information.

Requirements of 329 IAC 11-9-2(j)

11-9-2(j)(1) Facility Narrative

The Maya Energy, LLC Solid Waste Handling Facility (Facility) will be located on a parcel of approximately 35 acres leased in the 2700 block of West 35th Avenue in the City of Gary. (This address has not yet been established by the U S Postal Service.) The site is owned by the Little Calumet River Basin Development Commission (LCRBDC) and will be leased to Maya Energy, LLC (Maya). The lease will run for 50 years. The proposed lease area is currently undeveloped farm land. There are no potable drinking water wells on the property. A list of property owners or taxpayers of record within 1/2 mile of the site is provided in Appendix H. This is a printout of a spreadsheet which has also been provided for your convenience in electronic form in lieu of State Form 50401.

The proposed process facility will be housed in a 150,000 square foot building designed to receive and process municipal solid waste (MSW) and construction demolition waste (C & D). The Facility is designed to process 1,600 tons per day (TPD) of MSW and 800 tons per day of C & D. The Facility will serve Lake County, Indiana, and surrounding counties in Indiana and Illinois.

Waste Sources

The source of MSW waste to be processed at the proposed Facility will be Municipal Solid Waste, much of which contains a significant percentage of recyclables. The source of C&D waste will be from contractors and C&D waste haulers. The sources of the waste will be from Lake County, Indiana (population 0.5 MM), Chicago, Illinois (population 2.9 MM), and the Chicago metropolitan area (population 9.5 MM).

Design Waste Analysis

The MSW design waste analysis is based on the report of the United States Environmental Protection Agency, *Advancing Sustainable Materials Management: Facts and Figures 2013*, dated June, 2015. This report is available at https://www.epa.gov/sites/production/files/2015-09/documents/2013_advncng_smm_rpt.pdf. The design waste analysis is shown in Table 1. The *Municipal Solid Waste Characterization Study for Indiana*, prepared by Purdue University Calumet, dated May 25, 2012, was also reviewed. Slight variations from the assumed waste distribution will not significantly impact the operation of the Facility. Maya is not proposing any additional analysis of solid waste.

Prohibited Wastes

The Facility will store and process only the above described wastes. Prohibited wastes include:

- Explosives (e.g. dynamite, hand grenades, blasting caps, shotgun shells, fireworks, etc.)
- Liquid waste (e.g. gasoline, fungicides, kerosene, alcohol, acids, turpentine, hydraulic oil, waste oil, petroleum, ether, caustics, naphtha, sewage or process waste waters, acetate, leachate, solvents, sewage sludge, paints, flammable or volatile liquids, etc.)
- Miscellaneous materials (e.g. offal, tar, asphalt, asbestos, sealed drums, pressurized containers over one quart in size, human remains, etc.)
- Tires
- Motor vehicles (car batteries, automobile parts, any large machinery)
- Hazardous waste as defined under federal, state, and local laws and regulations
- Radioactive waste
- Pathological or infectious waste (treated or untreated).

Procedures for waste screening are described on page 8.

11-9-2(j)(2) Process Description

Facility Processes

A Process Flow Diagram is shown in Figure 5. The exact equipment used may vary slightly from that shown. Maya is currently working with equipment suppliers to specify the proper state of the art equipment to process the waste in the manner described. A general layout of the equipment within the Facility is shown on Drawing A1. Building elevations are show on Drawings A10, A11, A21, and A22.

Refuse will be delivered to the Facility in standard route trucks, and transfer trailers. An automated truck scale with a computerized record keeping system will maintain an

accurate accounting of all waste delivered to and removed from the Facility. The system will include the use of certified scales and will provide for recording of the time, date, weight, and origin of each delivery. Ample truck parking and queuing areas will be provided. The site and facility will have adequate lighting for operations after dark.

The overall traffic pattern is shown on Drawing C2. This drawing shows the anticipated traffic flow for the Facility. Delivery vehicles will enter the site off of 35th Avenue through a secured gate. An inbound scale will be used to weigh incoming vehicles. Vehicles not having recorded tare weights will be weighed again upon exiting the Facility. Traffic over the scales is controlled by the scale house attendant. Once weighed, the vehicles will proceed on the routes indicated on Drawing C2.

Tipping Floor

MSW will be received from route trucks and transport trailers. Two truck tippers with be provided for dumping the transport trailers onto the tipping floor (see drawing C09). Overhead doors in the building wall will open for the tipping operation and close following completion of the tipping operation. The tippers will include debris containment covers with the following features:

- Contains the flying loose debris such as paper and plastic to conform to regulations.
- Will not catch wind gusts and blow away like plywood or metal that is not secured properly or comes loose over time.
- Netting is 900 lb tensile chord with a load rating of 2500lb
- Netting rides on the deck and goes up with the trailer to retail material as tipper is in operation.
- Tension springs will keep the nets from sagging too much over time.

The tipping area will be continuously observed for spilled waste. Spilled waste will be immediately collected and moved to the tipping floor.

Route trucks will enter the building and dump directly on the tipping floor (see drawing C09). C & D waste will be received from transport trailers. C & D trucks may use the truck tippers, or may enter the building and dump directly on the tipping floor. Material from the two waste sources will be separated and kept separated from each other on the tipping floor. Front end loaders and or excavating machines (backhoes) will be used to move waste around on the tipping floor, and to load the process line entry conveyors. This equipment will assist tipping floor workers in sorting and moving various wastes to required locations. This equipment will also be used to stack waste to required heights for storage.

The tipping floor will be 225 feet by 200 feet (45,000 sq. ft.) and will be capable of storing up to 12,800 cubic yards (approximately 1,600 tons) of waste. Drawings and

calculations of the storage capacity of the tipping floor are shown in Figures 8 and 9 and Tables 3 and 4.

The tipping floor and the process lines will be completely contained in an enclosed building with solid walls, curbed floors, and closable doors at all entry and exit points.

Push walls will be constructed at locations indicated on drawing A02. Doors will remain closed when the Facility is not in operation. The process to recover recyclables is shown the Process Flow Diagram depicted in Figure 5.

In the event the tipping floor needs to be emptied of waste, front end loaders and/or excavators will be used to load transport trucks directly from the tipping floor.

MRF Lines

The MRF lines are designed to accept and process Municipal Solid Waste (MSW) as defined at 329 IAC 11-2-21.7. Each of the two MRF lines will be designed to process 50 tons of MSW per hour for 16 hours per day, Monday through Friday, for a combined total of 1,600 tons per day, and 8 hours on Saturday for a total of 800 tons.

MSW waste will be screened in accordance with the screening procedure described on page 8, and presorted on the tipping floor into the following parts:

- a) MSW to be processed.
- b) Large Items not suitable for processing.

Remaining material from the Presort Area will be fed to the system and processed as indicated on the Process Flow Diagram. Equipment will consist of:

- Conveyors
- Bag Openers
- Trommels
- Screens
- Glass Breakers
- Manual Sorting Tables
- Air Density Tables
- Magnetic Separators
- Optical Sorters
- Eddy Current Separators
- Shredders
- Baler

The MRF lines will recover recyclable materials from the incoming waste stream to the Facility. The Facility will include equipment and material handling systems to recover ferrous & nonferrous metals, paper, cardboard, plastics, and fines usable for RDF from the incoming municipal solid waste stream.

Recovered paper, cardboard, and plastic will be baled for resale. Baled recyclable materials will be placed in the bale storage area. Ferrous and nonferrous metals will be placed in containers for resale. Fines and materials unsuitable for recycling, but usable for as refuse derived fuel (RDF), will be loaded via conveyors to transport trucks for resale.

Fines not usable for RDF, including dirt, broken glass, and unusable paper, will be loaded via conveyors to transport trucks.

Four depressed loading docks and two loading doors at floor elevation will be provided for loading materials for outbound recyclables, RDF, and waste. Bales will be loaded onto trucks using forklifts. Landfill waste and RDF will be loaded using conveyors. When necessary, trucks can back into the operating floor through the two floor elevation doors to be loaded using front end loaders.

Trucks exiting the facility will be weighed on the outbound scale and will exit through the secure truck gate. Fines not usable for RDF, and other non-usable MSW will be shipped to an approved landfill.

C & D Line

C & D waste will be screened in accordance with the screening procedure described on page 9, and presorted on the tipping floor into the following parts:

- a) Usable wood to be shredded for sale as use for fuel. Usable wood is defined as clean unpainted and untreated wood.
- b) All other C & D waste is not suitable for shredding for sale as use for fuel. Waste not suitable for shredding for sale for use as fuel shall include all materials other than usable wood. This includes but is not limited to painted or unpainted concrete, shingles, bulky items, gypsum board, painted or treated wood, engineered wood, and other unacceptable wastes.

The C & D line is designed to accept usable wood from demolition debris. No shingles will be accepted at the facility. Contracts with suppliers will stipulate that no shingles are to be delivered to the site. Received material will be inspected for shingles. Any shingles found in received waste will be sorted out and delivered to a permitted shingle handling facility, or shipped to a landfill. Non-wood C&D demolition debris (e.g.

concrete, painted concrete, aggregate, brick, sawdust, stone, gypsum board, plaster, porcelain fixtures, gravel, boilers/furnaces, sand, structural clay products, creosote treated lumber, soil, dry wall, tree stumps, metal pipes, structural steel, etc.) will be separated on the tipping floor and forwarded to an approved landfill or sold to a licensed material processor. Additional separating will take place on the C&D process line.

The C & D line will be design to process 50 tons per hour for 16 hours per day Monday through Friday for a total capacity of 800 tons per day, and 8 hours on Saturday for a total of 400 tons. Clean C & D wood will be shredded for resale as wood chips for fuel or other uses. Wood chips may be sold to users inside or outside the State of Indiana. Indiana users will be licensed for their intended use of the product. Wood chips will not be sold for mulch. Clean concrete may be resold.

Outbound wood product will be loaded via conveyor or mobile front end loader into trucks for shipment. Outbound concrete will be loaded on trucks. Trucks will exit over the outbound scale and out the truck gate.

11-9-2(j)(3) Testing, Treatment and Disposal of Facility Waste

Process fines from the recyclable recovery process not collected for use as refuse derived fuel (RDF) will consist primarily of dirt, broken glass and small pieces of paper. Process fines from the recyclable recovery process, from the baghouse, and from the waste water stream will be evaluated to determine its quality and waste characteristics using the following procedure. Samples of process fines will be collected daily during the first week of operations of the Facility. One grab sample from the baghouse will be collected during the first 30 days of operation of the Facility for waste characterization. One sample of waste water will be collected from the sump each day during the first week of operation of the Facility.

Samples will be analyzed for toxicity using the Toxicity Characteristic Leaching Procedure (U.S. EPA Method 1311), and the analyses and representative methods listed below, consistent with 40 CFR 261.24.

Volatile Organic Compounds (VOCs), 8260 Semi-volatile Organic Compounds (SV005), 8270 Metals, 6010, 7470 Pesticides, 8081 Chlorinated Herbicides, 8150

It is anticipated that the samples will be characterized as non-hazardous by this procedure and will be subject to disposal as solid waste at an approved landfill or

discharged liquids to the municipal sanitary sewer system. After this initial characterization, additional testing of process fines and liquid waste for waste characterization will be performed only upon request of the receiving landfill, the IDEM, or if substantive changes in the character of incoming wastes occur. Baghouse particulates may be recycled as RDF, if suitable.

A Material Balance Diagram is shown in Figure 6. A Wastewater Flow Diagram is shown in Figure 7.

11-9-2(j)(4) Floor Construction

The tipping and the floor of the entire interior of the building will consist of concrete at least 6 inches thick. The inside of the building exterior walls will be curbed, and the concrete floor will slope to collection points inside the building.

11-9-2(j)(5) Facilities Anticipated to Receive Waste from This Facility

Maya will utilize the Waste Management Countryside Landfill in Grayslake, Illinois to dispose of waste fines and baghouse filter particulate waste. In the event that the Countryside Landfill is not available to accept waste, the Newton County Landfill located in Brook, Indiana, will be used.

11-9-2(j)(6) Contingency Action Plan

Design Capacity of Waste Storage

The design capacity of the waste storage area at the Facility is 1,000 tons of MSW waste and 600 tons of C & D waste. See Figure 9 and Table 4

Typical Usage of Storage Capacity

The typical usage storage capacity is approximately 400 tons of MSW waste and 200 tons of C & D waste. See Figure 8 and Table 4.

Maximum Anticipated Inventory

The maximum anticipated inventory is 1,000 tons of MSW waste and 600 tons of C & D waste. This is based on the minimum space needed to safely process waste. The calculation for this maximum capacity is shown in Figure 9 and Table 4.

Salvaged or processed materials will be continuously shipping during operating hours. Maximum storage for salvaged or processed materials is shown on drawing A31.

Contingency Shutdown

In the event of an emergency, breakdown or unplanned shutdown of equipment which impedes proper management of solid waste processing at the Facility, the customers of

Maya will be notified by telephone to reroute delivery of their municipal solid waste to an approved third party disposal site to accept municipal solid waste delivery. In the event the tipping floor needs to be emptied of waste, front end loaders will be used to load transport trucks directly from the tipping floor. Maya will resume normal delivery of municipal solid waste when safe management and handling of the municipal solid waste can be maintained.

In general, all systems and equipment will be left in a de-energized/shutdown condition; mechanical systems will be drained or de-pressurized. Major electrical switch-gear and motor control centers will be de-energized with breakers racked to a disconnected position. All refuse receiving equipment will be empty and clean.

If the Facility is to be closed for a long period of time, the following is a list of items that will be reviewed and considered by the Facility management staff.

Electrical

All breakers are to be racked to the disconnect position, except those providing lighting.

Fire Protection

Hydrant line will be left pressurized from city water.

Facility Site

No accumulation of litter or debris will be allowed to exist on the Facility grounds.

The Emergency Response Plan is attached in Appendix N.

11-9-2(j)(7)(A) Controlling Procedures for:

Dust

As a means of dust control, all doors to the main building will be kept closed during windy conditions and except when being used. Roadways and other paved areas throughout the site will be routinely cleaned with a mechanical sweeper. Particulate emissions from the waste processing equipment located within the Facility will be controlled by the use of a baghouse (see drawing M01).

Noise

All of the waste processing equipment associated the operation of the Facility (except the truck tippers) will be located within the Facility building. The specification of design of the process equipment for the Facility will stipulate that noise levels for equipment shall not exceed 80 dB at three feet from the surface of the equipment.

Odors

A primary means of controlling potential odors from the Facility is to achieve the goal of emptying the tipping floor each day. While circumstances will arise which occasionally prevent this goal from being achieved, reasonable efforts will be made to clear the tipping floor on a daily basis. Additionally, the tipping floor will be washed clean on a daily basis to further minimize the potential for odors leaving the Facility. Waste processing equipment and work areas within the Facility will be cleaned on an as needed basis and in accordance with the equipment supplier's recommendations.

<u>Vectors</u>

Vector control for the Facility will be subcontracted to a qualified local company. The control program will provide applications of spray and traps throughout the waste handling areas and administrative areas approximately once per month. Selection of the contractor will be based on qualifications and experience and the specifics of the program the vendor proposes to implement. The program will be closely monitored by the designated Facility management and will be adjusted, as required, to seasonal changes and the actual effectiveness of the program.

Litter

Litter control throughout the site will be conducted on a daily basis. The tipping floor of the Facility will be maintained on an on-going basis during working hours. In addition, the entire Facility site will be inspected daily and cleaned as needed. The site will be fenced to reduce litter leaving the site.

11-9-2(j)(7)(B) Waste Screening Monitoring and Training

All arriving solid waste vehicles will weighed at the inbound scale. At the scale, a clearly visible notice will be posted stating that unacceptable and hazardous waste is prohibited, along with a clear warning of potential hauler bans and other legal penalties (suspension, fines) for violators. The inbound scale area will be equipped with video monitoring equipment.

As a normal part of their assigned duties, Facility personnel working on the tipping floor will continually observe the unloading of waste and inspect waste on the tipping floor. All personnel directly involved in the handling of incoming refuse (tipping floor personnel and equipment operators) will be trained to visually identify, and instructed on how to deal with unacceptable wastes, and suspected hazardous wastes.

In addition to these measures, solid waste trucks will be periodically directed to empty their load on the tipping floor for inspection. Haulers having a history of bringing hazardous or unacceptable waste will be checked more frequently. If suspect materials are observed, but are not readily accessible, the equipment operator will spread the refuse tipped onto the floor using the loader bucket. If unacceptable or suspected hazardous waste is found, the hauler will be required to remove it from the Facility. The truck will not be allowed to leave the Facility until released by the equipment operator. If the tipping floor personnel discover unacceptable or suspected hazardous waste in an incoming truck, either at or before the truck reaches the tipping floor area, the driver will not be permitted to discharge his load and will be directed to leave the site. Whenever Facility staff identifies a hauler with unacceptable or suspected hazardous waste or screens a hauler for possible unacceptable or hazardous waste, reports will be completed, fines will be imposed and notification letters will be sent.

When haulers cannot be identified and the Facility is required to handle suspected hazardous waste that does not appear to be an immediate threat, it will be set aside on the tipping floor, roped off and isolated away from traffic and personnel. Danger signs and warnings will be posted. No attempt will be made to open suspect waste containers. Maya will notify appropriate government agencies, including the local Fire & Rescue Department and Police Department if necessary for dispatch to the site. In all cases where suspected hazardous waste is found and is considered to present a possible immediate threat (such as explosives or ruptured drums), no attempt will be made by Facility personnel to move it. The material will be left in place and the area roped off. Personnel and traffic will be prevented from operating in that section of the Facility. Maya will notify appropriate emergency response personnel.

All sampling and identification of suspected hazardous waste will be done by trained individuals. If necessary, an independent contractor will be called in to determine the status of any suspect material and identify handling to be used. If a spill of a reportable quantity of an identified hazardous waste occurs, the State of Indiana 24-hour hazardous waste emergency hotline will be notified either by Maya or local authorities. If the waste meets any of the hazardous waste identification criteria established by the controlling regulatory agencies, it will be properly packaged, labeled and transferred by appropriate local authorities. Its transfer from the Facility will be accomplished in as expeditious a manner as practicable, using appropriate State/Federal forms and procedures, and only appropriately licensed hazardous waste transporters.

Maya will train its operations and supervisory staff on procedures needed to operate an Unacceptable and Hazardous Waste Screening Program. Training will include actions to be taken in the event suspect or identifiable hazardous waste is detected. Prior to assignments involving the management of incoming solid wastes, employees will be given classroom training. Following initial formal classroom training, employees will be

given supervised on-the-job training. No new employee will be assigned to a position involving the management of incoming solid waste without supervision by an individual already trained or without having received formal training themselves. A master file listing completed personnel training will be maintained. This master file will include the trainee names, dates of sessions and instructors who participated in each training session.

Aggressive implementation of the screening, cameras, enforcement, and education program outlined above will minimize the possibility that unacceptable wastes or hazardous wastes are received or processed at the Facility.

11-9-2(j)(7)(C) Handling of Bulky or Unsuitable Waste

Bulky Waste

Wastes which are delivered to the Facility and are identified by tipping floor personnel as bulky waste will be presorted into the following categories:

- 1) large bulky items, and
- 2) propane tanks and large metal objects.

These items will be subsequently moved to and stored at a designated area on the tipping floor before transport to an appropriate processing facility. Bulky items will not be allowed to accumulate on the Facility tipping floor.

Unsuitable Waste

The Facility will process and store only MSW and C & D. No incompatible waste storage considerations are anticipated. See section 11-9-2(j)(7)(B) above for handling procedures for incompatible or unacceptable material.

11-9-2(j)(8) Cleanup Procedures

Daily Housekeeping Procedures

It is the operational intent of the Facility to empty the tipping floor each day. The tipping floor will be washed down as needed.

Access shall be provided in and around conveyors and mechanical equipment to be used for clean-up. Sufficient access platforms and/or space will also be provided around the equipment to allow for maintenance and removal of mechanical drives and equipment. Equipment and floors will be washed down as necessary. Wash down water will be used as needed to maintain a clean work environment. Litter will be collected with the building and over the entire Facility site on a daily basis.

11-9-2(j)(9) Sanitary Facilities for Employees

Lockers, toilets, and shower facilities will be available to Facility personnel in the office building of the Facility as shown on Drawing A2.

11-9-2(j)(10) Proposed Operating Hours for the Facility

The Facility will manned continuously around the clock from 5:00 AM Monday until 3:00 PM Saturday. The Facility will be closed from 3:00 PM Saturday until 5:00 AM Monday.

The Facility will accept waste between at 5:00 AM and 5:00 PM Monday through Friday, and between 5:00 AM and 12:00 noon on Saturday.

Material will be processed on the equipment lines from 7:00 AM to 11:00 PM Monday through Friday, and from 7:00 AM to 3:00 PM on Saturday.

The Facility is designed to process 100 tons per hour of MSW for 16 hours per day, and 800 tons per day of C & D waste for 16 hours a day, Monday through Friday. The remaining hours in each week are anticipated to be used for performing cleanup and maintenance on the equipment and the Facility.

The facility will be open to the public to drop off waste from 8:00 AM to 4:00 PM Monday through Friday and from 8:00 AM to 12:00 noon on Saturday.

11-9-2(j)(11) Emergency Response Plan

An emergency response plan will be maintained on-site and will be available to all Maya personnel and visitors in the case of an emergency. The emergency response plan is included in Appendix N.

Additional Checklist Requirements

Waste Flow Diagram

The material flows and recovery rates are summarized in Table 1. The MSW lines will operate 6 days per week, 312 days per year. The lines will operate at a rate of 1,600 tons per day Monday through Friday, and 800 tons per day on Saturday, for a total incoming waste stream of 457,600 tons per year (TPY). The estimated quantity of recyclables includes 328 bales (1,000 lbs. per bale) per day of plastic, 340 bales per day of paper, 264 bales per day of cardboard, 99.4 tons of ferrous metals, and 20.2 tons of aluminum. The total recyclable recovery rate for the MSW is 40.8%.

Approximately 214,357 tons per year (approximately 46.8% by weight) of the incoming waste stream will be processed MSW that will be sold for RDF.

The remaining 15,873 tons per year (3.5% by weight) of the processed waste stream will be fine material, which will be disposed of in an approved landfill.

The incoming C&D waste stream will operate at 800 tons per day Monday through Friday, and 400 tons per day on Saturday, for a total incoming waste (228,800 TPY). Approximately 84,198 TPY of suitable wood will be recovered and shredded for recycling. Approximately 84,198 TPY of concrete will be recovered and sold. The remainder of unsuitable C & D waste will be separated and disposed of in an approved C & D land fill. The total recoverable recycle rate of the incoming C & D is 40.8%

It is anticipated that the percentage of recyclable wood in the C & D waste stream will be increased through contractual agreements with the waste haulers, so that the incoming C & D waste stream will be high in usable wood content, allowing the recycled product to increase to up to 50% of the incoming stream, or greater.

Captured Facility Waste

Liquid Waste

Operation of the Facility will generate two sources of wastewater:

- leachate from the waste to be processed, and
- washdown water associated with operation and maintenance procedures within the tipping floor and the process area.

Figure 7 is a Facility Wastewater Flow Diagram which shows the estimated daily flow rates of each of the two waste water streams.

As shown in Table 2, Waste Water Calculations, the leachate and wash down water will total a maximum of 101 gallons per minute.

The tipping floor and process floor will be sloped to collect liquids and route them to a manhole near the north side of the building. The manhole will have a sump to collect solids, and a hood to serve as a skimmer and a water seal. The manhole will discharge to the City sanitary sewer line in 35th Avenue.

Dust Waste

The Facility process equipment will include a baghouse air filtration system for removal of dust and particulate matter associated with waste processing equipment and selected conveyor transfer points (see drawing M04). A construction and operating permit has been obtained from the IDEM Office of Air Quality. The collected particulate matter may be recycled for use as RDF or shipped to a solid waste land fill.

Process and Storage Enclosure

Waste unloading, processing, storage, and loadout will be conducted within the Facility building, as shown on Drawing A1. Doors will be closed when the Facility is not in operation.

Spills

A Facility Spill Prevention, Control and Countermeasure (SPCC) plan will be written within six months of the construction of the Facility per 40 CFR 112.5. The facility will employ the use of appropriate secondary containment and equipment for discharge control.

The following are among the measures to be incorporated at the facility: Personnel will be instructed in the operation and maintenance of equipment to minimize the discharge of oils. Personnel will also be trained on proper procedures for containment and cleanup of small discharges and leaks, as well as discharge response procedures, the contents of the SPCC plan, and other applicable pollution control laws, rules, and regulations. Personnel will be trained annually.

The perimeter of the Facility is totally enclosed with fencing and locking gates at all entrances to the plant. Surveillance cameras will be located throughout the Facility, including the Facility entrance points.

The diesel fueling station will be locked with access provided only to authorized personnel. The fill ports for fuel storage tanks are capped when tank-filling operations are not occurring.

The following equipment is maintained and can be used to contain and control discharges or leaks:

- Portable radios
- Telephones
- Absorbent materials
- Spill control kits
- Rakes and Shovels throughout the facility

Front-end loaders

The Discharge Response Coordinator will be in charge of all discharge response activities and will have the authority and training to mobilize the appropriate personnel and equipment in the event of a discharge. The Shift Supervisor on duty will assume the role of the Discharge Response Coordinator. Upon discovery of a discharge, the plant employee(s) will immediately notify the Shift Supervisor. If the Discharge Response Coordinator is not available, the Chief Engineer will be contacted, and become the alternate Discharge Response Coordinator. If necessary, the Discharge Response Coordinator (or alternate) will provide immediate notification and follow-up written reports to management who will notify appropriate federal, state, and local agencies. If there is an immediate or actual emergency, the Discharge Response Coordinator has the full authority needed to complete the required activities. The Discharge Response Coordinator will be familiar with aspects of the SPCC Plan, which will include the following:

- Reporting and response procedures;
- Facility operation and activities;
- Location and characteristics of petroleum products at the facility; and
- Location of discharge response equipment.

The Discharge Response Coordinator will have the responsibility of coordinating the response measures. In the event of a discharge, the following procedures will be followed:

- The employee(s) discovering the discharge will immediately stop work and, if appropriate, turn off any equipment in the affected area.
- The employee(s) will contact the Shift Supervisor, who is the Primary Discharge Response Coordinator. If the Primary Coordinator is not available, an alternate will be contacted.
- The Discharge Response Coordinator will designate an assistant, if necessary.
- The Discharge Response Coordinator or designee will proceed to the discharge area and set up a perimeter. If necessary, assistance from the outside agencies will be requested.
- Upon arrival, the Discharge Response Coordinator will assess the nature and extent of the release and the potential threat to human health and/or the environment.
- As necessary, the Discharge Response Coordinator will evacuate personnel, notify local authorities (911), and advise if area control or evacuation of the surrounding area is recommended or if medical assistance is required.
- The Discharge Response Coordinator will take immediate action to control the discharge and to contain it within the Facility property line.

- Should outside assistance be required to control the discharge, the Discharge Response Coordinator will contact the appropriate entity.
- Should the discharge reach the storm sewer inlets, the Discharge Response Coordinator will authorize further action to stop the migration of the discharge.
- Upon containment and control of the release, the Discharge Response Coordinator will direct the clean-up of the area.
- To the extent feasible, the discharge material will be recovered, reclaimed or properly disposed of. Materials such as absorbents and contaminated soil and water will be disposed of at an appropriate facility.

Fire Equipment

The Facility will be provided with an automatic sprinkler system per NFPA-1 3 and applicable Indiana Building and Fire Codes. The system will be served from the existing City water line in 35th Avenue. A separate water line from the street will serve a fire line loop around the entire building, with hydrants spaced no more than 300 feet apart around the building. At least eight portable fire extinguishers will be provided at locations within the building, and will comply with applicable codes.

Personal Protective Equipment

Each employee is issued personal safety gear and equipment that is appropriate for their position and duties. The personal gear may include hardhat, safety glasses, work gloves, and ear protection. In addition, depending on the individual's assignment, respirators, mono goggles, face shields, sleeves, aprons, electrical gloves, harnesses, belts and the like will be issued or made available for specific jobs as needed. Employees performing work near the processing areas or within the tipping area will wear steel-toed work shoes or boots, appropriate hearing protection, and appropriate protective attire (such as helmets, safety glasses and gloves).

Decontamination

Decontamination of equipment shall be accomplished through regular housekeeping and maintenance procedures. Equipment and floors will be washed down as necessary. Wash down water will be handled as described above.

Procedures for personnel decontamination shall include use of sinks and shower facilities located within the office building of the facility.

Roadways and other paved areas throughout the site will be routinely cleaned with a mechanical sweeper in order to prevent vehicle tracking of waste residue off Facility property. Waste processing equipment will be cleaned in accordance with manufacturers' recommendations and on an as needed basis.

Inspection

The maintenance program will cover all systems and component equipment including the air pollution control devices in the Facility. Initially, the recommendations provided by each manufacturer will be used. Each piece of equipment will be reviewed for inspection, testing, lubrication and routine adjustment and/or change-out recommendations and time frequency requirements.

Visual inspections will be performed daily, and will consist of cleaning around equipment & sorting stations, and cleaning trommel screens. Weekly inspections will consist of lubricating equipment and checking tracking of conveyor belts. Monthly inspections will include inspection of injection bearing on optical and eddy current sorters. The hydraulic coil on the baler will be maintained on an annual basis.

Work orders or standard operating procedures will be prepared for each independent task. Maintenance frequency will be specified. The work orders and standard operating procedures will form the basic preventative maintenance program which will be modified, increased, decreased, or adjusted as the actual work is conducted and specific needs become apparent.

At the beginning of each day the Maintenance Supervisor will review the work orders and standard operating procedures to be competed. Each preventative maintenance task will generate a work order that must be performed within a given time period. The Maintenance Supervisor will assign the work to his personnel in accordance with the craft required and the priority needs of repair work. Except in emergency cases, preventative maintenance work will be conducted as an on-going, continuous function of the maintenance group and not allowed to be postponed or disrupted by other activities. After performing the assigned preventative maintenance work, each mechanic will report to the Maintenance Supervisor regarding the task performed. The mechanic will note all work performed, materials used, and hours expended on the work order. He will also note the as found conditions, if appropriate, and any changes or recommendations he may feel are necessary. With the Supervisor's approval, the information provided by the mechanic is entered into the computer and the work order is closed. The information and the work completed become part of the history for the equipment. The maintenance schedule will govern when the work is scheduled to be performed again. The air pollution control devices will be inspected, maintained, and repaired by both the operations and maintenance staff. Each operating shift will inspect the air pollution control equipment for proper operating conditions. If repairs are necessary a work order will prepared and the maintenance staff will perform the needed repair. The

preventative maintenance for the air pollution control devices will be performed in accordance with the process equipment Manufacturer's recommendations.

The building structure and floors will be inspected on a frequent basis for damage that may affect the safe operation of the Facility, or damage that may affect the proper containment of all waste materials.

Record Keeping

The following records will be maintained at the facility at all times until post-closure certification has been obtained unless otherwise noted:

- Current copies of the approved Solid Waste Processing Facility permit, plans, specifications, and supplementary documents.
- Additional permits as required by law.
- Monitoring records, reports, and transport manifests as required by 329 IAC 11-15-4(b).
- Copies of IDEM inspection reports.
- Self-inspection logs as required by 329 IAC 11-21-5.
- Copies of quarterly tonnage reports which will be submitted in accordance with 329 IAC 11-14-1 for at least 3 years.

These records will be made available during operating hours for inspection by any officer, employee, or representative of the commissioner.

All Weather Roads

All roads and parking areas within the site will be constructed of concrete or asphalt pavement.

Storm Water Control

Site storm water will be collected and routed to one of two retention ponds on the site (see Drawing C1). The ponds will discharge to the existing roadside ditch in accordance with County and City storm water design standards.

Facility Signs

Signs of at least 16 square feet will be posted at all entrances from a public road to the site and will include:

- (1) The name of the Facility: Maya Energy Resource Recovery Center
- (2) The type of operation: Resource Recovery Center
- (3) The Facility's IDEM permit number.
- (4) The phone number for the person to be contacted in the event of an emergency.

- (5) The hours that the facility is open to accept waste.
- (6) The schedule of fees.

Salvage Operations

Salvaged materials will be stored and shipped as shown on drawing A31. Plastic, paper, cardboard, and aluminum will be stored in bales. Ferrous metals, glass, and miscellaneous waste for landfill or shipping to a third party processor will be stored in roll off bins. This will include concrete, shingles, and unusable wood. Shredded wood will be stored on the floor. RDF will be moved directly from the process line via conveyor to transport trucks.

On-site communication

On-site communication will be facilitated through the use of hand-held radios and a site telephone or intercom system. Telephones will be located throughout the Facility processing area, tipping floor, and administration areas.

On Site Safety Equipment

First aid supplies will be maintained in the office building. Safety equipment such as hard hats, safety glasses, vests and earplugs used by employees and visitors to the Facility are will kept in a storage room in the office building. All employees will be issued and trained on how to use all personal protective equipment (PPE) as required by OSHA and State regulations.

Access Control

Facility access control measures will consist of the perimeter fence, lockable night gates, a guardhouse with lift gates during operating hours, and 24 hour security cameras.

Closure and Post-closure Plans

A copy of the closure plan is included in Appendix E.

CLOSURE COST ESTIMATE				
Revised 01/29/18				
			Unit	Total
	Unit	Quanity	Cost	Cost
General Paint Shutdown	LS	1.0		20,000
Load and Transport Raw MSW Waste	Tons	1,200.0	50.00	60,000
Load and Transport Raw C&D Waste	Tons	0.008	50.00	40,000
Load and Transport RDF	Tons	749.5	50.00	37,475
Load and Transport Paper	Tons	170.2	50.00	8,510
Load and Transport Cardboard	Tons	132.2	50.00	6,610
Load and Transport Glass	Tons	66.2	50.00	3,310
Load and Transport Ferrous Metals	Tons	99.4	50.00	4,970
Load and Transport Aluminum	Tons	20.2	50.00	1,010
Load and Transport Plastic	Tons	163.8	50.00	8,190
Final Cleanup	LS	1.0		10,000
Site Cleanup	LS	1.0		10,000
Utility Shutdown	LS	1.0		5,000
Post Closure Inspections and Reports	LS	1.0		20,000

TOTAL \$ 235,075

Maya Energy, LLC January 29, 2018

Response to IDEM Request for Information Dated January 11, 2018

- 1. A partial set of revised plan sheets is attached. Sheet A31 shows incoming and outgoing waste storage areas. Sheets C04, C07, C09, C10, A02, A28, A29, A30, A31, M02 and M04 are attached.
- 2. The Operations Plan has been revised to address the handling of shingles (Page 5).
 - a. Shingles will be separated on the tipping floor. There will be no grinding of shingles at the facility.
 - b. Shingles will be sent to a permitted handling facility or landfill.
 - c. Shingles will be hand separated on the tipping floor and loaded into roll off boxes. They will be sent to a permitted handling facility or landfill. Shingles have been added to the process flow diagram.
- 3. The Operations Plan has been revised to clarify what is meant by usable wood and concrete. The procedures for painted wood, treated wood, painted concrete, and mulch have been clarified (Pages 6 and 13).
 - a. Useable wood is defined as clean wood that is not treated, painted, or laminated. Usable concrete is unpainted concrete.
 - b. The word mulch has been removed.
 - c. Clean wood will be separated and sorted by hand and by an optical sorter. Large pieces of concrete will be separated on the tipping floor using an excavator. Smaller pieces of concrete will be picked by hand. The concrete will be placed in roll off boxes and bunkers.
 - d. Wood will be used as fuel by a permitted end user. Concrete will be shipped to a third party recycler.
- 4. The "Waste Sources" section has been revised to identify the sources of solid waste to be processed at the facility, including the population and area to be served (Page 1). The sources of waste will be municipalities, schools, post offices, businesses, contractors, and haulers. The service area will be Chicago, Illinois (population 2.9 MM), and Lake County, Indiana (population 0.5 MM).
- 5. The list of Prohibited wastes has been revised to clarify that neither treated nor untreated infectious waste will be accepted (Page 2).

6. Additional information has been added regarding the truck tipper operation, including how that operation is designed and operated to prevent the release of waste outside the building (Page 3).

Overhead doors in the building wall will open for the tipping operation and close following completion of the tipping operation. The tippers will include debris containment covers with the following features:

- Contain the flying loose debris such as paper and plastic to conform to regulations.
- Will not catch wind gusts and blow away like plywood or metal that is not secured properly or comes loose over time.
- Netting is 900 lb tensile chord with a load rating of 2500lb
- Netting rides on the deck and goes up with the trailer to retail material as tipper is in operation.
- Tension springs will keep the nets from sagging too much over time.

The tipping area will be continuously observed for spilled waste. Spilled waste will be immediately collected and moved to the tipping floor.

7. Additional discussion has been added regarding management of incoming waste (Page 3). Equipment used to stack waste into 21 foot tall piles has been described (Page 3).

Front end loaders and/or excavating machines will be used to move waste around on the tipping floor, and to load the process line entry conveyors. This equipment will assist tipping floor workers in sorting and moving various wastes to required locations. This equipment will also be used to stack waste to required heights for storage.

The use of push walls has been identified (Page 4). Push walls have been shown on the floor plan (Sheet A02).

8. Additional discussion has been added regarding handling and transportation of RDF and solid waste destined for a landfill (Page 5). Landfill waste and RDF will be loaded using conveyors into transport trucks and shipped to end users. When necessary, trucks can back into the operating floor through the two floor elevation doors to be loaded using front end loaders.

Emptying the tipping floor in case of an equipment malfunction has been addressed (Page 4). In the event that the tipping floor needs to be emptied of waste, front end loaders and/or excavators will be used to load transport trucks directly from the tipping floor.

9. Figures 8 and 9, and Tables 3 and 4 are consistent with the new equipment arrangement.

- 10. The primary landfill has been designated as the Waste Management Countryside Landfill in Grayslake, Illinois. An alternative landfill has been identified as Newton County Landfill in Brook, Indiana (Page 7).
- 11. The Contingency Action Plan has been revised (Page 7):
 - a. No adjustment of incoming, outgoing, and salvaged waste storage volumes are required due to the change in equipment arrangement.
 - b. Included are the maximum inventory of salvaged or processed materials (Page 7, Figure 9, and drawing A31). Included are:
 - 1,007 tons of MSW waste on tipping floor.
 - 601 tons of C&D waste on tipping floor. This may include up to 20 tons each of sorted concrete, sorted shingles, sorted wood.
 - 82 tons of plastic bales.
 - 85 tons of paper bales.
 - 61 tons of cardboard in bales.
 - 10 tons of aluminum bales.
 - 33 ton of glass in roll off bins.
 - 20 tons of ferrous metals in roll off trailer.
 - 20 tons of small concrete in bins.
 - 180 tons of shredded wood.
 - 20 tons of C&D processed waste for landfill in roll off trailer.
 - 80 tons of RDF in trucks for transport.
 - c. Also included is clearing the tipping floor of MSW in case of an unplanned equipment shutdown (Page 8). In the event that the tipping floor needs to be emptied of waste, front end loaders and/or excavators will be used to load transport trucks directly from the tipping floor.
- 12. A description of the dust collection system for the facility (including the wood grinder) has been provided. A drawing of the dust collection system has been provided (Pages 8 & 13, and Sheet M04). The facility will be served by dust collection ductwork and a baghouse.
- 13. The designated area for storage of bulky items has been identified on Sheet A31.
- 14. The Operations Plan has been revised to state that the facility tipping floor will be cleaned daily while the facility is in operation by wash-down (Page 9).
- 15. The Operating Hours section has been revised to consistently state facility hours of operation. Page 12.

The Facility will be manned continuously around the clock from 5:00 AM Monday until 3:00 PM Saturday. The Facility will be closed from 3:00 PM Saturday until 5:00 AM Monday.

The Facility will accept waste between at 5:00 AM and 5:00 PM Monday through Friday, and between 5:00 AM and 12:00 noon on Saturday.

Material will be processed on the equipment lines from 7:00 AM to 11:00 PM Monday through Friday, and from 7:00 AM to 3:00 PM on Saturday.

The facility will be open to the public to drop off waste from 8:00 AM to 4:00 PM Monday through Friday and from 8:00 AM to 12:00 noon on Saturday.

- 16. An inspection schedule for various inspections, which may be daily, weekly, monthly, or annually has been provided (Page 17). Visual inspections will be performed daily, and will consist of cleaning around equipment & sorting stations, and cleaning trommel screens. Weekly inspections will consist of lubricating equipment and checking tracking of conveyor belts. Monthly inspections will include inspection of injection bearing on optical and eddy current sorters. The hydraulic coil on the baler will be maintained on an annual basis.
- 17. Signs will be provided to identify the time that the facility is open to accept waste and the schedule of fees per 329 IAC 11-13.5-4(b)). (Page 18.)
- 18. The storage of salvaged materials has been listed and shown (Page 18 and Sheet A31).
 Plastic, paper, cardboard, and aluminum will be stored in bales. Ferrous metals, glass, and miscellaneous waste for landfill or shipping to a third party processor will be stored in roll off bins. This will include concrete, shingles, and unusable wood. Shredded wood will be stored on the floor. RDF will be moved directly from the process line via conveyor to transport trucks.
- 19. The Closure and Post-Closure Plan cost estimate has been revised to consider the cost of closure by a third party to address the following:
 - a. An estimate of the cost to load and transport waste from the facility.
 - b. Revised waste disposal volumes.
 - c. Assumption that it may be necessary to dispose of C&D, RDF, paper, cardboard, shredded wood waste, and any other salvaged wastes at a landfill.
 - d. The cost of conducting and reporting post-closure inspections.

Solid Waste Processing Facilities Signatures and Certification Statements for Requested Additional Information

329 IAC 11-9-3(d) requires that the signatory of a solid waste processing facility permit application and of other information requested by or on behalf of the Commissioner (including the supplemental information requested by our office for your processing facility permit application) sign the following certification statement:

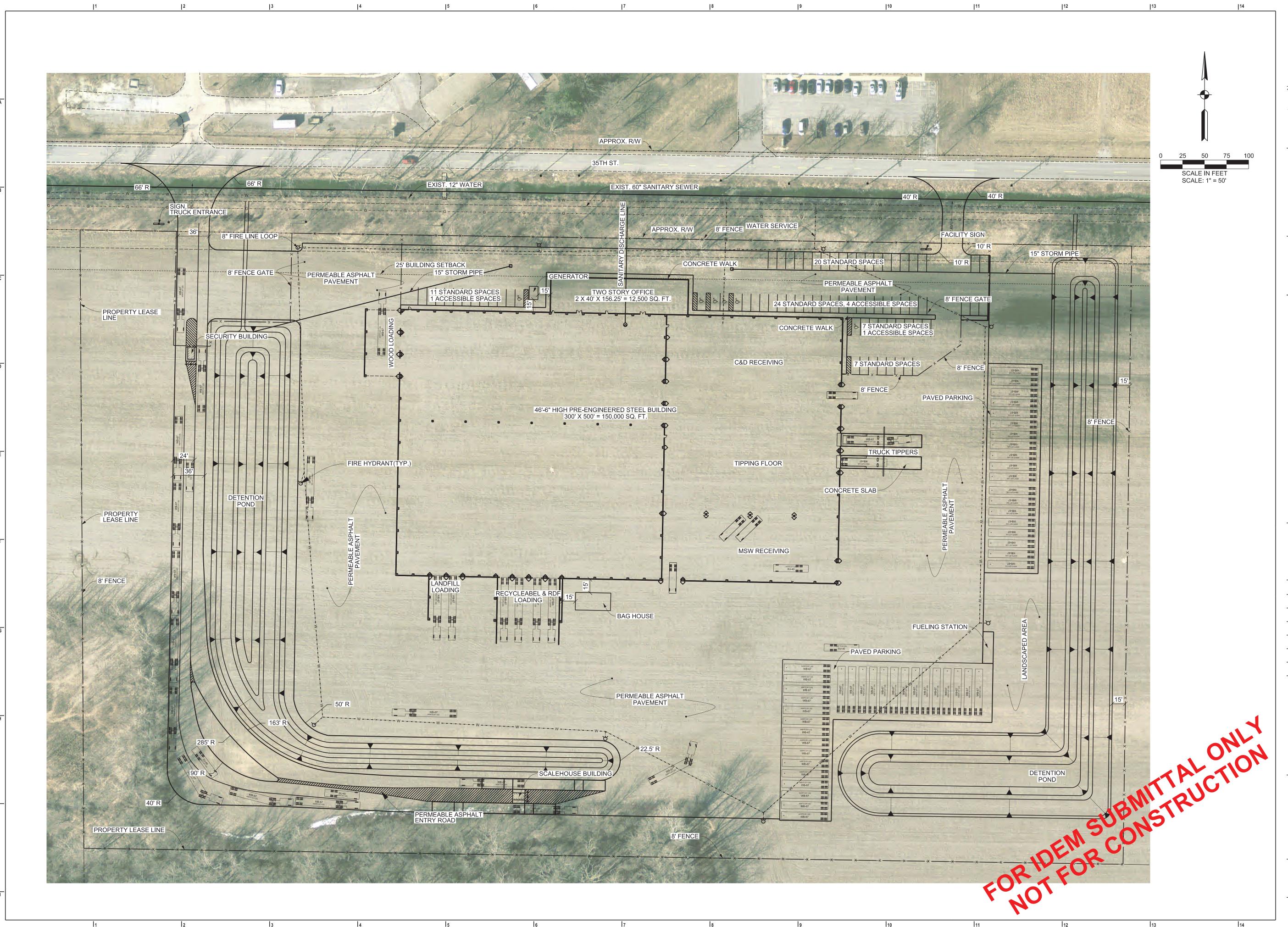
"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who managed the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that I am authorized to submit this information."

APPLICANT'S SIGNATURE

1-30-18

JAMES VENTURA

Note: It is not necessary to submit this form if an equivalent signed certification statement is incorporated into your submittal.





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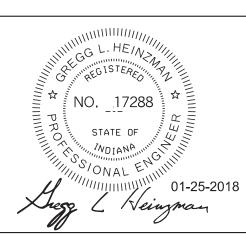
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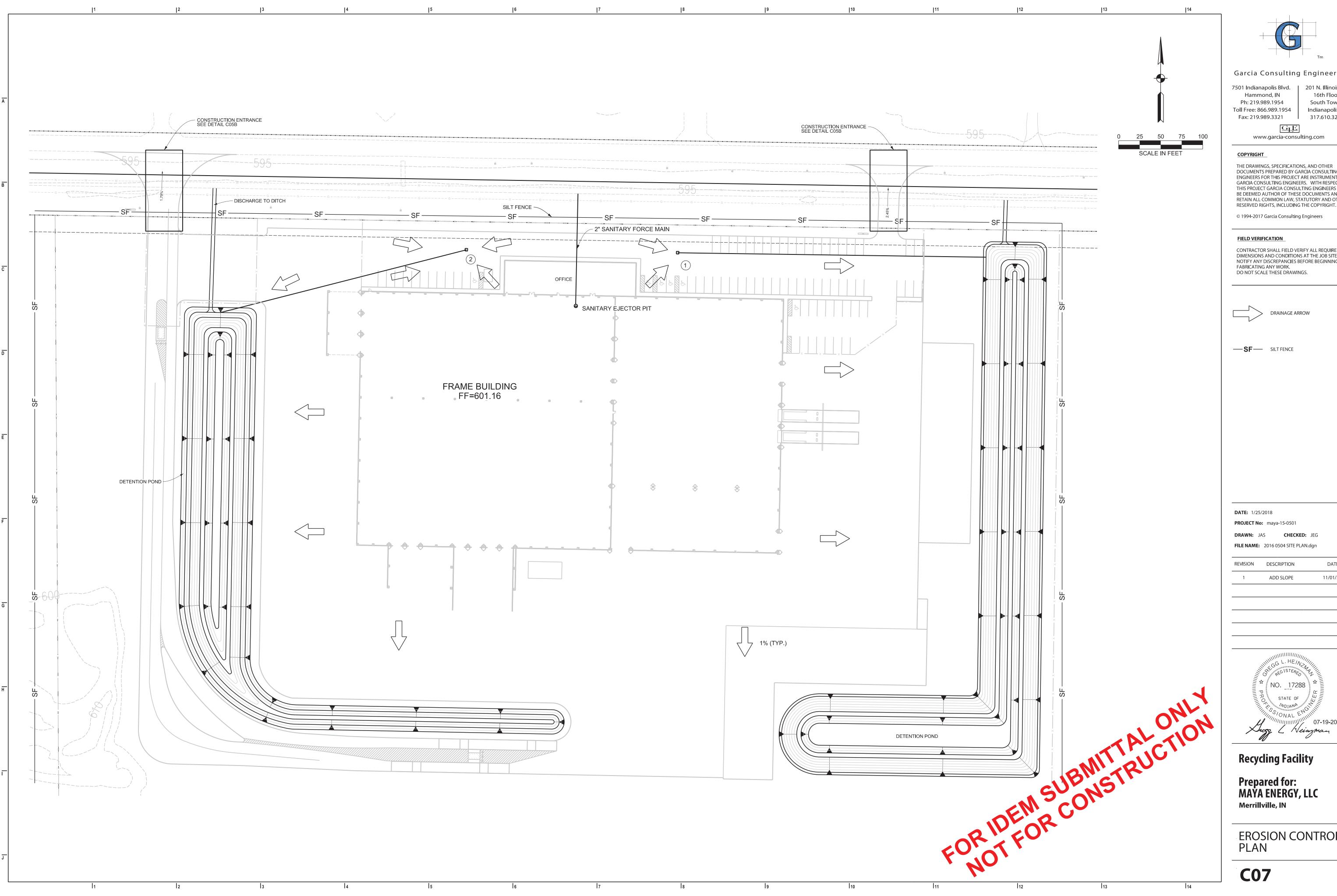
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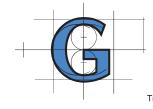


Recycling Facility

Prepared for: MAYA ENERGY, LLC Merrillville, IN

SITE PLAN





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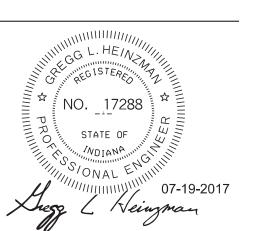


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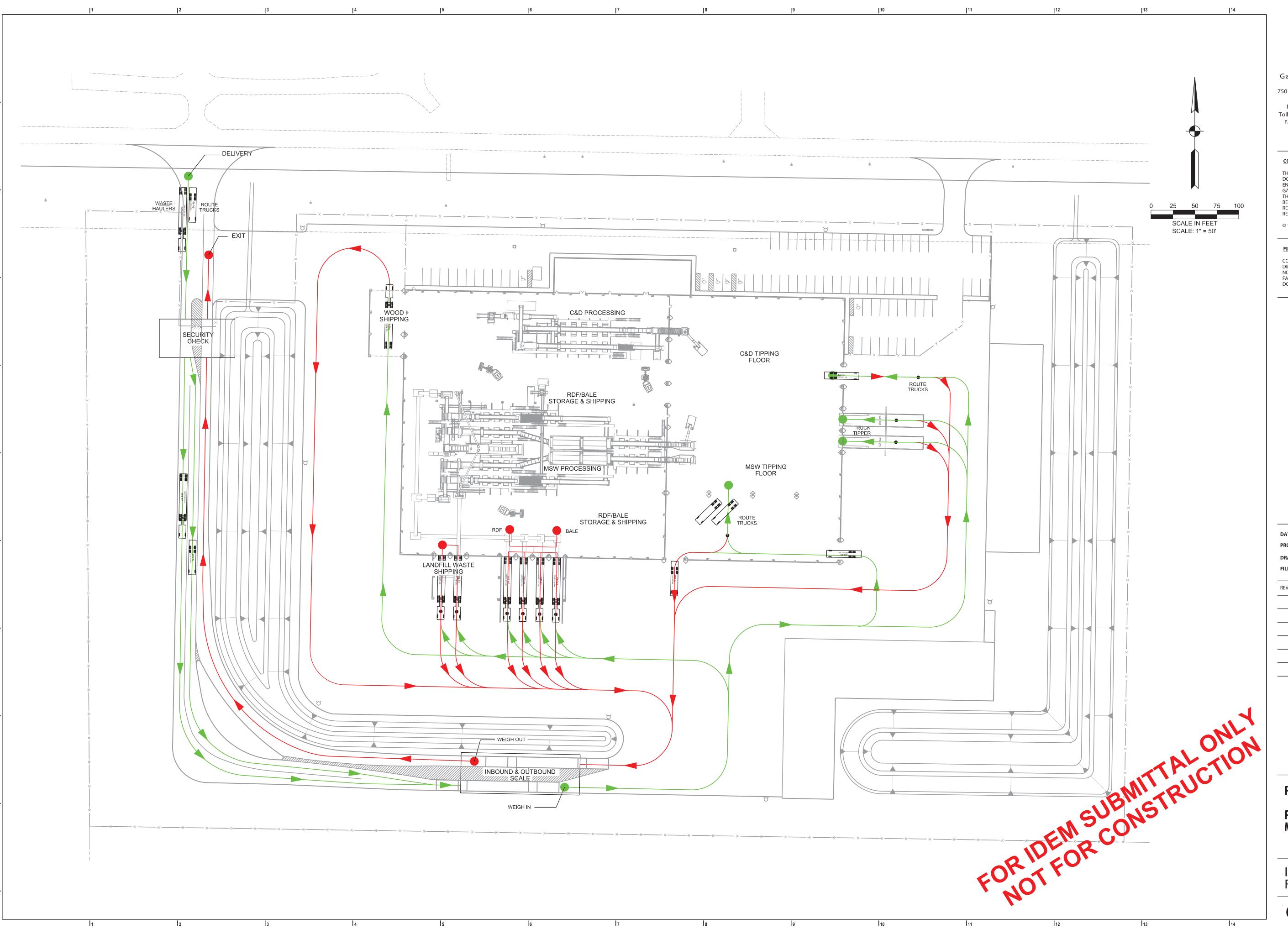
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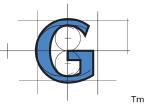


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EROSION CONTROL PLAN





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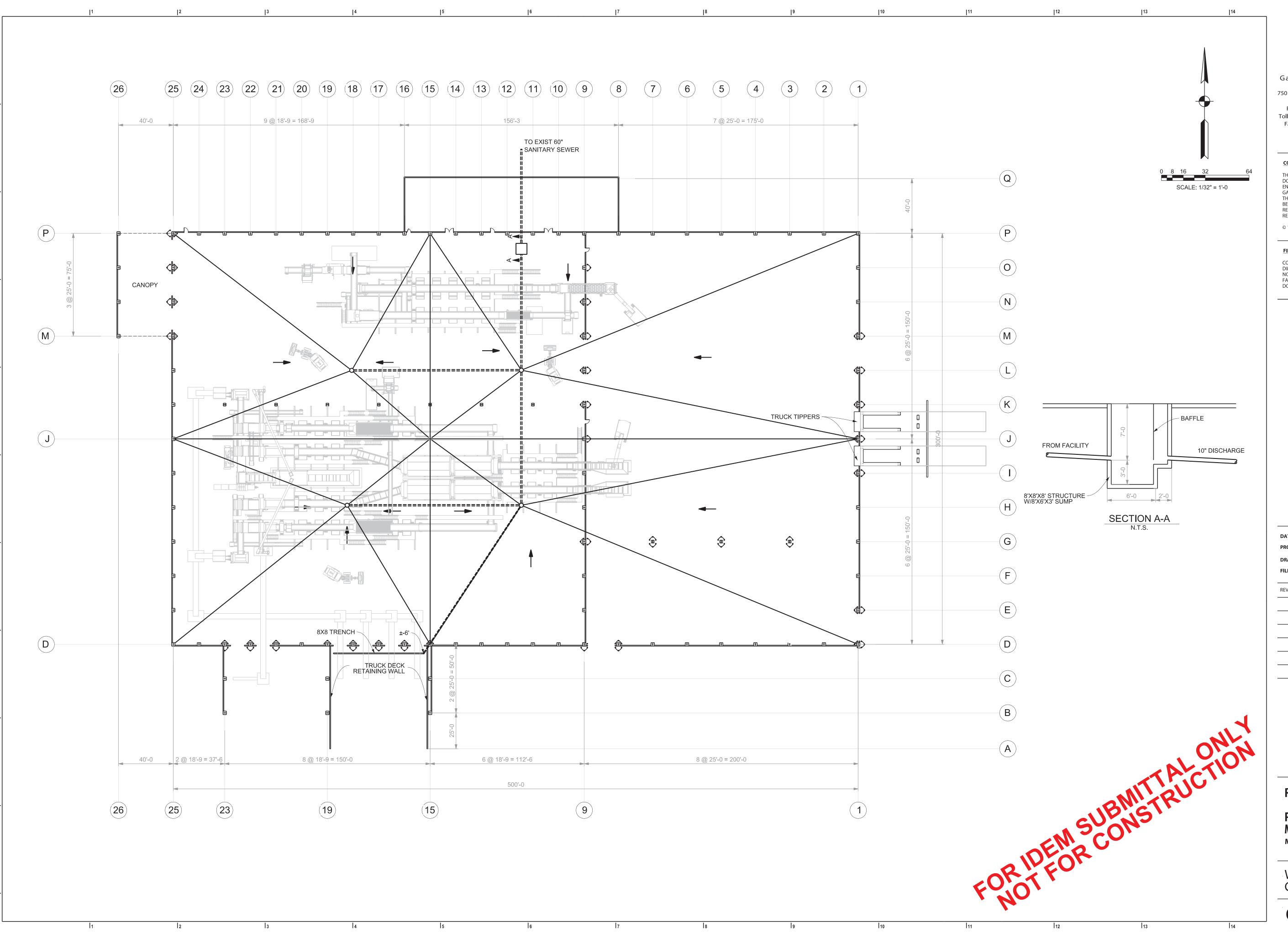
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INTERNAL TRUCK **FLOW**





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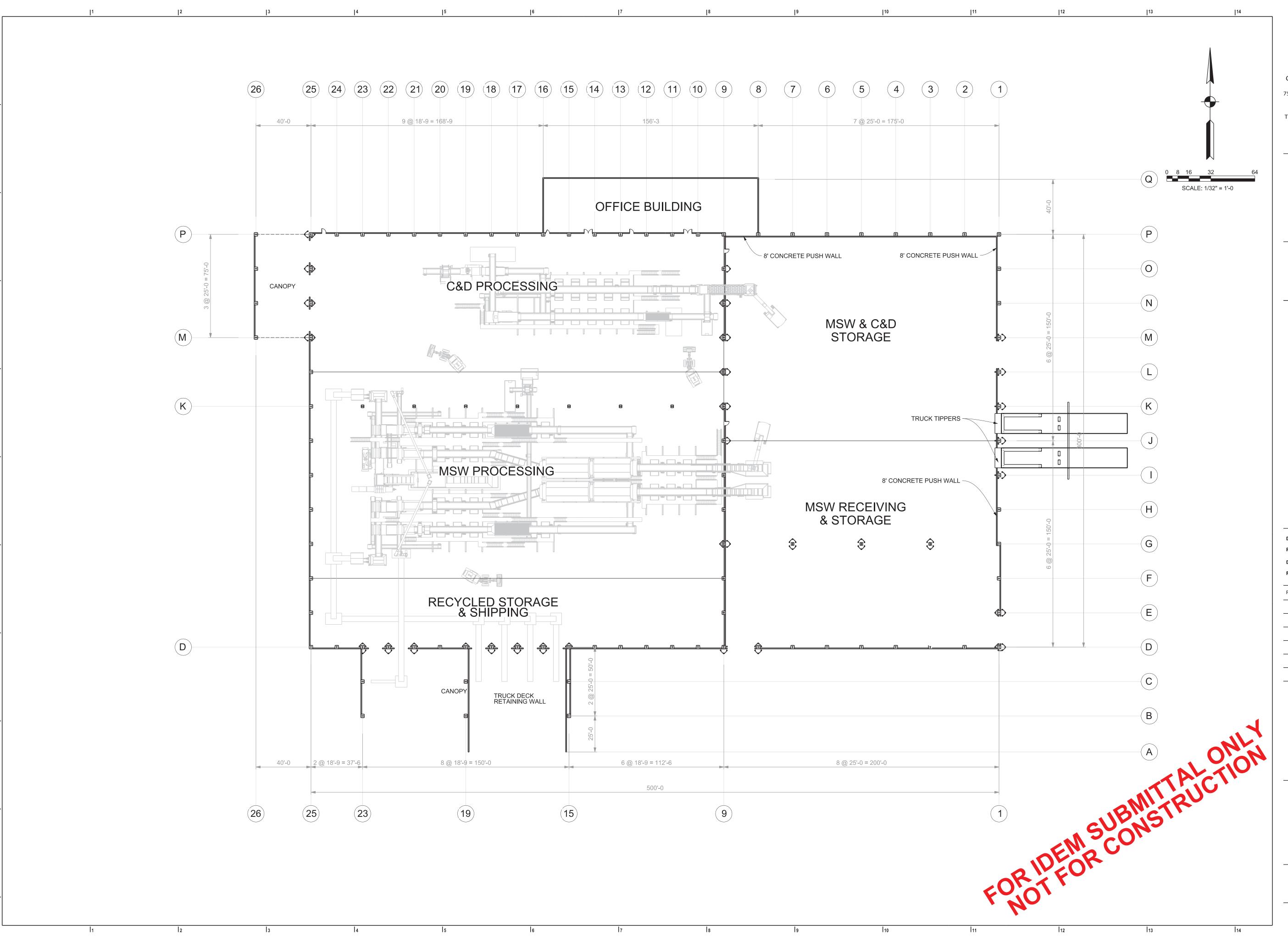
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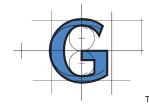
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WASTE WATER COLLECTION PLAN





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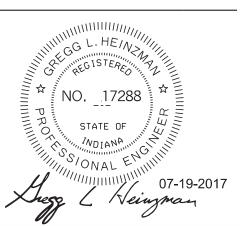
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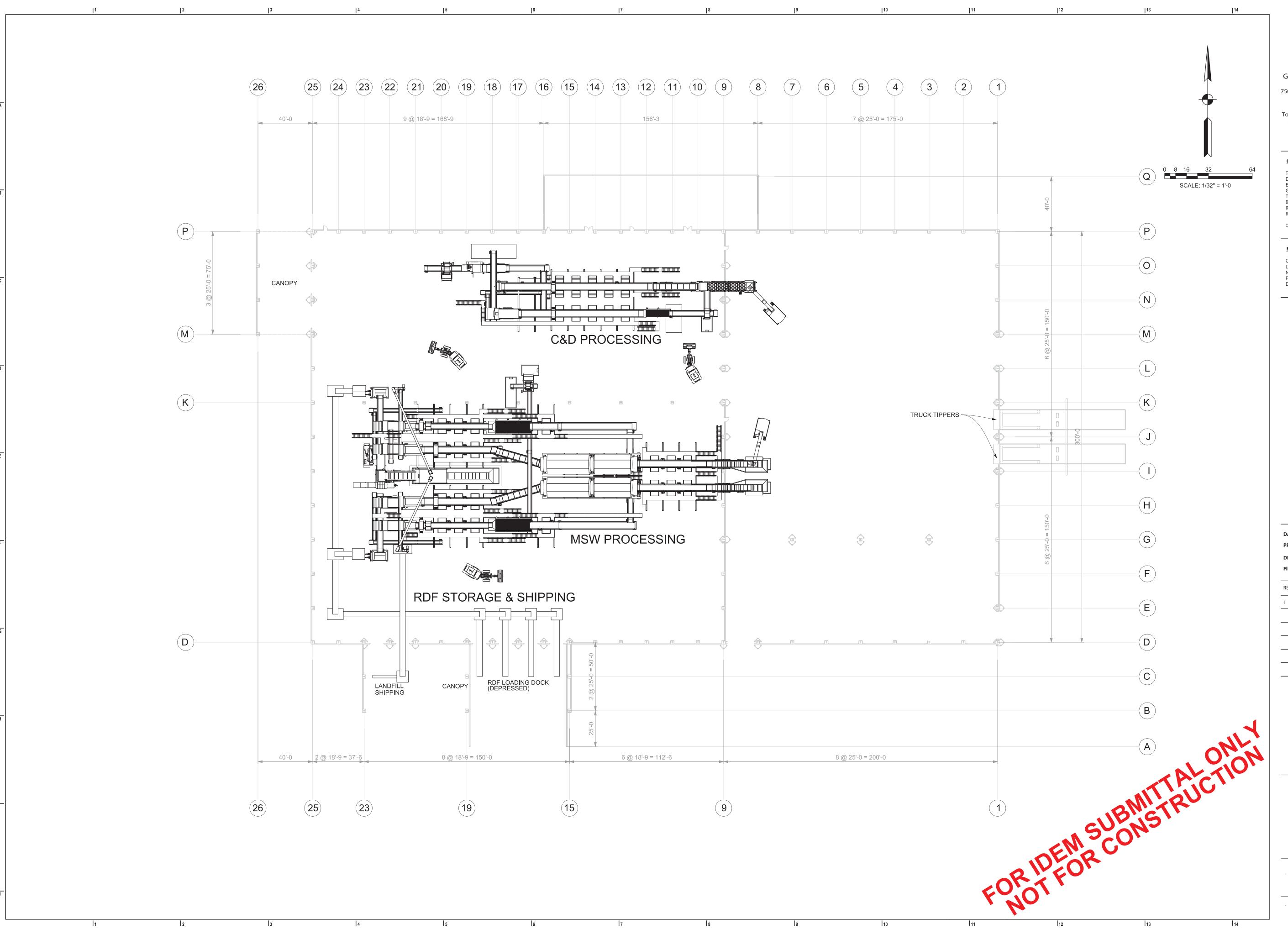
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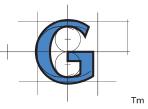


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BUILDING FLOOR PLAN





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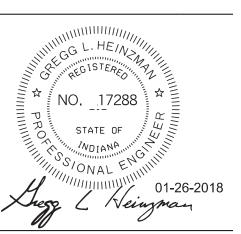
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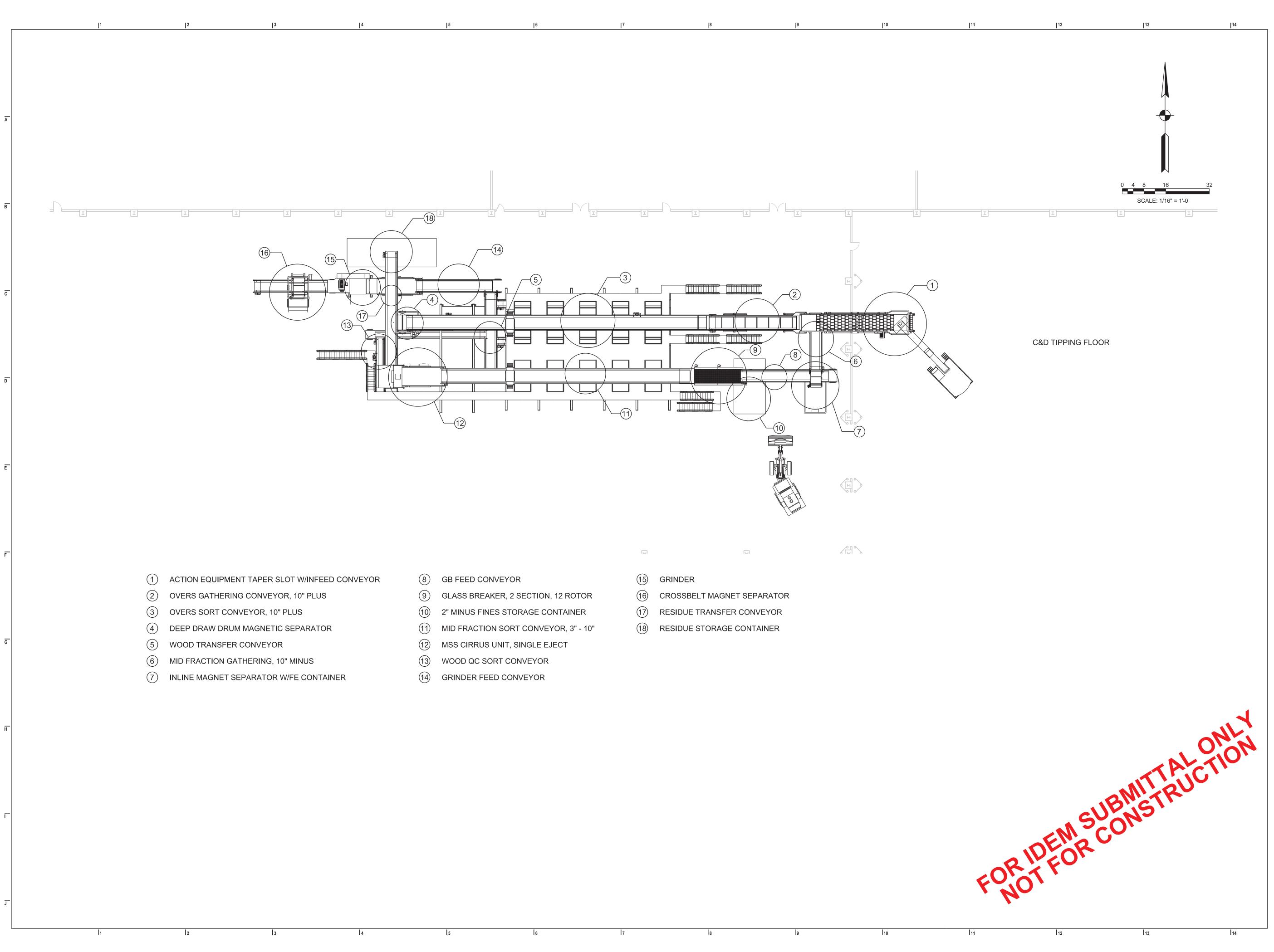
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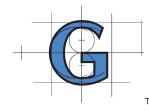


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EQUIPMENT LAYOUT





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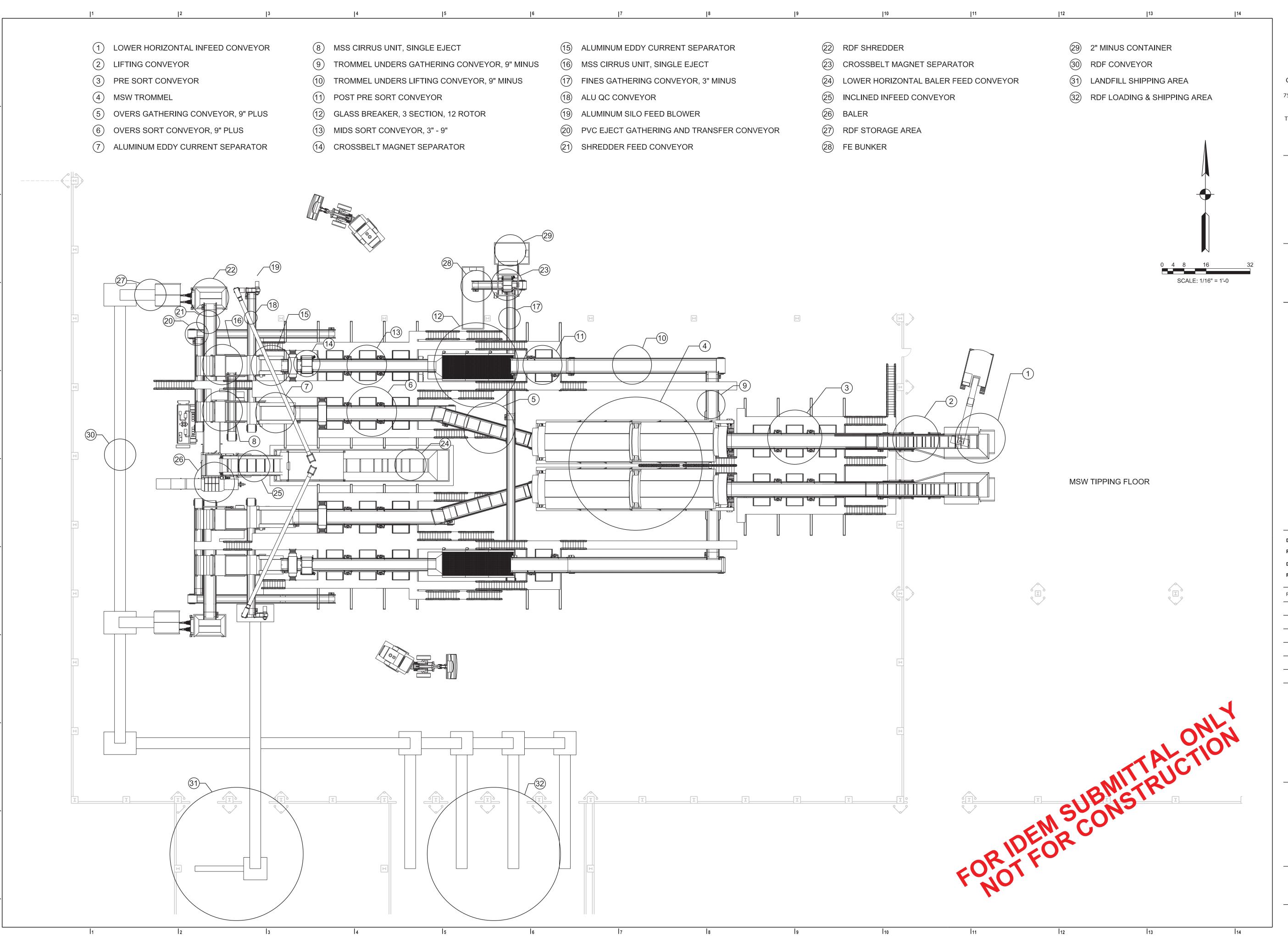
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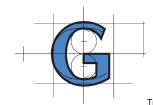
REVISION DESCRIPTION

Recycling Facility

Prepared for: MAYA ENERGY, LLC Merrillville, IN

C&D LINE LAYOUT





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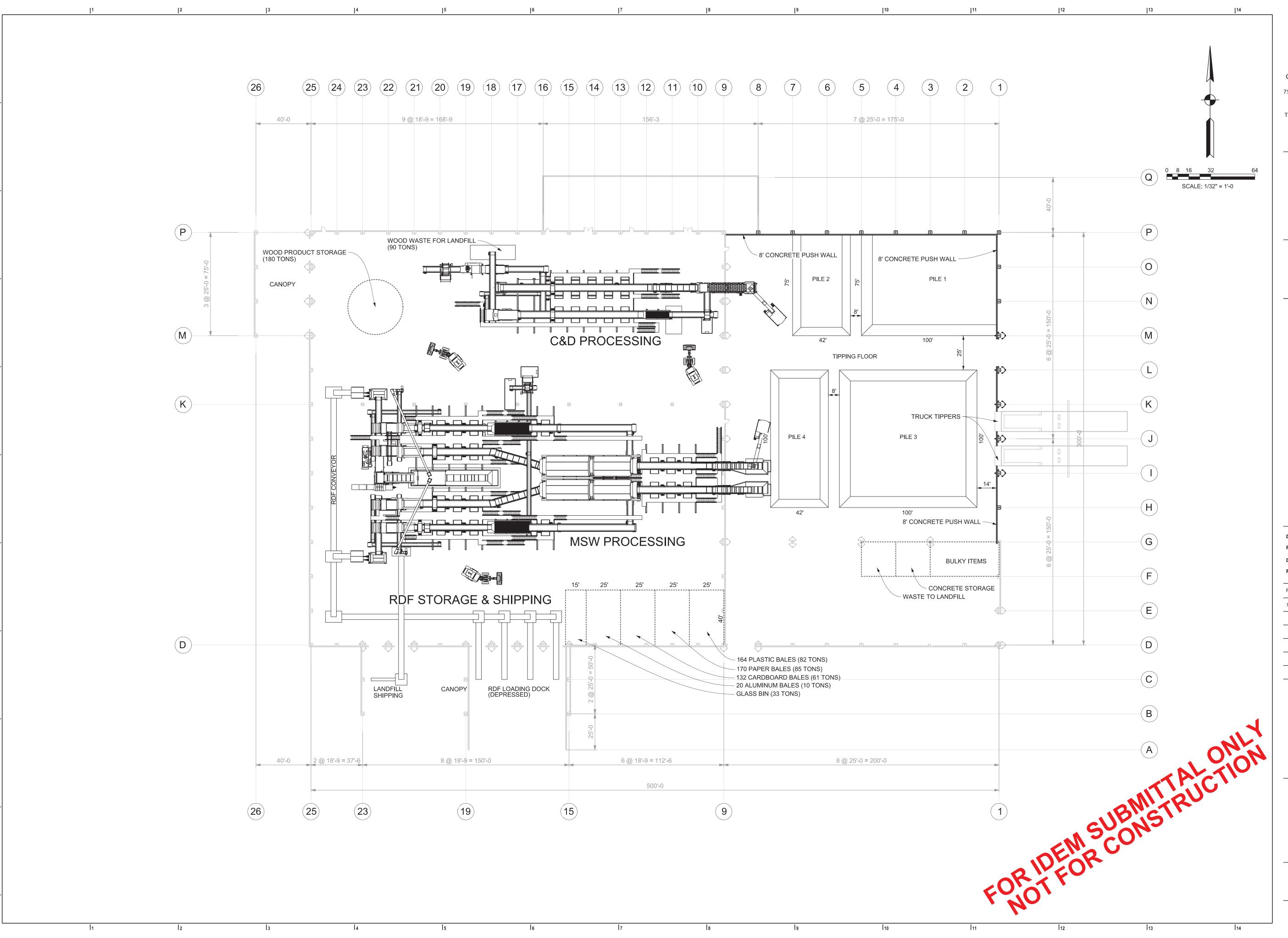
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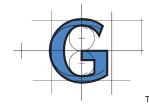
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Recycling Facility

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MSW LINE LAYOUT





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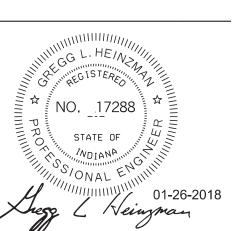
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DATE: 1/29/2018

PROJECT No: maya-15-0501

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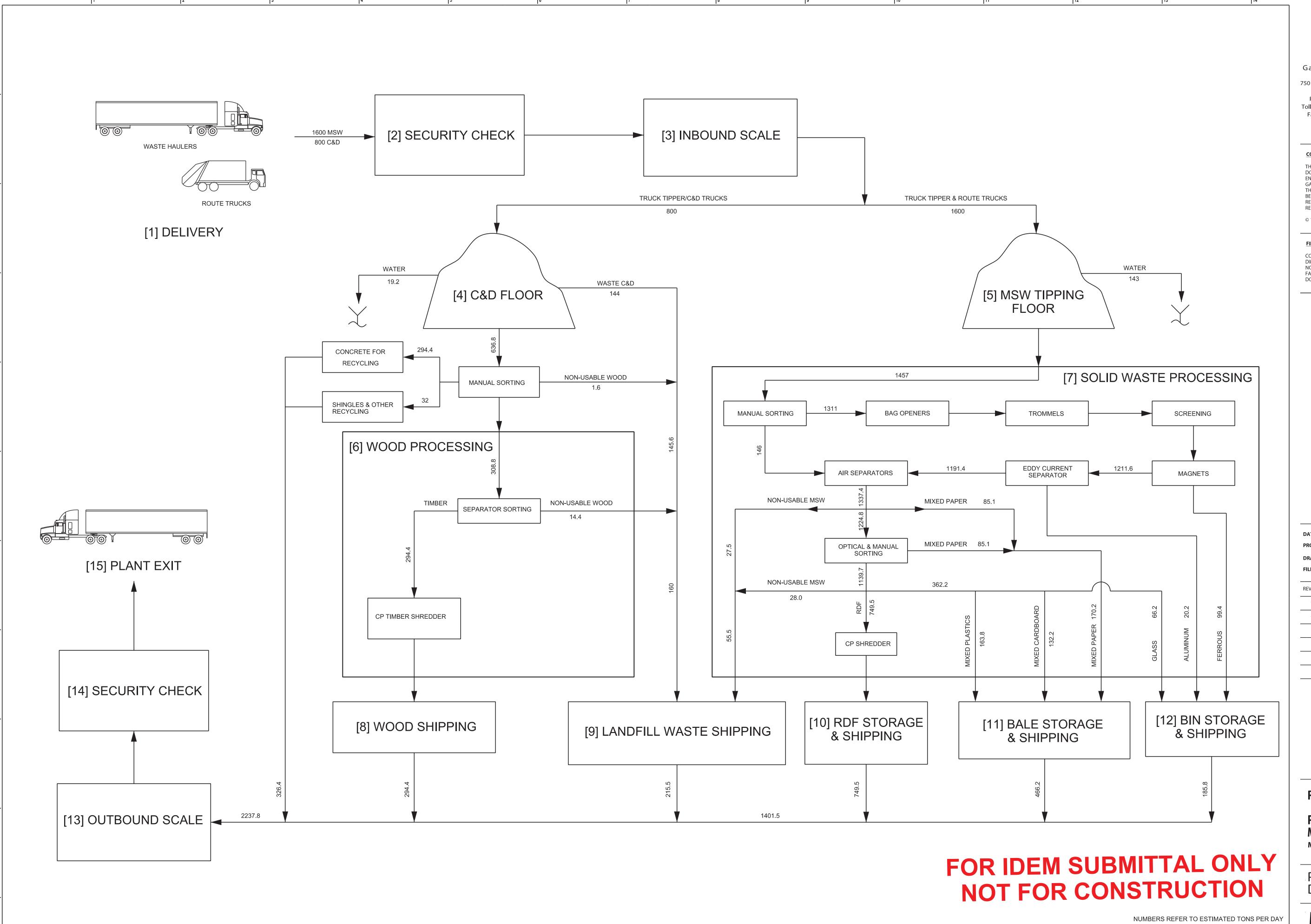
REVISION DESCRIPTION REV. EQUIPMENT



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STORAGE PLAN





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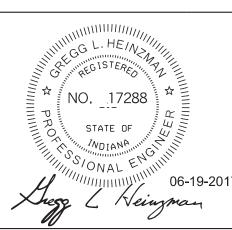
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DATE: 1/26/201

JECT NO: maya-15-050

ENAME: 2016 0414 Process Flow Diagran

1 ADD FLOW RATES 06/19/17

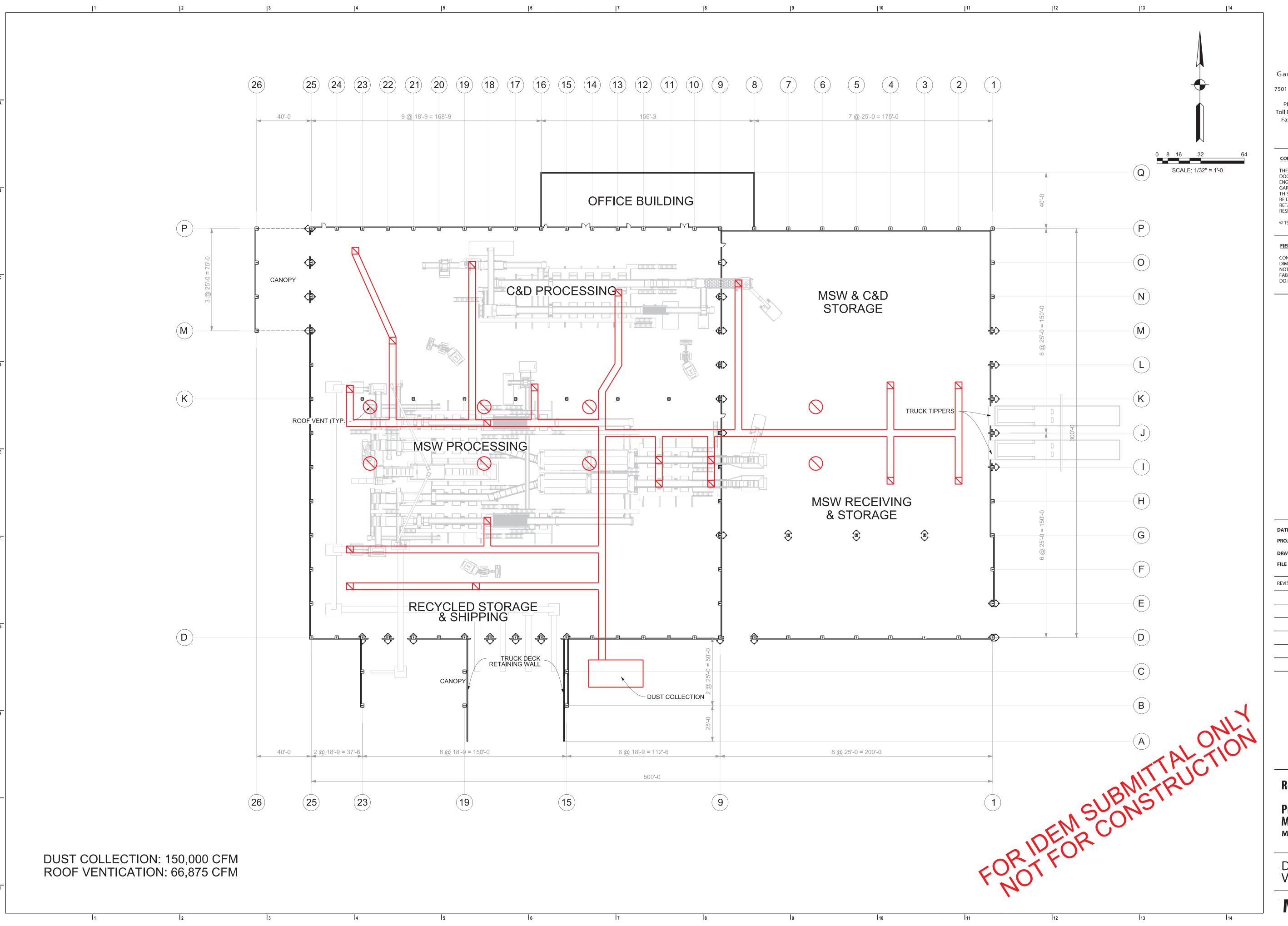


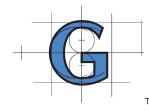
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PROCESS FLOW DIAGRAM

M02





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REVISION DESCRIPTION

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DUST COLLECTION & VENTILATION PLAN

M04