

ADDENDUM No. 3

RFP No. 980

Interim Operation of Ann Arbor Material Recovery Facility (MRF) and Waste Transfer Station

Due: October 28, 2016 at 2:00 P.M.

The following changes, additions, and/or deletions shall be made to the Request for Proposal for Interim Operation of Ann Arbor Material Recovery Facility (MRF) and Waste Transfer Station RFP No. 980 on which proposals will be received on/or before October 28, 2016 by 2:00 P.M.

The information contained herein shall take precedence over the original documents and all previous addenda (if any), and is appended thereto. **This Addendum includes 5 page(s) plus attachments.**

Offeror is to acknowledge receipt of this Addendum No. 3, including all attachments in its Proposal by so indicating in the proposal that the addendum has been received. Proposals submitted without acknowledgement of receipt of this addendum will be considered nonconforming.

The following forms provided within the RFP Document must be included in submitted proposal:

- City of Ann Arbor Non-Discrimination Ordinance Declaration of Compliance
- City of Ann Arbor Living Wage Ordinance Declaration of Compliance
- Vendor Conflict of Interest Disclosure Form

Proposals that fail to provide these completed forms listed above upon proposal opening will be deemed non-responsive and will not be considered for award.

I. CORRECTIONS/ADDITIONS/DELETIONS

Changes to the RFP documents which are outlined below are referenced to a page or Section in which they appear conspicuously. The Bidder is to take note in its review of the documents and include these changes as they may affect work or details in other areas not specifically referenced here.

Section/Page(s)

Change

All mentions

As provided in RFP Document Addendum #2:
Proposal Due Date: October 13, 2016 at 2:00 P.M.
Interviews (if needed): TBD
Selection: TBD

As updated herein:
Proposal Due Date: October 28, 2016 at 2:00 P.M.
Interviews (if needed): TBD
Selection: TBD

Comment: The Due Date and Time for responses to this RFP has been extended to Thursday, October 28, 2016 at 2:00pm. Tentative time frames for Interviews and Selection have been pushed back as well as outlined above. Note that all other dates are unchanged.

II. QUESTIONS AND ANSWERS

Question 1: It remains unclear if proposer's *must* propose baling of the recyclable materials. Is this a "must" or can proposers propose only alternative processes?

Answer 1: The City issued RFP directs the recycle material to be baled at the MRF. An Offeror may propose an alternative method of handling the material and the merits of this proposal will be considered by the City during the review of the proposal. (See question #7 of Addendum #2)

Question 2: On what basis, specifically, does the city state its claim that loose loading of recyclables is less safe and efficient than baling? Wouldn't facility operators have a better sense of this than city officials?

Answer 2: Question is immaterial to the RFP.

Question 3: What is the source of the single stream material breakdown, by percentage, that was provided in Addendum 2? How was this data developed, and over what period of time?

Answer 3: Question is immaterial to the RFP.

Question 4: Will proposers have access to the MRF equipment assessment report prepared by Waste Management? If not, doesn't Waste Management's access to this information give them an unfair competitive advantage in quoting a price for interim MRF operations?

Answer 4: The MRF assessment report has not been started or completed as of the date of this Addendum #3.

Question 5: Apparently CP Manufacturing (the source of the Ann Arbor MRF's equipment) performed an assessment of the facility's equipment in the past year or two. Can this report be shared with proposers?

Answer 5: CP assessment report is attached.

Question 6: Can proposers get a copy of the regular maintenance schedule and costs per year for each major piece of equipment at the MRF in 2014, 2015 and the first six months of 2016?

Answer 6: The previous contractor performed maintenance and those records are not available. The city has maintained the vehicles since early July and those records were attached with Addendum #2. (See question #9 of Addendum #2)

Question 7: As owner of the facility, the city presumably has a list detailing the specific equipment in the MRF (e.g. Manufacturer, Model, Year). Can this be shared with proposers, so that the most accurate operating and price proposals can be submitted?

Answer 7: Please see RFP 980, Section II – Scope of Services, Sub-section 2. Objective, Moveable Equipment found on page 10 of the document.

Question 8: What is the total rated tonnage throughput of the City of Ann Arbor MRF per hour?

Answer 8: The original design of the throughput capacity of the sorting line equipment was 20 tons per hour. However, the actual throughput capacity of the equipment in its current condition may be less.

Question 9: At the pre-bid meeting on Friday, September 23 it was stated that third party recyclable and waste materials would not be allowed during the interim period. In the Addendum 2 response (question 35), the city said that the Offeror can propose and provide pertinent details regarding third party volumes and the merits of such proposal would be considered. Which is it? The pricing for interim operation of the Ann Arbor MRF will be *greatly* affected on whether merchant tonnages and up to what limits such materials will be allowed. Lack of clarity on the part of proposers in this regard will necessarily lead to higher risk and thus higher pricing.

Answer 9: The City goal and obligation is to handle City recyclable and waste materials. The City issued RFP directs the management of only the City's material, and not outside material. Proposers must be responsive to all the requirements of the RFP proposal, and all requirements of the RFP must be met. If the proposer has an alternate proposal in addition to the requirements of the RFP, such as accepting non-City materials, a proposer may propose the alternate(s) in detail, including the resulting cost increase or decrease.

Question 10: Is there a reason that the MRF and transfer station need to be opened on Saturdays 7:00 a.m. to 11:30 a.m. during non-holiday weeks, especially if only city tons will be accepted? Will the city-operated scalehouse be staffed during this time? If so, for what purpose? If not, what is the necessity for the facility operator to be "working" on-site?

Answer 10: It has been the City's past experience that the Operator of the MRF/TS has needed the additional hours to process materials, thus the stated hours included in the RFP. However, Proposers may propose a work plan that includes alternate work hours that doesn't require Saturdays on non-Holiday weeks in their work plan. The transfer station and MRF must be operational for a full workday on the Saturday following a City designated holiday. City designated holidays are Memorial Day, July 4, Labor Day, Thanksgiving and Christmas. The scalehouse is open all day on Saturday of city designated holiday weeks. In addition, the scalehouse is open on Saturdays from 8-12 during non-holiday weeks April, May and June only. All shipments entering and leaving the MRF/Transfer facility must be during hours the scalehouse operator is in attendance.

Question 11: Assuming a detailed city response to these and other questions by the end of business on Monday of next week (October 3) that gives all of seven business days for proposers to incorporate this new information into a salient proposal. Each additional day that an addendum is delayed means one less day for proposers to react/respond. Is this realistic given the scope and scale of services contemplated?

Answer 11: The RFP Proposal due date has been moved back an additional 2 weeks to Friday, October 28, 2016 at 2:00 pm.

Question 12: Does the city own the rolling stock?

Answer 12: Yes, the City owns the rolling stock

Question 13: Do all City trucks come to the Transfer Station?

Answer 13: Yes, all trash collected in the City comes to the Transfer Station.

Question 14: How many tons/hour does the sorting equipment handle?

Answer 14: It is designed to process 20 tons per hour of operation. However, the actual throughput capacity of the equipment in its current condition may be less.

Question 15: How many sorters would it take to accomplish 20 tons/hour?

Answer 15: The original documentation from the equipment manufacturer, indicates the original anticipated sorting station requirement. Please see attached, Sorter Requirements document. However, the actual requirement may vary and needs to be determined by the operator.

Question 16: Is third party tonnage being considered (both trash & recycling)?

Answer 16: Please see the Answer to Question #9.

Question 17: With exception of the current agreement already provided, can you please supply copies of all offers, proposals and letters of interest, including related pricing if any, from outside agencies and vendors directed to any city official the same related to the City's need for an interim or permanent operator for the MRF and transfer station including material processing and disposition?

Answer 17: This is immaterial to the RFP; records may be requested through the City's FOIA process.

Question 18: With exception of the current agreement already provided, can you please also provide copies of any City issued contracts or other forms of agreement with pricing for any agency or vendor acceptance of materials from the MRF and transfer station for processing or disposition after termination of the prior operating agreement?

Answer 18: This is immaterial to the RFP; records may be requested through the City's FOIA process.

Question 19: Can you please clarify and affirm responsibility for major component failures on the conveyors, rolling stock and balers? For example, the engine fails on the loader, a conveyor motor or chain failure not a result of improper use or lack of maintenance.

Answer 19: The City would be responsible for payment of equipment repairs, unless the repairs are necessary due to improper use or negligence of the contractor, including failure to perform routine maintenance, in which case the contractor will be responsible for those repair costs.

Question 20: Is the city or Contractor responsible for the maintenance and security of the building and grounds?

Answer 20: The Contractor is responsible for securing the building when not in use. The contractor is responsible for maintenance of the grounds, e.g. outside

housekeeping, snow removal. The City maintains the gates off of Platt and Ellsworth Roads. The City will complete snow removal on the access road only from Platt to Ellsworth Roads.

Question 21: Confirmation that City Employee in Scale House would be paid for by City and that employee would use Contractor provided computer and scale house software.

Answer 21: The Scale House attendant is an employee of the City and paid for by the City. They will use the contractor provided computer, scale house software and internet connection.

Question 22: Confirmation that Contractor shall have use of the Property outside the MRF and Transfer Station for uses (Parking, storage, ingress/egress, etc.)

Answer 22: The contractor shall have use of the MRF and Transfer Station parking lots, for parking and ingress/egress. Any outside storage of equipment, or recyclables will need to be preapproved by the City.

Question 23:

Confirmation that the City will continue to be responsible for:

Utilities

Janitorial and Housekeeping

Lawn mowing/snow removal

Property and Ground Maintenance

Storm Water Management

Answer 23: The City will be responsible for the utilities, cleaning of the bathrooms at the MRF/ Transfer once a week, lawn moving, storm water management. The contractor is responsible for snow removal and maintenance of the grounds, e.g. outside housekeeping, as it is tied to operations.

Question 24: Is the MRF Evaluation Report performed and if so may we receive a copy of it?

Answer 24: See answer to question #4.

Question 25: Can we get a schematic of the current MRF Single Stream Recycling equipment?

Answer 25: Please see the attached, reference only not for construction site plans. The City has no other plans concerning the equipment.

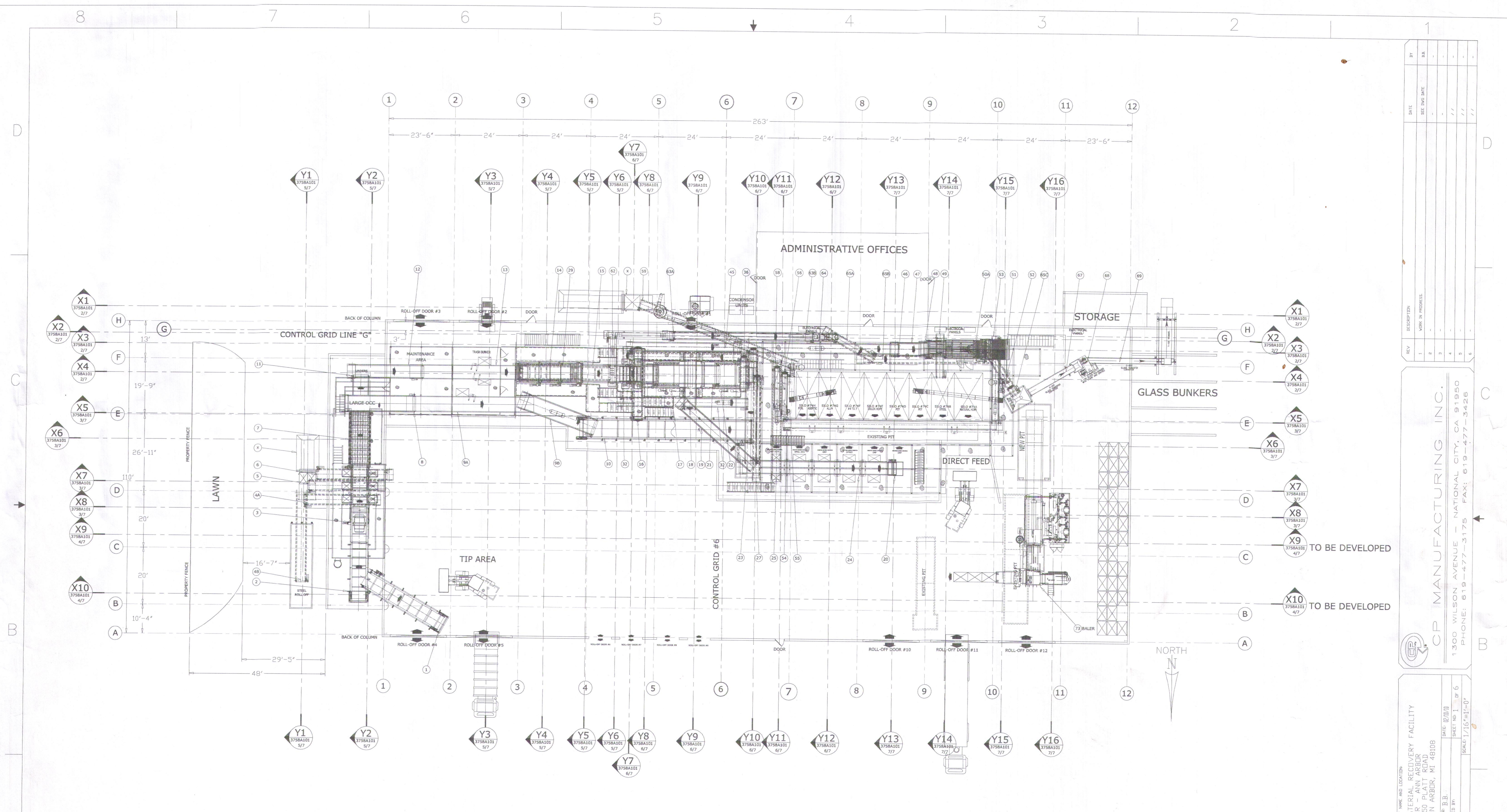
Respondents are responsible for any conclusions that they may draw from the information contained in the Addendum.

Sorter Requirements for FCR Ann Arbor Single Stream Sort System at 20 ton per hour:

Number of Sorter & Task per Sort Station for Residential Single Stream System

ID #	Station Name	Task – What the Sorter will be doing	Number Trained Sorter Required
PS-1	Single Stream Pre-Sort Station	Remove Trash / Film / Metal / Large Plastic	1
PS-2	Single Stream Pre-Sort Station	Remove Trash / Film / Metal / Large Plastic	1
PPS-3	Single Stream Post Pre-Sort	Remove Small OCC / Trash / Film / Large Plastic	1
PPS-4	Single Stream Post Pre-Sort	Remove Small OCC / Trash / Film / Large Plastic	1
FS-5	Large Fiber ONP Q.C. Sort Station	Remove OCC / Chips / Flat Containers / Trash / Film	1
FS-6	Large Fiber ONP Q.C. Sort Station	Remove OCC / Chips / Flat Containers / Trash / Film	1
FS-7	Large Fiber ONP Q.C. Sort Station	Remove OCC / Chips / Flat Containers / Trash / Film	1
FS-8	Large Fiber ONP Q.C. Sort Station	Remove OCC / Chips / Flat Containers / Trash / Film	1
FS-9	ADS / Middle Fiber Q.C. Sort Station	Remove OCC / Chips / Flat Containers / Trash / Film	1
FS-10	ADS / Middle Fiber Q.C. Sort Station	Remove OCC / Chips / Flat Containers / Trash / Film	1
FS-11	ADS / Middle Fiber Q.C. Sort Station	Remove OCC / Chips / Flat Containers / Trash / Film	1
FS-12	ADS / Middle Fiber Q.C. Sort Station	Remove OCC / Chips / Flat Containers / Trash / Film	1
PET-13	PET Quality Control Station	Remove Non-PET Plastic after MSS Optical Sorter	1
PET-14 (+Others)	Missed PET / #4-7 / Aseptic Sort Station	Remove PET Plastic and Other #4-7 Plastic / Aseptic	1
HDPEN-15	HDPE Natural Sort Station	Sort HDPE Natural into Storage Bunker/Pull Tetra	1
HDPEC-16	HDPE Color Sort Station	Sort HDPE Color into Storage Bunker/Pull Tetra	1
ALUM-17	Aluminum UBC Quality Control	Remove Non-Aluminum after Eddy Current	1
TRASH-18	Residue QC	Remove recyclables from residue (Plastics / Al /other)	1
OCC-19	Q.C. Large OCC on Residential Stream	Remove any prohibitive / outhrows from OCC	0
Total Number of Sorters:			18

Note: This chart does not include baler Q.C. personnel (just prior to baling) if necessary



IMPORTANT NOTES:

1. ALL REQUIRED PERMITS BY OTHERS.
2. ALL EQUIPMENT IN COMPLIANCE WITH BASIC OSHA/INTERNATIONAL BUILDING CODE 2006 SPECIFICATION AND NORTH CAROLINA BUILDING CODE 2009.
3. ALL SLAB, FOUNDATION AND EMBEDMENT DETAILS SHOWN ARE SUGGESTIONS ONLY. ACTUAL REQUIREMENTS MAY VARY DUE TO LOCAL SOIL AND/OR CONCRETE CONDITIONS. PURCHASER IS RESPONSIBLE FOR ADEQUATE STRUCTURAL DESIGN AND PROPER CONSTRUCTION OF PITS, SLABS, FOUNDATIONS AND EMBEDMENTS.
4. ALL CONCRETE SURFACES TO BE FLAT AND LEVEL WITHIN 1" IN 40'.
5. EXISTING FLOOR SLAB IS 6" THICK, REINFORCED, 4000 PSI CONCRETE PER INFORMATION RECEIVED FROM FCR DATED JANUARY 12, 2010.
6. SUMP PUMP MAY BE REQUIRED IN PIT FOR DRAINAGE. TO BE DETERMINED BY PURCHASER.
7. SLOPE FOR BETTER DRAINAGE IN PIT MAY BE REQUIRED. TO BE DETERMINED BY PURCHASER. TO BE SPECIFIED AND CONFIRM WITH CP MFG
8. ALL CONCRETE PUSH WALLS AND BUNKERS BY OTHERS.
9. SYSTEM DESIGNED WITH ACCOMMODATION OF THE EXISTING PLATFORMS AND EQUIPMENT.
10. EQUIPMENT VOLTAGE REQUIREMENTS; 460 VOLT / 3 PHASE / 60 HZ.
11. EQUIPMENT NOT LISTED ON CP-MFG EQUIPMENT LISTING OR SALES ORDER AND NOT SHOWN IN THIS DRAWING SUPPLIED BY OTHERS.

12. ALL DISCHARGE CONTAINERS SUPPLIED BY OTHERS. TO BE DETERMINED BY PURCHASER.
13. CP MANUFACTURING IS NOT RESPONSIBLE FOR FIELD WORK PERFORMED BY OTHERS.
14. DIMENSIONS DENOTED AS (+) ARE REFERENCE DIMENSIONS ONLY.
15. PAINT COLOR IS "TBD".

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SINGLE STREAM RETROFIT - JOB #3758
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MATERIAL RECOVERY FACILITY
 4150 PLATT ROAD
 ANN ARBOR, MI 48108

DATE: 02/10/11
 SHEET NO: 1 OF 6
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 MATERIAL RECOVERY FACILITY
 4150 PLATT ROAD
 ANN ARBOR, MI 48108

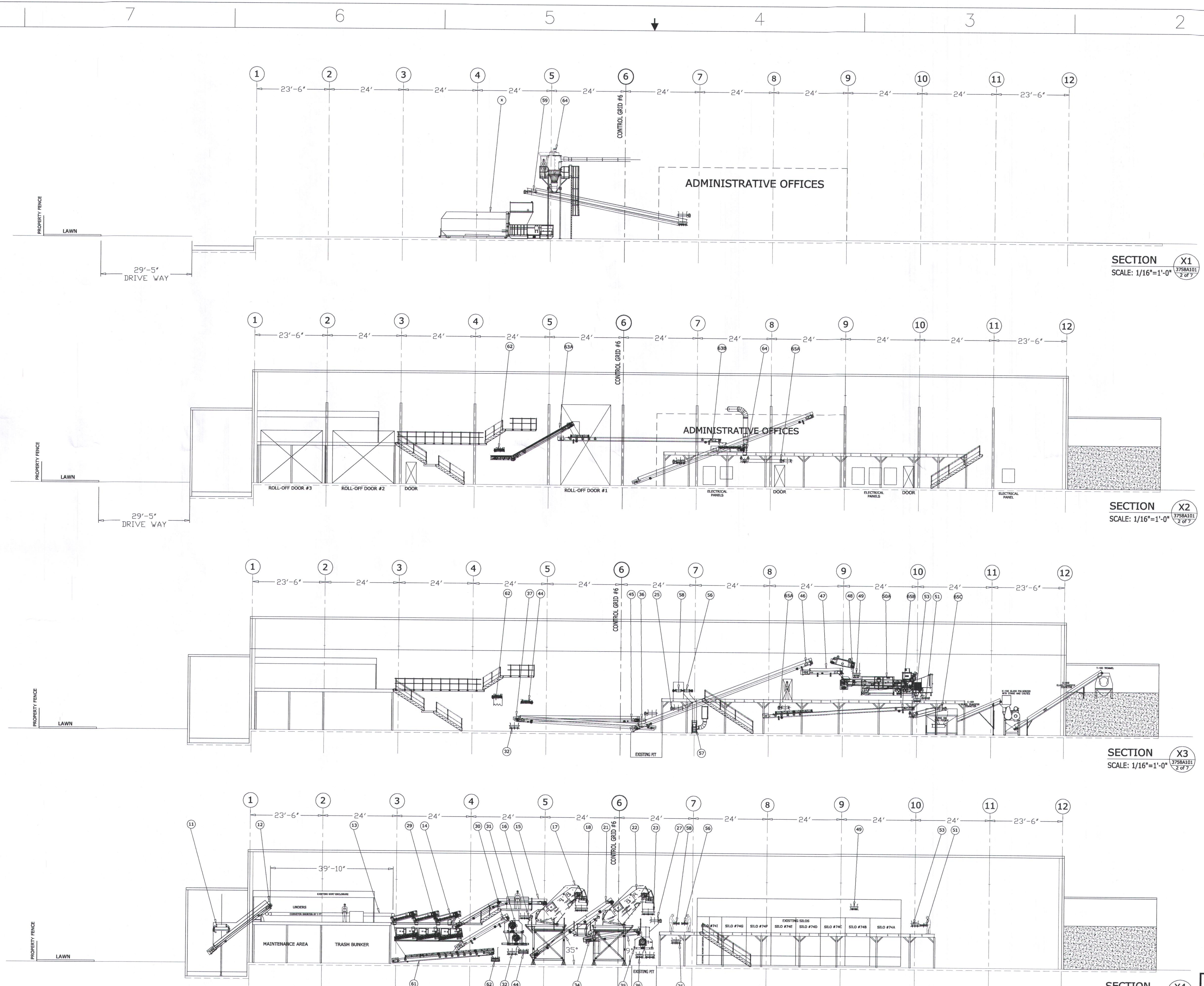
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 APPROVED BY: [Signature]

DATE: []
 SHEET NO: 1 OF 6
 DRAWING NO: 3758A101

EQUIPMENT LAYOUT - FLOOR PLAN

FCR - ANN ARBOR RECOVERY

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SECTION X2
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SECTION X3
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SECTION X4
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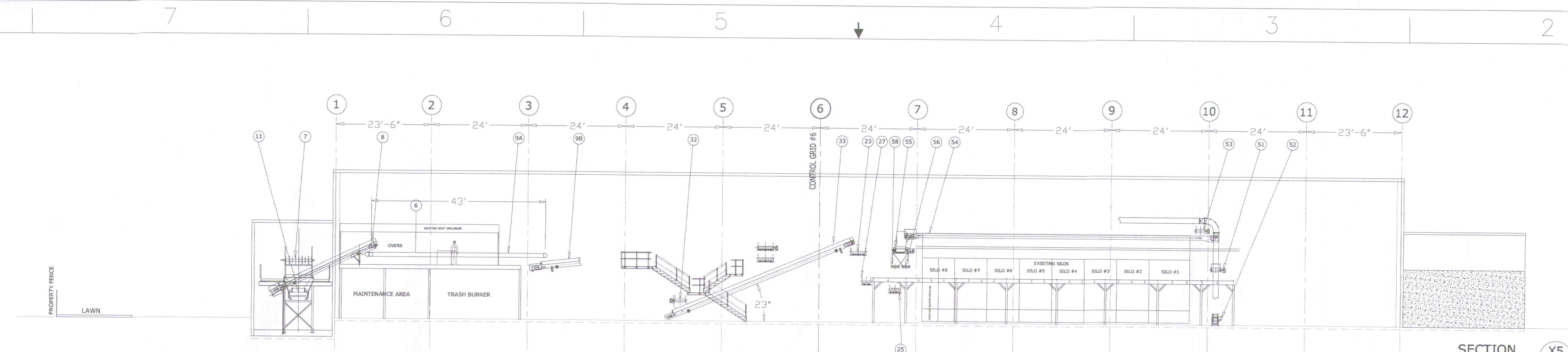
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MATERIAL RECOVERY FACILITY
FCR - ANN ARBOR
4150 PLATT ROAD
ANN ARBOR, MI 48108

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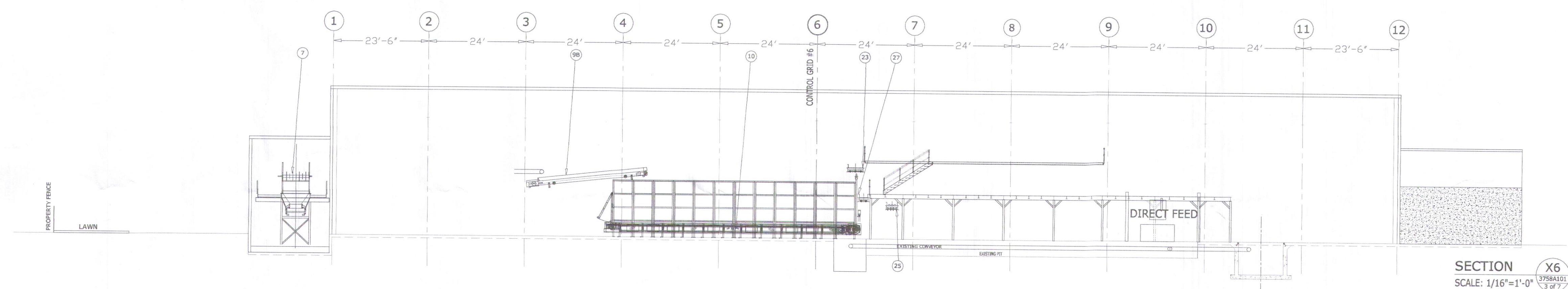
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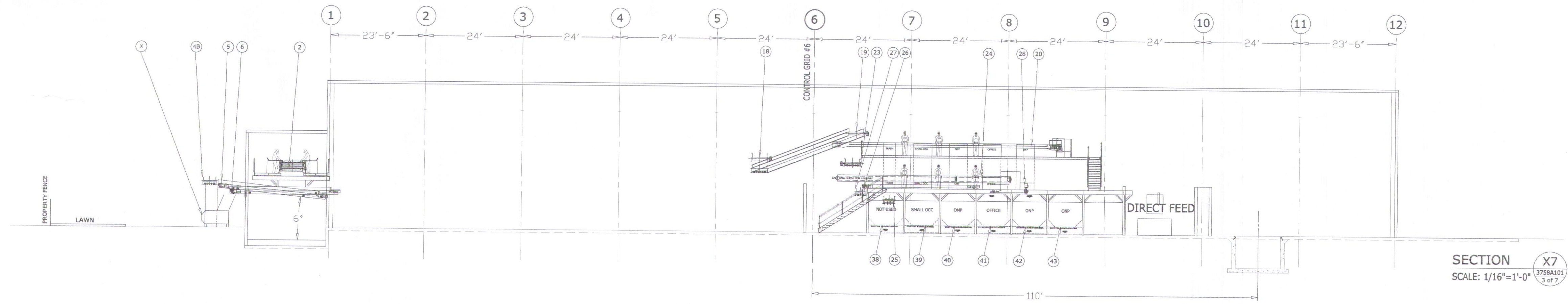
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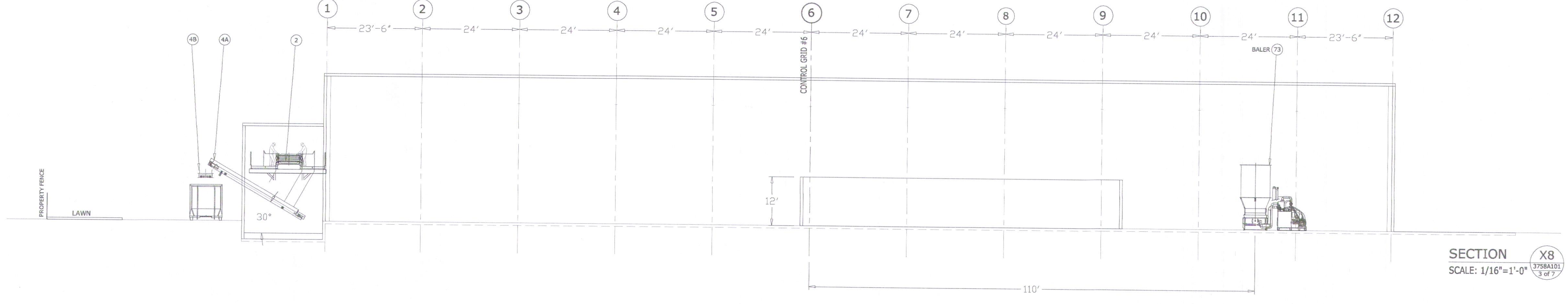
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SECTION X8
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PROJECT NAME AND LOCATION:
 MATERIAL RECOVERY FACILITY
 FCR - ANN ARBOR
 4150 PLATT ROAD
 ANN ARBOR, MI 48108
 DATE: 8/20/11
 SHEET NO. 3 OF 5
 SCALE: 1/16"=1'-0"

EQUIPMENT LAYOUT - SECTIONS X5-X8
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 FCR - ANN ARBOR RECOVERY
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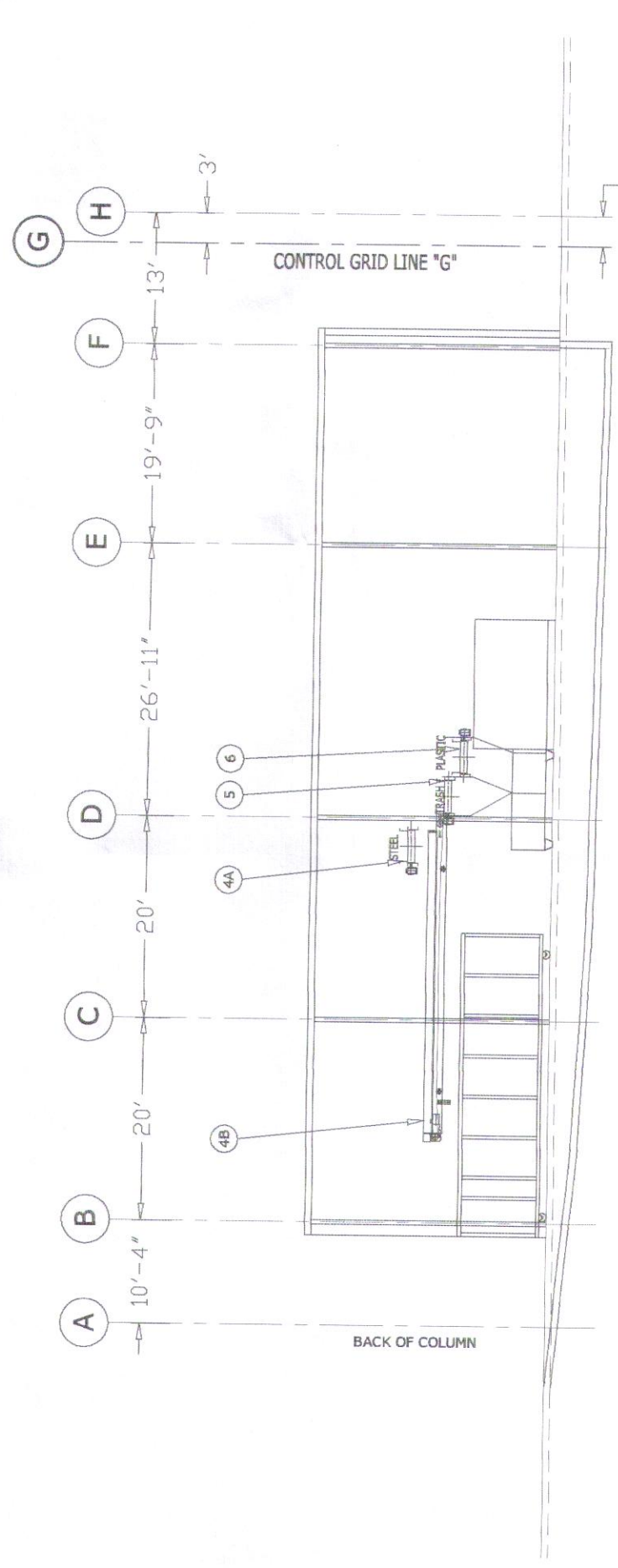
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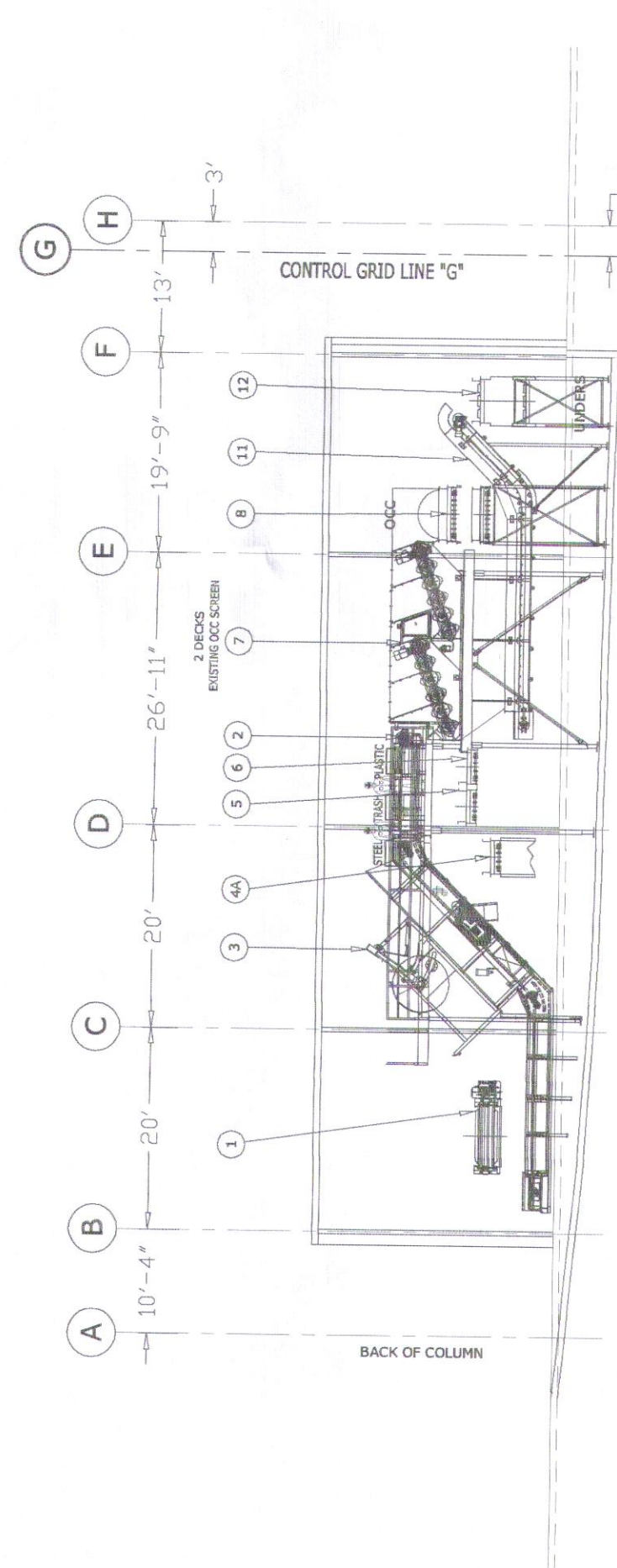
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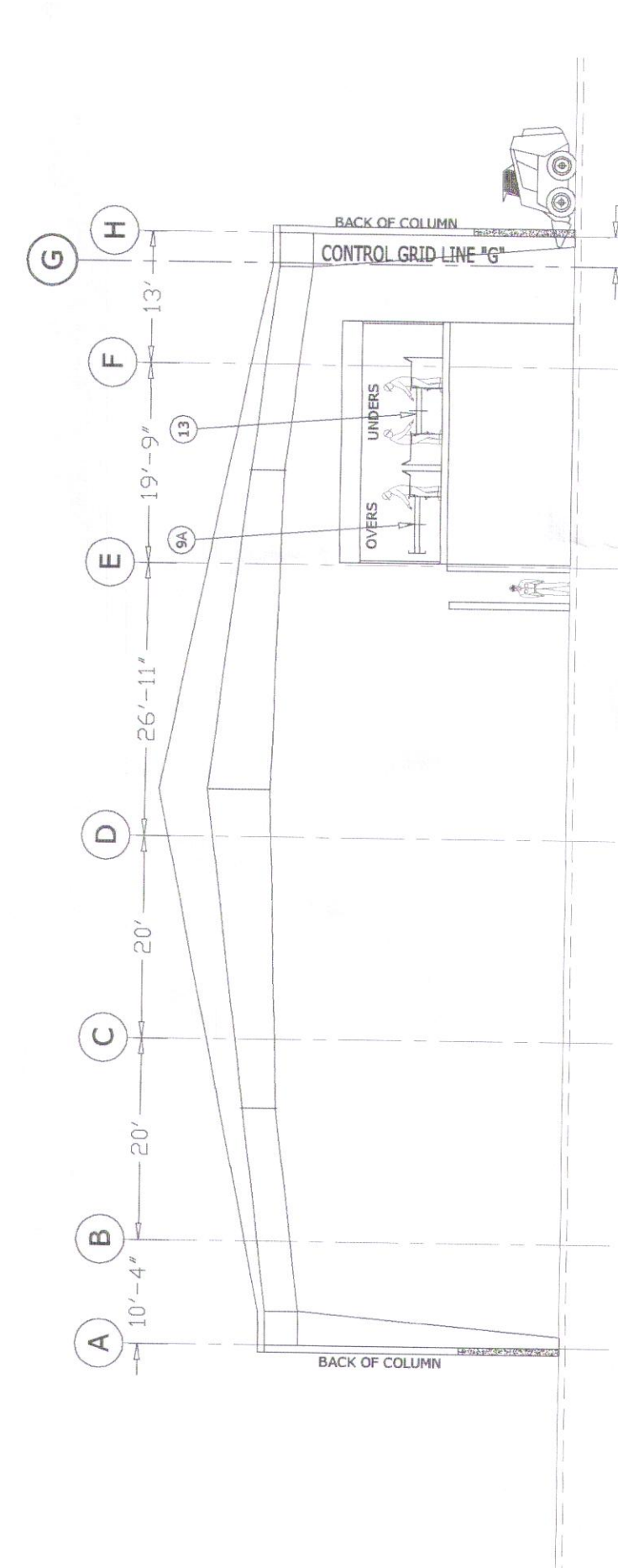
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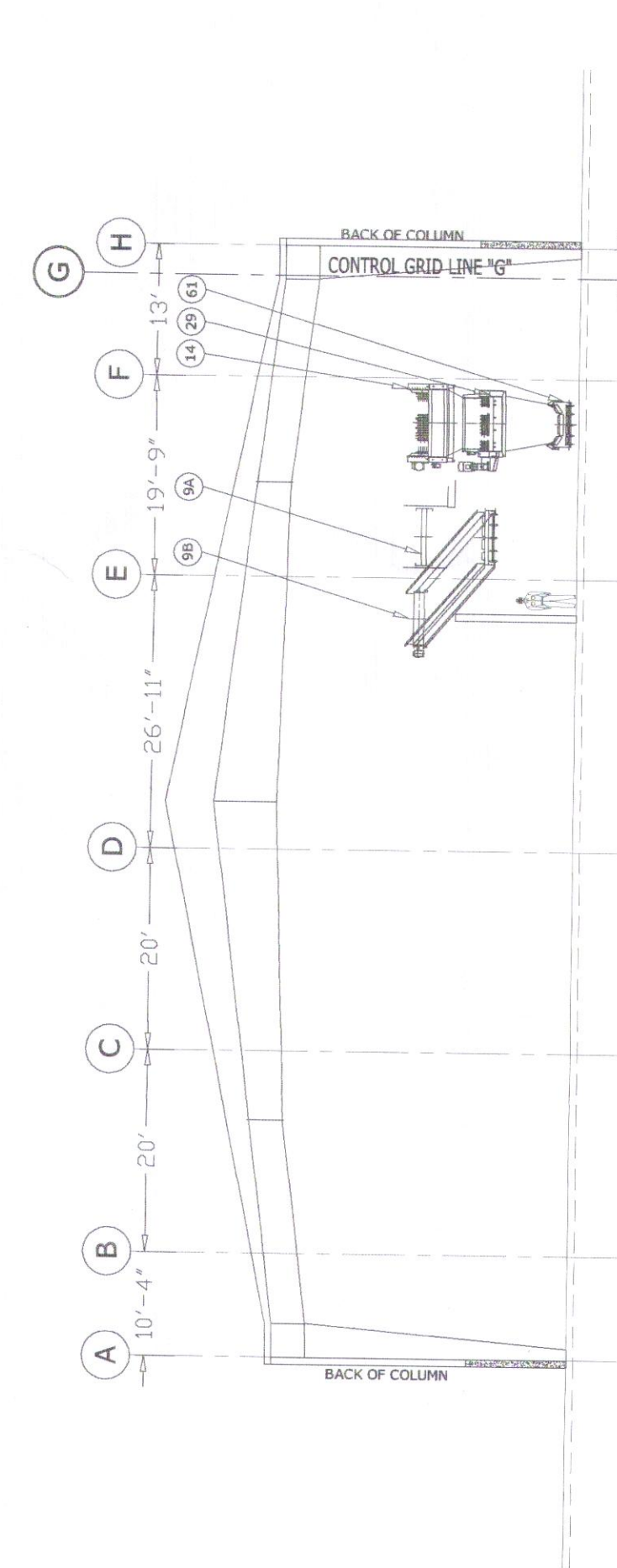
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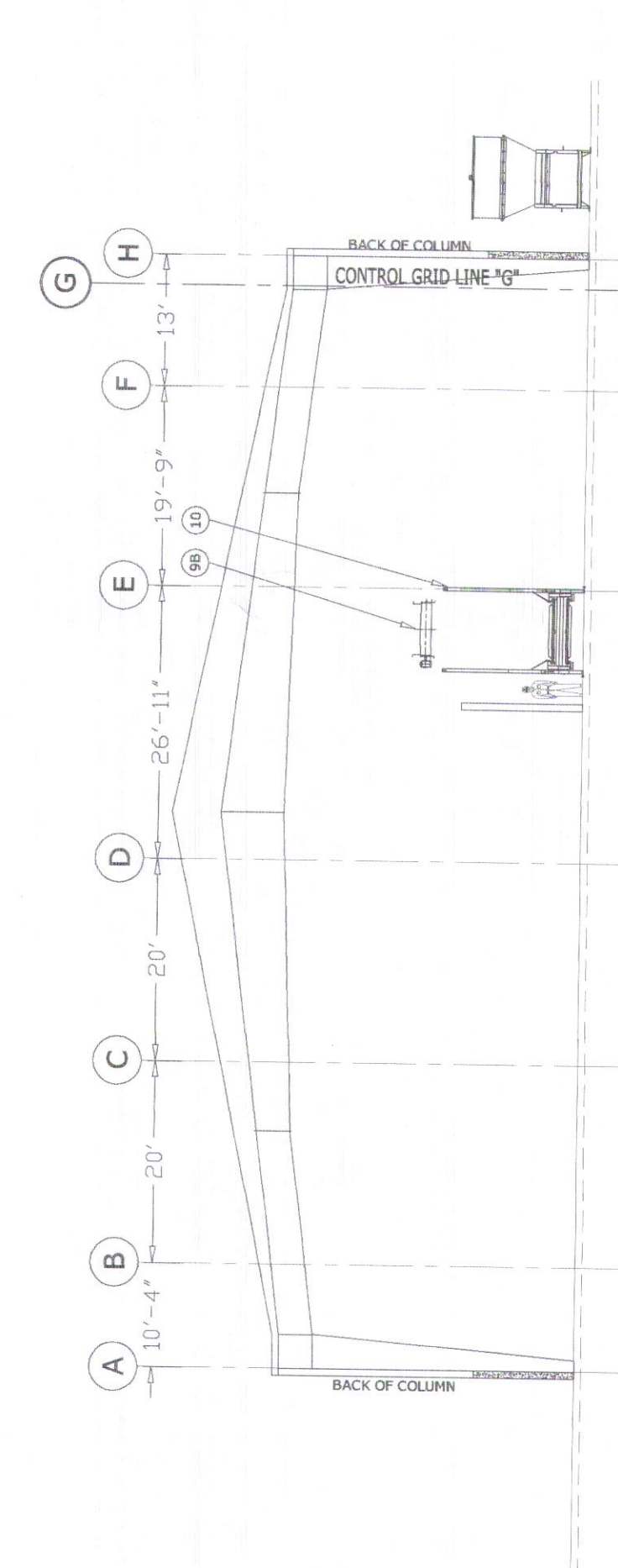
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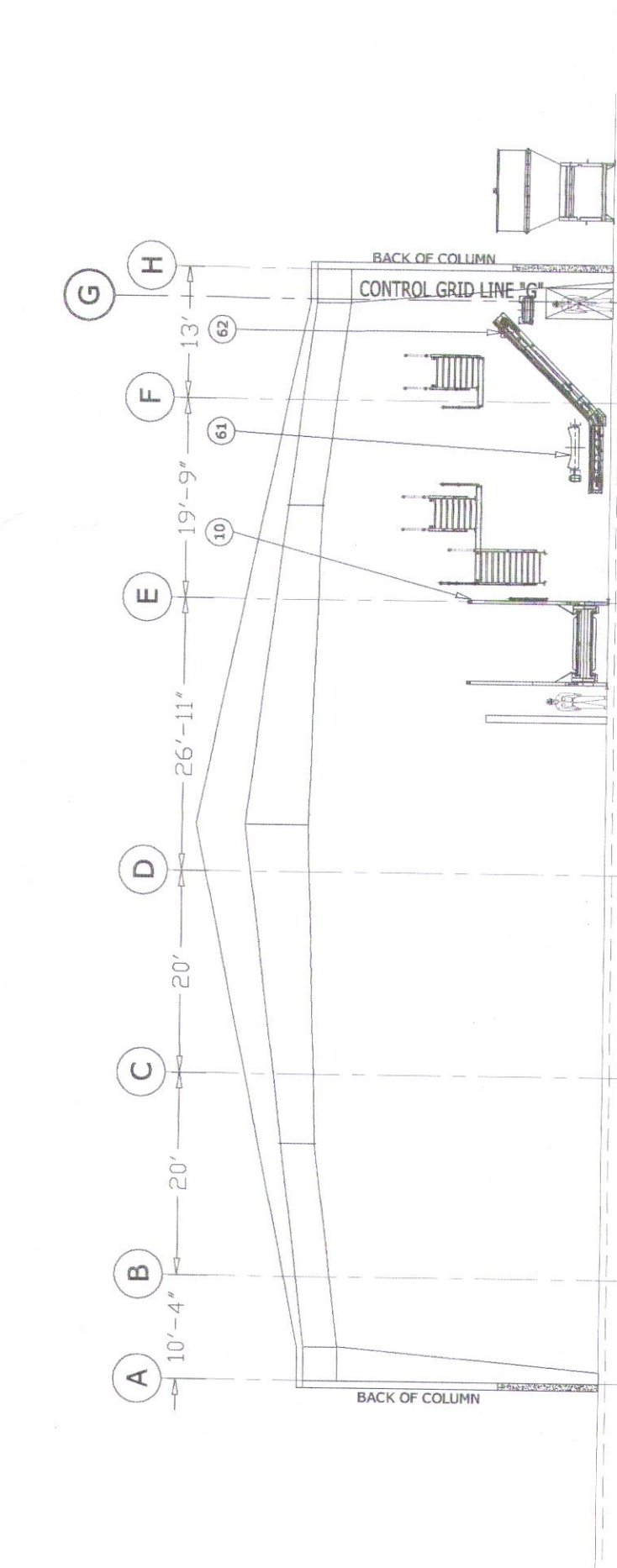
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CP MANUFACTURING INC.
1500 WILSON AVENUE - NATIONAL CITY, CA 91950
PHONE: 619-477-3175 FAX: 619-477-3426

MATERIAL RECOVERY FACILITY
FCR - ANN ARBOR
4150 PLATT ROAD
ANN ARBOR, MI 48108
ENGINEER: B.B.
APPROVED BY: [Signature]

EQUIPMENT LAYOUT - SECTIONS Y1-Y6
FCR - ANN ARBOR RECOVERY
DRAWING NO. 375BA1.01
DATE: 02/20/11
SHEET NO. 4 OF 6
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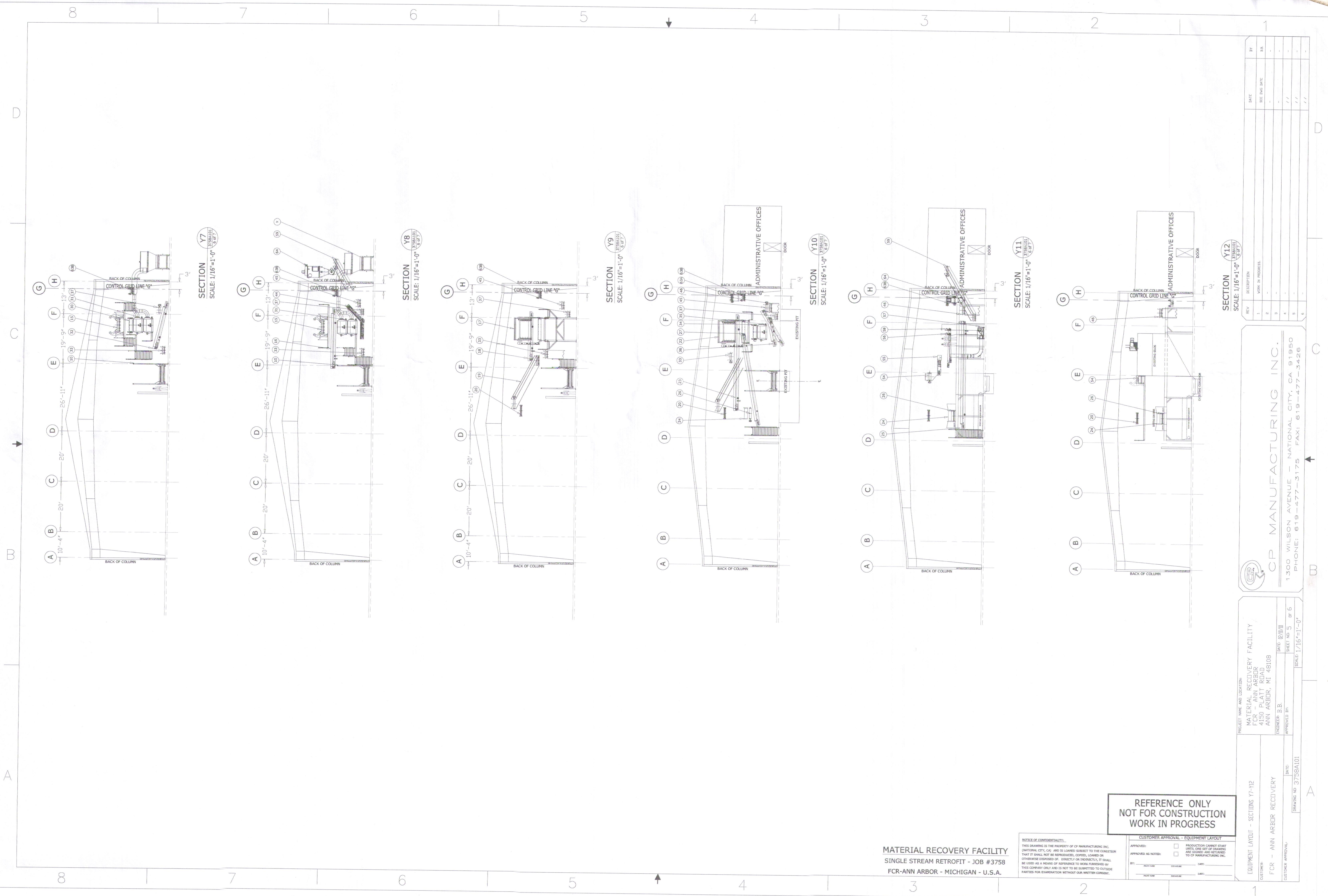
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SINGLE STREAM RETROFIT - JOB #3758
FCR-ANN ARBOR - MICHIGAN - U.S.A.

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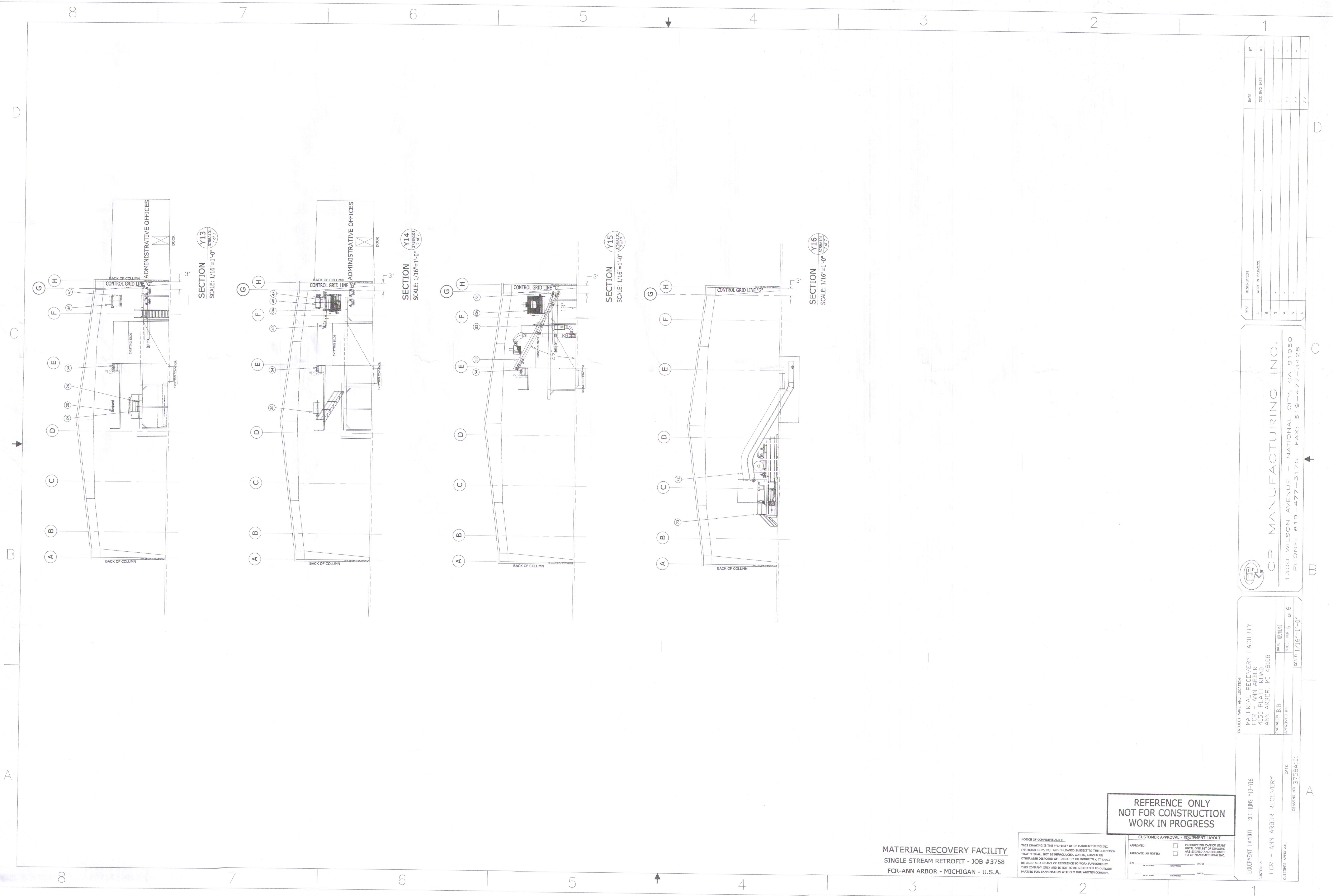
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WORK IN PROGRESS**

CUSTOMER APPROVAL - EQUIPMENT LAYOUT
APPROVED: _____ DATE: _____
BY: _____
DATE: _____

EQUIPMENT LAYOUT - SECTIONS Y7-Y12
CUSTOMER: FCR - ANN ARBOR RECOVERY
DRAWING NO: 3758A101
DATE: _____
ENGINEER: B.B.
APPROVED BY: _____
SCALE: 1/16"=1'-0"

CP MANUFACTURING INC.
1300 WILSON AVENUE - NATIONAL CITY, CA 91950
PHONE: 619-477-3175 FAX: 619-477-3426

REV	DESCRIPTION	DATE	BY
1	WORK IN PROGRESS		
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SECTION Y13
SCALE: 1/16"=1'-0"
3/28/03

SECTION Y14
SCALE: 1/16"=1'-0"
3/28/03

SECTION Y15
SCALE: 1/16"=1'-0"
3/28/03

SECTION Y16
SCALE: 1/16"=1'-0"
3/28/03

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MATERIAL RECOVERY FACILITY
SINGLE STREAM RETROFIT - JOB #3758
FCR-ANN ARBOR - MICHIGAN - U.S.A.

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CUSTOMER APPROVAL - EQUIPMENT LAYOUT
APPROVED: _____
APPROVED AS NOTED: _____
BY: _____ DATE: _____
PROJECT NO. _____

EQUIPMENT LAYOUT - SECTIONS Y13-Y16
CUSTOMER: FCR - ANN ARBOR RECOVERY
DRAWING NO. 3758A101
DATE: 12/10/03
SHEET NO. 6 OF 6
SCALE: 1/16"=1'-0"

CP MANUFACTURING INC.
1300 WILSON AVENUE - NATIONAL CITY, CA 91950
PHONE: 619-477-3175 FAX: 619-477-3426

REV	DESCRIPTION	DATE	BY
1	WORK IN PROGRESS		BB
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3			
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PROJECT #3758 - FCR-ANN ARBOR - MICHIGAN - U.S.A.
MATERIAL RECOVERY SYSTEM - MAIN EQUIPMENT LISTING

02/11/10

ITEM	MOTOR	DESCRIPTION & TYPE	HP	KW	BELT SPEED (FPM)	SIZE	ASSY	PHASE	RELEASE DATE	REMARK
1	M-1	LOWER HORIZ CONV, 9' PITCH, 3" ROLLER CHAIN - EXISTING, EXTENDED 15 FT	3	-	2-5 VSD (35 rpm)	60" WIDE x 29'-3" LONG	3758-XXX	-	XX/XX/10	-
2	M-2	INCLINE CONV, 9' PITCH, 3" ROLLER CHAIN - EXISTING, EXTENDED AT TAIL-8 FT (REINFORCED FOR DRUM)	10	-	20-60 VSD (40 rpm)	60" WIDE x 50'-3" LONG	3758-XXX	-	XX/XX/10	-
3	M-3A	DRUM FEEDER, HYDRAULIC LIFTING SYSTEM FOR BYPASS MODE, LH DRIVE	15	-	VSD (56 RPM NDD)	60" WIDE x 60" DIA.	9009011	-	XX/XX/10	-
M-3B		HYDRAULIC POWDER UNIT	3	-	FIXED					
4A	M-4A	STEEL TRANSFER CONVEYOR, FLAT SLIDER C/W 220 RUBBER CLEATED BELT	3	-	160	36" WIDE x 25'-3" LONG	3758-04A-001 (495)		XX/XX/10	-
4B	M-4B	STEEL TRANSFER CONVEYOR, FLAT SLIDER C/W 220 RUBBER CLEATED BELT	3	-	160	36" WIDE x 25'-3" LONG	3758-04B-001 (495)		XX/XX/10	-
5	M-5	TRASH TRANSFER CONVEYOR, FLAT SLIDER C/W 220 RUBBER CLEATED BELT	3	-	160	36" WIDE x 25'-3" LONG	3758-005-001 (495)		XX/XX/10	-
6	M-6	LARGE PLASTIC TRANSFER CONVEYOR, FLAT SLIDER C/W 220 RUBBER FLAT BELT	3	-	160	36" WIDE x 25'-3" LONG	3758-006-001 (495)		XX/XX/10	-
7	-	DCC SCREEN, 2 SECTION RH DRIVES POSITION	-	-	-	100" WIDE x 19'-7" LONG	9001275-EXISTING			
M-7A		DCC SCREEN, BECK 1	7.5	-	110 RPM VSD					
M-7B		DCC SCREEN, BECK 2	7.5	-	110 RPM VSD					
8	M-8	DCC SCREEN, LUBRICATION SYSTEM (110V)	-	-	-	-	-			
9A	M-9A	LARGE DCC SIRT CONVEYOR, FLAT SLIDER C/W 220 RUBBER FLAT BELT	TBD	-	TBD	60" WIDE x 27'-0" LONG	2758-005-001-EXISTING			
9B	M-9B	LARGE DCC SIRT CONVEYOR, EXISTING SHORTEN 29 FT	TBD	-	TBD	60" WIDE x 43'-0" LONG	EXISTING		XX/XX/10	-
10A	M-10A	DCC BUNKER CONVEYOR, 9' PITCH, 3" ROLLER CHAIN STEEL BELT, REVERSING (WITH MILLER)	7.5	-	20 FIXED (0-30 VSD)	60" WIDE x 60'-0" LONG	3-564XX		XX/XX/10	-
10B	---	BUNKER WALLS (OTY 2)	---	---	---	14'-0" HIGH x 60'-0" LONG	3758-10B-01		XX/XX/10	-
10C	---	BUNKER DOOR (BACK W/SAFETY SWITCH)	---	---	---	---	XXXXXX		XX/XX/10	-
10D	---	BUNKER DOOR (FRONT C/W ELECTRICAL HOIST)	---	---	---	---	XXXXXX		XX/XX/10	-
11	M-11	MIXED (DCC UNDERS) CORRUGATED SIDE WALL BELT TRANSFER CONVEYOR-EXISTING	3	-	180	36" WIDE x 39'-0" LONG	2758-007 (550)-EXIST			
12	M-12	MIXED TRANSFER CONVEYOR, FLAT SLIDER C/W 220 RUBBER FLAT BELT	TBD	-	TBD	48" WIDE x 23'-0" LONG	2758-008-001-EXISTING			
13	M-13	SCALPING SCREEN PRE-SIRT CONVEYOR, EXISTING SHORTEN 10'-6"	TBD	-	TBD	54" WIDE x 40'-0" LONG	EXISTING		XX/XX/10	-
14	-	SCALPING SCREEN, 3 SECTION	-	-	-	80" WIDE x 22'-9" LONG	XXXXXXX		XX/XX/10	-
M-14A		STEEL ELLIPTICAL DISCS, BECK 1	7.5	-	-	-	-			
M-14B		STEEL ELLIPTICAL DISCS, BECK 2	7.5	-	-	-	-			
M-14C		STEEL ELLIPTICAL DISCS, BECK 3	7.5	-	-	-	-			
15	M-15	SCALPING SCREEN, LUBRICATION SYSTEM (110V)	-	-	-	-	-			
16	M-16	SCALPING SCREEN PRE-SIRT/TRANSFER CONVEYOR, FLAT SLIDER C/W 220 RUBBER CLEATED BELT, TILED TAIL	5	-	160	60" WIDE x 30'-0" LONG	3758-015-001 (555)		XX/XX/10	-
17	M-17	SMALL DCC TRANSFER CONVEYOR, FLAT SLIDER C/W 220 RUBBER FLAT BELT	3	-	160	30" WIDE x 22'-3" LONG	3758-016-001 (495)		XX/XX/10	-
M-17A		MIDDLE FIBER DNP NEWSCREEN, SINGLE DECK RH DRIVE	10	-	205 RPM VSD	100" WIDE x 17'-9" LONG	XXXXXXX		XX/XX/10	-
M-17B		NEWSCREEN, INCLINE DECK	10	-	205 RPM VSD					
M-17C		NEWSCREEN, INCLINE DECK	10	-	205 RPM VSD					
M-17D		NEWSCREEN, HYDRAULIC POWDER UNIT (FOR TWO SCREENS)	3	-	-	-	XXXXXXX		XX/XX/10	-
M-18	M-18	LARGE FIBER TRANSFER CONVEYOR, FLAT SLIDER 220 RUBBER FLAT BELT (NEWSCREEN DYERS)	2	-	180	42" WIDE x 17'-6" LONG	3758-018-001 (495)		XX/XX/10	-
19	M-19	LARGE FIBER TRANSFER CONVEYOR, FLAT SLIDER 220 RUBBER FLAT BELT (NEWSCREEN DYERS)	3	-	180	42" WIDE x 38'-0" LONG	3758-019-001 (495)		XX/XX/10	-
20	M-20	LARGE FIBER SORT CONVEYOR, FLAT SLIDER 220 RUBBER BELT (NEWSCREEN DYERS)	5	-	100-300 VSD	48" WIDE x 54'-9" LONG	589XXX		XX/XX/10	-
21	M-21	CPSCREEN FEED CONVEYOR, FLAT SLIDER C/W 220 RUBBER CLEATED BELT	5	-	180	72" WIDE x 29'-9" LONG	3758-021-001 (555)		XX/XX/10	-
22	---	MID FIBER CPSCREEN, SINGLE DECK RH DRIVE	---	---	---	100" WIDE x 17'-9" LONG	XXXXXXX		XX/XX/10	-
M-22A		CPSCREEN, INCLINE DECK	10	-	205 RPM VSD					
M-22B		CPSCREEN, INCLINE DECK	10	-	205 RPM VSD					
M-22C		CPSCREEN, INCLINE DECK	10	-	205 RPM VSD					
M-22D		REAR AIR BLOWER SYSTEM	5	-	FIXED					
23	M-23	CPSCREEN, HYDRAULIC POWER UNIT	-	-	-	-	-			
24	M-24	MID FIBER TRANSFER CONVEYOR, FLAT SLIDER 220 RUBBER FLAT BELT (CPSCREEN DYERS)	3	-	180	42" WIDE x 36'-6" LONG	3758-023-001 (495)		XX/XX/10	-
25	M-25	MIDDLE/SMALL FIBER SORT CONVEYOR, EXISTING REVERSED, SHORTEN 12'-6"	TBD	-	TBD	48" WIDE x 42'-6" LONG	EXISTING		XX/XX/10	-
26	M-26	TRASH TRANSFER CONVEYOR, FLAT SLIDER 220 RUBBER FLAT BELT	3	-	180	30" WIDE x 41'-0" LONG	3758-025-001 (495)		XX/XX/10	-
27	M-27	CONTAINERS TRANSFER CONVEYOR, SLIDER BED RUBBER BELT (UNDER CONVEYOR #24)	2	-	80	48" WIDE x 27'-0" LONG	3758-026-001 (495)		XX/XX/10	-
28	M-28	FIBER TRANSFER REVERSIBLE CONVEYOR, FLAT SLIDER C/W 220 RUBBER CLEATED BELT	2	-	140	24" WIDE x 35'-3" LONG	3758-027-001 (495)		XX/XX/10	-
29	---	GLASS BREAKER, 3 BECK RH DRIVE POSITION	---	---	---	---	496XXX			
M-29A		GLASS BREAKER, BECK 1	10	-	166 RPM VSD	60" WIDE x 21'-6" LONG	XXXXXXX			
M-29B		GLASS BREAKER, BECK 2	10	-	205 RPM VSD					
M-29C		GLASS BREAKER, BECK 3	10	-	205 RPM VSD					
30	M-30	GLASS BREAKER, LUBRICATION SYSTEM (110V)	0.33	-	-	-	-			
31A	M-31	CPSCREEN FEED CONVEYOR, FLAT SLIDER C/W 220 RUBBER CLEATED BELT	3	-	180	60" WIDE x 17'-9" LONG	3758-030-001 (555)			
M-31A-1		AIR DRUM SEPARATOR	1 1/2	-	58 RPM VSD		KME			
M-31A-2		SPLITTER ROLLER DRIVE	0.33	-	FIXED					
M-31A-3		BLINDER 6500 CFM @ 10" WATER GAGE PRESSURE	25	-	VSD					
M-31B-1		AIR DRUM SEPARATOR	1 1/2	-	58 RPM VSD		KME			
M-31B-2		SPLITTER ROLLER DRIVE	0.33	-	FIXED					
M-31B-3		BLINDER 6500 CFM @ 10" WATER GAGE PRESSURE	25	-	VSD					
32	M-32	FIBER TRANSFER CONVEYOR, FLAT SLIDER 220 RUBBER CLEATED BELT	2	-	180	30" WIDE x 17'-6" LONG	3758-032-001 (495)			
33	M-33	FIBER TRANSFER CONVEYOR, FLAT SLIDER 220 RUBBER CLEATED BELT	3	-	180	30" WIDE x 48'-3" LONG	3758-033-001 (495)			
34	M-34	AIR FEED CONVEYOR, FLAT SLIDER C/W 220 RUBBER CLEATED BELT (CP SCREEN UNDERS)	3	-	180	60" WIDE x 16'-3" LONG	3758-034-001 (555)			
35	---	AIR DRUM SEPARATOR	---	---	---	60" WIDE	KME			
M-35-1		DRUM DRIVE	1 1/2	-	58 RPM VSD					
M-35-2		SPLITTER ROLLER DRIVE	0.33	-	FIXED					
M-35-3		BLINDER 6500 CFM @ 10" WATER GAGE PRESSURE	25	-	VSD					
36	M-36	FIBER TRANSFER CONVEYOR, FLAT SLIDER 220 RUBBER CLEATED BELT	2	-	180	24" WIDE x 9'-9" LONG	3758-036-001 (495)			
37	M-37	FIBER TRANSFER CONVEYOR, FLAT SLIDER 220 RUBBER CLEATED BELT	3	-	180	24" WIDE x 43'-6" LONG	3758-037-001 (495)			
38	---	BUNKER CONVEYOR-NOT USED	---	---	---	---	---			
39	M-39	SMALL DCC BUNKER CONVEYOR	TBD	-	TBD	TBD" WIDE x TBD" LONG	EXISTING			
40	M-40	DMP BUNKER CONVEYOR	TBD	-	TBD	TBD" WIDE x TBD" LONG	EXISTING			
41	M-41	OFFICE PAPER BUNKER CONVEYOR	TBD	-	TBD	TBD" WIDE x TBD" LONG	EXISTING			
42	M-42	DMP PAPER BUNKER CONVEYOR	TBD	-	TBD	TBD" WIDE x TBD" LONG	EXISTING			
43	M-43	DMP PAPER BUNKER CONVEYOR	TBD	-	TBD	TBD" WIDE x TBD" LONG	EXISTING			
44	M-44	CONTAINERS TRANSFER CONVEYOR, FLAT ROLLER - 4 PLY 150, CORRUGATED CLEATED CROSS RIGID (FROM DOUBLE AIRS)	3	-	160	24" WIDE x 14'-0" LONG	480			
45	M-45	CONTAINERS TRANSFER CONVEYOR, FLAT SLIDER 220 RUBBER FLAT BELT	3	-	180	30" WIDE x 39'-0" LONG	3758-045-001 (495)			
46	M-46	CONTAINERS TRANSFER CONVEYOR, FLAT SLIDER 220 RUBBER CLEATED BELT	5	-	180	36" WIDE x 60'-6" LONG	3758-46A-001 (555)			
47	M-47	MSS FEED ACCELERATING CONVEYOR, FLAT SLIDER 220 RUBBER BELT, SS HEAD	2	-	220 VSD	48" WIDE x 11'-6" LONG	3758-46B-001 (555)			
48	M-48	ELECTRO-MAGNETIC DIVERBELT SEPARATOR	TBD	-	TBD	54" WIDE x 95' LONG	INDUSTRIAL MAGNETICS-SEM542XC			
49	M-49	STEEL TRANSFER CONVEYOR, FLAT SLIDER 220 RUBBER FLAT BELT	3	-	160	24" WIDE x 13'-0" LONG	3758-049-001 (495)			
50A	-	60" ALADDIN UNIT, SINGLE EJECT C/W ELEC CONTROLS, TOUCH SCREEN & EJECT HOOD	5	-	500 VSD	80" WIDE x 20'-0" LONG	TBD			
-	-	ALADDIN ACCELERATOR CONVEYOR	-	-	-	-	-			
-	-	AIR FEED TO MSS VALVE ENCLOSURE (TO BE CONFIRMED)	-	-	-	100-250 CFM @ 100 PSIG (GOL-FREE AIR)	-			
-	-	POWER TO MSS ELECTRICAL PANEL	-	-	-	480V/30A/3PH/60HZ	-			
50B	-	AIR ROTARY SCREW COMPRESSOR (KAESER RSD 50T W/650G TANK)	50	-	-	236 CFM @ 125 PSI	-			
-	-	POWER TO COMPRESSOR	-	-	-	480V/100A/3PH/60HZ (TO BE CONFIRMED)	-			

NOTES:
 1. CONVEYORS REQ'D SPEED AND HORSE POWER ARE SUBJECT TO CHANGE PER ACTUAL DESIGN SPECIFICATIONS.

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 APPROVED: _____ DATE: _____
 APPROVED AS NOTED: DATE: _____
 BY: _____ TITLE: _____

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CP MANUFACTURING INC.
 1300 WILSON AVENUE - NATIONAL CITY, CA 91950
 PHONE: 619-477-3175 FAX: 619-477-3426

EQUIPMENT LAYOUT - FLOOR PLAN AND SECTIONS X1-X3
 CUSTOMER: FCR - ANN ARBOR RECOVERY
 PROJECT NAME AND LOCATION: MATERIAL RECOVERY FACILITY, ANN ARBOR, MI 48108
 DRAWING NO: 3758A101-BIDW
 SHEET NO: 1 OF 1
 DATE: 02/10/10
 SCALE: 1/16"=1'-0"

PROJECT #3758 - FCR-ANN ARBOR - MICHIGAN - U.S.A.
MATERIAL RECOVERY SYSTEM - MAIN EQUIPMENT LISTING

02/11/10

ITEM	MOTOR	DESCRIPTION & TYPE	HP	KW	BELT SPEED (FPM)	SIZE	ASSY	PHASE	RELEASE DATE	MEMO#
51	M-51	PET QC CONVEYOR, SLIDER BED RUBBER CLEATED BELT	2	-	140	24" WIDE x 16'-6" LONG	3758-051-001 (496)	-	XX/XX/10	-
52	M-52	PET SILD BLOWER	7.5	-	-	-	XXXXXX	-	XX/XX/10	-
53	M-53	STEEL TRANSFER CONVEYOR, FLAT SLIDER 220 RUBBER FLAT BELT	3	-	180	24" WIDE x 33'-9" LONG	3758-053-001 (495)	-	-	-
54	M-54	CONTAINERS SORT CONVEYOR, FLAT SLIDER 220 RUBBER BELT	3	-	100-200 VSD	30" WIDE x 75'-8" LONG	3758-054-001 (497)	-	-	-
55	---	ALUMINUM EDDY CURRENT SEPARATOR (RH DRIVE)	-	-	-	28" WIDE x 58" LONG	-	-	-	-
	M-55A	EDDY CURRENT ROTOR	7.5	-	VSD (2000-2200 RPM)	TBD" DIA x 48" W	-	-	-	-
	M-55B	EDDY CURRENT SEPARATOR CONVR.	TBD	-	TBD	28" W (EFFECTIVE)	-	-	-	-
56	M-56	ALUMINUM QC CONVEYOR, SLIDER BED RUBBER BELT	2	-	140	18" WIDE x 12'-3" LONG	3758-056-001 (496)	-	-	-
57	M-57	PET SILD BLOWER	7.5	-	-	-	XXXXXX	-	-	-
58	M-58	EDDY CURRENT PASS FRACTION QC CONVEYOR, SLIDER BED RUBBER BELT	2	-	140	18" WIDE x 12'-3" LONG	3758-058-001 (496)	-	-	-
59	M-59	TRASH TRANSFER CONVEYOR, FLAT SLIDER 220 RUBBER CLEATED BELT	3	-	180	30" WIDE x 60'-0" LONG	3758-059-001 (555)	-	-	-
60										
61	M-61	GLASS TRANSFER CONVEYOR (GLASS BREAKER UNDERS), TROUGHED ROLLER -2 PLY, RUBBER 220 BELT	3	-	180	48" WIDE x 31'-6" LONG	3758-061-001 (522)	-	-	-
62	M-62	GLASS TRANSFER CONVEYOR, FLAT ROLLER -4 PLY 150, CORRUGATED CLEATED CROSS RIGID BELT	3	-	160	18" WIDE x 19'-6" LONG	480	-	-	-
63A	M-63A	GLASS TRANSFER CONVEYOR, FLAT ROLLER -4 PLY 150, CORRUGATED CLEATED CROSS RIGID BELT	3	-	160	18" WIDE x 26'-0" LONG	480	-	-	-
63B	M-63B	GLASS TRANSFER CONVEYOR, TROUGHED ROLLER -2 PLY, RUBBER 220 BELT	3	-	180	24" WIDE x 51'-9" LONG	3758-63B-001 (492)	-	-	-
64	---	GLASS CLEAN-UP SYSTEM-RH	-	-	-	-	TBD	-	-	-
	M-64A	CYCLONE BLOWER	10	-	VSD	-	-	-	-	-
	M-64B	ROTARY VALVE	1.5	-	FIXED	-	-	-	-	-
65A	M-65A	GLASS TRANSFER CONVEYOR FOR GLASS CLEAN-UP #1, TROUGHED ROLLER FLAT BELT	2	-	500	24" WIDE x 10'-6" LONG	-	-	-	-
65B	M-65B	GLASS TRANSFER CONVEYOR, TROUGHED ROLLER -2 PLY, RUBBER 220 BELT	2	-	160	24" WIDE x 18'-6" LONG	3758-65A-001 (492)	-	-	-
65C	M-65C	GLASS TRANSFER CONVEYOR, TROUGHED ROLLER -2 PLY, RUBBER 220 BELT	2	-	160	24" WIDE x 46'-3" LONG	3758-65B-001 (492)	-	-	-
66										
67										
68										
69										
70										
71	M-71	EXISTING SILOS AND BUNKERS UPLIFT CONVEYOR-REVERSED AND EXTENDED	-	-	-	-	-	-	-	-
72	M-72	EXISTING BALER FEED CONVEYOR-RELOCATED AND SHORTEN	-	-	-	-	-	-	-	-
73	M-73	EXISTING BALER	-	-	-	-	-	-	-	-
74A	M-74A	EXISTING SILO WITH HOIST	-	-	-	-	-	-	-	-
74B	M-74B	EXISTING SILO WITH HOIST	-	-	-	-	-	-	-	-
74C	M-74C	EXISTING SILO WITH HOIST	-	-	-	-	-	-	-	-
74D	M-74D	EXISTING SILO WITH HOIST	-	-	-	-	-	-	-	-
74E	M-74E	EXISTING SILO WITH HOIST	-	-	-	-	-	-	-	-
74F	M-74F	EXISTING SILO WITH HOIST	-	-	-	-	-	-	-	-
74G	M-74G	EXISTING SILO WITH HOIST	-	-	-	-	-	-	-	-
74H	M-74H	EXISTING SILO WITH HOIST	-	-	-	-	-	-	-	-

NOTES:
1. CONVEYORS REQ'D SPEED AND HORSE POWER ARE SUBJECT TO CHANGE PER ACTUAL DESIGN SPECIFICATIONS.

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CUSTOMER APPROVAL - EQUIPMENT LAYOUT
APPROVED BY: _____ DATE: _____
APPROVED BY: _____ DATE: _____

CP MANUFACTURING, INC.
1300 WILSON AVENUE - NATIONAL CITY, OH 45195
PHONE: 619-477-3175 FAX: 619-477-3426

EQUIPMENT LAYOUT - FLOOR PLAN AND SECTIONS X1-X3
CUSTOMER: FCR - ANN ARBOR RECOVERY
PROJECT NAME AND LOCATION: MATERIAL RECOVERY FACILITY
CP - ANN ARBOR
400 ANN ARBOR RD
ANN ARBOR, MI 48108
ENGINEER: B.B. DATE: 02/11/10
APPROVED BY: _____
DRAWING NO: 3758A101-BDM
SHEET NO: 1 OF 1

REV	DESCRIPTION	DATE
1	WORK IN PROGRESS	
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City of Ann Arbor MRF Audit

Dear Ms. Gomes,

The following report is a maintenance and operations evaluation of the CP Equipment at the City of Ann Arbor Materials Recovery Facility. The information gathered in this report was collected by John Kemp (CP Field Technician), and Brian Pressley (CP Customer Service Assistant Manager). This information was gathered over a 2-day period.

During the 2 day evaluation, our team focused on the following key areas:

1. Maintenance of the Equipment (with a focus on the Main equipment primarily)


The report has been organized in the following manner:

- A. Master Equipment list for the Ann Arbor Facility
- B. Itemized breakdown of each individual piece of equipment
- C. Corresponding list of the individual parts evaluated for each piece of equipment
- D. Notes and recommendations for each piece of equipment

We would like to extend our appreciation for welcoming us into your facility and for all of the help and assistance offered to us during our visit. We hope that the information contained within this audit helps with the necessary improvements, resulting in improved equipment performance and material recovery. Please feel free to contact us at any time with any questions or concerns. We are here to assist and support you and your team.


Sincerely,

Brian Pressley
 Customer Service Assistant Manager
 CP Manufacturing


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THE FOLLOWING LIST REFLECTS THE EQUIPMENT PROVIDED FOR THE CITY OF ANN ARBOR. PLEASE USE THIS LIST FOR THE CORRESPONDING DOCUMENTS.

MOTOR	DESC
M-1	LOWER HORIZ CONV, 9" PITCH, 3" ROLLER CHAIN - EXISTING, EXTENDED 15 FT
M-2	INCLINE CONV, 9" PITCH, 3" ROLLER CHAIN - EXISTING, EXTENDED AT TAIL 10 FT (REINFORCED FOR D
M-3	METERING DRUM, LH DRIVE (REMOTE CONTROL FROM TOUCH SCREEN)
M-4A	STEEL TRANSFER CONVEYOR, FLAT SLIDER C/W 220 RUBBER CLEATED BELT
M-4B	STEEL TRANSFER CONVEYOR, FLAT SLIDER C/W 220 RUBBER FLAT BELT
M-5	TRASH TRANSFER CONVEYOR, FLAT SLIDER C/W 220 RUBBER CLEATED BELT
M-6	LARGE PLASTIC TRANSFER CONVEYOR, FLAT SLIDER C/W 220 RUBBER FLAT BELT
M-7	EXISTING OCC SCREEN, 2 SECTION RH DRIVES POSITION
M-8	EXISTING LARGE OCC TRANSFER CONVEYOR, FLAT SLIDER C/W 220 RUBBER FLAT BELT
M-9A	EXISTING LARGE OCC SORT CONVEYOR, EXISTING SHORTEN 23 FT
M-9B	LARGE OCC TRANSFER CONVEYOR, FLAT SLIDER C/W 220 RUBBER CLEATED BELT, 3"@72'
M-10A	OCC BUNKER CONVEYOR, 9" PITCH, 3" ROLLER CHAIN STEEL BELT, REVERSING
M-11	EXISTING MIXED (OCC UNDERS) CORRUGATED SIDE WALL BELT TRANSFER CONVEYOR
M-12	EXISTING MIXED TRANSFER CONVEYOR, FLAT SLIDER C/W 220 RUBBER FLAT BELT
M-13	SCALPING SCREEN PRE-SORT CONVEYOR
M-14	SCALPING SCREEN, 3 SECTION LH DRIVES POSITION
M-15	SCALPING SCREEN POST-SORT/TRANSFER CONVEYOR, FLAT SLIDER C/W 220 RUBBER CLEATED BEL
M-16A	SMALL OCC TRANSFER CONVEYOR, FLAT SLIDER C/W 220 RUBBER FLAT BELT
M-16B	TRASH TRANSFER CONVEYOR, FLAT SLIDER C/W 220 RUBBER FLAT BELT
M-16C	TRASH TRANSFER CONVEYOR, FLAT SLIDER C/W 220 RUBBER FLAT BELT
M-17	ONP NEWSCREEN (LARGE FIBER CUT) , SINGLE DECK RH DRIVE (DISC SPACING 8") - 110V LUBRICATI
M-18	LARGE FIBER TRANSFER CONVEYOR, FLAT SLIDER 220 RUBBER FLAT BELT (NEWSCREEN OVERS)
-	NOT USED
M-20	LARGE FIBER SORT CONVEYOR, FLAT SLIDER 220 CLEAT TOP RUBBER BELT
M-21	CPSCREEN FEED CONVEYOR, FLAT SLIDER C/W 220 RUBBER CLEATED BELT
M-22	CPSCREEN (MID FIBER CUT) , SINGLE DECK RH DRIVE (DISC SPACING 6") - 110V LUBRICATION SYSTEM
M-23	MID FIBER TRANSFER CONVEYOR, FLAT SLIDER 220 RUBBER FLAT BELT (CPSCREEN OVERS)
M-24	EXISTING MIDDLE/SMALL FIBER SORT CONVEYOR (TO BE REVERSED AND SHORTEN 12'-6")
-	NOT USED
M-26	CONTAINERS TRANSFER CONVEYOR, SLIDER BED RUBBER BELT (UNDER CONVEYOR #24)
M-27	CONTAINERS TRANSFER CONVEYOR, FLAT SLIDER 220 RUBBER CLEATED BELT
M-28	FIBER TRANSFER REVERSIBLE CONVEYOR, FLAT SLIDER C/W 220 RUBBER "V" GROVE CLEAT TOP BE
M-29	GLASS BREAKER, 3 DECK RH DRIVE POSITION
M-30	ADS FEED CONVEYOR, FLAT SLIDER C/W 220 RUBBER STAGGERED CLEATED BELT
M-31A	AIR DRUM SEPARATOR
M-31B	AIR DRUM SEPARATOR
M-32	FIBER TRANSFER CONVEYOR, FLAT SLIDER 220 RUBBER CLEATED BELT
M-33	FIBER TRANSFER CONVEYOR, FLAT SLIDER 220 RUBBER CLEATED BELT
M-34	ADS FEED CONVEYOR, FLAT SLIDER C/W 220 RUBBER STAGGERED CLEATED BELT (CP SCREEN UNDI
M-35	AIR DRUM SEPARATOR
M-36	FIBER TRANSFER CONVEYOR, FLAT SLIDER 220 RUBBER CLEATED BELT - 3" CLEATS
M-37	FIBER TRANSFER CONVEYOR, FLAT SLIDER 220 RUBBER CLEATED BELT
M-38	EXISTING TRASH BUNKER CONVEYOR
M-39	EXISTING SMALL OCC BUNKER CONVEYOR
M-40	EXISTING ONP BUNKER CONVEYOR
M-41	OFFICE PAPER BUNKER CONVEYOR-EXISTING
M-42	EXISTING ONP PAPER BUNKER CONVEYOR
M-43	ONP PAPER BUNKER CONVEYOR-EXISTING
M-51	PET QC CONVEYOR, SLIDER BED RUBBER CLEATED BELT
M-52	PET SILO BLOWER
M-53	PASS FRACTION TRANSFER CONVEYOR, FLAT SLIDER 220 RUBBER CLEATED BELT
M-54	CONTAINERS SORT CONVEYOR, FLAT SLIDER 220 RUBBER BELT
M-55	EXISTING ALUMINUM EDDY CURRENT SEPARATOR (RH DRIVE). TO BE RELOCATED

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M-56 ALUMINUM QC CONVEYOR, SLIDER BED RUBBER BELT
M-57 ALUMINUM SILO BLOWER
M-58 EDDY CURRENT PASS FRACTION QC CONVEYOR, SLIDER BED RUBBER BELT LH DRIVE
M-59 TRASH TRANSFER CONVEYOR, FLAT SLIDER 220 RUBBER CLEATED BELT
NOT USED
M-61 GLASS TRANSFER CONVEYOR (GLASS BREAKER UNDERS), TROUGHED ROLLER -2 PLY, RUBBER 220
M-62 GLASS TRANSFER CONVEYOR, FLAT ROLLER -4 PLY 150, CORRUGATED CLEATED CROSS RIGID BELT
M-63A GLASS TRANSFER CONVEYOR, FLAT ROLLER -4 PLY 150, CORRUGATED CLEATED CROSS RIGID BELT
M-63B GLASS TRANSFER CONVEYOR, TROUGHED ROLLER -2 PLY, RUBBER 220 BELT
— GLASS CLEAN-UP SYSTEM-RH (SEE ITEM 464B FOR DUCTING INSTALLATION)
M-65A GLASS TRANSFER CONVEYOR, TROUGHED ROLLER -2 PLY, RUBBER 220 BELT
M-65B GLASS TRANSFER CONVEYOR, TROUGHED ROLLER -2 PLY, RUBBER 220 BELT
M-65C GLASS TRANSFER CONVEYOR, TROUGHED ROLLER -2 PLY, RUBBER 220 BELT
M-66 EXISTING SURGE HOPPER VIBRATORY FEEDER
M-67 EXISTING GLASS CRUSHER INCLINE FEED CONVEYOR
M-68A EXISTING "ANDELA" GLASS CRUSHER 1ST STAGE
M-68B EXISTING "ANDELA" GLASS CRUSHER 2ND STAGE
M-69 EXISTING "ANDELA" GLASS TROMMEL INCLINE FEED CONVEYOR
M-70 EXISTING "ANDELA" GLASS TROMMEL
M-71 EXISTING SILOS AND BUNKERS UPLOAD CONVEYOR-REVERCED AND EXTENDED 19'-8"
M-72 EXISTING BALER FEED CONVEYOR-RELOCATED AND SHORTENED
M-73 EXISTING 2 RAMS BALER R.H. "GORILLA"
M-74A EXISTING SILO WITH HOIST - ALL HOISTS TO BE CONTROLLED BY EXISTING BALER PANEL PER CHAN
M-74B EXISTING SILO WITH HOIST
M-74C EXISTING SILO WITH HOIST
M-74D EXISTING SILO WITH HOIST
M-74E EXISTING SILO WITH HOIST
M-74F EXISTING SILO WITH HOIST
M-74G EXISTING SILO WITH HOIST
M-74H EXISTING SILO WITH HOIST
M-74J-1 EXISTING SILO WITH HOIST

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Item #	M1	Motor #	M1
Description:	Lower Horizontal Conveyor		


Component	Good Condition	Needs Repair	N/A
Head Pulley	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tail Pulley	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Return Roller	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Support Roller	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Trough Roller	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Lacing	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tracking	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tensioning	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Guarding	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bearings	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Belt	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gearmotor	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Notes:



Photo A

Photo A shows the damaged link in the belting. We recommend fixing the damaged links to prevent further damage to the belt.

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Item #	M2	Motor #	M2
Description:	Incline Conveyor		

Component	Good Condition	Needs Repair	N/A
Head Pulley	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tail Pulley	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Return Roller	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Support Roller	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Trough Roller	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Lacing	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tracking	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tensioning	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Guarding	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bearings	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Belt	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gearmotor	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Notes:



Photo A



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Photo B

Photos A & B show the lack of tensioning on the belt. We recommend tensioning the belting on a regular basis to prevent premature wear of the belting and sprockets.

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Item #	M3	Motor #	M3
Description:	Metering Drum		
Condition	Good Condition	Needs Repair	N/A
Cleats	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Drive Shaft	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Power Unit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bearings	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hyd. Cylinders	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Notes:



Photo A



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Photo B

Photos A & B show the excessive wrapping around the Metering Drum shafts. We recommend removing these wrappings on a regular basis to prevent damage to the drum or to the support walls.

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Item #	M4A	Motor #	M4A
Description:	Steel Transfer Conveyor		

Component	Good Condition	Needs Repair	N/A
Head Pulley	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tail Pulley	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Return Roller	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Support Roller	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Trough Roller	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Lacing	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tracking	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tensioning	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Guarding	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bearings	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Belt	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gearmotor	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Notes:



Photo A



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Photo B

Photos A & B show the condition of the bearings. We recommend that both head shaft bearings are replaced as soon as possible.

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Item #	M7	Motor #	M7
Description:	OCC Screen		

Component	Good Condition	Needs Repair	N/A
Bearings	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Chains	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sprockets	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Discs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Drive Motor & Gearbox	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Oilers	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Notes:



Photo A


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Photo B

Photos A & B show damage to the bearings. These damaged bearings are a result of the misaligned rotors. Out of time rotors can cause material jams, damaging the bearings as shown. We recommend that the rotors are properly clocked on a regular basis to prevent this problem.



Photo C

Photo C shows the misalignment of the rotors. This photo also shows the wrappings on the rotors. These wrappings can also lead to material jams resulting in damage to the shafts and bearings. We recommend removing all wrappings on a regular basis.

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Item #	M11	Motor #	M11
Description:	OCC Unders Transfer Conveyor		


Component	Good Condition	Needs Repair	N/A
Head Pulley	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tail Pulley	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Return Roller	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Support Roller	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trough Roller	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Lacing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Tracking	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tensioning	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Guarding	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bearings	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Belt	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gearmotor	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Notes:



Photo A

Photo A shows a bad tail pulley bearing. We recommend replacing this bearing to prevent damage to the shaft.

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Item #	M12	Motor #	M12
Description:	Mixed Transfer Conveyor		


Component	Good Condition	Needs Repair	N/A
Head Pulley	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tail Pulley	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Return Roller	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Support Roller	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Trough Roller	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Lacing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tracking	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tensioning	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Guarding	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bearings	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Belt	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gearmotor	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Notes:



Photo A

Photo A shows the bad bearing on the head pulley. We recommend replacing this bearing when possible to prevent shaft damage.

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Item #	M13	Motor #	M13
Description:	Scalping Pre-Sort Conveyor		


Component	Good Condition	Needs Repair	N/A
Head Pulley	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tail Pulley	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Return Roller	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Support Roller	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Trough Roller	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Lacing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tracking	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tensioning	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Guarding	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bearings	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Belt	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gearmotor	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Notes:



Photo A

Photo A shows the missing Estop button for this conveyor. We recommend replacing the Estop button as soon as possible.

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Item #	M14	Motor #	M14
Description:	Scalping Screen		

Component	Good Condition	Needs Repair	N/A
Bearings	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chains	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sprockets	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Discs	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Drive Motor & Gearbox	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Oilers	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Notes:



Photo A



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Photo B

Photos A & B show the worn condition of the rotors. We recommend replacing these rotors to increase the separation performance of this screen. We also recommend removing the wrappings from the rotors on a regular basis to insure maximum separation performance and to prevent material jams.

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Item #	M15	Motor #	M15
Description:	Transfer Conveyor		

Component	Good Condition	Needs Repair	N/A
Head Pulley	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Tail Pulley	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Return Roller	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Support Roller	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Trough Roller	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Lacing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tracking	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tensioning	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Guarding	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bearings	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Belt	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gearmotor	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Notes:



Photo A


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Photo B



Photo C

Photo A shows the worn condition of the belt. Some sections of belting are missing and other areas are patched. We recommend replacing this belt when possible to prevent material loss.

Photos B&C show the head pulley wrappings on both sides of the pulley. We recommend removing these wrappings on a regular basis to prevent damage to the bearings.

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Item #	M17	Motor #	M17
Description:	ONP News Screen		

Component	Good Condition	Needs Repair	N/A
Bearings	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chains	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sprockets	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Discs	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Drive Motor & Gearbox	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Oilers	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Notes:



Photo A



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Photo B

Photos A & B show the worn and missing finger discs. These discs are crucial to maximizing the material separation for this screen. We recommend replacing all of the finger discs on this screen. Also, the photos show the excessive amount of wrappings on the rotors. We recommend removing the wrappings on a regular basis to help maximize material separation.


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Item #	M22	Motor #	M22
Description:	CP Screen		

Component	Good Condition	Needs Repair	N/A
Bearings	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Chains	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sprockets	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Discs	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Drive Motor & Gearbox	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Oilers	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

NO PHOTO AVAILABLE.

Deck 3 drive side bearing #1 is bad. We recommend replacing this bearing as soon as possible to prevent damage to the shaft.

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Item #	M29	Motor #	M29
Description:	Glassbreaker Screen		

Component	Good Condition	Needs Repair	N/A
Bearings	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Chains	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sprockets	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Discs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Drive Motor & Gearbox	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Oilers	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Notes:



Photo A

Photo A shows one of the many bad bearings on this screen. We recommend replacing all damaged bearings on this screen to prevent damage to the rotors.


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Photo B

Photo B shows the empty oiler. We recommend that the oiler is filled and put back into use.

Deck 1 on the drive side requires new bearings on shafts 3, 8 & 9. Shaft #8 on deck 1 needs to be replaced.

Deck 2 on the drive side requires new bearings on shafts 1, 2, 3, 5, 7, 9 & 10.

Deck 2—shaft #2 on the driven side needs to be replaced.

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Item #	M30	Motor #	M30
Description:	ADS Feed Conveyor		


Component	Good Condition	Needs Repair	N/A
Head Pulley	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tail Pulley	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Return Roller	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Support Roller	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Trough Roller	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Lacing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tracking	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tensioning	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Guarding	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bearings	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Belt	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gearmotor	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Notes:



Photo A

Photo A shows the worn condition of the belting. We recommend replacing this belt when possible.

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Item #	M31B	Motor #	M31B
Description:	ADS Double		


Condition	Good Condition	Needs Repair	N/A
Rollers	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Seals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Drum	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Motors	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Farr Unit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Blowers	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Impellor	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Notes:



Photo A

ADS guide plate is missing. We recommend that the guide plate is replaced to increase performance.

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Item #	M37	Motor #	M37
Description:	Fiber Transfer Conveyor		


Component	Good Condition	Needs Repair	N/A
Head Pulley	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tail Pulley	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Return Roller	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Support Roller	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Trough Roller	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Lacing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tracking	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tensioning	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Guarding	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bearings	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Belt	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gearmotor	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Notes:



Photo A

Photo A shows the gear motor supported by a chain. We recommend replacing the torque arm bracket and mounting the gear motor properly to prevent damage to the pulley or gear motor.


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Item #	M48	Motor #	M48
Description:	Over Belt Magnet		

Component	Good Condition	Needs Repair	N/A
Head Pulley	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tail Pulley	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Return Roller	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Support Roller	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Trough Roller	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Lacing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tracking	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tensioning	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Guarding	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bearings	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Belt	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gearmotor	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Notes:

The Over Belt Magnet was in good condition during our inspection.

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Item #	M50A	Motor #	M50A
Description:	MSS Aladdin		


Condition	Good Condition	Needs Repair	N/A
Head Pulley	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tail Pulley	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Return Roller	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Support Roller	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Trough Roller	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Lacing	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tracking	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tensioning	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Guarding	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bearings	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Compressor	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Optics	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Belt	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Notes:



Photo A

Photo A shows the missing glass on the light bar. One was on order at time of audit.

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Item #	M50A	Motor #	M50A
Description:	MSS Aladdin		


Condition	Good Condition	Needs Repair	N/A
Bearings	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Drive Motor & Gearbox	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Blowers	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Intakes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Exhaust	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Guarding	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Notes:



Photo A

Photo A shows some debris that has built up on the impellor. We recommend that the impellor be cleaned on a regular basis. The silo blower overall is in good condition.

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Item #	M55	Motor #	M55
Description:	Eddy Current		

Component	Good Condition	Needs Repair	N/A
Head Pulley	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tail Pulley	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Return Roller	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Support Roller	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Trough Roller	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Lacing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tracking	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tensioning	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Guarding	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bearings	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Belt	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Gearmotor	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Notes:

No photo available.

Drive belt missing from pulley motor. We recommend replacing the missing drive belt as soon as possible to prevent Eddy Current failure.

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Item #	M62	Motor #	M62
Description:	Glass Transfer Conveyor		


Component	Good Condition	Needs Repair	N/A
Head Pulley	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tail Pulley	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Return Roller	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Support Roller	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Trough Roller	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Lacing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tracking	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tensioning	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Guarding	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bearings	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Belt	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Gearmotor	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Notes:



Photo A

Photo A shows the jammed up- turn roller. We recommend replacing these rollers when possible. Also, the lacing is damaged and in need of repair to prevent material loss.

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Item #	M64A, B & C	Motor #	M64A, B & C
Description:	Glass Cleanup System		

Condition	Good Condition	Needs Repair	N/A
Rotary Valve Vanes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cyclone Liners	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Blower Impellor Blade	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sock	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ducting	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gearmotor	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Conveyor Belt	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Separation Chamber	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Notes:



Photo A



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Photo B

Photos A & B show the worn condition of the urethane liners in the cyclone. We recommend replacing these liners to help maximize the glass cleanup's efficiency. We also recommend that the seals be adjusted so that they meet the conveyor belt. This will help with the separation quality.

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Item #	M72	Motor #	M72
Description:	Baler Feed Conveyor		

Component	Good Condition	Needs Repair	N/A
Head Pulley	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tail Pulley	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Return Roller	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Support Roller	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Trough Roller	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Lacing	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tracking	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tensioning	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Guarding	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bearings	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Belt	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Gearmotor	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Notes:



Photo A



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Photo B

Photos A & B show the missing or damaged belting sections. We recommend replacing this belt when possible.

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Item #	M73	Motor #	M73
Description:	Gorilla Baler		

Component	Good Condition	Needs Repair	N/A
Bearings	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Chains	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sprockets	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Discs	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Drive Motor & Gearbox	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Oilers	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Notes:



Photo A


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Photo B



Photo C

The overall condition of the baler is good. There is a ¼” knife gap that should be monitored. We also recommend flipping the blades. Shim and adjustment is also recommended. The door ram area needs to be cleaned and there is a radiator leak that was being repaired while we were on site.


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Summary:

From a mechanical perspective, the equipment is performing as designed. The condition of the equipment is in good operating condition overall. The following are some bullet points from our audit:

1. The OCC Screen requires some maintenance attention as soon as possible. There are multiple bearings that require replacement immediately. We recommend that these shafts are clocked accordingly as soon as possible.
2. The Newscreen should have all of the rubber finger discs replaced as soon as possible to maximize material separation. These discs are crucial in optimizing the screens performance.
3. Steel Belt Conveyors are running with too much slack. The steel belt conveyor for the Incline Conveyor C-2 is in need of tensioning to prevent costly belt and sprocket damage.
4. Rubber Belt Conveyors need to have the belting replaced once the belting is completely worn. Multiple conveyors were seen with patches or missing sections in the belting. The conveyors also need to have some maintenance attention on the return rollers.
5. The Metering Drum needs some maintenance attention. The shaft wrappings that were seen during our inspection are causing damage to the sidewalls of the Metering Drum.

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