

Appendix J

PLANT LAYOUT & SPECIFICATION

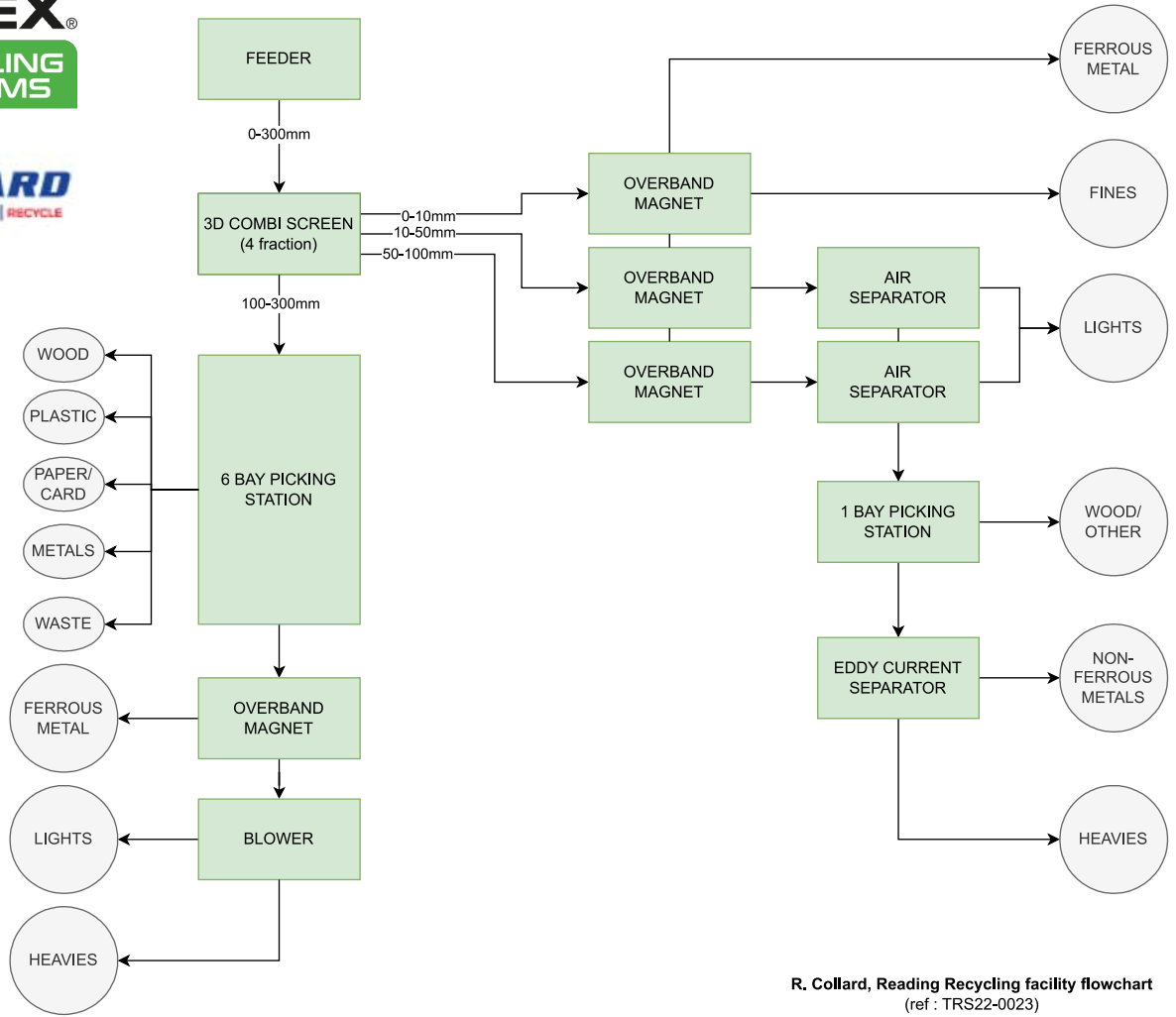


R. Collard

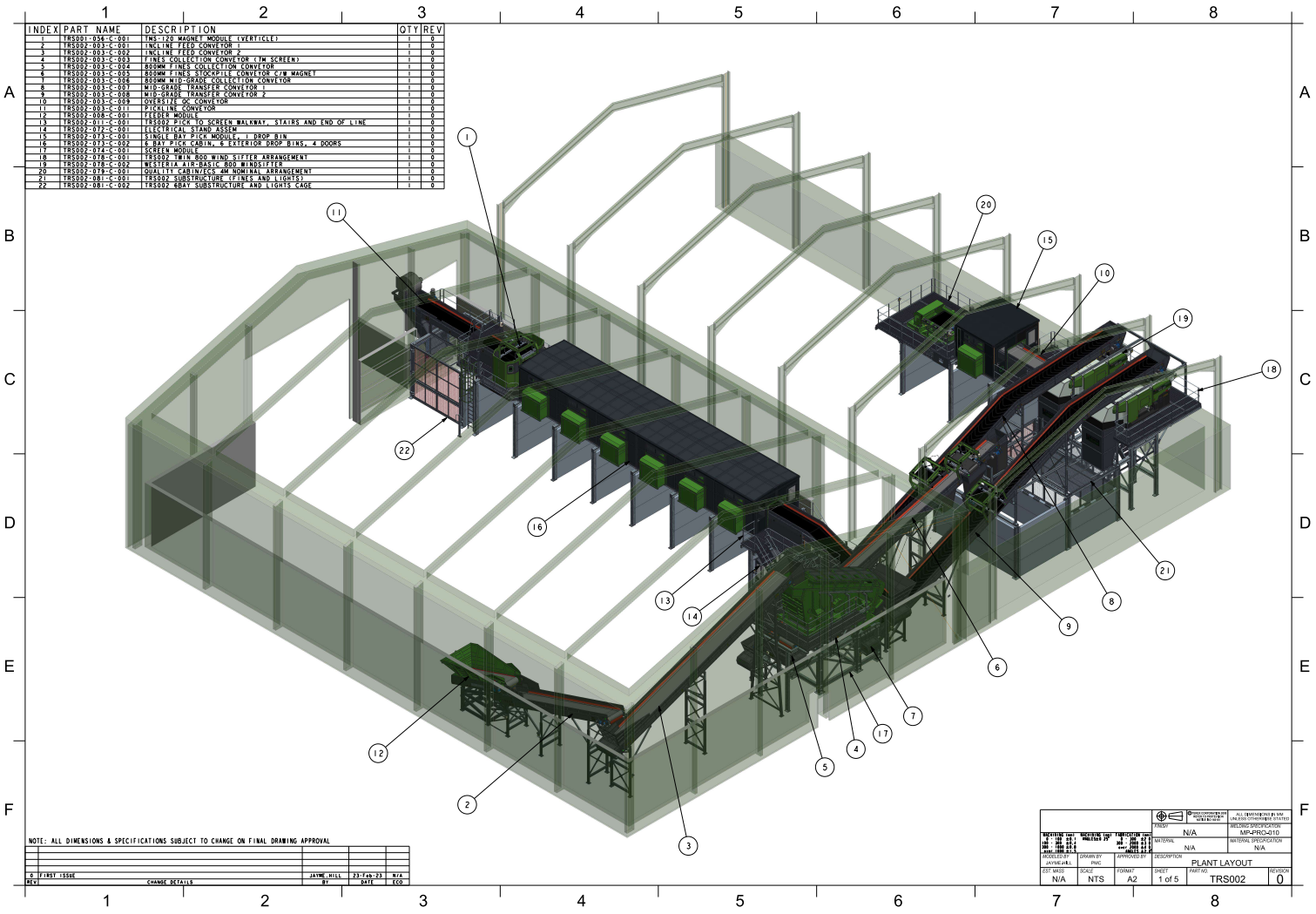
Reading Recycling Facility

Process description

1. Material is pre-sorted with a material handler to remove any abnormal oversize material before being loaded into the feed hopper, which has variable belt speed to control the feed rate of material into the plant
2. Material is transported by a series of conveyor belts to a vibrating screen which uses special screen media to separate the material by size into the following fractions:
 - a. 0-10mm "fines"
 - b. 10-50mm "midsize"
 - c. 50-100mm "midsize"
 - d. >100mm "oversize"
3. 0-10mm fines are collected and transported by a series of conveyor belts to a storage bay, whilst passing beneath an over-band magnet which removes any ferrous metals present and discharges to a container
4. 10-50mm midsize fraction is transported by conveyor belt to air separation, whilst passing beneath an over-band magnet which removes any ferrous metals present and discharges to a container
5. 50-100mm midsize fraction is transported by conveyor belt to air separation, whilst passing beneath an over-band magnet which removes any ferrous metals present and discharges to a container
6. Parallel air separators remove any light materials from the 10-50mm and 50-100mm fractions respectively. The light fraction is blown from the material stream using an adjustable fan and separation drum and is collected in lights bay with mesh enclosure for containment
7. Heavy fractions from both air separators are collected and conveyed through a manual quality control station where operatives can remove any remaining heavy contaminants (e.g., dense wood etc) which is dropped via chutes into the storage bay beneath
8. After manual quality control the heavy fraction is fed onto an eddy current separator which uses a high-speed rotor with magnets to remove non-ferrous metal which is discharged to a container and clean heavy fraction drops to storage bay beneath
9. >100mm oversize material is conveyed from the vibrating screen through a 6 bay manual picking station, where operatives can sort out target materials and drop via chutes into storage bays beneath (for example wood, cardboard, plastic etc)
10. After manual sorting, material is conveyed beneath an over-band magnet to remove any ferrous metals present
11. As material drops off the end of the conveyor a blower removes any remaining light material via a chute into lights bay with mesh enclosure for containment and clean heavy fraction drops into storage bay



R. Collard, Reading Recycling facility flowchart
(ref : TRS22-0023)

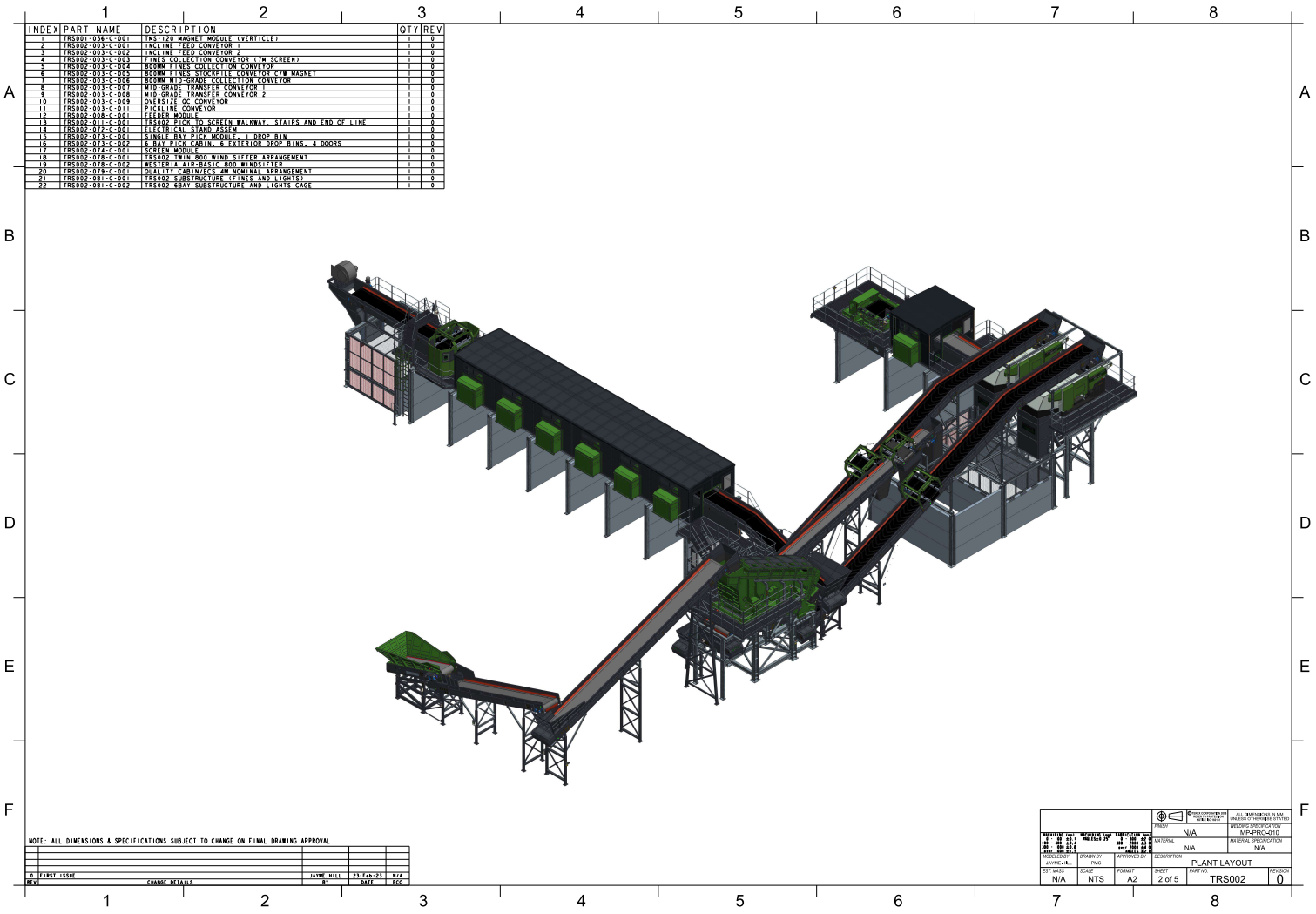


INDEX	PART NAME	DESCRIPTION	QTY	REV
1	TRSD01-034-C-001	TRSD120 MAGNET MODULE (VERTICAL)	1	0
2	TRSD02-003-C-001	INCLINE FEED CONVEYOR 1	1	0
3	TRSD02-003-C-002	INCLINE FEED CONVEYOR 2	1	0
4	TRSD02-003-C-003	FINES COLLECTION CONVEYOR (W/ SCREEN)	1	0
5	TRSD02-003-C-004	ROOM FINE COLLECTION CONVEYOR	1	0
6	TRSD02-003-C-005	ROOM FINE STOCKPILE CONVEYOR (W/ MAGNET)	1	0
7	TRSD02-003-C-006	ROOM MID-GRADE COLLECTION CONVEYOR	1	0
8	TRSD02-003-C-007	MID-GRADE TRANSFER CONVEYOR 1	1	0
9	TRSD02-003-C-008	MID-GRADE TRANSFER CONVEYOR 2	1	0
10	TRSD02-003-C-009	OVERSTOCK CONVEYOR	1	0
11	TRSD02-003-C-011	PICKLING CONVEYOR	1	0
12	TRSD02-008-C-001	FEEDS MODULE	1	0
13	TRSD02-011-C-001	TRSD02 PICK TO SCREEN WALKWAY, STAIRS AND END OF LINE	1	0
14	TRSD02-034-C-001	ELECTRICAL STAND, 2500V	1	0
15	TRSD02-073-C-001	SINGLE RAY PICK MODULE - 1 DROP BIN	1	0
16	TRSD02-073-C-002	SINGLE RAY PICK MODULE - 2 RAY PICK CARTR. & 2 RAY PICK DROP BINS, 4 DOORS	1	0
17	TRSD02-074-C-001	SCREEN MODULE	1	0
18	TRSD02-076-C-001	TRSD02 W/ 800 WIND STIFFER ARRANGEMENT	1	0
19	TRSD02-076-C-002	WESTERLY AIR-BLAST 600 WINDSTIFFER	1	0
20	TRSD02-079-C-001	QUALITY CHECKING AND SORTING ARRANGEMENT	1	0
21	TRSD02-081-C-001	TRSD02 SUBSTRUCTURE (PILES AND LIGHTS)	1	0
22	TRSD02-081-C-002	TRSD02 SUBSTRUCTURE AND LIGHTS CAGE	1	0

NOTE: ALL DIMENSIONS & SPECIFICATIONS SUBJECT TO CHANGE ON FINAL DRAWING APPROVAL

REV	DATE	BY	CHKD	APPD
1	23-FEB-23	JAYNE HILL	ECO	

PROJECT	TRSD02	TRSD02	TRSD02	TRSD02
DATE	23-FEB-23	23-FEB-23	23-FEB-23	23-FEB-23
DESIGNED BY	JAYNE HILL	ECO	ECO	ECO
CHECKED BY	JAYNE HILL	ECO	ECO	ECO
DATE	23-FEB-23	23-FEB-23	23-FEB-23	23-FEB-23
SCALE	N/A	NTS	AS SHOWN	AS SHOWN
PROJECT	TRSD02	TRSD02	TRSD02	TRSD02
SHEET	1 of 5	1 of 5	1 of 5	1 of 5
PLANT LAYOUT	TRSD02	TRSD02	TRSD02	TRSD02
REVISION	0	0	0	0



NOTES		REVISIONS		PLANT LAYOUT	
1	23-FEB-23	JAYNE HILL	NA	ECO	0
2	23-FEB-23	JAYNE HILL	NA	ECO	0
3	23-FEB-23	JAYNE HILL	NA	ECO	0
4	23-FEB-23	JAYNE HILL	NA	ECO	0
5	23-FEB-23	JAYNE HILL	NA	ECO	0
6	23-FEB-23	JAYNE HILL	NA	ECO	0
7	23-FEB-23	JAYNE HILL	NA	ECO	0
8	23-FEB-23	JAYNE HILL	NA	ECO	0
9	23-FEB-23	JAYNE HILL	NA	ECO	0
10	23-FEB-23	JAYNE HILL	NA	ECO	0
11	23-FEB-23	JAYNE HILL	NA	ECO	0
12	23-FEB-23	JAYNE HILL	NA	ECO	0
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14	23-FEB-23	JAYNE HILL	NA	ECO	0
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16	23-FEB-23	JAYNE HILL	NA	ECO	0
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18	23-FEB-23	JAYNE HILL	NA	ECO	0
19	23-FEB-23	JAYNE HILL	NA	ECO	0
20	23-FEB-23	JAYNE HILL	NA	ECO	0
21	23-FEB-23	JAYNE HILL	NA	ECO	0
22	23-FEB-23	JAYNE HILL	NA	ECO	0

