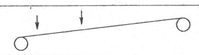
## BASIC DATA

| CONVEYOR NO. | BELT WIDTH (mm) | EQUIPMENT NUMBER | CONVEYING FROM | CONVEYING TO | NUMBER OF LOADING PTS. | CONVEYOR DIAGRAM | HORIZONTAL CENTERS (m) | VERTICAL CENTERS (m) | ANGLE OF INCLINE | CONVEYOR DRAWING NO. | REMARKS | MATERIAL TYPE | MATERIAL SIZE (mm) | MATERIAL DENSITY (t/m³) | AMBIENT TEMP. RANGE °C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 55 | 600 | 100-41-55 | CLEAN COAL CENTRIFUGES 100-20-01/02 | (EXISTING) CONVEYOR 044 | 2 | | 12 500 | 1314 | 5° | | FOR GENERAL ARRANGEMENTS SEE DRAWINGS 100-10-004 AND 100-10-007 | CLEAN COAL | 19 x 0 | 0.8 | AMB. |
| 56 | 600 | 100-41-56 | REFUSE D & R SCREEN 100-11--10 EXISTING REFUSE CONV. 026 | REFUSE REMOVAL | 2 |  | 8880 | 2379 | 15° | | FOR GENERAL ARRANGEMENTS SEE DRAWINGS 100-10-004 AND 100-10-008 | REFUSE | 19 x 0 | 1.25 | AMB. |
| 57 | 750 | 100-41-57 | EXISTING CONVEYOR 018 | SIZING SCREEN | 3 | | 31.669 | 2.379 | 16° 18d51'36" | | FOR GENERAL ARRANGEMENTS SEE DRAWINGS 100-10-008 AND 100-10-009 | RAW COAL | 50 x 0 | 0.85 | AMB. |
| 58 | 600 | 100-41-58 | SIZING SCREEN | EAGLE WASHER | 4 | | 12.824 | 0 | 0° | | FOR GENERAL ARRANGEMENTS SEE DRAWINGS 100-10-005 AND 100-10-006 | RAW COAL | 50 x 19 | 0.85 | AMB. |

## DESIGN CRITERIA

| CONVEYOR NO. | FLOW SHEET (t/HR) | DESIGN (t/HR) | DESIGN (m³/HR) | CEMA SURCHARGE ANGLE | % LOADING FLSH/DESIGN | DESIGN BELT SPEED (m/sec) | ACTUAL BELT SPEED (m/sec) | CALCULATED kW SHAFT/MOTOR | STARTING TORQUE % | TENSIONS (kN) TE. EFFECTIVE TENSION | T1. TIGHT SIDE TENSION | T2. SLACK SIDE TENSION | T1. MAXIMUM START-UP TENSION | TAKE-UP TRAVEL (m) | TAKE-UP MASS kg (TOTAL) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 55 | 83 | 100 | | | 85 | | 1.55 | 22 | | 18.19 | 35.98 | 17.78 | 6.67 | | |
| 56 | 77.5 | 101 | | | 85 | | 1.02 | 21 | | 19.32 | 37.12 | 17.78 | 6.67 | | |
| 57 | 227 | 289 | | | 85 | | 2.08 | 55 | | 24.54 | 42.13 | 17.59 | 6.67 | | |
| 58 | 85.3 | 109 | | | 85 | | 1.27 | 24 | | 17.66 | 35.45 | 17.78 | 6.67 | | |

## BELT

| CONVEYOR NO. | CARCASS | No. OF PLIES | No. OF BREAKERS | TOP COVER (mm) & RMA No. | BOT. COVER (mm) | TOTAL BELT THICKNESS (mm) | REQUIRED TENSION kN/m | ALLOWABLE TENSION kN/m | BELT LENGTH (m) | SPLICE TYPE |
|---|---|---|---|---|---|---|---|---|---|---|
| 55 | | | | | | | | | | |
| 56 | | | | | | | | | | |
| 57 | | | | | | | | | | |
| 58 | | | | | | | | | | |

## CONVEYOR COMPONENTS (All Dimensions in mm U.N.O.)

| CONVEYOR NO. | DRIVE PULLEY DEGREES WRAP | PULLEY R.P.M. | PULLEY DIA. | PULLEY FACE | LAGGING THICKNESS | SHAFT DIA. @ PULLEY | SHAFT MATERIAL | BEARING CENTERS | PILLOWBLOCK SIZE & MODEL | HEAD PULLEY PULLEY DIA. | PULLEY FACE | LAGGING THICKNESS | SHAFT DIA. @ PULLEY | SHAFT MATERIAL | BEARING CENTERS | PILLOWBLOCK SIZE & MODEL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 55 | | | | | | | | | | | | | | | | |
| 56 | | | | | | | | | | | | | | | | |
| 57 | | | | | | | | | | | | | | | | |
| 58 | | | | | | | | | | | | | | | | |

| CONVEYOR NO. | H.T. BEND OR SNUB PULLEY PULLEY DIA. | PULLEY FACE | LAGGING THICKNESS | SHAFT DIA. @ PULLEY | SHAFT MATERIAL | BEARING CENTERS | PILLOWBLOCK SIZE & MODEL | TAIL PULLEY PULLEY DIA. | PULLEY FACE | LAGGING THICKNESS | SHAFT DIA. @ PULLEY | SHAFT MATERIAL | BEARING CENTERS | PILLOWBLOCK SIZE & MODEL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 55 | | | | | | | | | | | | | | |
| 56 | | | | | | | | | | | | | | |
| 57 | | | | | | | | | | | | | | |
| 58 | | | | | | | | | | | | | | |

| CONVEYOR NO. | L.T. BEND OR SNUB PULLEY PULLEY DIA. | PULLEY FACE | LAGGING THICKNESS | SHAFT DIA. @ PULLEY | SHAFT MATERIAL | BEARING CENTERS | PILLOWBLOCK SIZE & MODEL | TAKE-UP PULLEY PULLEY DIA. | PULLEY FACE | LAGGING THICKNESS | SHAFT DIA. @ PULLEY | SHAFT MATERIAL | BEARING CENTERS | PILLOWBLOCK SIZE & MODEL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 55 | | | | | | | | | | | | | | |
| 56 | | | | | | | | | | | | | | |
| 57 | | | | | | | | | | | | | | |
| 58 | | | | | | | | | | | | | | |

| CONVEYOR NO. | IDLERS CARRYING DIAMETER IMPACT | TROUGHING | 45° TROUGHING | 45° TRAINING | 45° IMPACT | 35° TROUGHING | 35° TRAINING | 35° IMPACT | 20° TROUGHING | 20° TRAINING | 20° IMPACT | 35° PRECISION | QUANTITY CARRYING | RETURN DIAMETER | STANDARD FLAT | STANDARD TRAINING | QUANTITY RETURN | TOTAL QUANTITY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 55 | | | | | | | | | | | | | | | | | | |
| 56 | | | | | | | | | | | | | | | | | | |
| 57 | | | | | | | | | | | | | | | | | | |
| 58 | | | | | | | | | | | | | | | | | | |

## DRIVE

| CONVEYOR NO. | MOTOR OVERALL DRIVE RATIO / MOTOR TO DRIVESHAFT | SELECTED POWER kW & RPM | SUPPLY V/PHASE/Hz | FRAME NUMBER | TYPE, DESIGN & MAX TORQUE (% FLT) | COUPLINGS HIGH SPEED TYPE & SIZE | LOW SPEED TYPE & SIZE | SPECIAL TYPE & SIZE | BELT DRIVE RATIO | NUMBER OF BELTS | BELT SIZE | DIAMETER DRIVER mm | DIAMETER DRIVEN mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 55 | | | | | | | | | | | | | |
| 56 | | | | | | | | | | | | | |
| 57 | | | | | | | | | | | | | |
| 58 | | | | | | | | | | | | | |

| CONVEYOR NO. | REDUCER TYPE & MODEL | SIZE | RATIO | INPUT R.P.M. | OUTPUT R.P.M. | c/w ACCESSORIES & SHAFT ROT. SEE GEN. NOTES | CHAIN DRIVE RATIO | NUMBER OF STRANDS | PITCH mm | DRIVER PITCH DIA. (mm) | DRIVER NUMBER OF TEETH | DRIVER HUB TYPE | DRIVEN PITCH DIA. (mm) | DRIVEN NUMBER OF TEETH | DRIVEN HUB TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 55 | | | | | | | | | | | | | | | |
| 56 | | | | | | | | | | | | | | | |
| 57 | | | | | | | | | | | | | | | |
| 58 | | | | | | | | | | | | | | | |

## ACCESSORIES

| CONVEYOR NO. | MISCELLANEOUS | BACKSTOP TYPE & MODEL | MINIMUM TORQUE CAPACITY N-m | LOCATION & BORE DIA. | REMARKS |
|---|---|---|---|---|---|
| 55 | | | | | |
| 56 | | | | | |
| 57 | | | | | |
| 58 | | | | | |

NOTES:

1. CALCULATED kW SHAFT/MOTOR TO BE CONFIRMED BY MANUFACTURER.

NOT FOR CONSTRUCTION

| DWG. NO | REFERENCE DRAWINGS |
|---|---|

| No | DESCRIPTION | DATE | BY |
|---|---|---|---|
| B | DRAWINGS RE-ISSUED - NO CHANGES TO PREVIOUS ISSUE | JUN95 | GWL |
| A | ISSUED FOR INFORMATION | 10NOV93 | J.H. |

REVISIONS

SECTION: MECHANICAL
SCALE: NONE — DATE
DESIGNED BY: GWL — JUL/93
DRAWN BY: SCP — JUL/93
CHECKED BY:
APPROVED BY:

CLIENT: BRINCO COAL MINING CORPORATION
Division of Hillsborough Resources Limited
LOCATION: CAMPBELL RIVER B.C.

KILBORN

ENGINEERING DATA CONTAINED HEREIN ARE RESTRICTED IN USE FOR THE ORIGINAL PURPOSE FOR WHICH THEY ARE PREPARED

10016021.DWG

TITLE: QUINSAM COAL - WASH PLANT EXPANSION
CONVEYOR
DATA SHEET

ACT. No. 8537 — PROJECT No. 25 — DIVISION No.
DRAWING NUMBER 100-16-021 — REV. B

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