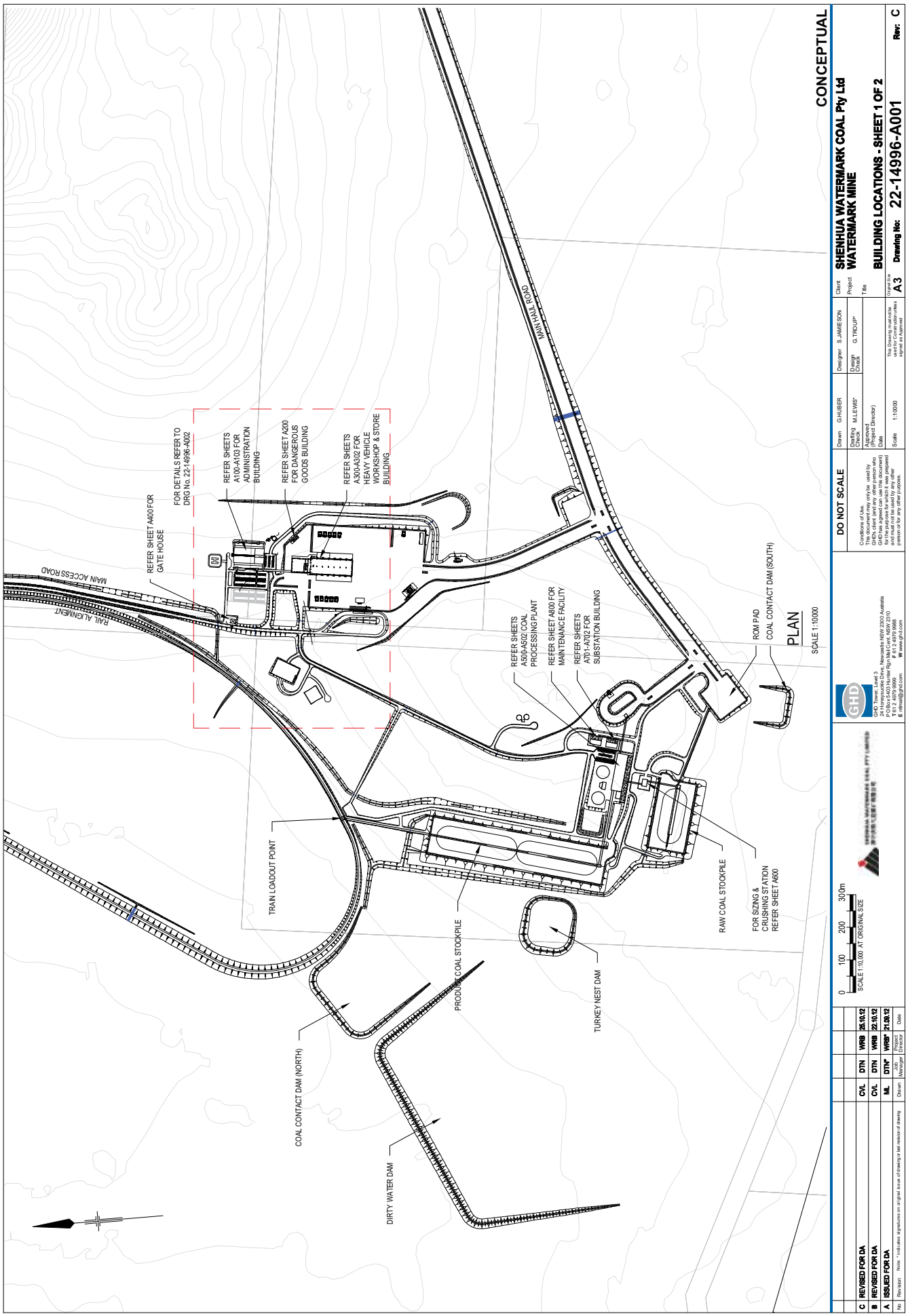
WATERMARK
COAL PROJECT

ENVIRONMENTAL IMPACT STATEMENT

February 2013

B
Detailed Design Drawings


CONCEPTUAL
PLAN
SCALE 1:10000
MAIN HAUL ROAD
MAIN ACCESS ROAD
RAIL ALIGNMENT
REFER SHEET A400 FOR GATE HOUSE
FOR DETAILS REFER TO DRG No. 22-14996-A002
REFER SHEETS A100-A103 FOR ADMINISTRATION BUILDING
REFER SHEET A200 FOR DANGEROUS GOODS BUILDING
REFER SHEETS A300-A302 FOR HEAVY VEHICLE WORKSHOP & STORE BUILDING
REFER SHEETS A500-A502 COAL PROCESSING PLANT
REFER SHEET A600 FOR MAINTENANCE FACILITY
REFER SHEETS A701-A702 FOR SUBSTATION BUILDING
ROM PAD
COAL CONTACT DAM (SOUTH)
TRAIN LOADOUT POINT
PRODUCT COAL STOCKPILE
TURKEY NEST DAM
RAW COAL STOCKPILE
FOR SIZING & CRUSHING STATION REFER SHEET A600
COAL CONTACT DAM (NORTH)
DIRTY WATER DAM
0 100 200 300m
SCALE 1:10,000 AT ORIGINAL SIZE
DO NOT SCALE
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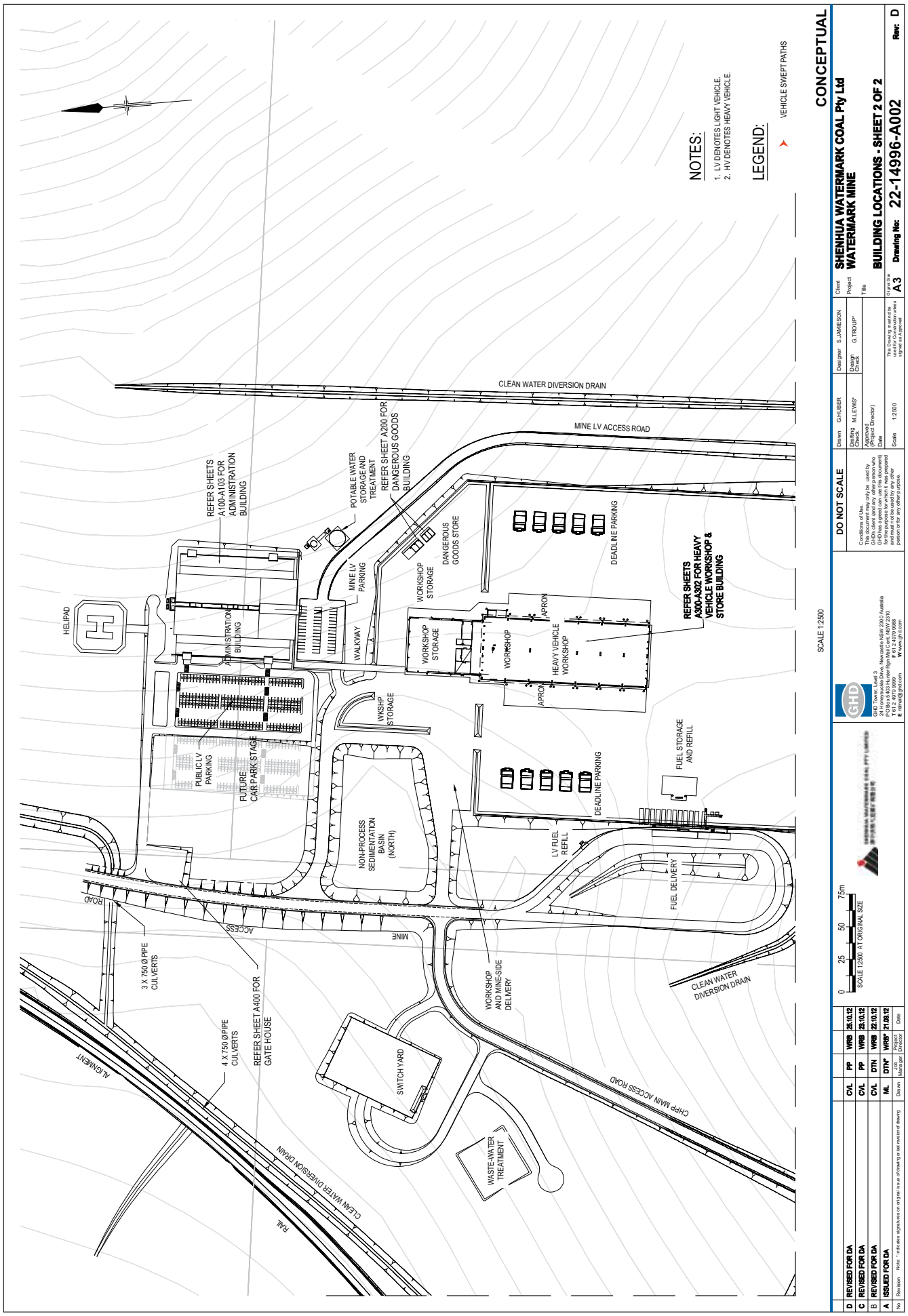
Drawn G.HUBER
Dwg'n Check M.LEWIS*
Approved (Project Director) Date
Scale 1:10000
Designer S.JAMIESON
Dwg'n Check G.TROUP*
This Drawing must not be used for Construction unless signed as Approved
Client SHENHUA WATERMARK COAL Pty Ltd
Project WATERMARK MINE
Title BUILDING LOCATIONS - SHEET 1 OF 2
Drawing No: 22-14996-A001
Rev: C
Paper Size A3
GHD
GHD Tower, Level 3
24 Honeycombe Drive, Newcastle NSW 2300 Australia
P.O. Box 2069 Hunter Region Mail Centre, NSW 2310
T 61 2 4979 9999
E nsmw@ghd.com
W www.ghd.com
C REVISED FOR DA C.VL DTN WRB 26.10.12
B REVISED FOR DA C.VL DTN WRB 22.10.12
A ISSUED FOR DA ML DTN* WRB* 21.09.12
No. Revision Drawn Job Manager Project Director Date
Cad File No: G:\22\14996\CAD\Bldl\Import Data\REVISED FOR DA\GHD-SKT-DV0103.dwg
Plot Date: 25 October 2012 - 12:38 PM Plotted By: Chris van Lint
Note: * indicates signatures on original issue of drawing or last revision of drawing


CONCEPTUAL
NOTES:
1. LV DENOTES LIGHT VEHICLE.
2. HV DENOTES HEAVY VEHICLE.
LEGEND:
VEHICLE SWEPT PATHS
CLEAN WATER DIVERSION DRAIN
MINE LV ACCESS ROAD
REFER SHEETS A100-A103 FOR ADMINISTRATION BUILDING
POTABLE WATER STORAGE AND TREATMENT
REFER SHEET A200 FOR DANGEROUS GOODS BUILDING
DANGEROUS GOODS STORE
WORKSHOP STORAGE
MINE LV PARKING
WALKWAY
DEADLINE PARKING
REFER SHEETS A300-A302 FOR HEAVY VEHICLE WORKSHOP & STORE BUILDING
APRON
WORKSHOP
HEAVY VEHICLE WORKSHOP
HELIPAD
ADMINISTRATION BUILDING
PUBLIC LV PARKING
FUTURE CAR PARK STAGE
WKSHP STORAGE
FUEL STORAGE AND REFILL
NON-PROCESS SEDIMENTATION BASIN (NORTH)
LV FUEL REFILL
FUEL DELIVERY
ACCESS ROAD
MINE
3 X 750 Ø PIPE CULVERTS
REFER SHEET A400 FOR GATE HOUSE
4 X 750 Ø PIPE CULVERTS
WORKSHOP AND MINE-SIDE DELIVERY
CLEAN WATER DIVERSION DRAIN
SWITCH YARD
CHPP MAIN ACCESS ROAD
WASTE-WATER TREATMENT
CLEAN WATER DIVERSION DRAIN
RAIL ALIGNMENT
SCALE 1:2500
0 25 50 75m
SCALE 1:2500 AT ORIGINAL SIZE
DO NOT SCALE
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E ntmail@ghd.com W www.ghd.com
Drawn G.HUBER
Drafting Check M.LEWIS*
Approved (Project Director)
Date
Scale 1:2500
Designer S.JAMIESON
Design Check G.TROUP*
This Drawing must not be used for construction unless signed as Approved
Client SHENHUA WATERMARK COAL Pty Ltd
Project WATERMARK MINE
Title BUILDING LOCATIONS - SHEET 2 OF 2
Original size A3
Drawing No: 22-14996-A002
Rev: D
D REVISED FOR DA C/L PP WRB 25.10.12
C REVISED FOR DA C/L PP WRB 23.10.12
B REVISED FOR DA C/L DTN WRB 22.10.12
A ISSUED FOR DA ML DTN* WRB* 21.08.12
No Revision Drawn Manager Project Director Date
Note: * Indicates signature on original issue of drawing or last revision of drawing
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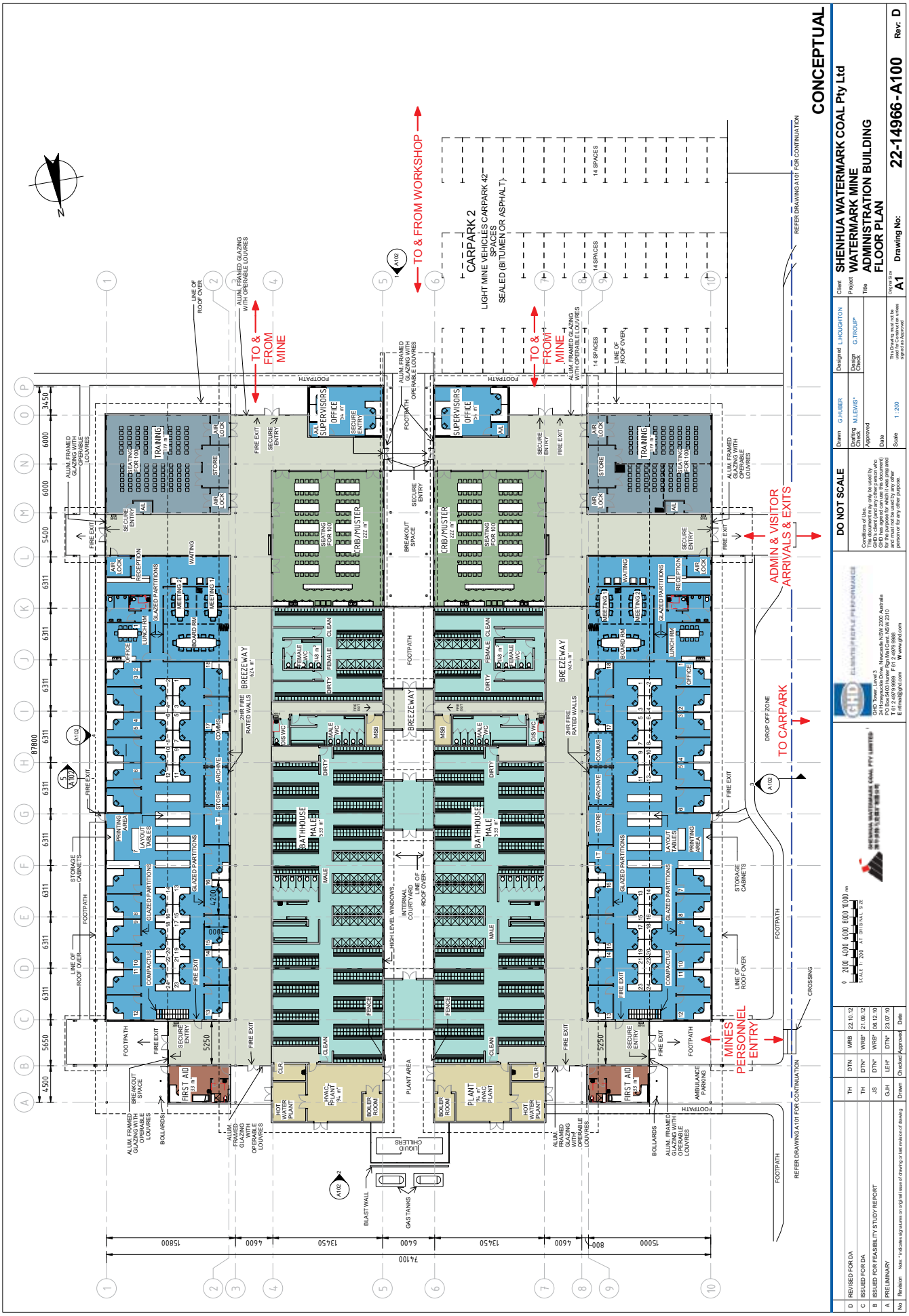
Plot Date: 25 October 2012 - 12:35 PM Plotted By: Chris van Urk



No	Revision	Drawn	Checked	Approved	Date
D	REVISED FOR DA	TH	DTN	WRB	22.10.12
C	ISSUED FOR DA	TH	DTN*	WRB*	21.08.12
B	ISSUED FOR FEASIBILITY STUDY REPORT	JS	DTN*	WRB*	06.12.10
A	PRELIMINARY	GJH	LEH*	DTN*	23.07.10

Rvd Date: 22/10/2012 4:01:34 PM Cad File No: G:\22\14966\CADD\BIM\Model Reviewed for DA\22-14966_Admin Building.rvt

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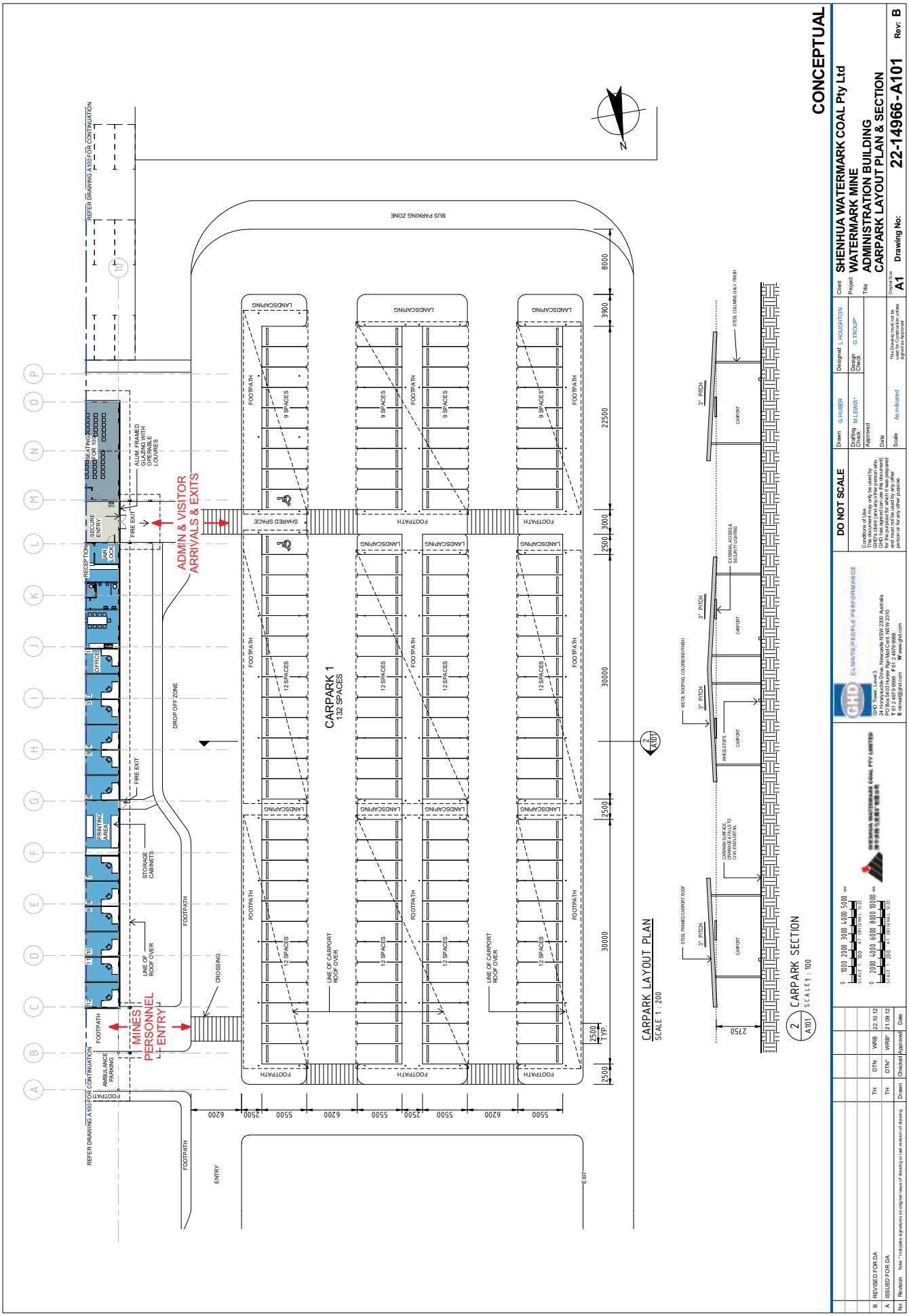
E mail@ghd.com.au W www.ghd.com

SHENHUA WATERMARK COAL PTY LIMITED

0 2000 4000 6000 8000 10000 mm
SCALE: 1:200 AT A1 LANDSCAPE SIZE


CONCEPTUAL
SHENHUA WATERMARK COAL Pty Ltd
WATERMARK MINE
ADMINISTRATION BUILDING
CARPARK LAYOUT PLAN & SECTION
22-14966-A101
Rev: B
A1
DO NOT SCALE
CARPARK LAYOUT PLAN
SCALE 1 : 200
CARPARK SECTION
SCALE 1 : 100
CARPARK 1
132 SPACES
ADMIN & VISITOR ARRIVALS & EXITS
MINES PERSONNEL ENTRY
BUS PARKING ZONE
DROP OFF ZONE
FOOTPATH
LANDSCAPING
SHARED SPACE
9 SPACES
12 SPACES
LINE OF CARPORT ROOF OVER
ENTRY
EXIT
REFER DRAWING A100 FOR CONTINUATION
RECEPTION
OFFICE
PRINTING AREA
STORAGE CABINETS
FIRE EXIT
SECURE ENTRY
AIR LOCK
SEATING FOR 100
ALUM. FRAMED GLAZING WITH OPERABLE LOUVRES
AMBULANCE PARKING
CROSSING
LINE OF ROOF OVER
STEEL COLUMNS GALV. FINISH
3° PITCH
CARPORT
EXTERNAL ACCESS & SECURITY LIGHTING
METAL ROOFING COLORBOND FINISH
WHEELSTOPS
CARPARK SURFACE DRAINAGE DETAIL TO ENGINEERS DETAIL
STEEL FRAMED CARPORT ROOF
2750
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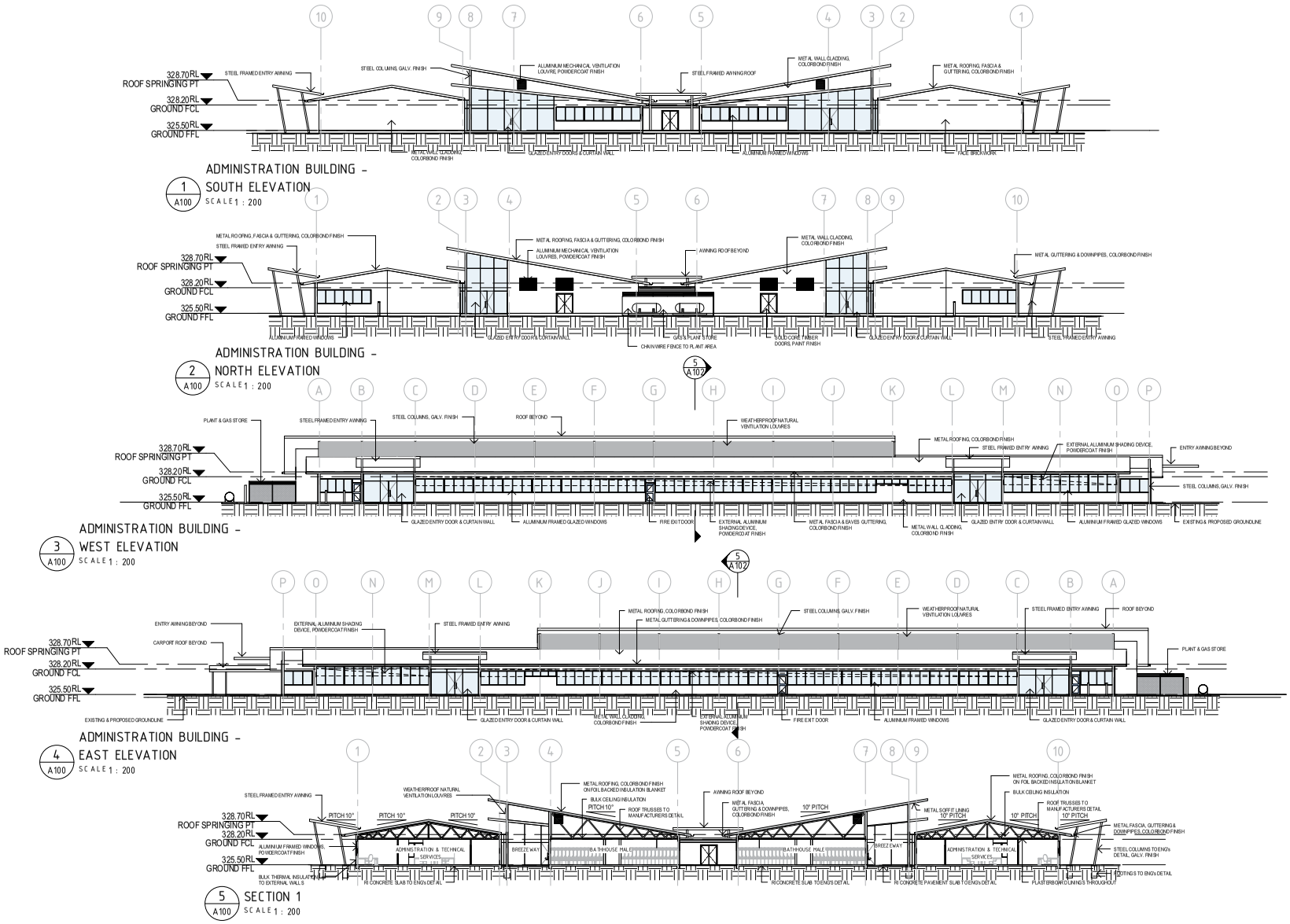
Drawn G.HUBER
Drafting Check M.LEWIS*
Approved
Date
Scale As indicated
Designed J.HOUGHTON
Design Check G.TROUP*
This Drawing must not be used for Construction unless signed as Approved
Client
Project
Title
Drawing No:
Revised for DA
Issued for DA
Cad File No: G:\22\14966\CADD\BIM\Model Revised for DA\22-14966_Admin Building.rvt
Plot Date: 22/10/2012 4:03:49 PM



CONCEPTUAL

No	Revision	Drawn	Checked	Approved	Date
B	REVISED FOR DA	TH	DTN	WRB	22.10.12
A	ISSUED FOR DA	TH	DTN*	WRB*	21.09.12

Note: * indicates signatures on original issue of drawing or last revision of drawing

0 2000 4000 6000 8000 10000 mm
SCALE 1 : 200 AT ORIGINAL SIZE

SHENHUA WATERMARK COAL PTY LIMITED

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DO NOT SCALE

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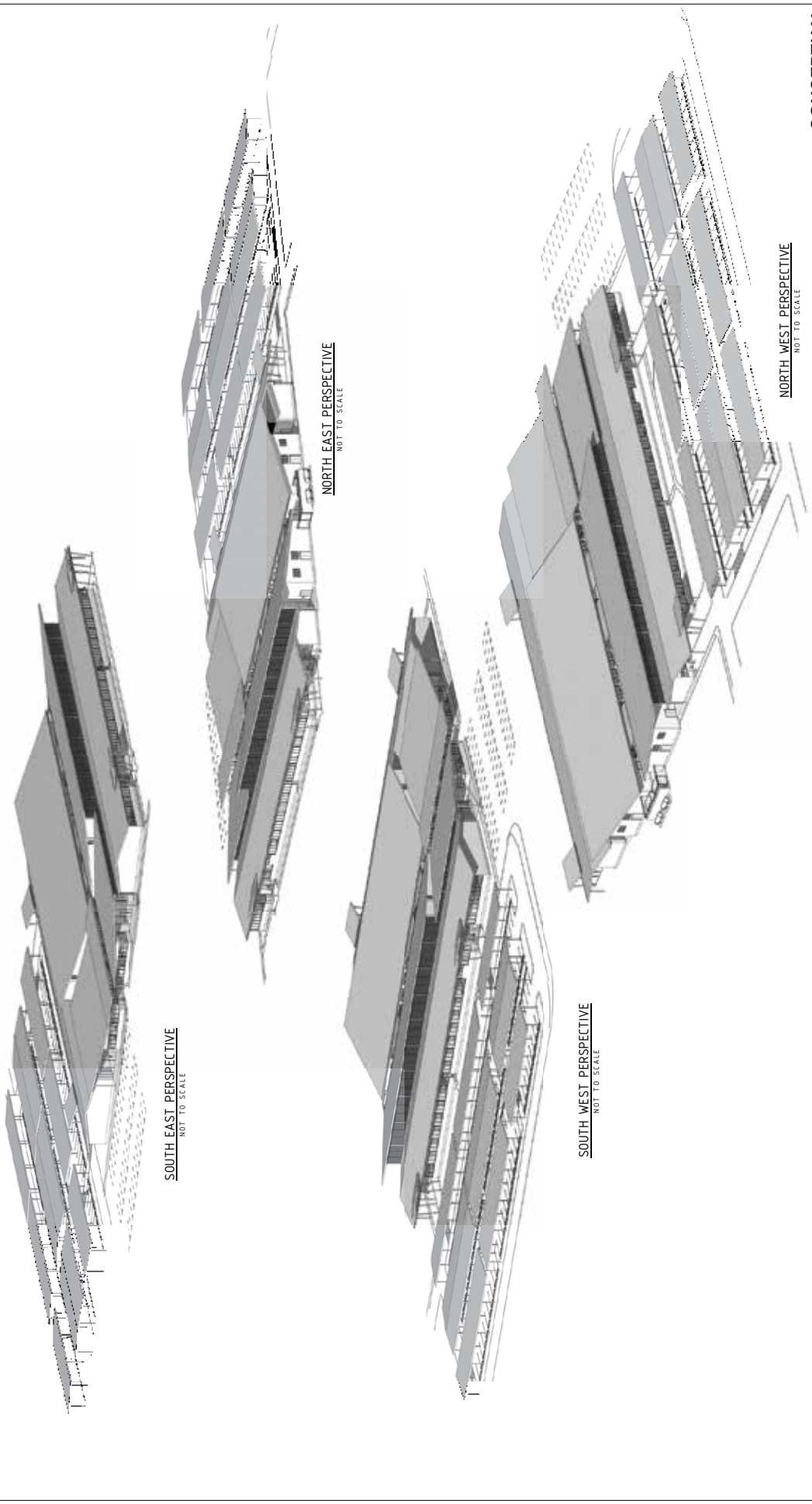
Drawn T.HAYES
Designed L.HOUGHTON
Drafting Check M.LEWIS*
Design Check G.TROUP*
Approved
Date
Scale 1 : 200
This Drawing must not be used for Construction unless signed as Approved

Client **SHENHUA WATERMARK COAL Pty Ltd**
Project **WATERMARK MINE**
Title **ADMINISTRATION BUILDING ELEVATIONS & SECTION**

Original Size **A1** Drawing No: **22-14966-A102** Rev: **B**

Plot Date: 22/10/2012 4:03:19 PM Cad File No: G:\22\14966\CADD\BIM\Model\Revised for DA\22-14966_Admin Building.rvt


SOUTH EAST PERSPECTIVE
NOT TO SCALE
NORTH EAST PERSPECTIVE
NOT TO SCALE
SOUTH WEST PERSPECTIVE
NOT TO SCALE
NORTH WEST PERSPECTIVE
NOT TO SCALE
CONCEPTUAL
DO NOT SCALE
Drawn G.HUBER
Drafting Check M.LEWIS*
Approved
Date
Scale AS SHOWN
Designed J.HOUGHTON
Design Check G.TROUP*
This Drawing must not be used for Construction unless signed as Approved
Client SHENHUA WATERMARK COAL Pty Ltd
Project WATERMARK MINE
Title ADMINISTRATION BUILDING PERSPECTIVE VIEWS
Drawing Size A1
Drawing No: 22-14966-A103
Rev: D
GHD
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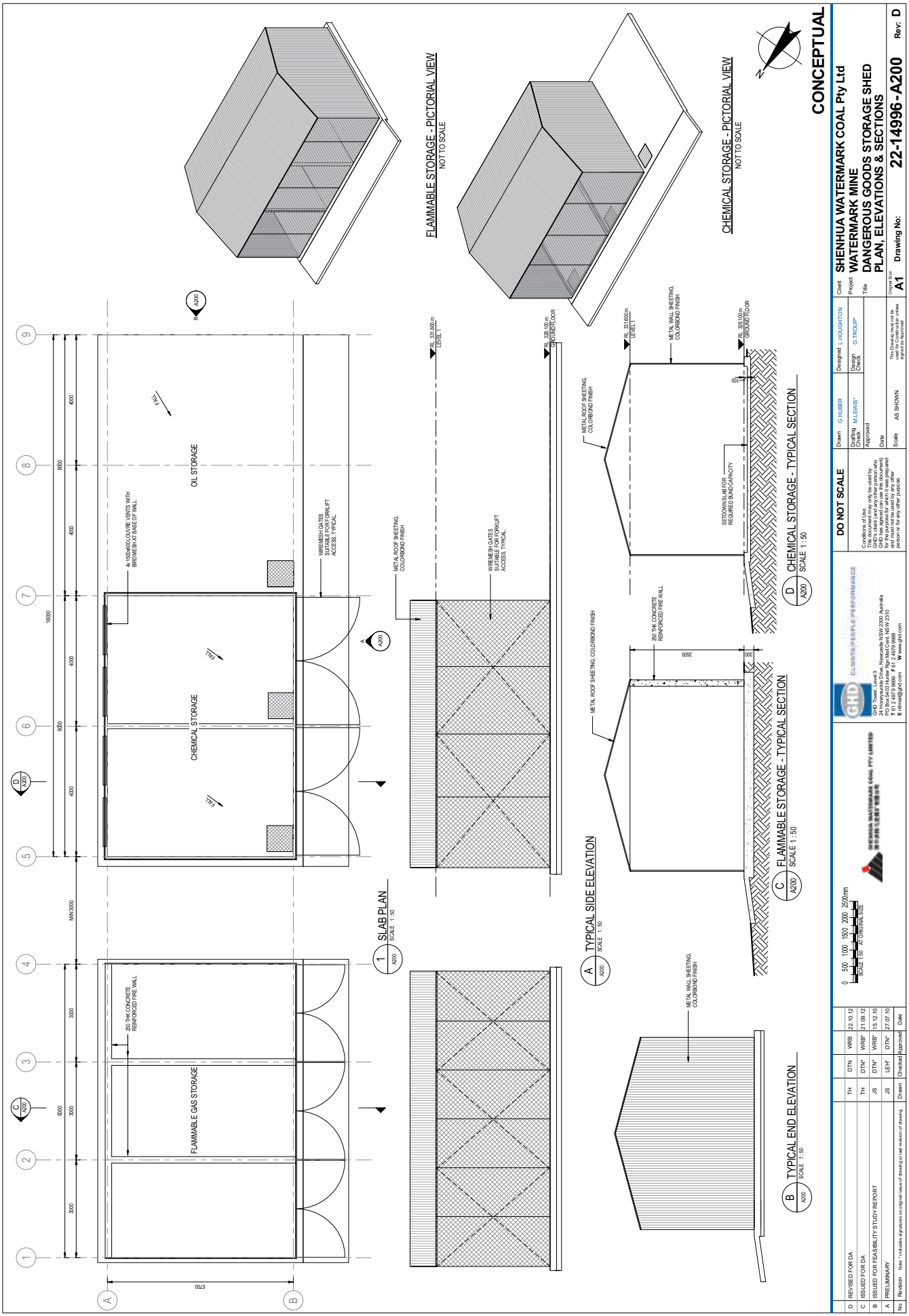
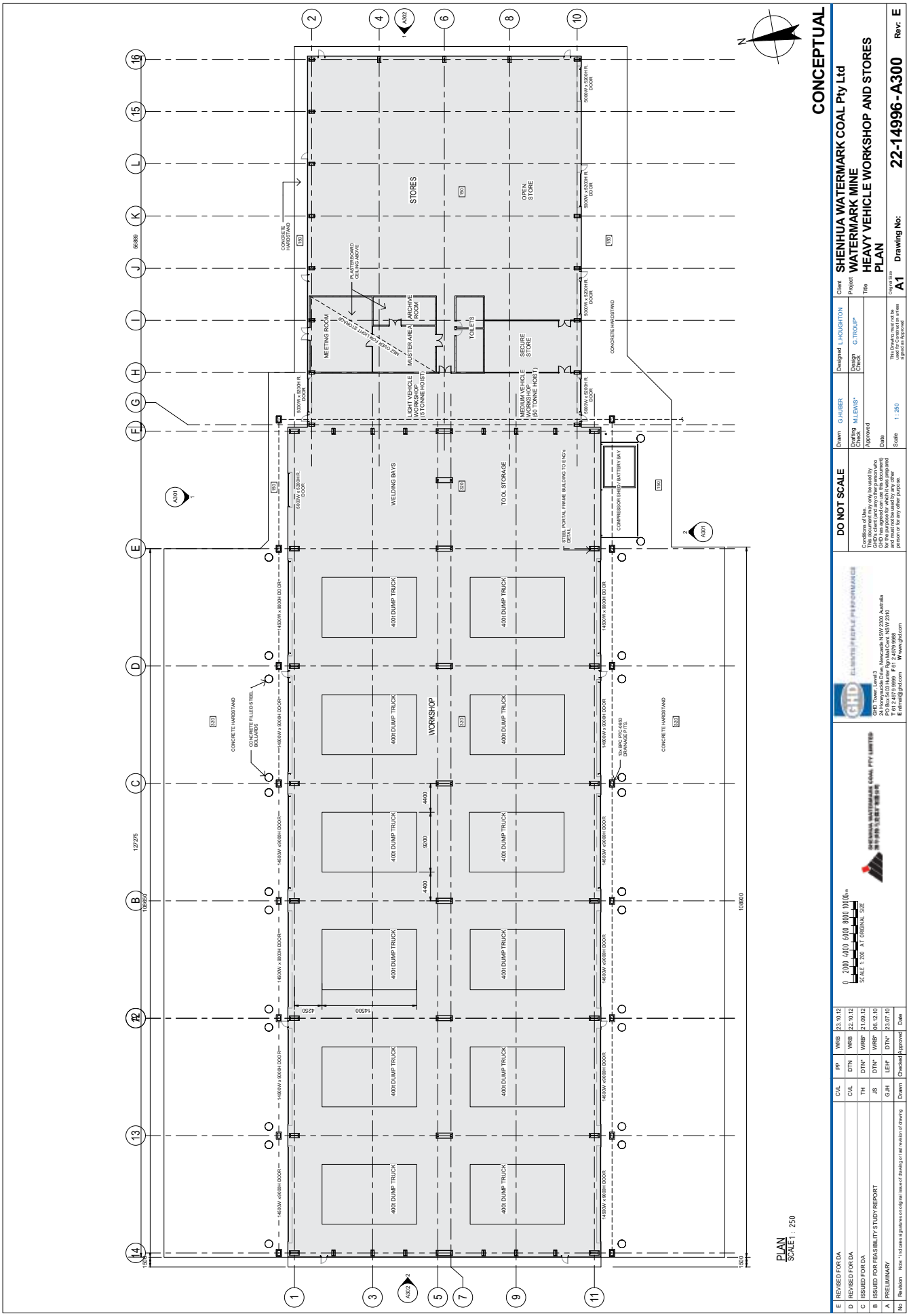
SHENHUA WATERMARK COAL PTY LIMITED
0 1000 2000 3000 4000 5000 mm
SCALE 1:1000 AT ORIGINAL SIZE
No Revision Drawn Checked Approved Date
D REVISED FOR DA TH DTN* WRB 22.10.12
C ISSUED FOR DA TH DTN* WRB* 20.09.12
B ISSUED FOR FEASIBILITY STUDY REPORT JS DTN* WRB* 06.12.10
A PRELIMINARY GJH LEH* DTN* 27.07.10
Note: * Indicates signatures on original issue of drawing or last revision of drawing
Plot Date: 22/10/2012 4:05:23 PM
Cad File No: G:\22\14966\CADD\BIM\Model Reviews\DA\22-14966_Admin Building.rvt


FLAMMABLE STORAGE - PICTORIAL VIEW
NOT TO SCALE
CHEMICAL STORAGE - PICTORIAL VIEW
NOT TO SCALE
CONCEPTUAL
OIL STORAGE
CHEMICAL STORAGE
FLAMMABLE GAS STORAGE
4x 1500x600 LOUVRE VENTS WITH BIRDMESH AT BASE OF WALL
WIREMESH GATES SUITABLE FOR FORKLIFT ACCESS, TYPICAL
250 THK CONCRETE REINFORCED FIRE WALL
SLAB PLAN
SCALE 1:50
TYPICAL SIDE ELEVATION
SCALE 1:50
TYPICAL END ELEVATION
SCALE 1:50
CHEMICAL STORAGE - TYPICAL SECTION
SCALE 1:50
FLAMMABLE STORAGE - TYPICAL SECTION
SCALE 1:50
METAL ROOF SHEETING, COLORBOND FINISH
METAL WALL SHEETING, COLORBOND FINISH
SETDOWN SLAB FOR REQUIRED BUND CAPACITY
FL 331.600 m LEVEL 1
FL 328.100 m GROUND FLOOR
FL 331.600 m LEVEL 1
FL 328.100 m GROUND FLOOR
DO NOT SCALE
SHENHUA WATERMARK COAL Pty Ltd
WATERMARK MINE
DANGEROUS GOODS STORAGE SHED
PLAN, ELEVATIONS & SECTIONS
Drawing No: 22-14996-A200
Rev: D
A1
AS SHOWN
GHD
SHENHUA WATERMARK COAL PTY LIMITED
D REVISED FOR DA
C ISSUED FOR DA
B ISSUED FOR FEASIBILITY STUDY REPORT
A PRELIMINARY


CONCEPTUAL
SHENHUA WATERMARK COAL Pty Ltd
WATERMARK MINE
HEAVY VEHICLE WORKSHOP AND STORES
PLAN
22-14996-A300
Rev: E
A1
Drawing No:
Client
Project
Title
Drawn G.HUBER
Designed J.HOUGHTON
Drafting Check M.LEWIS*
Design Check G.TROUP*
Approved
Date
Scale 1 : 250
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E nlmail@ghd.com W www.ghd.com
0 2000 4000 6000 8000 10000mm
SCALE 1 : 200 AT ORIGINAL SIZE
PLAN
SCALE 1 : 250
STORES
OPEN STORE
MEETING ROOM
ARCHIVE ROOM
MUSTER AREA
TOILETS
SECURE STORE
LIGHT VEHICLE WORKSHOP (11 TONNE HOIST)
MEDIUM VEHICLE WORKSHOP (60 TONNE HOIST)
WELDING BAYS
TOOL STORAGE
COMPRESSOR SHED / BATTERY BAY
WORKSHOP
4100 DUMP TRUCK
CONCRETE HARDSTAND
CONCRETE FILLED STEEL BOLLARDS
CONCRETE HARDSTAND
PLASTERBOARD CEILING ABOVE
SEE OTHER LIGHT STORES
STEEL PORTAL FRAME BUILDING TO ENG's DETAIL
1450W x 900H DOOR
800W x 820H R. DOOR
900W x 820H R. DOOR
50.0W x 820H R. DOOR
10x BPC PTC-0630 DRAINAGE PITS
127275
108600
56889
14500
4250
4400
9200
4400
1500
150
A301
A302
Rev No Revision Note * Indicates signatures on original issue of drawing or late revision of drawing Drawn Checked Approved Date
E REVISED FOR DA C.VL PP WRB 23.10.12
D REVISED FOR DA C.VL DTN WRB 22.10.12
C ISSUED FOR DA TH DTN* WRB* 21.09.12
B ISSUED FOR FEASIBILITY STUDY REPORT JS DTN* WRB* 06.12.10
A PRELIMINARY G.JH LEI* DTN* 23.07.10
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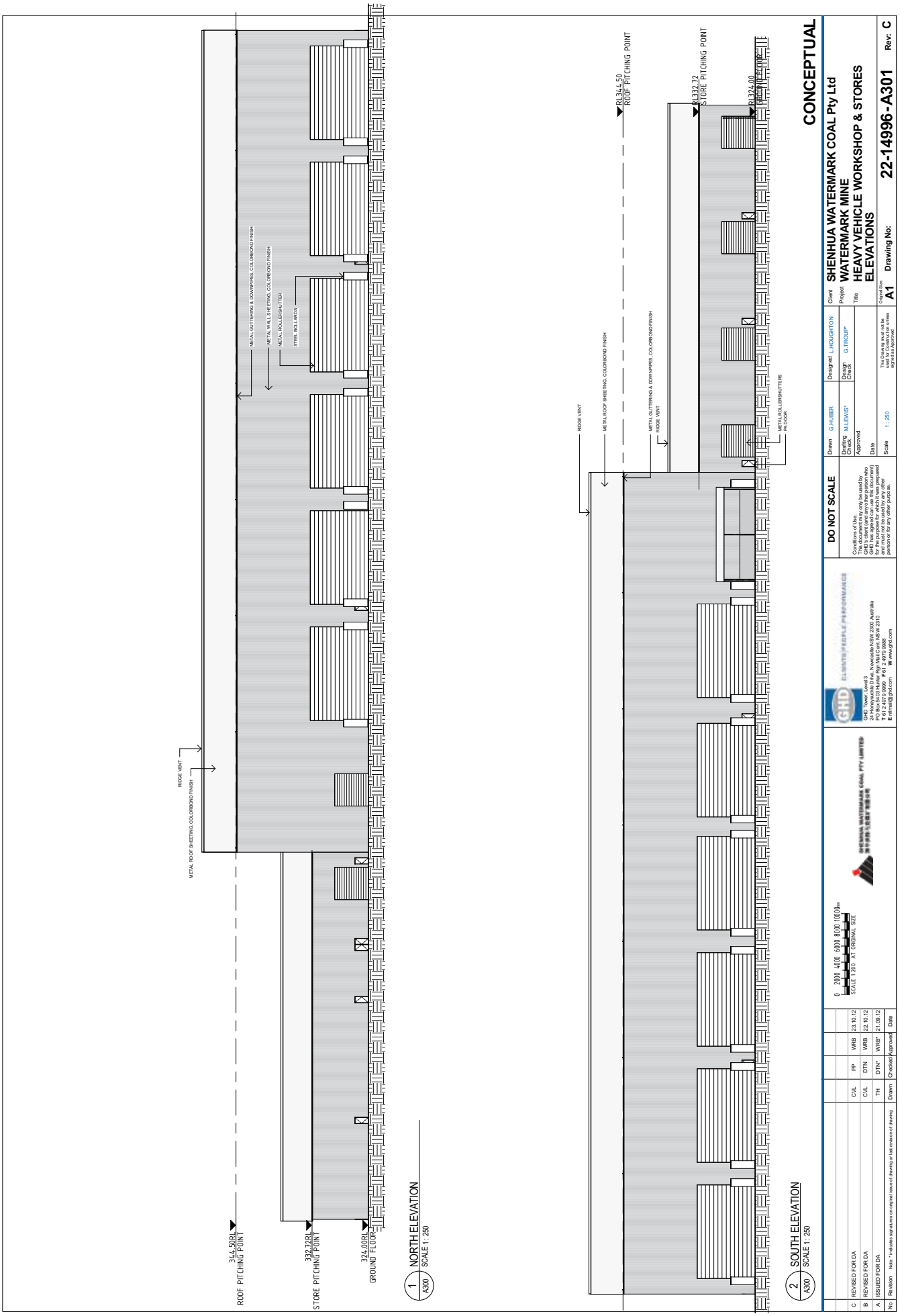
RIDGE VENT
METAL ROOF SHEETING, COLORBOND FINISH
METAL GUTTERING & DOWNPIPES, COLORBOND FINISH
METAL WALL SHEETING, COLORBOND FINISH
METAL ROLLERSHUTTER
STEEL BOLLARDS
344.50RL
ROOF PITCHING POINT
332.72RL
STORE PITCHING POINT
324.00RL
GROUND FLOOR
1 A300 NORTH ELEVATION
SCALE 1 : 250
RL 344.50
ROOF PITCHING POINT
RL 332.72
STORE PITCHING POINT
RL 324.00
GROUND FLOOR
METAL ROOF SHEETING, COLORBOND FINISH
METAL GUTTERING & DOWNPIPES, COLORBOND FINISH
RIDGE VENT
METAL ROLLERSHUTTERS
PA DOOR
2 A300 SOUTH ELEVATION
SCALE 1 : 250
CONCEPTUAL
0 2000 4000 6000 8000 10000mm
SCALE 1:200 AT ORIGINAL SIZE
SHENHUA WATERMARK COAL PTY LIMITED
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Drawn G.HUBER
Drafting Check M.LEWIS*
Approved
Date
Scale 1 : 250
Designed L.HOUGHTON
Design Check G.TROUP*
This Drawing must not be used for Construction unless signed as Approved
Client SHENHUA WATERMARK COAL Pty Ltd
Project WATERMARK MINE
Title HEAVY VEHICLE WORKSHOP & STORES ELEVATIONS
Original Size A1
Drawing No: 22-14996-A301
Rev: C
No Revision Date Checked Approved
A ISSUED FOR DA TH DTN* WRB* 21.09.12
B REVISED FOR DA CVL DTN WRB 22.10.12
C REVISED FOR DA CVL PP WRB 23.10.12
Note: * Indicates signature on original issue of drawing or last revision of drawing
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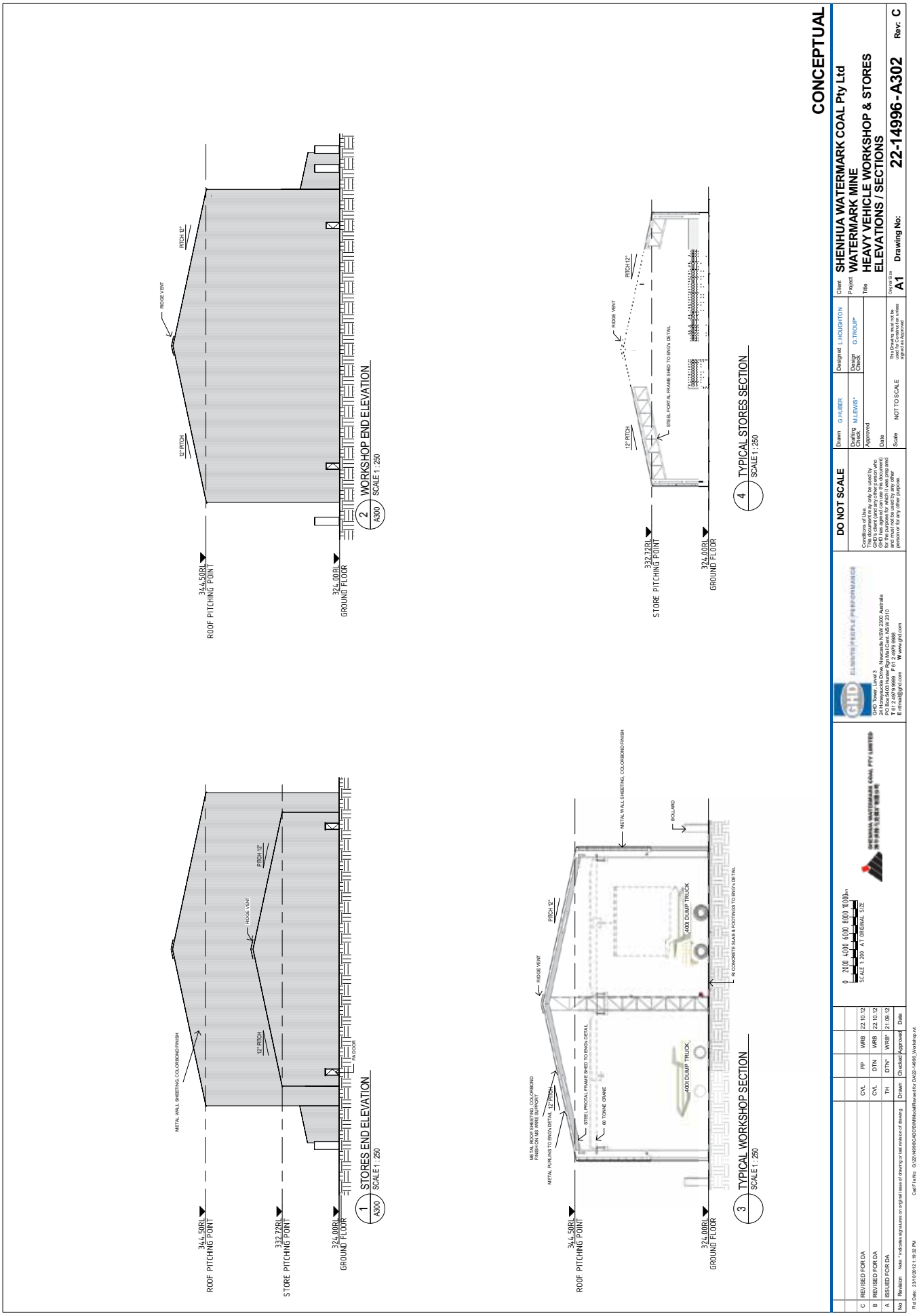
CONCEPTUAL
1 A300 STORES END ELEVATION
SCALE 1 : 250
2 A300 WORKSHOP END ELEVATION
SCALE 1 : 250
3 TYPICAL WORKSHOP SECTION
SCALE 1 : 250
4 TYPICAL STORES SECTION
SCALE 1 : 250
ROOF PITCHING POINT
344.50RL
STORE PITCHING POINT
332.72RL
GROUND FLOOR
324.00RL
METAL WALL SHEETING, COLORBOND FINISH
12° PITCH
PITCH 12°
RIDGE VENT
FL DOOR
METAL ROOF SHEETING, COLORBOND FINISH ON WATERPROOF
METAL PURLINS TO ENG'S DETAIL
STEEL PROTAL FRAME SHED TO ENG'S DETAIL
60 TONNE CRANE
400t DUMP TRUCK
BOLLARD
RC CONCRETE SLAB & FOOTINGS TO ENG'S DETAIL
DO NOT SCALE
Drawn G.HUBER
Drafting Check M.LEWIS*
Approved
Date
Scale NOT TO SCALE
Designed J.HOUGHTON
Design Check G.TROUP*
This Drawing must not be used for Construction unless signed as Approved
Client SHENHUA WATERMARK COAL Pty Ltd
Project WATERMARK MINE
Title HEAVY VEHICLE WORKSHOP & STORES ELEVATIONS / SECTIONS
Drawing Size A1
Drawing No: 22-14996-A302
Rev: C
GHD
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24 Honeycombe Drive, Newcastle NSW 2300, Australia
PO Box 5403, Hunter Region Mail Centre NSW 2310
T 61 2 4979 9999 F 61 2 4979 9988
E mail@ghd.com W www.ghd.com
0 2000 4000 6000 8000 10000mm
SCALE 1 : 200 AT ORIGINAL SIZE
No Revision Date
C REVISED FOR DA 22.10.12
B REVISED FOR DA 22.10.12
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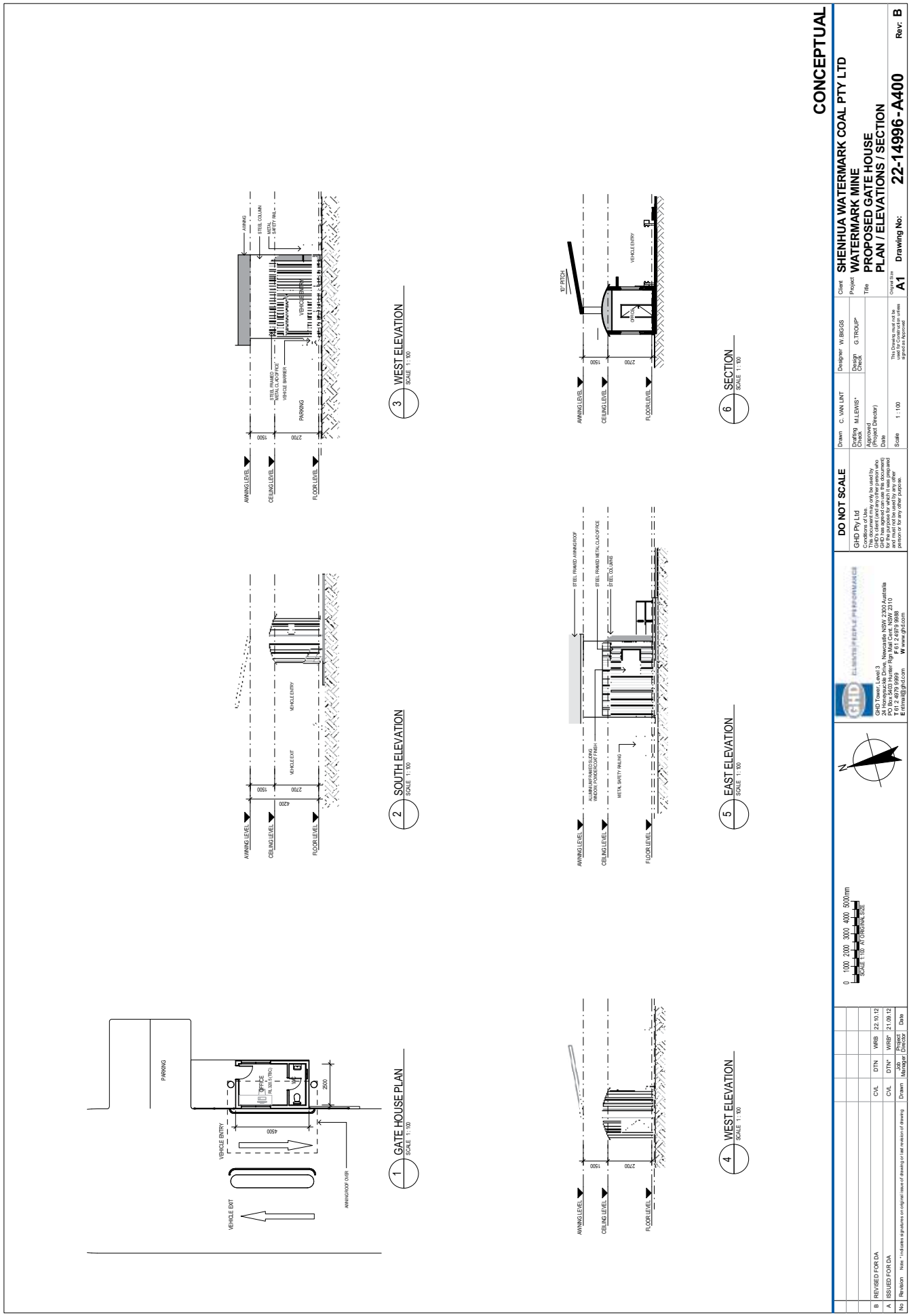
CONCEPTUAL
1 GATE HOUSE PLAN
SCALE 1:100
2 SOUTH ELEVATION
SCALE 1:100
3 WEST ELEVATION
SCALE 1:100
4 WEST ELEVATION
SCALE 1:100
5 EAST ELEVATION
SCALE 1:100
6 SECTION
SCALE 1:100
PARKING
VEHICLE ENTRY
VEHICLE EXIT
OFFICE
AWNING ROOF OVER
AWNING LEVEL
CEILING LEVEL
FLOOR LEVEL
STEEL FRAMED AWNING ROOF
STEEL FRAMED METAL CLAD OFFICE
STEEL COLUMNS
ALUM. WINDOWS AND WAGON, POWDERCOAT FINISH
METAL SAFETY RAILING
10° PITCH
0 1000 2000 3000 4000 5000mm
SCALE 1:100 A1 ORIGINAL SIZE
DO NOT SCALE
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Drawn C. VAN LINT
Drafting Check M.LEWIS*
Approved (Project Director)
Date
Scale 1 : 100
Designer W.BIGGS
Design Check G.TROUP*
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Client SHENHUA WATERMARK COAL PTY LTD
Project WATERMARK MINE
Title PROPOSED GATE HOUSE PLAN / ELEVATIONS / SECTION
Signed Size A1
Drawing No: 22-14996-A400
Rev: B
No Revision Date
A ISSUED FOR DA 21.09.12
B REVISED FOR DA 22.10.12
Drawn CVL DTN WRB
Job Manager DTN* WRB*
Project Director WRB*
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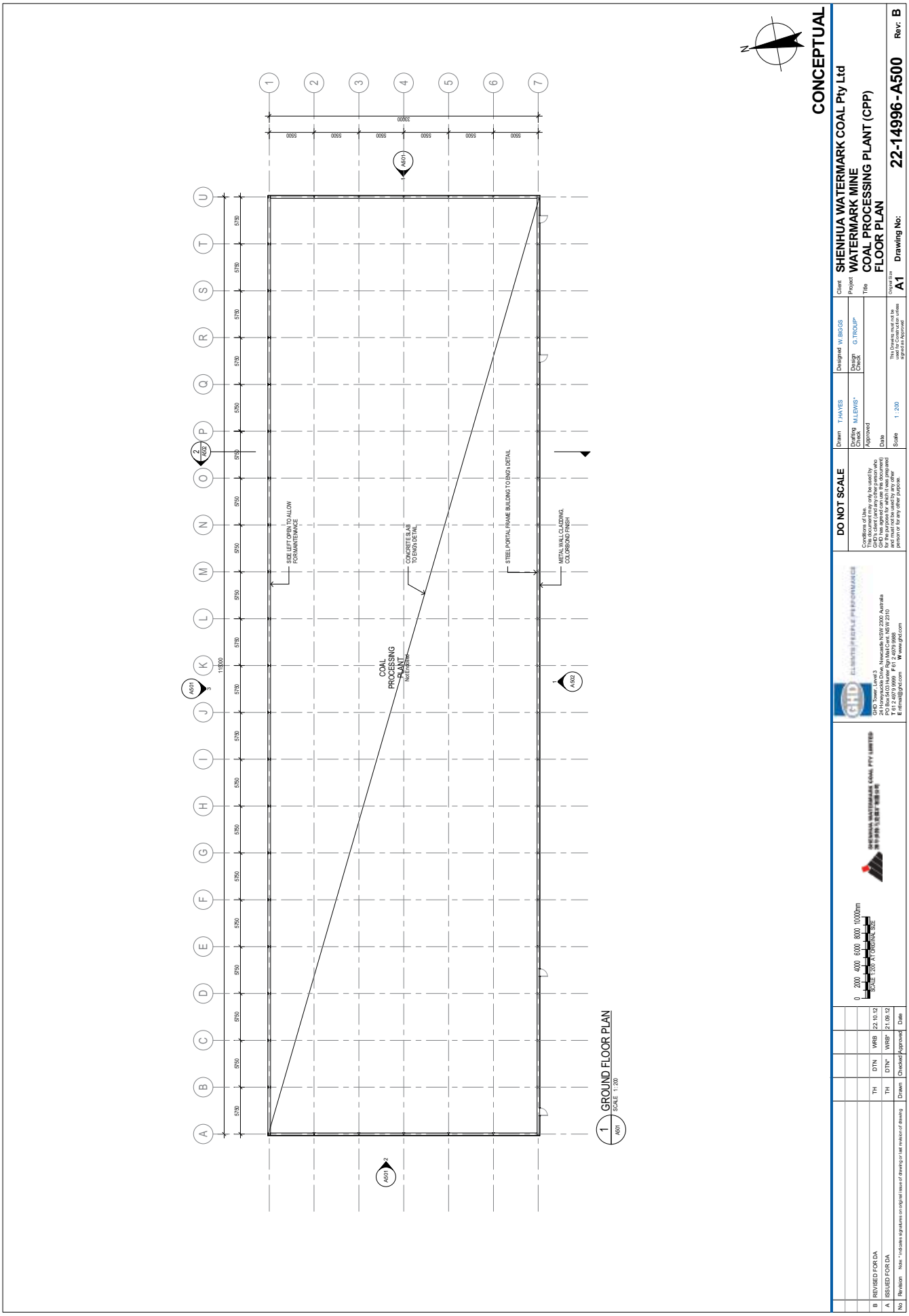
Cad File No: G:\22\14996\CAD\BIM\Model Reviewed for DA\22-14996_Gatehouse.rvt
Plot Date: 22/10/2012 12:38 PM


CONCEPTUAL
SHENHUA WATERMARK COAL Pty Ltd
WATERMARK MINE
COAL PROCESSING PLANT (CPP)
FLOOR PLAN
22-14996-A500
Rev: B
A1
Drawing No:
Client
Project
Title
Drawn T.HAYES
Drafting Check M.LEWIS*
Approved
Date
Scale 1:200
Designed N.BIGGS
Design Check G.TROUP*
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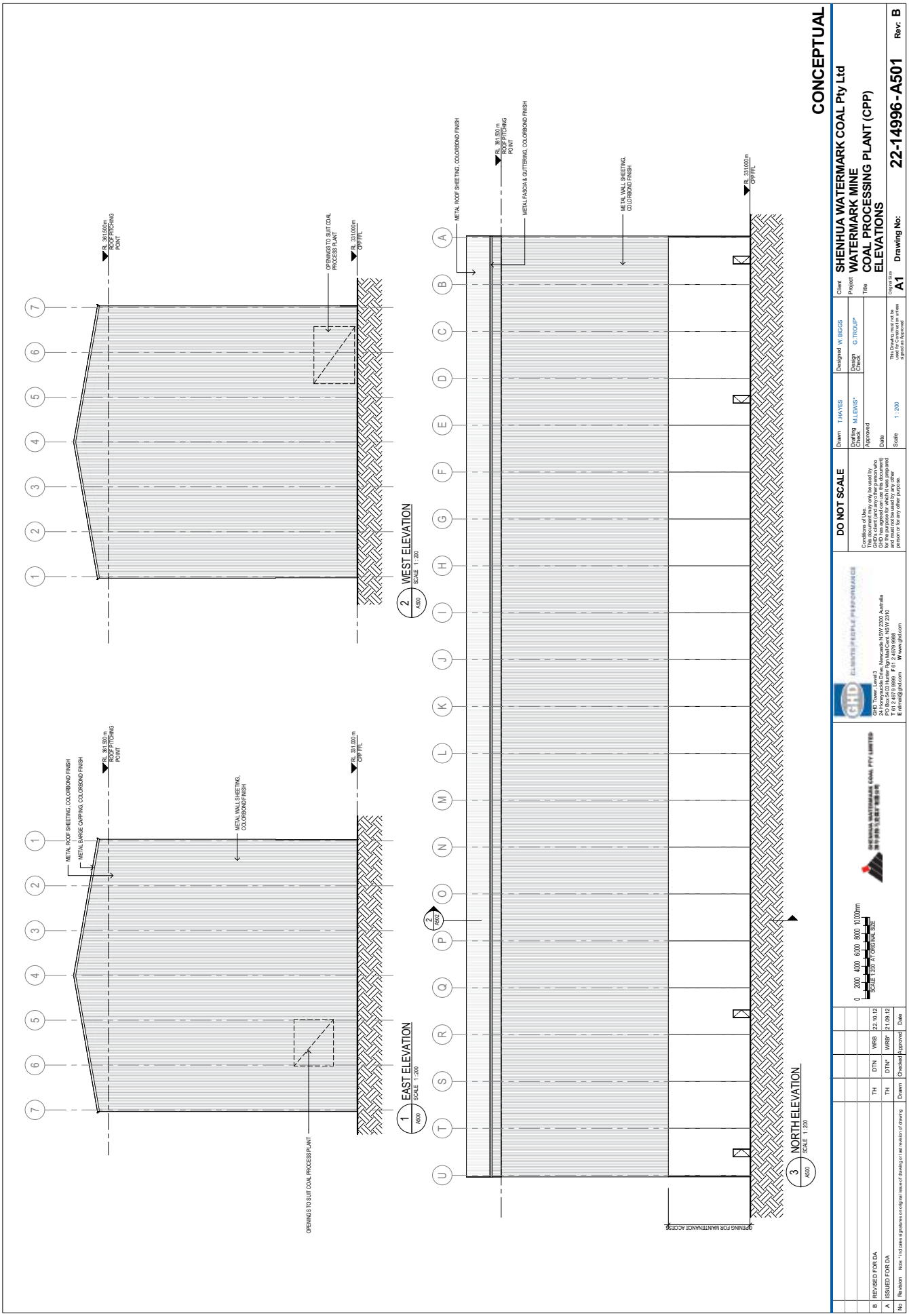
SHENHUA WATERMARK COAL PTY LIMITED
0 2000 4000 6000 8000 10000mm
SCALE 1:200 AT ORIGINAL SIZE
B REVISED FOR DA TH DTN WRB 22.10.12
A ISSUED FOR DA TH DTN* WRB* 21.09.12
No Revision Note: * Indicates signatures on original issue of drawing or last revision of drawing Drawn Checked Approved Date
Plot Date: 22/10/2012 4:15:55 PM Cad File No: Q:\20\14996\CADD\BIM\Model Revised for DA\22-14996_CPP.rvt
SIDE LEFT OPEN TO ALLOW FOR MAINTENANCE
CONCRETE S.&B TO ENGS DETAIL
STEEL PORTAL FRAME BUILDING TO ENGS DETAIL
METAL WALL CLADDING, COLOUR/GND FINISH
COAL PROCESSING PLANT
Not Enclosed
GROUND FLOOR PLAN
SCALE 1:200
33000
5500
5750
5700
1:1000
A501
A502


CONCEPTUAL
1 EAST ELEVATION
A600 SCALE 1 : 200
2 WEST ELEVATION
A600 SCALE 1 : 200
3 NORTH ELEVATION
A600 SCALE 1 : 200
METAL ROOF SHEETING, COLORBOND FINISH
METAL BARGE CAPPING, COLORBOND FINISH
METAL WALL SHEETING, COLORBOND FINISH
OPENINGS TO SUIT COAL PROCESS PLANT
RL 361.510m ROOF PITCHING POINT
RL 331.000m OPP FFL
METAL FASCIA & GUTTERING, COLORBOND FINISH
OPENING FOR MAINTENANCE ACCESS
DO NOT SCALE
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CLIENTS PEOPLE PERFORMANCE
0 2000 4000 6000 8000 10000mm
SCALE 1:200 AT ORIGINAL SIZE
Drawn T.HAYES
Drafting Check M.LEWIS*
Approved
Date
Scale 1 : 200
Designed W.BIGGS
Design Check G.TROUP*
This Drawing must not be used for Construction unless signed as Approved
Client SHENHUA WATERMARK COAL Pty Ltd
Project WATERMARK MINE
COAL PROCESSING PLANT (CPP)
Title ELEVATIONS
Original Size A1
Drawing No: 22-14996-A501
Rev: B
B REVISED FOR DA TH DTN WRB 22.10.12
A ISSUED FOR DA TH DTN* WRB* 21.09.12
No Revision Date Drawn Checked Approved
Note: * Indicates signature on original issue of drawing or last revision of drawing
Plot Date: 22/10/2012 4:16:21 PM
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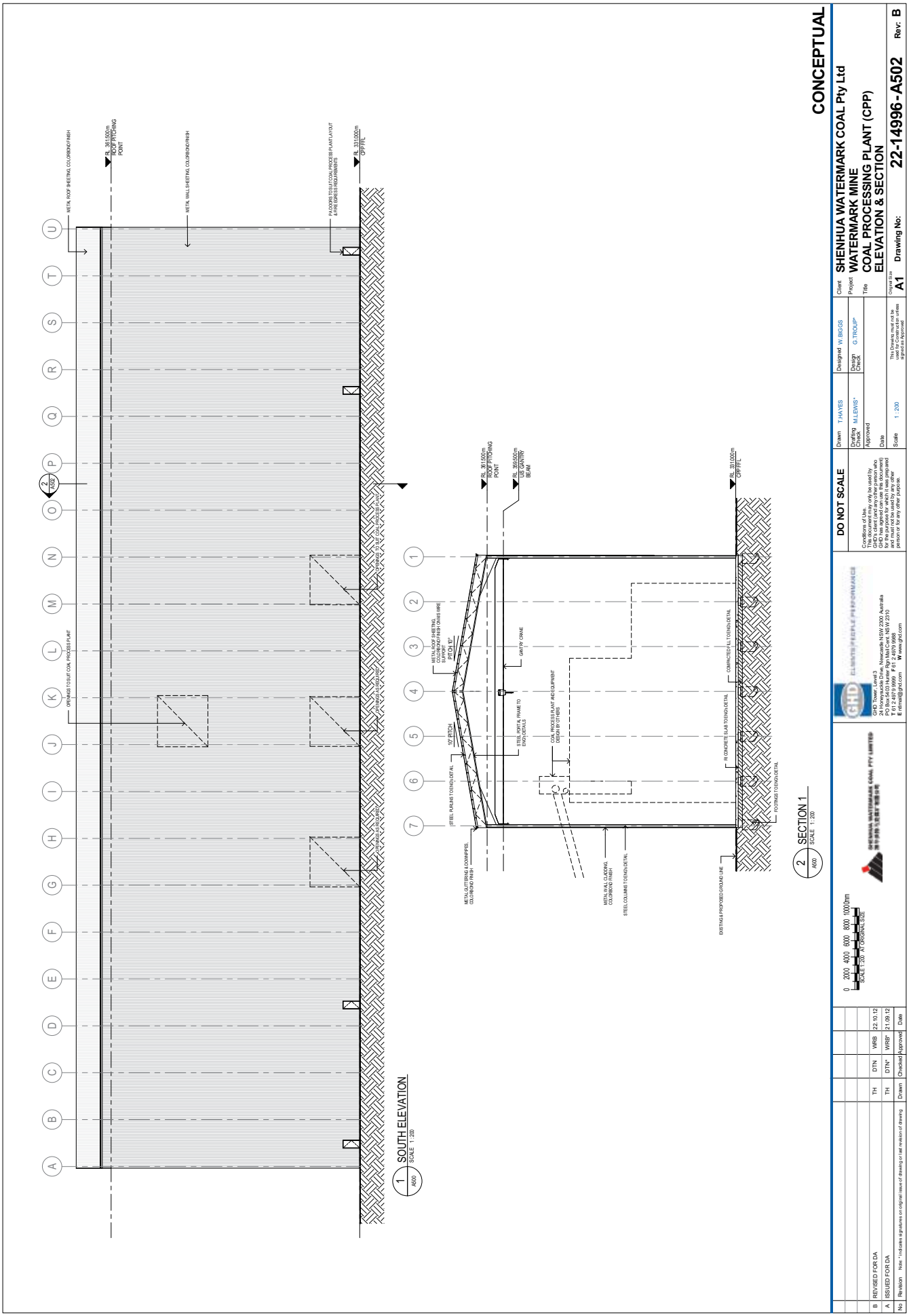
CONCEPTUAL
SHENHUA WATERMARK COAL Pty Ltd
WATERMARK MINE
COAL PROCESSING PLANT (CPP)
ELEVATION & SECTION
Client
Project
Title
Drawing No: 22-14996-A502
Rev: B
A1
DO NOT SCALE
Drawn T.HAYES
Drafting Check M.LEWIS*
Approved
Date
Scale 1:200
Designed N.BIGGS
Design Check G.TROUP*
This Drawing must not be used for Construction unless signed as Approved
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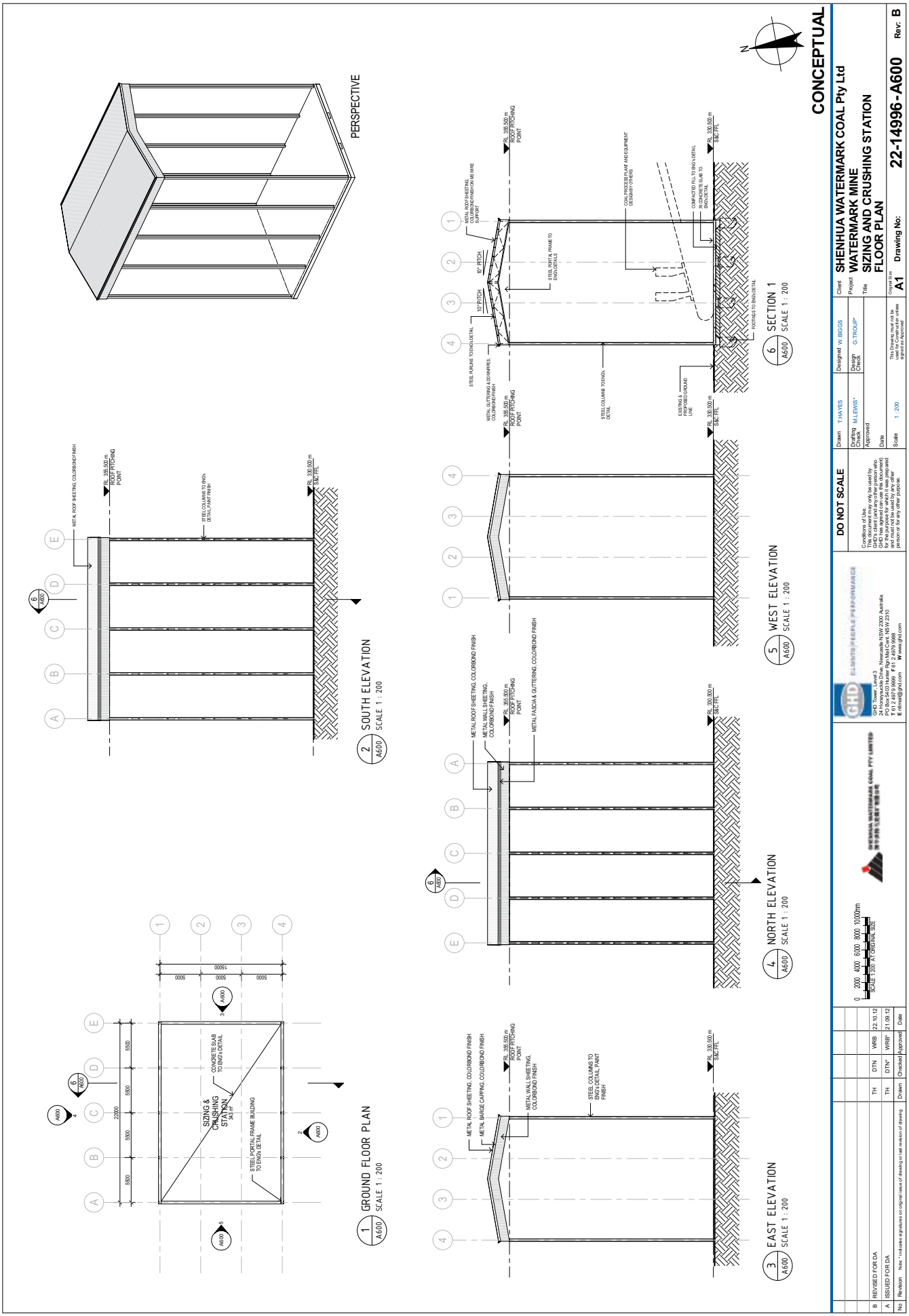
0 2000 4000 6000 8000 10000mm
SCALE 1:200 AT ORIGINAL SIZE
B REVISED FOR DA TH DTN WRB 22.10.12
A ISSUED FOR DA TH DTN* WRB* 21.09.12
No Revision Date
Note: * Indicates signatures on original issue of drawing or last revision of drawing
Plot Date: 22/10/2012 4:16:39 PM
Cad File No: G:\22\14996\CADD\BIM\Model Revised for DA\22-14996_CPP.rvt
SOUTH ELEVATION
SCALE 1:200
SECTION 1
SCALE 1:200
OPENINGS TO SUIT COAL PROCESS PLANT
METAL ROOF SHEETING COLOUR/MATCH FINISH
METAL WALL SHEETING COLOUR/MATCH FINISH
RL 381500m ROOF PITCHING POINT
RL 331000m OPP FFL
RL 359500m US GANTRY BEAM
GANTRY CRANE
STEEL PORTAL FRAME TO ENGS DETAILS
COAL PROCESS PLANT AND EQUIPMENT DESIGN BY OTHERS
COMPACTED FILL TO ENGS DETAIL
R/C CONCRETE SLAB TO ENGS DETAIL
FOOTINGS TO ENGS DETAIL
EXISTING & PROPOSED GROUND LINE
STEEL COLUMNS TO ENGS DETAIL
METAL WALL CLADDING COLOUR/MATCH FINISH
METAL GUTTERING & DOWNPIPES COLOUR/MATCH FINISH
(STEEL PURLINS TO ENGS DETAIL)
10° PITCH
METAL ROOF SHEETING COLOUR/MATCH FINISH ON NS WIRE LINER PITCH 10°


PERSPECTIVE
SOUTH ELEVATION
SCALE 1 : 200
GROUND FLOOR PLAN
SCALE 1 : 200
SIZING & CRUSHING STATION
343 m²
CONCRETE SLAB TO ENG's DETAIL
STEEL PORTAL FRAME BUILDING TO ENG's DETAIL
METAL ROOF SHEETING, COLORBOND FINISH
STEEL COLUMNS TO ENG's DETAIL, PAINT FINISH
RL 355.500 m ROOF PITCHING POINT
RL 330.500 m S&C FFL
EAST ELEVATION
SCALE 1 : 200
METAL BARGE CAPPING, COLORBOND FINISH
METAL WALL SHEETING, COLORBOND FINISH
NORTH ELEVATION
SCALE 1 : 200
METAL WALL SHEETING, COLORBOND FINISH
METAL FASCIA & GUTTERING, COLORBOND FINISH
RL 350.500 m
WEST ELEVATION
SCALE 1 : 200
METAL GUTTERING & DOWNPIPES, COLORBOND FINISH
STEEL PURLINS TO ENG's DETAIL
10° PITCH
10° PITCH
METAL ROOF SHEETING, COLORBOND FINISH WITH WIRE SUPPORT
STEEL PORTAL FRAME TO ENG's DETAILS
STEEL COLUMNS TO ENG's DETAIL
EXISTING & PROPOSED GROUND LINE
COAL PROCESS PLANT AND EQUIPMENT DESIGNED BY OTHERS
COMPACTED FILL TO ENG's DETAIL
FOOTINGS TO ENG's DETAIL
SECTION 1
SCALE 1 : 200
CONCEPTUAL
SHENHUA WATERMARK COAL Pty Ltd
WATERMARK MINE
SIZING AND CRUSHING STATION
FLOOR PLAN
22-14996-A600
Rev: B
A1
DO NOT SCALE
Drawn T.HAYES
Designed W.BIGGS
Drafting Check M.LEWIS*
Design Check G.TROUP*
Approved
Date
Scale 1 : 200
This Drawing must not be used for Construction unless signed as Approved
GHD
SHENHUA WATERMARK COAL PTY LIMITED
SCALE 1:200 AT ORIGINAL SIZE
REVISED FOR DA
ISSUED FOR DA
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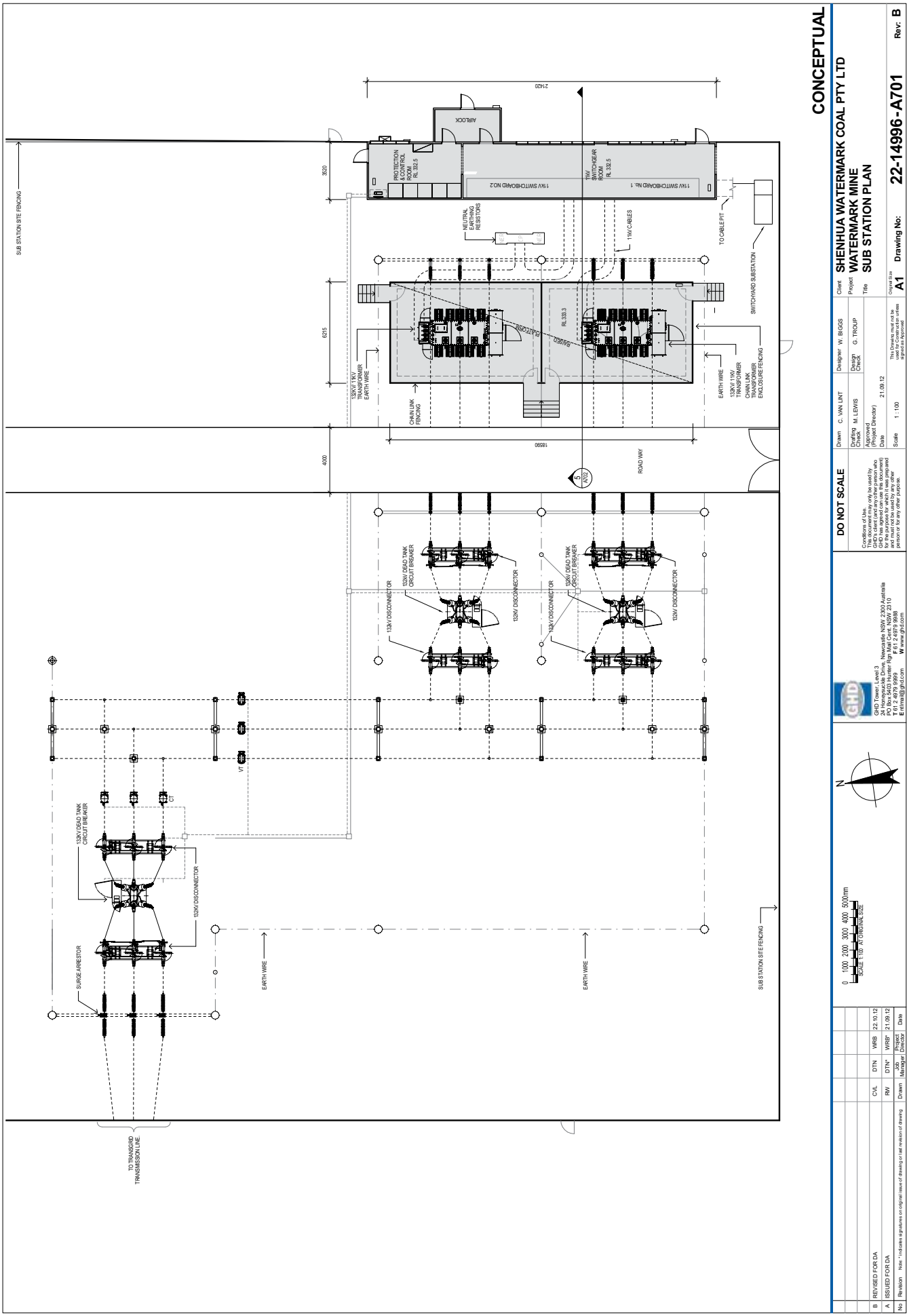
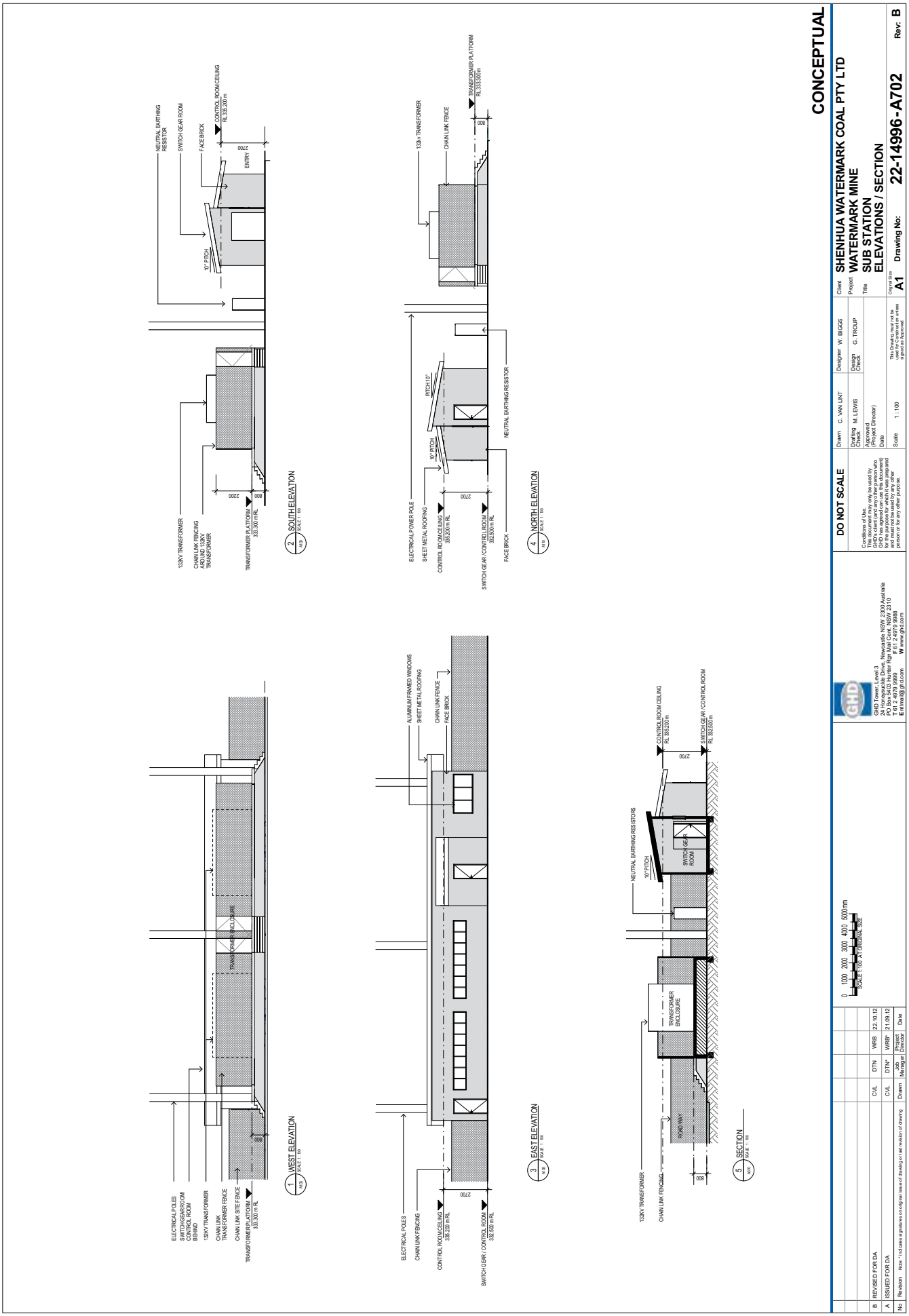

CONCEPTUAL
SHENHUA WATERMARK COAL PTY LTD
WATERMARK MINE
SUB STATION PLAN
22-14996-A701
Rev: B
A1
DO NOT SCALE
GHD
SUB STATION SITE FENCING
AIRLOCK
PROTECTION & CONTROL ROOM RL 332.5
11kV SWITCHBOARD NO.2
11kV SWITCHGEAR ROOM RL 332.5
11kV SWITCHBOARD No. 1
NEUTRAL EARTHING RESISTORS
11kV CABLES
TO CABLE PIT
SWITCHYARD SUBSTATION
RL 333.3
132kV/11kV TRANSFORMER EARTH WIRE
CHAIN LINK FENCING
EARTH WIRE
132kV/11kV TRANSFORMER CHAIN LINK TRANSFORMER ENCLOSURE FENCING
ROAD WAY
132kV DEAD TANK CIRCUIT BREAKER
132kV DISCONNECTOR
VT
CT
SURGE ARRESTOR
EARTH WIRE
SUB STATION SITE FENCING
TO TRANSNEED TRANSMISSION LINE


CONCEPTUAL
SHENHUA WATERMARK COAL PTY LTD
WATERMARK MINE
SUB STATION
ELEVATIONS / SECTION
22-14996-A702
Rev: B
A1
DO NOT SCALE
Drawn C. VAN LINT
Designer W. BIGGS
Drafting Check M. LEWIS
Design Check G. TROUP
Scale 1 : 100
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E ltd.hnu@ghd.com
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0 1000 2000 3000 4000 5000mm
SCALE 1:100 AT ORIGINAL SIZE
1 WEST ELEVATION
2 SOUTH ELEVATION
3 EAST ELEVATION
4 NORTH ELEVATION
5 SECTION
132KV TRANSFORMER
CHAIN LINK FENCING AROUND 132KV TRANSFORMER
TRANSFORMER PLATFORM 333.300 m RL
CHAIN LINK SITE FENCE
CHAIN LINK TRANSFORMER FENCE
ELECTRICAL POLES
SWITCH GEAR ROOM / CONTROL ROOM BEHIND
NEUTRAL EARTHING RESISTOR
SWITCH GEAR ROOM
FACE BRICK
CONTROL ROOM CEILING RL 335.200 m
ENTRY
10° PITCH
TRANSFORMER ENCLOSURE
ALUMINUM FRAMED WINDOWS
SHEET METAL ROOFING
CHAIN LINK FENCE
CONTROL ROOM CEILING 335.200 m RL
SWITCH GEAR / CONTROL ROOM 332.500 m RL
ROADWAY
CONTROL ROOM CEILING RL 335.200 m
SWITCH GEAR / CONTROL ROOM RL 332.500 m
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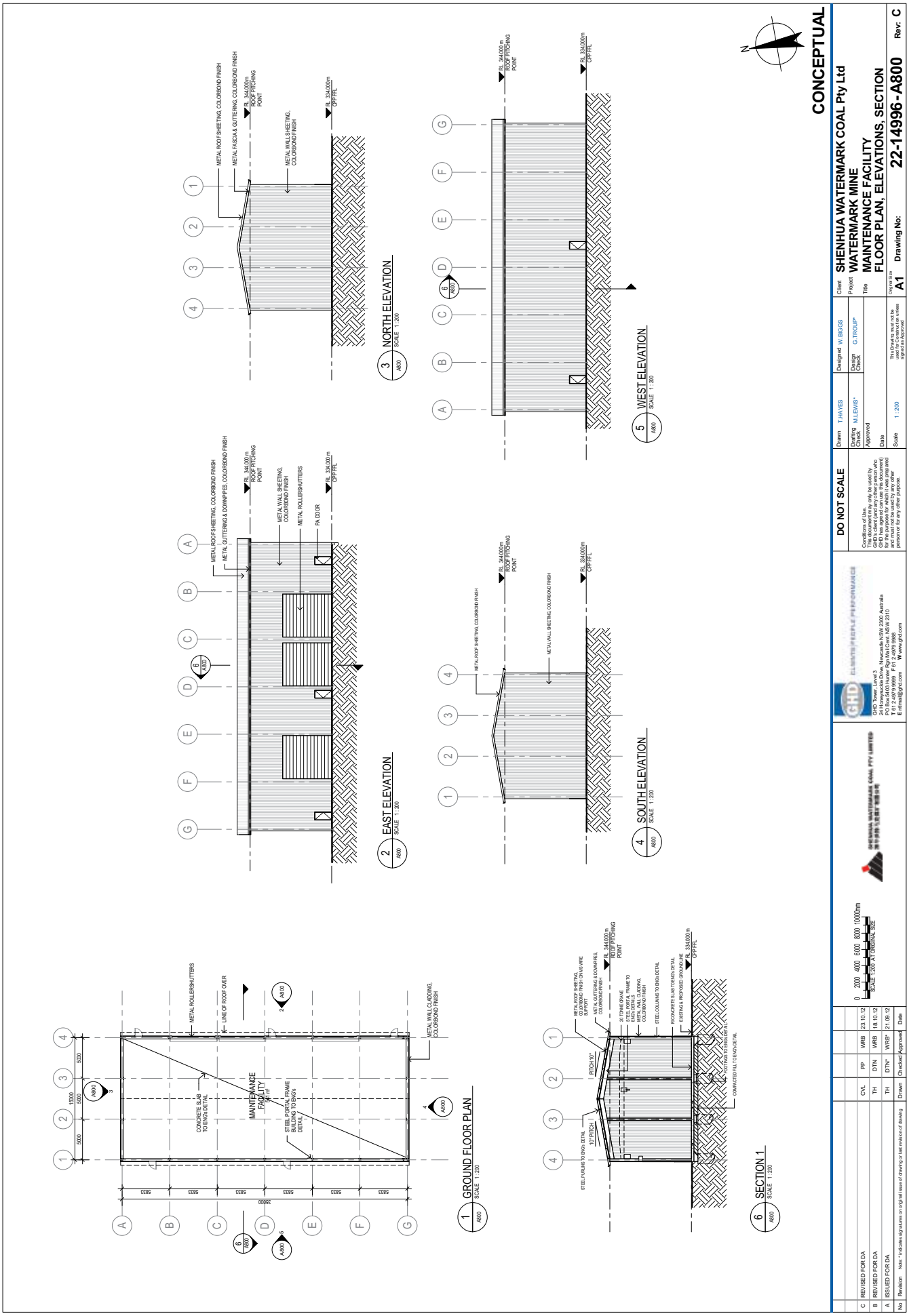
NORTH ELEVATION
SCALE 1 : 200
EAST ELEVATION
SCALE 1 : 200
WEST ELEVATION
SCALE 1 : 200
SOUTH ELEVATION
SCALE 1 : 200
GROUND FLOOR PLAN
SCALE 1 : 200
SECTION 1
SCALE 1 : 200
MAINTENANCE FACILITY
CONCEPTUAL
DO NOT SCALE
SHENHUA WATERMARK COAL Pty Ltd
WATERMARK MINE
MAINTENANCE FACILITY
FLOOR PLAN, ELEVATIONS, SECTION
22-14996-A800
Rev: C
A1
GHD Tower, Level 3
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REVISED FOR DA
REVISED FOR DA
ISSUED FOR DA
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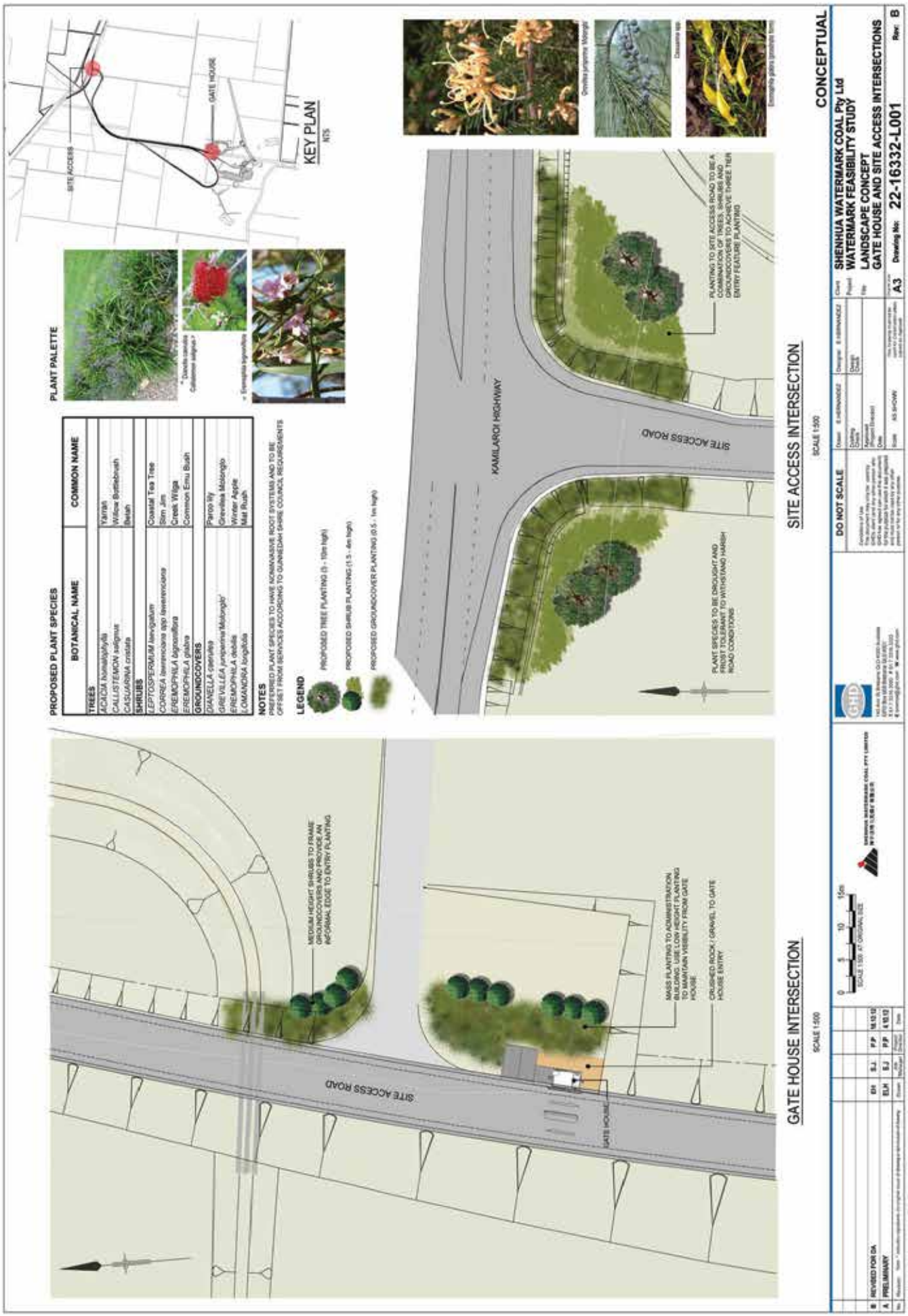
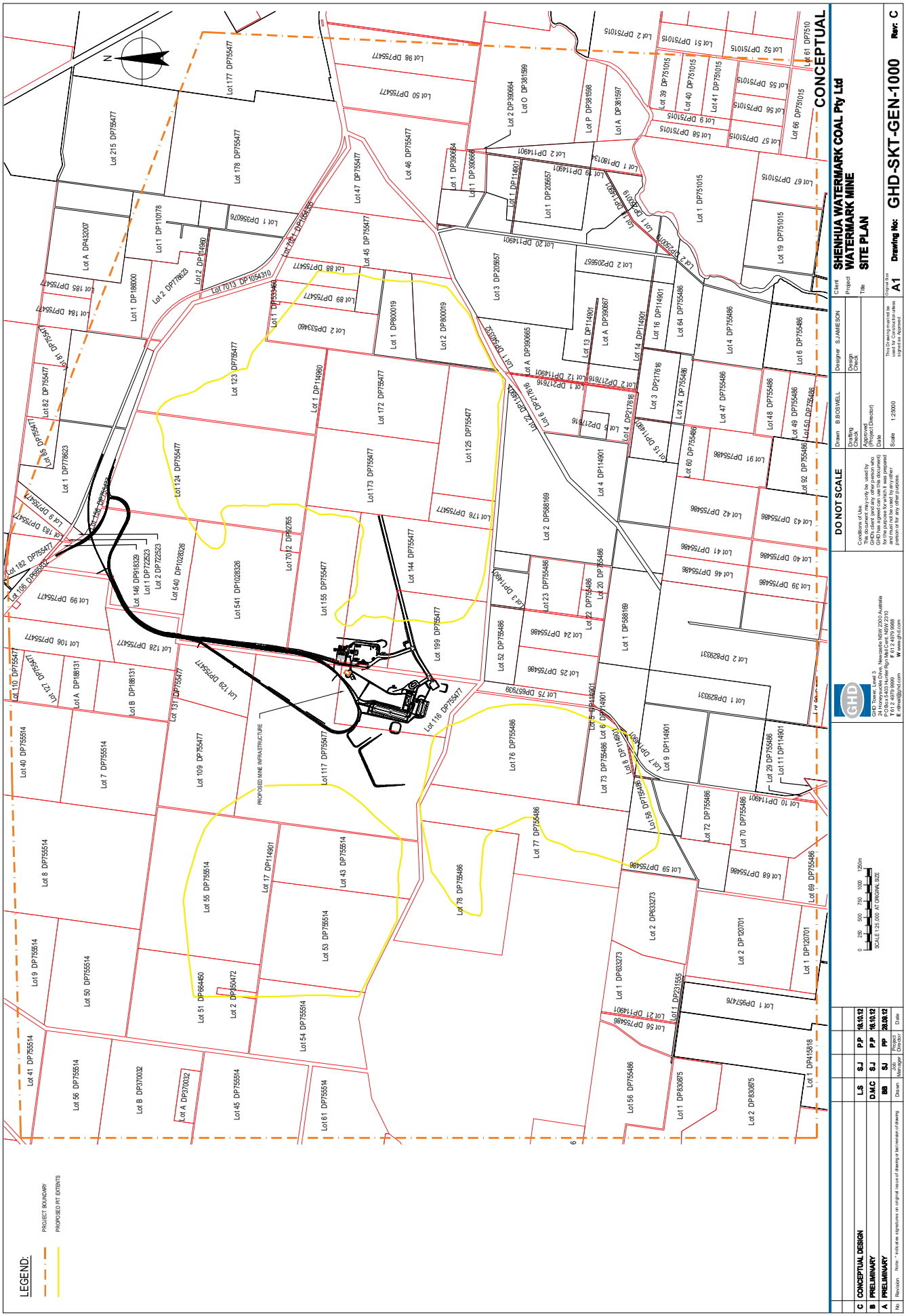

PROPOSED PLANT SPECIES
BOTANICAL NAME
COMMON NAME
TREES
ACACIA homalophylla
Yarran
CALLISTEMON salignus
Willow Bottlebrush
CASUARINA cristata
Belah
SHRUBS
LEPTOSPERMUM laevigatum
Coastal Tea Tree
CORREA lawrenceana spp lawrenceana
Slim Jim
EREMOPHILA bignoniflora
Creek Wilga
EREMOPHILA glabra
Common Emu Bush
GROUNDCOVERS
DIANELLA caerulea
Paroo lily
GREVILLEA juniperina Molongio/
Gravellea Molongio
EREMOPHILA debilis
Winter Apple
LOMANDRA longifolia
Mat Rush
NOTES
PREFERRED PLANT SPECIES TO HAVE NON-INVASIVE ROOT SYSTEMS AND TO BE OFFSET FROM SERVICES ACCORDING TO GUNNEDAH SHIRE COUNCIL REQUIREMENTS
LEGEND
PROPOSED TREE PLANTING (3 - 10m high)
PROPOSED SHRUB PLANTING (1.5 - 4m high)
PROPOSED GROUNDCOVER PLANTING (0.5 - 1m high)
PLANT PALETTE
KEY PLAN
NTS
SITE ACCESS
GATE HOUSE
KAMILAROI HIGHWAY
SITE ACCESS ROAD
PLANTING TO SITE ACCESS ROAD TO BE A COMBINATION OF TREES, SHRUBS AND GROUNDCOVERS TO ACHIEVE THREE TIER ENTRY FEATURE PLANTING
PLANT SPECIES TO BE DROUGHT AND FROST TOLERANT TO WITHSTAND HARSH ROAD CONDITIONS
SITE ACCESS INTERSECTION
SCALE 1:500
MEDIUM HEIGHT SHRUBS TO FRAME GROUNDCOVERS AND PROVIDE AN INFORMAL EDGE TO ENTRY PLANTING
MASS PLANTING TO ADMINISTRATION BUILDING. USE LOW HEIGHT PLANTING TO MAINTAIN VISIBILITY FROM GATE HOUSE
CRUSHED ROCK / GRAVEL TO GATE HOUSE ENTRY
GATE HOUSE INTERSECTION
SCALE 1:500
SCALE 1:500 AT ORIGINAL SIZE
DO NOT SCALE
GHD
CONCEPTUAL
SHENHUA WATERMARK COAL Pty Ltd
WATERMARK FEASIBILITY STUDY
LANDSCAPE CONCEPT
GATE HOUSE AND SITE ACCESS INTERSECTIONS
A3
Drawing No: 22-16332-L001
Rev: B
B REVISED FOR DA
A PRELIMINARY


CONCEPTUAL
SHENHUA WATERMARK COAL Pty Ltd
WATERMARK MINE
SITE PLAN
Client
Project
Title
Drawing No: GHD-SKT-GEN-1000
Rev: C
Sheet Size A1
Designer S.JAMIESON
Drawn B.BOSWELL
Scale 1:25000
DO NOT SCALE
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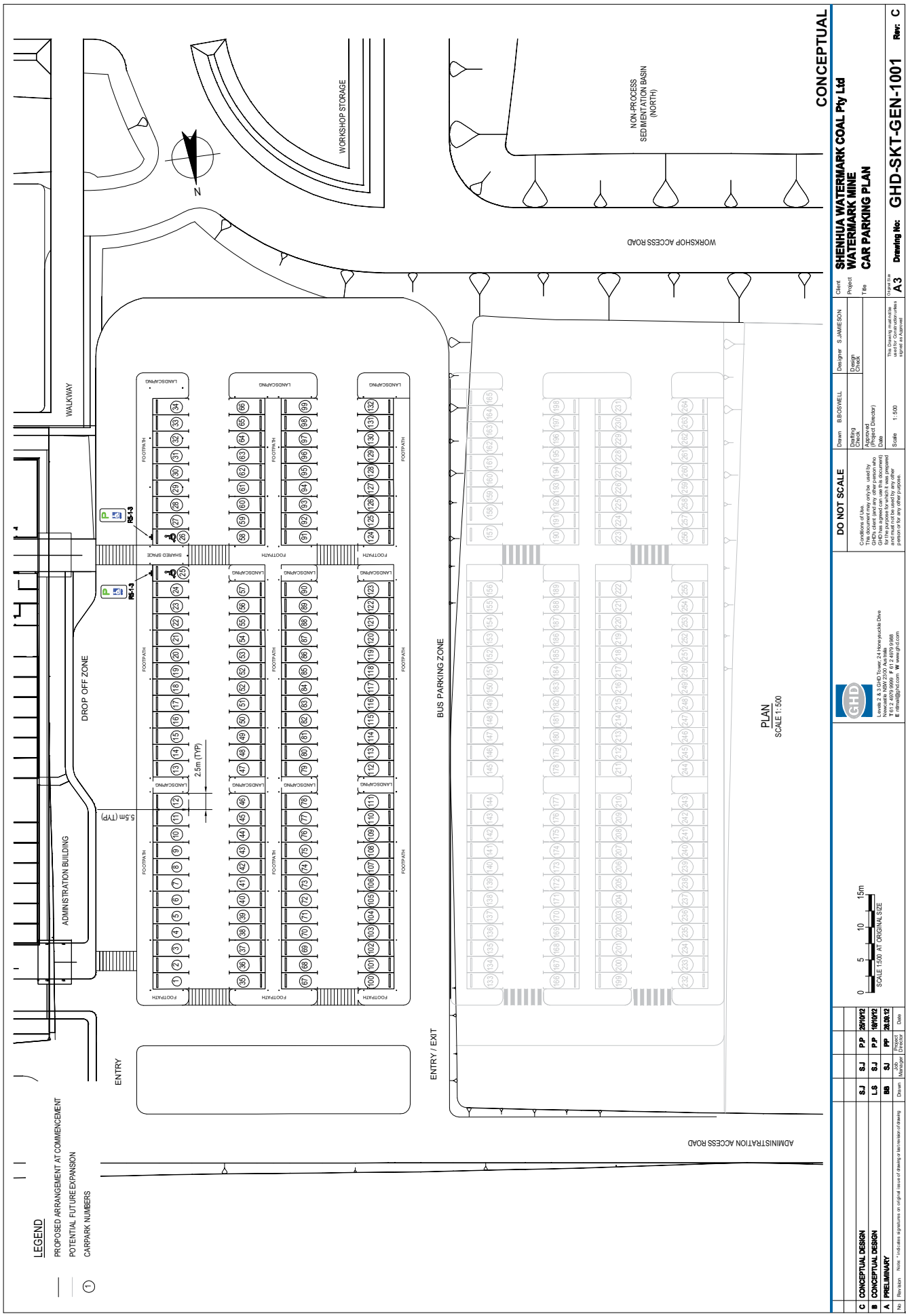
E ntmail@ghd.com
W www.ghd.com
SCALE 1:25,000 AT ORIGINAL SIZE
C CONCEPTUAL DESIGN L.S S.J P.P 16.10.12
B PRELIMINARY D.M.C S.J P.P 16.10.12
A PRELIMINARY BB SJ PP 20.09.12
No Revision Drawn Job Manager Project Director Date
Cad File No: G:\21\14598\CADD\Drawings\GHD-SKT-GEN-1000.dwg
Plot Date: 19 October 2012 - 10:18 AM Plotted by: Aaron Bik
LEGEND:
PROJECT BOUNDARY
PROPOSED PIT EXTENTS
PROPOSED MINE INFRASTRUCTURE
N


CONCEPTUAL
SHENHUA WATERMARK COAL Pty Ltd
WATERMARK MINE
CAR PARKING PLAN
Client
Project
Title
Drawing No: GHD-SKT-GEN-1001
Rev: C
A3
Designer S JAMIESON
Drawn B BOSWELL
Design Check
Drafting Check
Approved (Project Director)
Date
Scale 1:500
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0 5 10 15m
SCALE 1:500 AT ORIGINAL SIZE
PLAN
SCALE 1:500
N
WORKSHOP STORAGE
NON-PROCESS SEDIMENTATION BASIN (NORTH)
WORKSHOP ACCESS ROAD
WALKWAY
DROP OFF ZONE
ADMINISTRATION BUILDING
ENTRY
ENTRY / EXIT
BUS PARKING ZONE
ADMINISTRATION ACCESS ROAD
SHARED SPACE
FOOTPATH
LANDSCAPING
2.5m (TYP)
5.5m (TYP)
LEGEND
PROPOSED ARRANGEMENT AT COMMENCEMENT
POTENTIAL FUTURE EXPANSION
CARPARK NUMBERS
C CONCEPTUAL DESIGN S.J S.J P.P 25/10/12
B CONCEPTUAL DESIGN L.S S.J P.P 19/10/12
A PRELIMINARY BB SJ PP 20.09.12
No Revision Drawn Job Manager Project Director Date
Plot Date: 25 October 2012 - 1:37 PM Plotted By: Stephen Jamieson
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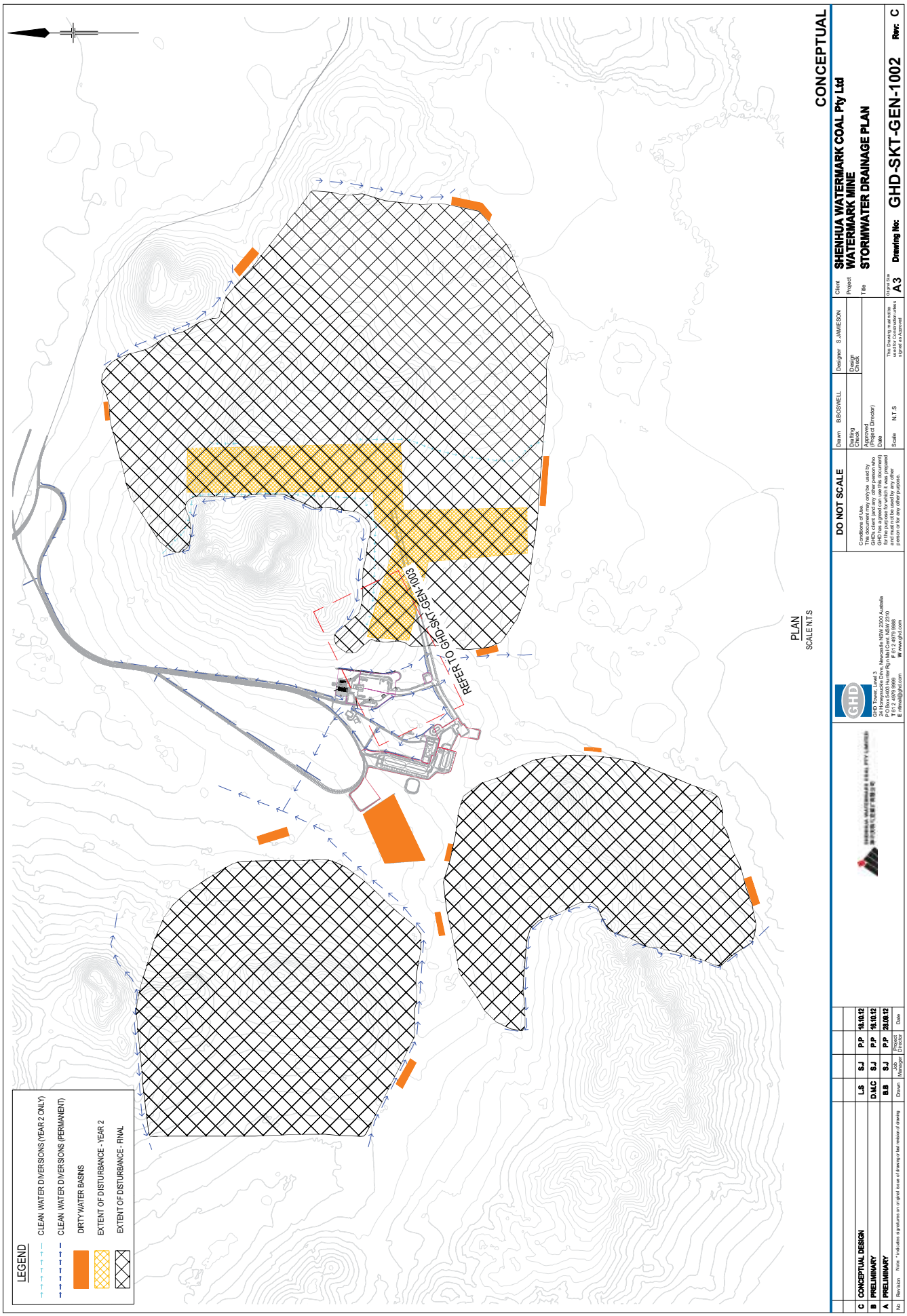
Note: * indicates signature on original issue of drawing or last revision of drawing


LEGEND
CLEAN WATER DIVERSIONS (YEAR 2 ONLY)
CLEAN WATER DIVERSIONS (PERMANENT)
DIRTY WATER BASINS
EXTENT OF DISTURBANCE - YEAR 2
EXTENT OF DISTURBANCE - FINAL
REFER TO GHD-SKT-GEN-1003
PLAN
SCALE N.T.S
CONCEPTUAL
DO NOT SCALE
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Drawn B.BOSWELL
Drafting Check
Approved (Project Director)
Date
Scale N.T.S
Designer S.JAMIESON
Design Check
This Drawing must not be used for construction purposes unless signed as Approved
Client SHENHUA WATERMARK COAL Pty Ltd
Project WATERMARK MINE
Title STORMWATER DRAINAGE PLAN
Paper Size A3
Drawing No: GHD-SKT-GEN-1002
Rev: C
GHD
GHD Tower, Level 3
24 Honeysuckle Drive, Newcastle NSW 2300 Australia
PO Box 1554 Newcastle NSW 2300 AUSTRALIA
T 61 2 4979 9999 F 61 2 4979 9988
E ntmail@ghd.com W www.ghd.com
C CONCEPTUAL DESIGN LS SJ PP 18.10.12
B PRELIMINARY D.MC SJ PP 18.10.12
A PRELIMINARY B.B SJ PP 26.09.12
No Revision Note: Indicates signatures on original issue of drawing or last revision of drawing Drawn Job Manager Project Director Date
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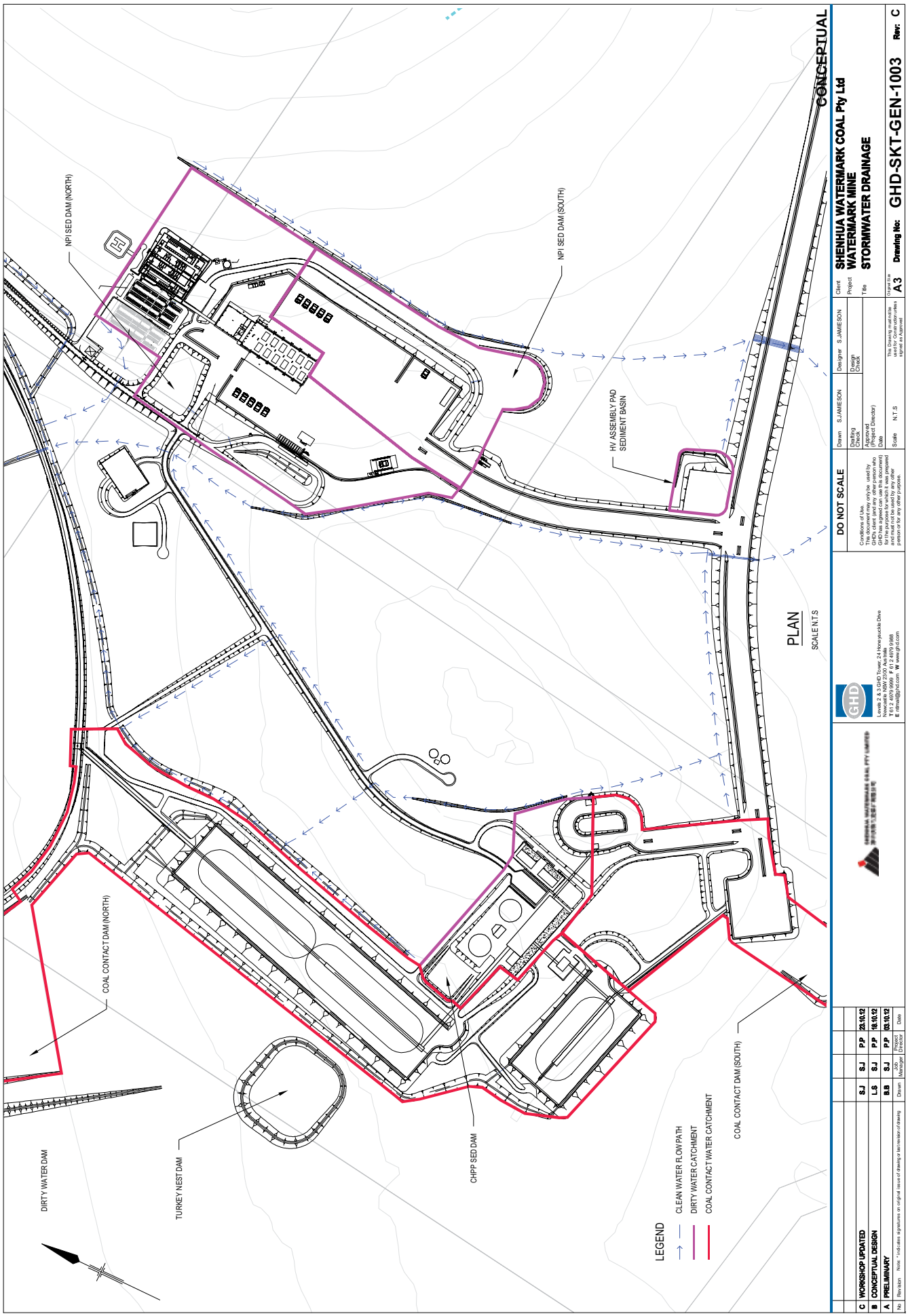
Plot Date: 19 October 2012 - 10:19 AM Plotted By: Aaron Bk


CONCEPTUAL
NPI SED DAM (NORTH)
NPI SED DAM (SOUTH)
HV ASSEMBLY PAD SEDIMENT BASIN
PLAN
SCALE N.T.S
COAL CONTACT DAM (NORTH)
DIRTY WATER DAM
TURKEY NEST DAM
CHPP SED DAM
COAL CONTACT DAM (SOUTH)
LEGEND
CLEAN WATER FLOW PATH
DIRTY WATER CATCHMENT
COAL CONTACT WATER CATCHMENT
DO NOT SCALE
Conditions of Use
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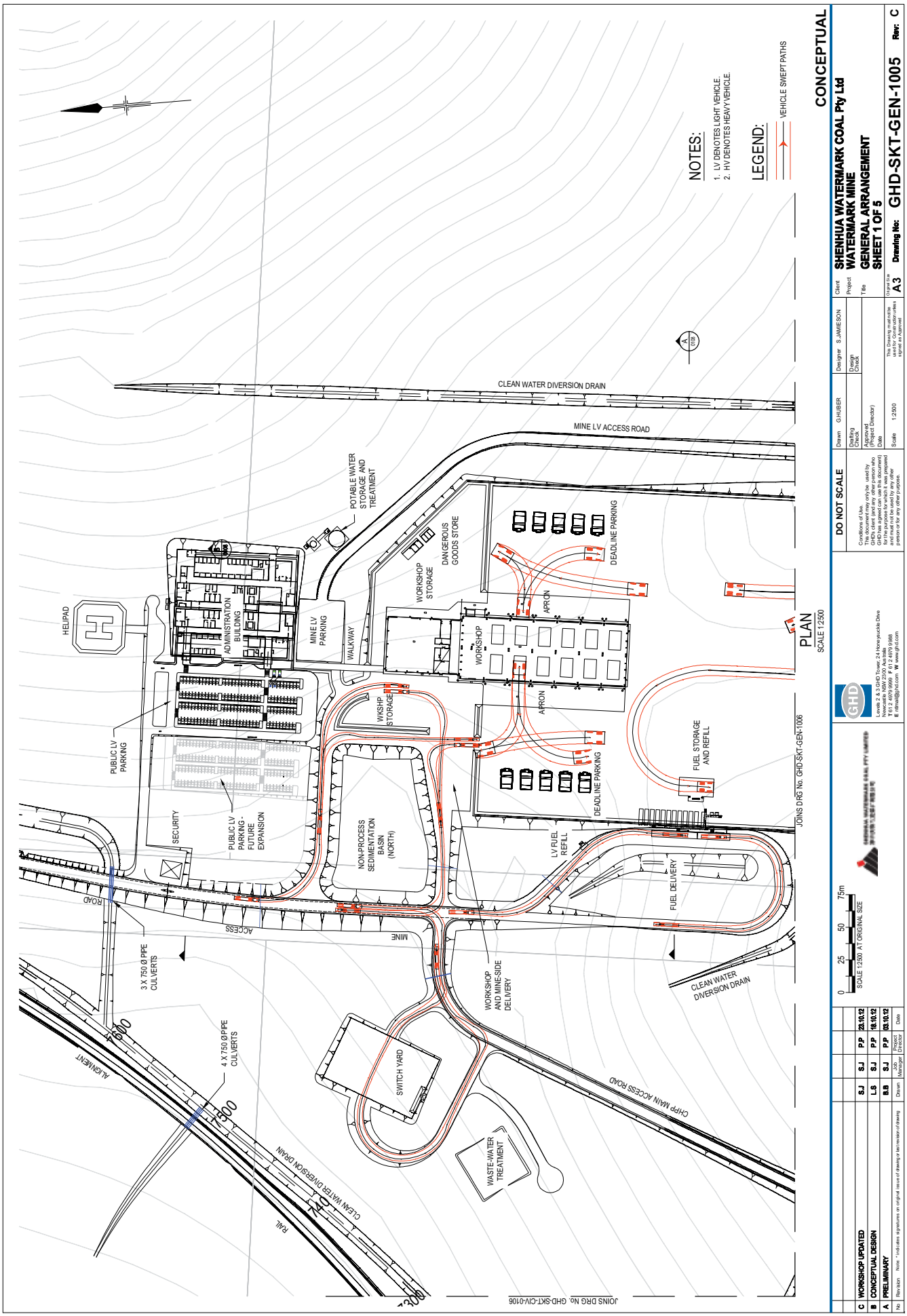
Drawn S.J.JAMIESON
Designer S.JAMIESON
Drafting Check
Design Check
Approved (Project Director)
Date
Scale N.T.S
This Drawing must not be used for Construction unless signed as Approved
Client SHENHUA WATERMARK COAL Pty Ltd
Project WATERMARK MINE
Title STORMWATER DRAINAGE
Drawing No: GHD-SKT-GEN-1003
Rev: C
A3
GHD
Levels 2 & 3 GHD Tower, 24 Honeysuckle Drive Newcastle NSW 2300 Australia
T 61 2 4979 9900 F 61 2 49799999
E mail@ghd.com.au W www.ghd.com
No Revision Date Drawn Job Manager Project Director
C WORKSHOP UPDATED S.J S.J P.P 23.10.12
B CONCEPTUAL DESIGN L.S S.J P.P 18.10.12
A PRELIMINARY B.B S.J P.P 03.10.12
Plot Date: 23 October 2012 - 9:41 AM Plotted By: Stephen Jamieson Cad File No: G:\21\49990\CAD\Drawings\GHD-SKT-GEN-1003.dwg


CONCEPTUAL
NOTES:
1. LV DENOTES LIGHT VEHICLE.
2. HV DENOTES HEAVY VEHICLE.
LEGEND:
VEHICLE SWEPT PATHS
CLEAN WATER DIVERSION DRAIN
MINE LV ACCESS ROAD
POTABLE WATER STORAGE AND TREATMENT
DANGEROUS GOODS STORE
WORKSHOP STORAGE
DEADLINE PARKING
APRON
WORKSHOP
HELIPAD
ADMINISTRATION BUILDING
MINE LV PARKING
WALKWAY
WKSHP STORAGE
PUBLIC LV PARKING
SECURITY
PUBLIC LV PARKING - FUTURE EXPANSION
NON-PROCESS SEDIMENTATION BASIN (NORTH)
LV FUEL REFILL
FUEL STORAGE AND REFILL
FUEL DELIVERY
PLAN
SCALE 1:2500
JOINS DRG No. GHD-SKT-GEN-1006
3 X 750 Ø PIPE CULVERTS
4 X 750 Ø PIPE CULVERTS
ACCESS ROAD
MINE
WORKSHOP AND MINE-SIDE DELIVERY
SWITCH YARD
WASTE-WATER TREATMENT
CHPP MAIN ACCESS ROAD
CLEAN WATER DIVERSION DRAIN
RAIL
ALIGNMENT
JOINS DRG No. GHD-SKT-CIV-0106
DO NOT SCALE
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Drawn G HUBER
Drafting Check
Approved (Project Director)
Date
Scale 1:2500
Designer S JAMIESON
Design Check
This Drawing must not be used for construction unless signed as Approved
Client SHENHUA WATERMARK COAL Pty Ltd
Project WATERMARK MINE
Title GENERAL ARRANGEMENT SHEET 1 OF 5
Original size A3
Drawing No: GHD-SKT-GEN-1005
Rev: C
GHD
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E mail@ghd.com W www.ghd.com
0 25 50 75m
SCALE 1:250 AT ORIGINAL SIZE
C WORKSHOP UPDATED S.J S.J P.P 23.10.12
B CONCEPTUAL DESIGN L.S S.J P.P 18.10.12
A PRELIMINARY B.B S.J P.P 03.10.12
No Revision Drawn Job Manager Project Director Date
Plot Date: 23 October 2012 - 9:40 AM Plotted By: Stephen Jamieson
Cad File No: G:\2214\86\CAD\Drawings\GHD-SKT-GEN-1005.dwg
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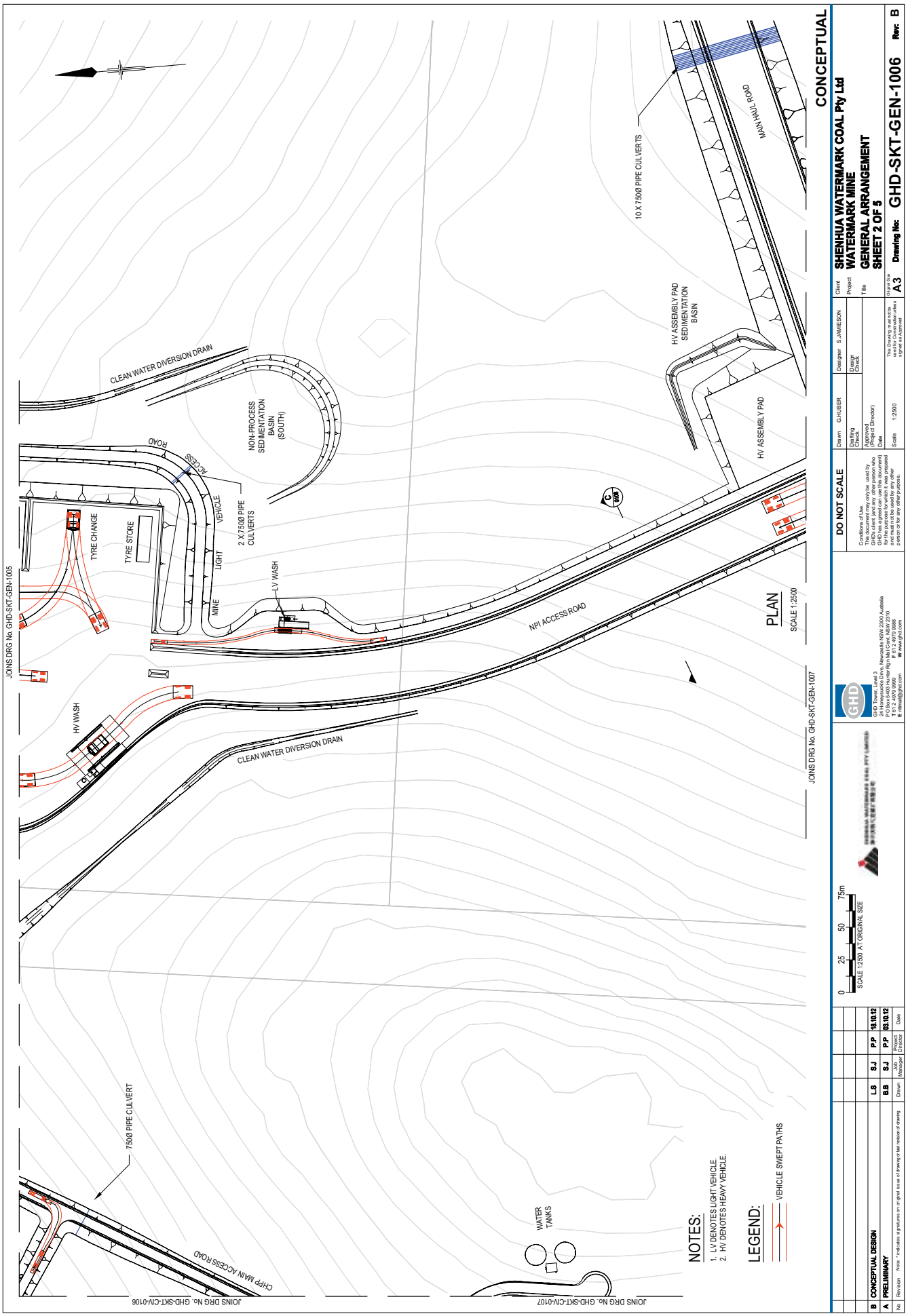
CONCEPTUAL
PLAN
SCALE 1:2500
JOINS DRG No. GHD-SKT-GEN-1005
JOINS DRG No. GHD-SKT-GEN-1007
JOINS DRG No. GHD-SKT-CIV-0106
JOINS DRG No. GHD-SKT-CIV-0107
CLEAN WATER DIVERSION DRAIN
NON-PROCESS SEDIMENTATION BASIN (SOUTH)
ROAD ACCESS
TYRE CHANGE
TYRE STORE
LIGHT VEHICLE MINE
2 X 750Ø PIPE CULVERTS
LV WASH
HV WASH
NPI ACCESS ROAD
MAIN HAUL ROAD
10 X 750Ø PIPE CULVERTS
HV ASSEMBLY PAD SEDIMENTATION BASIN
HV ASSEMBLY PAD
750Ø PIPE CULVERT
CHPP MAIN ACCESS ROAD
WATER TANKS
NOTES:
1. LV DENOTES LIGHT VEHICLE.
2. HV DENOTES HEAVY VEHICLE.
LEGEND:
VEHICLE SWEPT PATHS
0 25 50 75m
SCALE 1:2500 AT ORIGINAL SIZE
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Drawn G.HUBER
Drafting Check
Approved (Project Director)
Date
Scale 1:2500
Designer S.JAMIESON
Design Check
This Drawing must not be used for Construction unless signed as Approved
Client
Project
Title
SHENHUA WATERMARK COAL Pty Ltd
WATERMARK MINE
GENERAL ARRANGEMENT
SHEET 2 OF 5
Original Size A3
Drawing No: GHD-SKT-GEN-1006
Rev: B
GHD
GHD Tower, Level 3
24 Honeysuckle Drive, Newcastle NSW 2300 Australia
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B CONCEPTUAL DESIGN L.S S.J P.P 18.10.12
A PRELIMINARY B.B S.J P.P 03.10.12
No. Revision Drawn Job Manager Project Director Date
Plot Date: 19 October 2012 - 10:23 AM Plotted By: Aaron Bk
Cad File No: G:\21\14398\CAD\Drawings\GHD-SKT-GEN-1006.dwg
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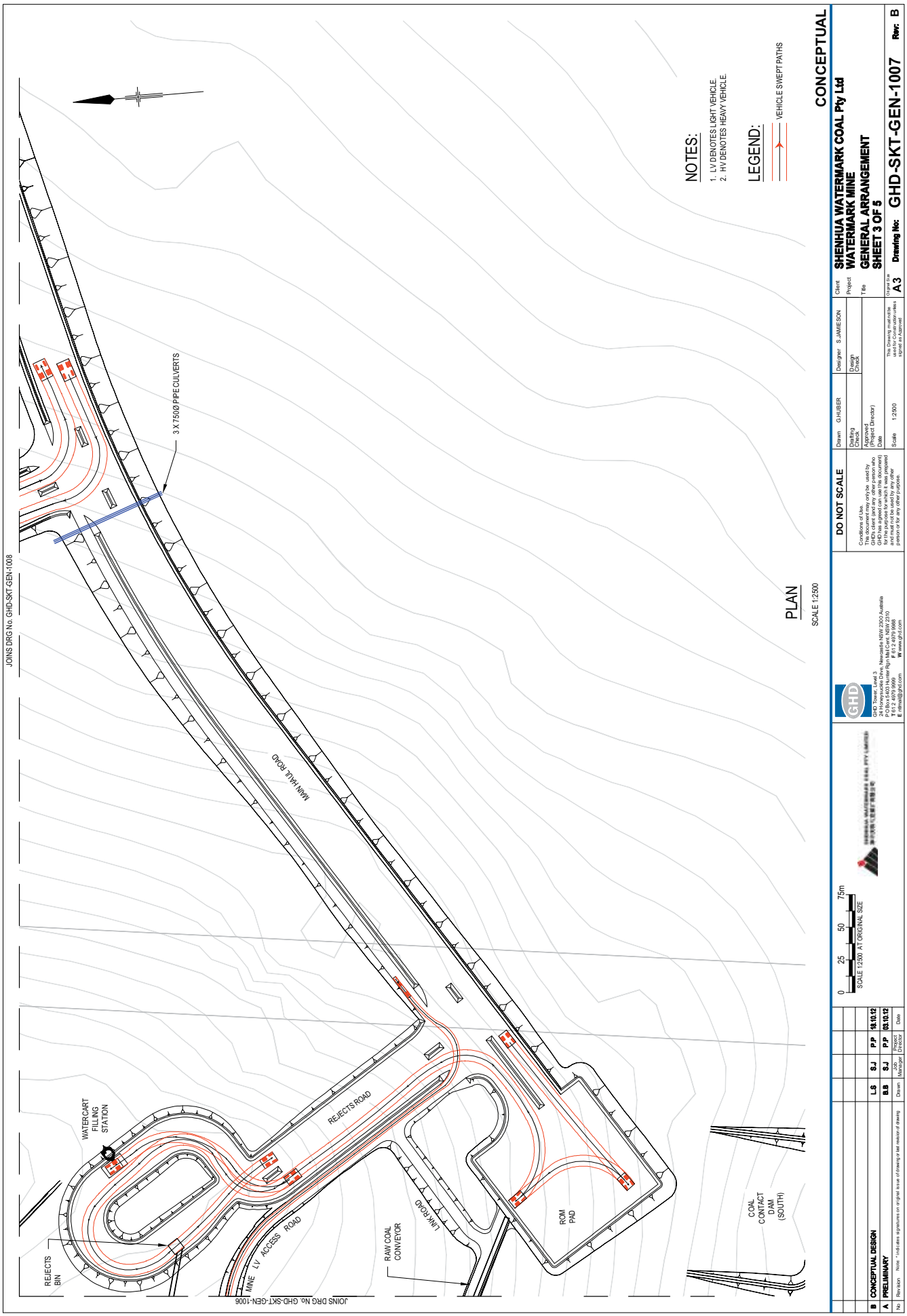
JOINS DRG No. GHD-SKT-GEN-1008
3 X 7500 PIPE CULVERTS
MAIN HAUL ROAD
REJECTS ROAD
WATERCART FILLING STATION
REJECTS BIN
MINE LV ACCESS ROAD
RAW COAL CONVEYOR
LINK ROAD
ROM PAD
COAL CONTACT DAM (SOUTH)
JOINS DRG No. GHD-SKT-GEN-1006
NOTES:
1. LV DENOTES LIGHT VEHICLE.
2. HV DENOTES HEAVY VEHICLE.
LEGEND:
VEHICLE SWEPT PATHS
PLAN
SCALE 1:2500
CONCEPTUAL
DO NOT SCALE
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Drawn G.HUBER
Drafting Check
Approved (Project Director)
Date
Scale 1:2500
Designer S.JAMIESON
Design Check
This Drawing must not be used for construction purposes signed as Approved
Client
Project
Title
SHENHUA WATERMARK COAL Pty Ltd
WATERMARK MINE
GENERAL ARRANGEMENT
SHEET 3 OF 5
Drawing Size A3
Drawing No: GHD-SKT-GEN-1007
Rev: B
GHD
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0 25 50 75m
SCALE 1:2500 AT ORIGINAL SIZE
B CONCEPTUAL DESIGN L.S S.J P.P 18.10.12
A PRELIMINARY B.B S.J P.P 03.10.12
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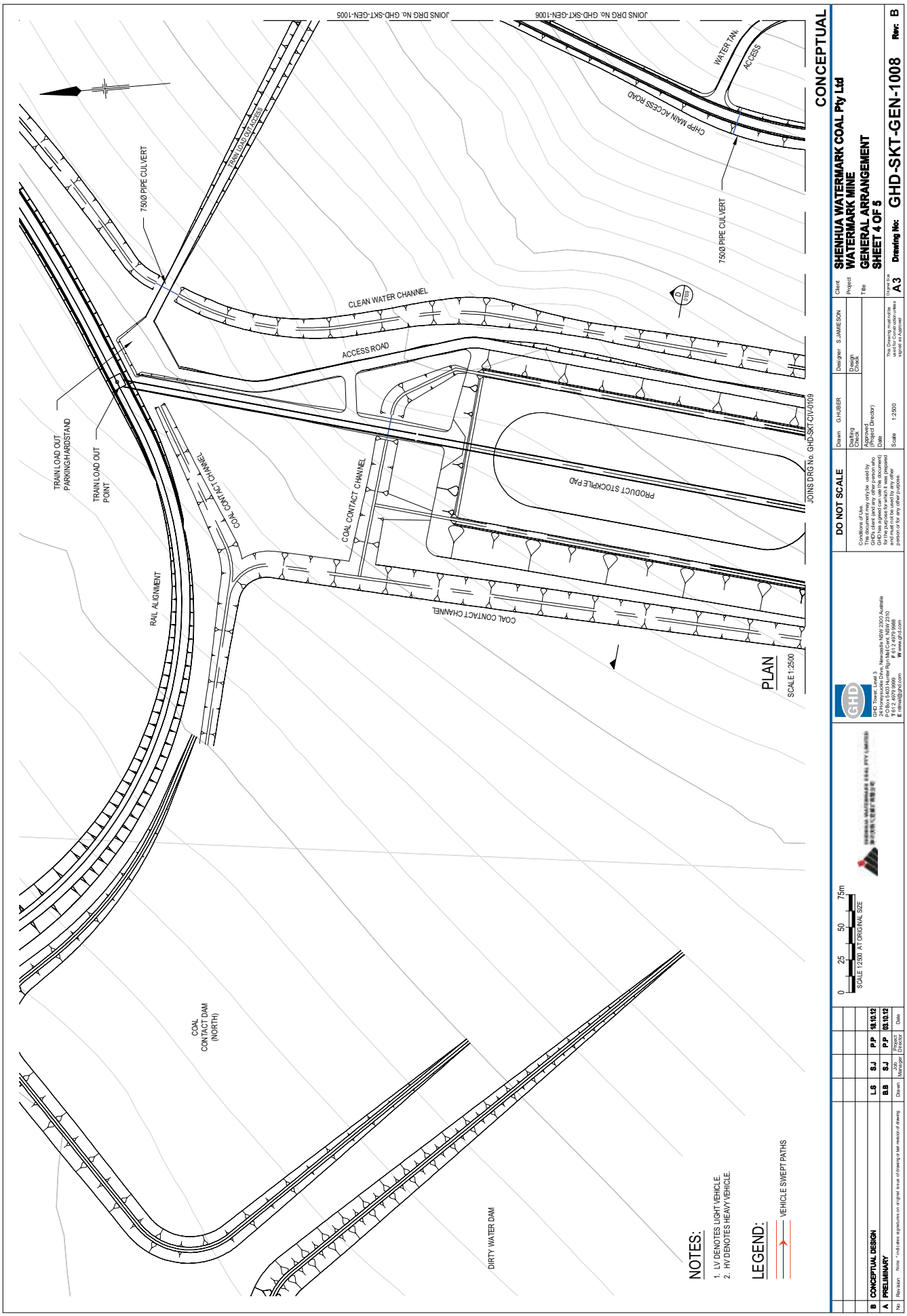
Plot Date: 19 October 2012 - 10:26 AM Plotted By: Aaron Bk


CONCEPTUAL
JOINS DRG No. GHD-SKT-GEN-1006
JOINS DRG No. GHD-SKT-GEN-1005
WATER TANK
ACCESS
CHPP MAIN ACCESS ROAD
7500 PIPE CULVERT
TRAIN LOAD OUT ACCESS
7500 PIPE CULVERT
CLEAN WATER CHANNEL
ACCESS ROAD
TRAIN LOAD OUT PARKING/HARDSTAND
TRAIN LOAD OUT POINT
COAL CONTACT CHANNEL
COAL CONTACT CHANNEL
PRODUCT STOCKPILE PAD
JOINS DRG No. GHD-SKT-CIV-0109
RAIL ALIGNMENT
COAL CONTACT CHANNEL
PLAN
SCALE 1:2500
COAL CONTACT DAM (NORTH)
DIRTY WATER DAM
NOTES:
1. LV DENOTES LIGHT VEHICLE.
2. HV DENOTES HEAVY VEHICLE.
LEGEND:
VEHICLE SWEPT PATHS
0 25 50 75m
SCALE 1:2500 AT ORIGINAL SIZE
DO NOT SCALE
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Drawn G.HUBER
Drafting Check
Approved (Project Director)
Date
Scale 1:2500
Designer S.JAMIESON
Design Check
This Drawing must not be used for Construction unless signed as Approved
Original Size A3
Client SHENHUA WATERMARK COAL Pty Ltd
Project WATERMARK MINE
Title GENERAL ARRANGEMENT SHEET 4 OF 5
Drawing No: GHD-SKT-GEN-1008
Rev: B
GHD
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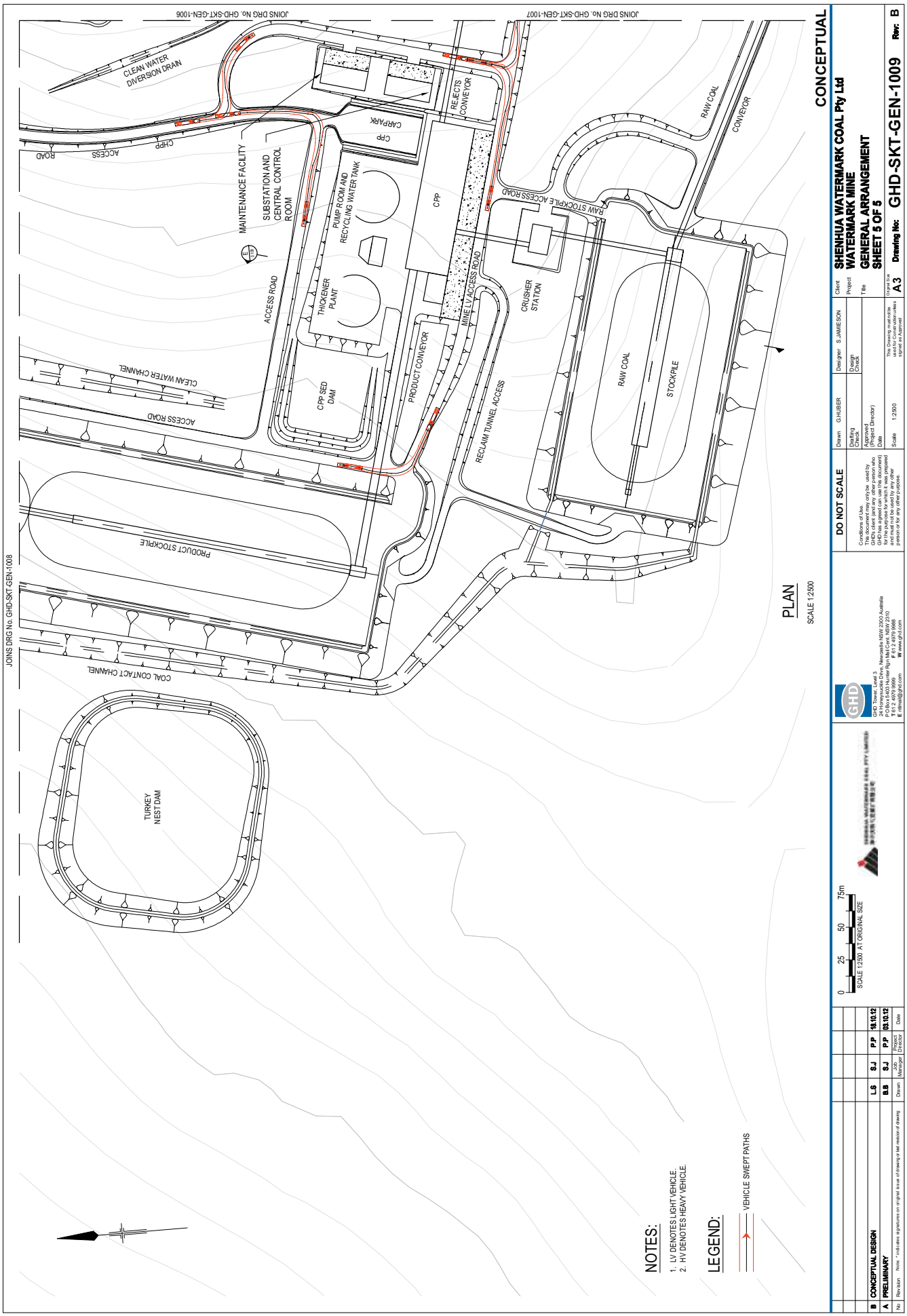
W www.ghd.com
B CONCEPTUAL DESIGN L.S S.J P.P 18.10.12
A PRELIMINARY B.B S.J P.P 03.10.12
No. Revision Drawn Job Manager Project Director Date
Plot Date: 19 October 2012 - 10:27 AM Plotted By: Aaron Bk Cad File No: G:\21\19961\CAD\Drawings\GHD-SKT-GEN-1008.dwg
Note: * indicates signatures on original issue of drawing or last revision of drawing


JOINS DRG No. GHD-SKT-GEN-1008
JOINS DRG No. GHD-SKT-GEN-1006
JOINS DRG No. GHD-SKT-GEN-1007
CLEAN WATER DIVERSION DRAIN
ACCESS ROAD
CHPP
CARPARK
CPP
REJECTS CONVEYOR
RAW COAL CONVEYOR
MAINTENANCE FACILITY
SUBSTATION AND CENTRAL CONTROL ROOM
PUMP ROOM AND RECYCLING WATER TANK
RAW STOCKPILE ACCESS ROAD
ACCESS ROAD
THICKENER PLANT
CLEAN WATER CHANNEL
CPP SED DAM
PRODUCT CONVEYOR
MINE LV ACCESS ROAD
CRUSHER STATION
RECLAIM TUNNEL ACCESS
RAW COAL STOCKPILE
PRODUCT STOCKPILE
COAL CONTACT CHANNEL
TURKEY NEST DAM
PLAN
SCALE 1:2500
CONCEPTUAL
NOTES:
1. LV DENOTES LIGHT VEHICLE.
2. HV DENOTES HEAVY VEHICLE.
LEGEND:
VEHICLE SWEPT PATHS
0 25 50 75m
SCALE 1:2500 AT ORIGINAL SIZE
DO NOT SCALE
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Drawn G.HUBER
Designer S.JAMIESON
Scale 1:2500
Client
Project
Title
SHENHUA WATERMARK COAL Pty Ltd
WATERMARK MINE
GENERAL ARRANGEMENT
SHEET 5 OF 5
A3
Drawing No: GHD-SKT-GEN-1009
Rev: B
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B CONCEPTUAL DESIGN L.S S.J P.P 18.10.12
A PRELIMINARY B.B S.J P.P 03.10.12
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Drawn Job Manager Project Director Date
Cad File No: G:\21\14998\CADD\Drawings\GHD-SKT-GEN-1009.dwg
Plot Date: 19 October 2012 - 10:31 AM Plotted By: Aaron Bk