

PROJECT BLUE SKY

CABLEWAY PROPOSAL FOR FCC



V D M M A
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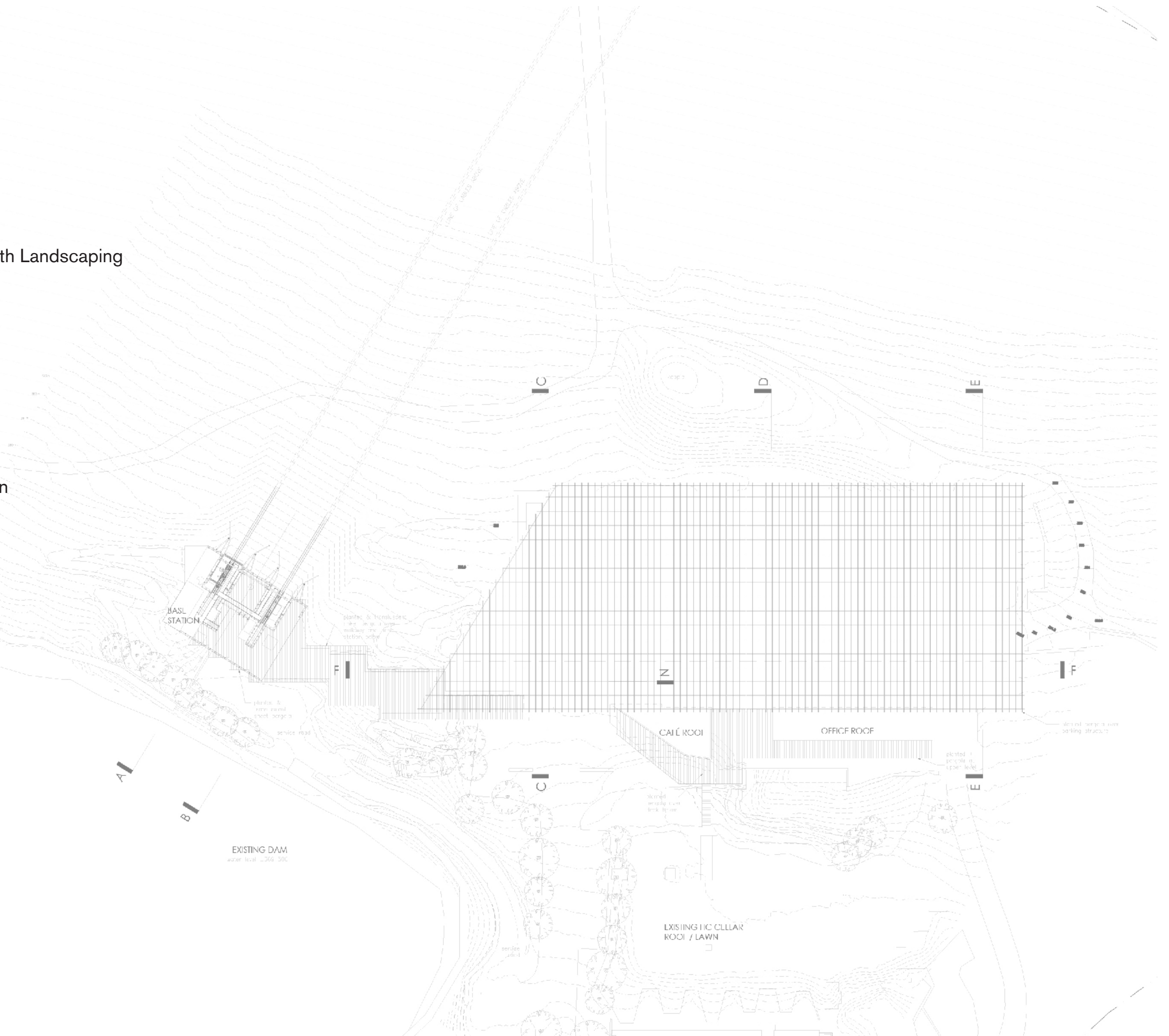


HENRY FAGAN & PARTNERS
Consulting structural and civil engineers

AL&A **STLA**

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ARCHITECTS REPORT

BRIEF

The creation of a world class, iconic aerial cableway from the Haute Cabriere estate to a point near the peak of the Middagkrans mountain in Franschhoek. A new facility that works with the existing farmstead and showcases the Fynbos Biome, the Winelands, the history of the area and boosts the existing local tourist experience.

SITE

The Base Station Site is situated on Lamprechts road and is characterized by a large dam and an existing winery and tasting facility below the slopes of the Haute Cabriere vineyards.

The site is owned by Haute Cabriere and has an existing sub-terranean winery, and a well-appointed restaurant and wine tasting facility. Behind the newly renovated restaurant is a large grass terrace (the roof of the subterranean maturation cellar) with commanding views up towards Middagkrans and over/out towards the Franschhoek valley.

The dam is well established and edged in places by mature trees and natural fynbos. There is a medium density housing development to the Northern side of the dam.

The existing access road in the estate is a double lane entry, controlled by a security kiosk and boom.

The Upper Station Site is located downslope from the peak of Middagkrans, around a surveyed area on contour 1017, with the peak at point 1030.74. The upper station site is owned by the Stellenbosch Municipality. It is situated within the Mont Rochelle Nature Reserve which is managed by the Mont Rochelle Nature Reserve Board. The upper station site is characteristically rocky with grass and low shrubs. The views over the Franschhoek valley are quite astounding, as are the views towards Theewaterskloof dam and beyond.

CONCEPT

The design approach with the base station is to create facilities within and of the landscape, and the approach with the upper station is to create facilities that are perched on the landscape, touching the ground lightly.

The base station is a fabulous 'departure lounge' integrated into the landscape, an environment which showcases the Cape Floral kingdom and the mystery of wine-making at Haute Cabriere, with places to linger, to get out of the sun, refresh and launch. It's in the landscape not on the landscape. The upper station facilities are made entirely of pre-manufactured components, a lightweight kit of parts strung along a single contour, and on angled steel braced supports, with timber panelled infill. The braced and angled supports below the decks form a detailed and shaded underbelly to the scheme, reducing the visual impact of the geographically positioned building facilities.

BASE STATION AND ARRIVAL AREA

The base station is situated on the banks of the existing dam, with the control gear set into the banks, and screened with landscaped and stepped seating, plus a view deck on the water's edge. This serves to reduce visual impact of the heavy cableway gearbox, motors etc. all housed within a sub-terranean plant room.

The arrival/departure platform of the base station is closely aligned with the arrival level of a new parking structure for ease of access. The actual cableway arms, cable car and cable wheel are expressed and rather beautiful in the robust simplicity of their design. The gear is high tech and Swiss designed.

Over the base station and the dam edge is a steel and timber cantilevered pergola structure, heavily planted with deciduous vines and creepers. This serves to conceptually bring the upper vineyards of the estate into the scheme, softening visual impact and providing shade and shelter.

The arrival by vehicle or bus is via a widened road on Lamprechts road, and straight up and into a ramped parking structure, providing parking for 177 cars and easy turning circles for minibuses, taxis and the Franschhoek wine tram buses. To reduce the impact of the parking, the sides of the concrete structure are completely open, and naturally ventilated, and the whole structure is covered by a steel and timber pergola, heavily greened with deciduous vines.

The location of this large parking structure is on previously disturbed land and replaces the existing temporary wine maturation facilities on the estate.

The ticket office for the ride is situated off the common arrival area under cover of a pergola, in a village square environment serviced by a waiting/coffee/refreshment facility, and situated close to the toilets and restrooms. The views from this village square over the valley are quite spectacular, and in the foreground is the planted/grassed roof of the current Haute Cabriere maturation cellar. An inviting glass enclosed staircase will allow visitors to enter the existing estate facilities through a suspended bridge in the barrel maturation cellar through to the tasting rooms and restaurant.

This area is in the heart of the existing wine making operation on the Estate, and part of the attraction will be showcasing how the wine is made and even watching the press at work over the harvest season.

All along the route (wheelchair friendly) from the 'town square' ticket area to the base station, are low rough exposed-aggregate concrete walls, peppered with information displays, to educate visitors to the Fynbos biome, the history of the area, the winemaking techniques, and the local flora/fauna.

The landscaping concept is around the sensitive integration of the new scheme into the existing landscape, with destination gardens featuring sculpture and specialist planting. There will be new tree lines, berms and ornamental vine structures which will screen, shade and integrate the scheme into the site.

UPPER STATION

The upper station arrival platform is on contour level 1017, with a control room, disabled toilet and souvenir shop. Underneath the arrival platform are toilets and water storage and the water storage/ waste management systems. (All sewerage is transported underneath the cars back down the mountain.)

On arrival, there's a deck flowing to the left (West), to a widened view area in front of a serviced kiosk for refreshments. The view platform on this side (South) has a lowered front deck level, and a meandering out-and-back pathway up to the peak.

Also to the west is the path to the Paragliding launch platform, situated on a sloped/grassed area on contour level 1070 at a gradient of about 1:8

To the right (East) after arrival and past the souvenir shop, is another deck which widens to an "all day café". Beyond that is a large multi-purpose area, which will include a showstopping wine bar showcasing the Franschhoek Vintners' wines, and a craft beer and artisan lounge.

The decks end in a fine-dining facility with arguably the most spectacular view, with serviced kitchen, yard and stores behind and stepped decking in front.

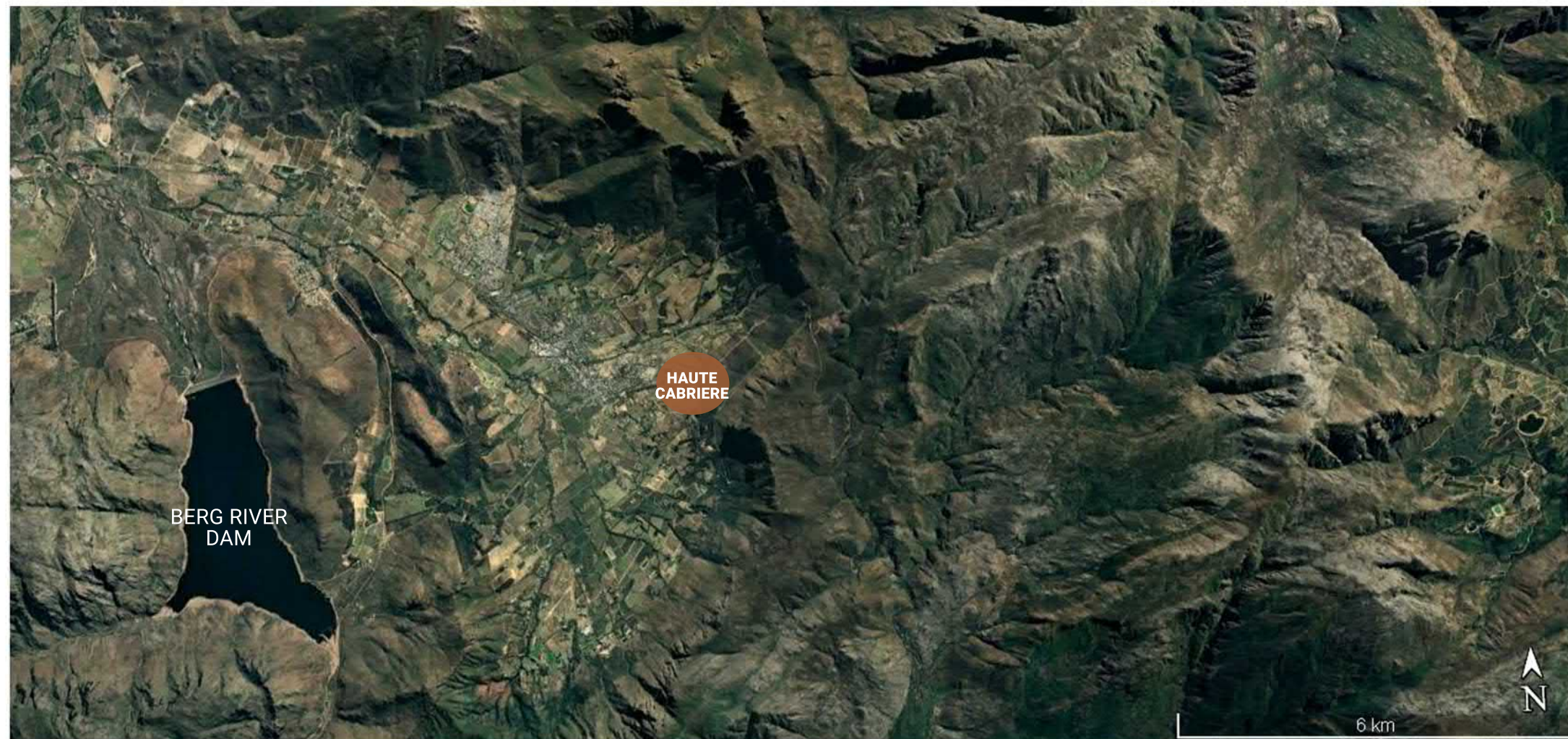
There's a lookout deck on top of the multipurpose space and an outdoor seating area at the very end.

The whole upper station is a lightweight placement on to the landscape, following the contours and cantilevering off the hard rock edge of the mountainside. All timber and steel components are to be pre-manufactured to exact dimensions, to allow for transport by cable to the top, and assembled in a Meccano type fashion.

With the help of detailed survey information, the structural components can be pre-measured and manufactured within designed tolerances. This way, robust structures can be pre-manufactured to handle the extreme weather conditions and be a low maintenance backdrop to the incredible views enjoyed from above. Constructability and materiality have been key factors informing the design, in addition to the functionality of the layout and the circulation.

LOCALITY PLAN

Showing Haute Cabriere, Franschhoek, Berg River Dam, and False Bay





LEGEND

- 1. Screening Trees
- 2. Riparian Planting
- 3. Fynbos Mix
- 4. Increased Tree Planting
- 5. Existing Trees
- 6. Village Green
- 7. Existing Vineyards
- 8. Restored Fynbos Slopes
- 9. New Parking Structure
- 10. Entrance

PLANT PALETTE (KEY SPECIES)

GROUNDCOVERS & PERENNIALS	
Carissa macrocarpa 'green carpet'	Natal plum
Dymondia margaretae	Carpet daisy
Gazania rigens - vari. uniflora	Coastal gazania
Geranium incanum	Carpet geranium
Lampranthus spectabilis sp.	Trailing ice plant
Osteospermum fruticosum	Trailing African daisy
Pelargonium capitatum	Rose geranium
Pelargonium peltatum	Ivy leaved pelargonium
Tulbaghia violacea	Wild garlic
SUCCULENTS	
Aloe arborescens	Candelabra aloe
Aloe striata	Coral aloe
Cotyledon orbiculata	Pig's ear
Cotyledon orbiculata var. oblonga	Oblong cotyledon
Lampranthus sp.	Burnt orange/white
Portulacaria afra	Elephant food
Senecio barbertonicus	Succulent bush senecio
Senecio serpens	Succulent senecio (silver)
CLIMBERS	
Ficus pumila	Tickey creeper
Rhoicissus digitata	Monkey grape
Rhoicissus tomentosa	Wild grape
Senecio tamoides	Canary creeper
Trechalospermum jasminoides	Star jasmine
SHRUBS	
Coloonema calycinum	Confetti bush - white
Metastasia muricata	Blombos
Leonotis leonurus	Lion's tail
Polygala myrtifolia	September bush
Eriocapulus africanus	Wild rosemary
Elytropappus rhinocerotis	Rhinoceros bush
Athanasia crithmifolia	Klaarlouwbos
HEDGES	
Coloonema album	Confetti bush
Dodonea viscosa var. angustifolia	Sand olive
Portulacaria afra	Spekboom
Salvia africana-lutea	Beach salvia
Scaevola crenata	Dune crow-berry
TREES	
Populus simonii	Simon's poplar
Calodendrum capense	Cape Chestnut
Celtis africana	White Stinkwood
Ekebergia capensis	Cape ash
Harpophyllum cafrum	Wild plum
Olea europaea subsp. africana	Wild olive
Sideroxylon inerme	Milkwood
Tarconanthus camphoratus	Wild camphor
LAWNS	
Cynodon dactylon	Bermuda grass

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Client : FCC (Pty) Ltd

base station
overall roof plan

Scale
1:500 / A1

Job No.
736519

Drawing No.
105

Revision
03

LOWER STATION - SECTION A



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Franschhoek
Client : FCC (Pty) Ltd

lower station Section A

Scale
1:200 / A3

Job No. 736519	Drawing No. 200.1	Revision 06
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LOWER STATION - SECTION B



MTA / V D M M A

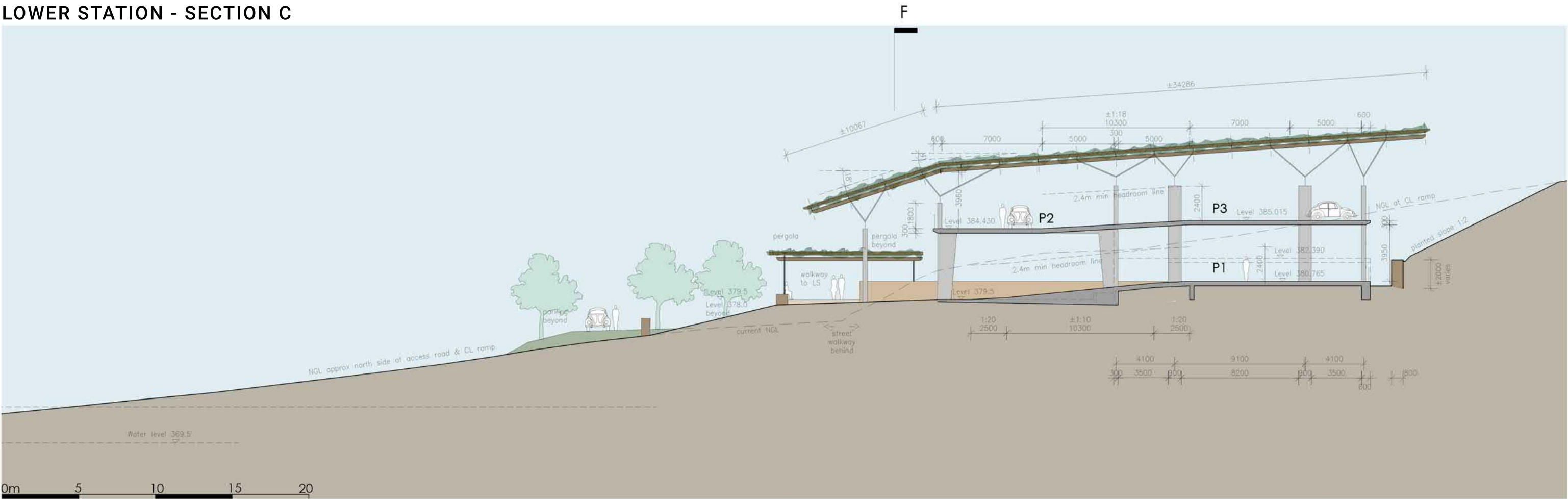
Project Blue Sky
Franschhoek
Client : FCC (Pty) Ltd

Lower Station Section B

Scale
1:200 / A3

Job No. 736519	Drawing No. 200.2	Revision 06
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LOWER STATION - SECTION C



MTA / V D M M A

Project Blue Sky
Franschhoek
Client : FCC (Pty) Ltd

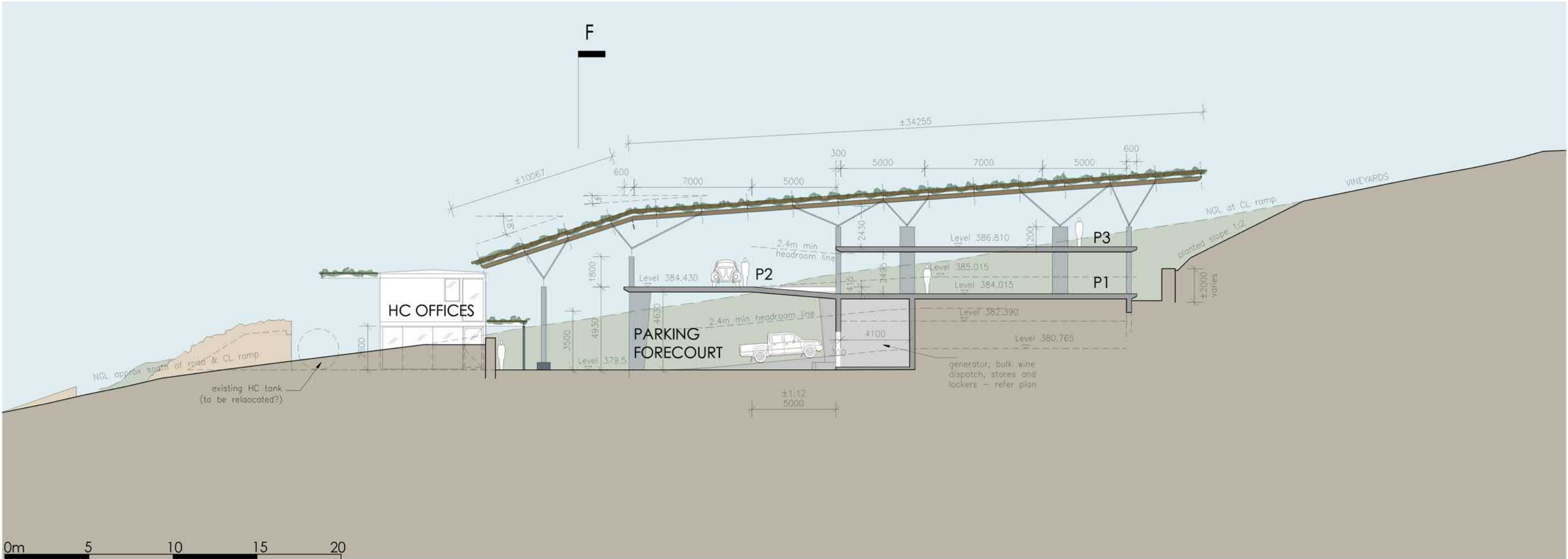
Lower Station Section C

Scale
To scale bar

Job No. 736519	Drawing No. 201.1	Revision 06
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06

LOWER STATION - SECTION E



MTA / V D M M A

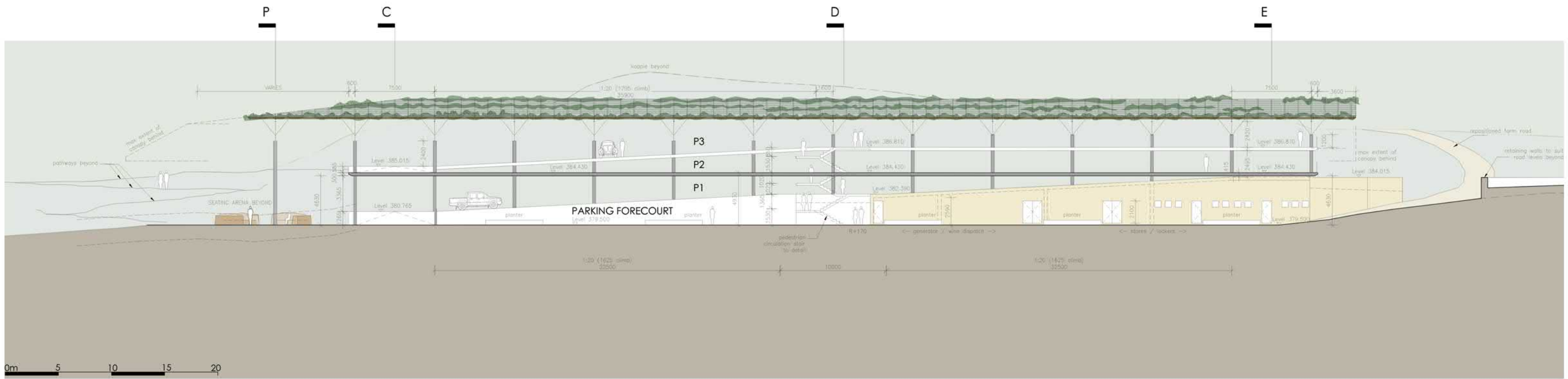
Project Blue Sky
Franschhoek
Client : FCC (Pty) Ltd

Lower Station Section E

Scale
To scale bar

Job No. 736519	Drawing No. 202.2	Revision 06
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LOWER STATION - SECTION F



MTA / V D M M A

Project Blue Sky

Franschhoek

Client : FCC (Pty) Ltd

Lower Station Section F

Scale

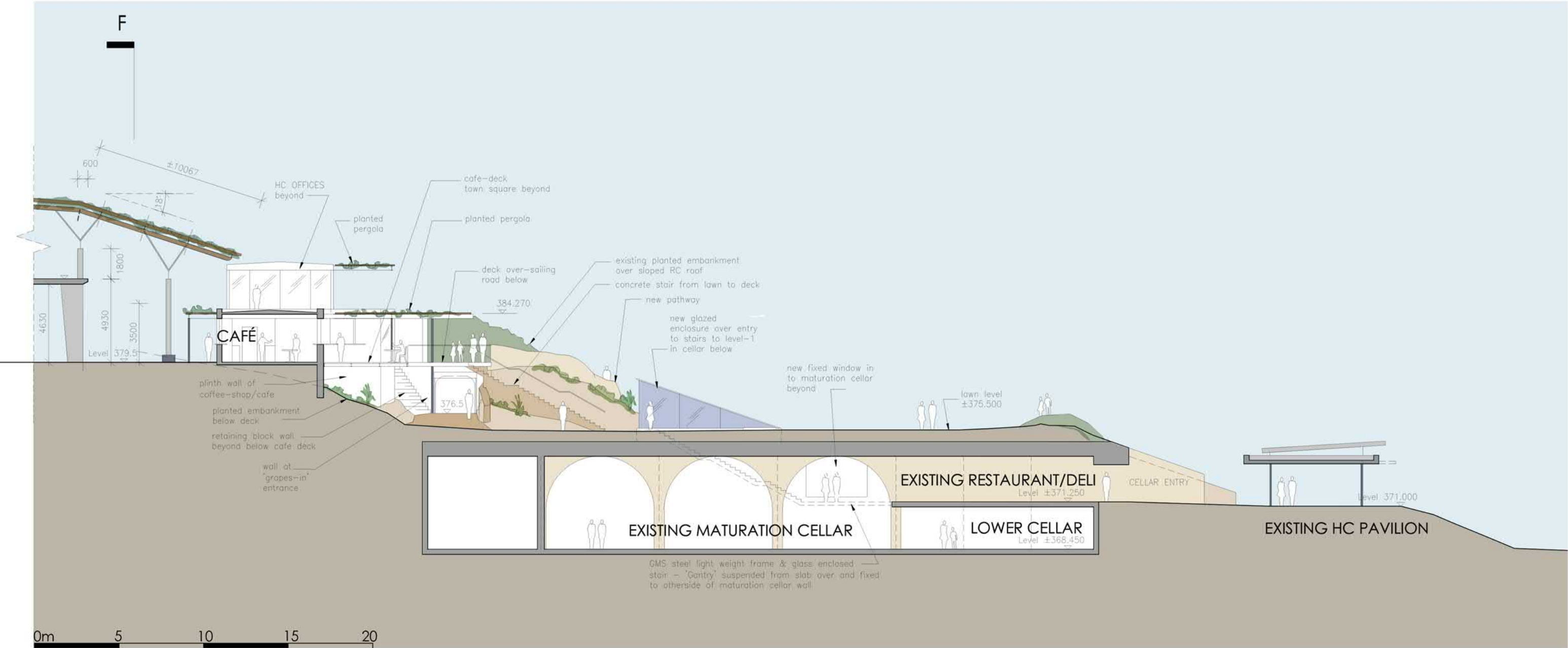
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Job No.
736519

Drawing No.
202.3

Revision
06

LOWER STATION - SECTION N



MTA / V D M M A

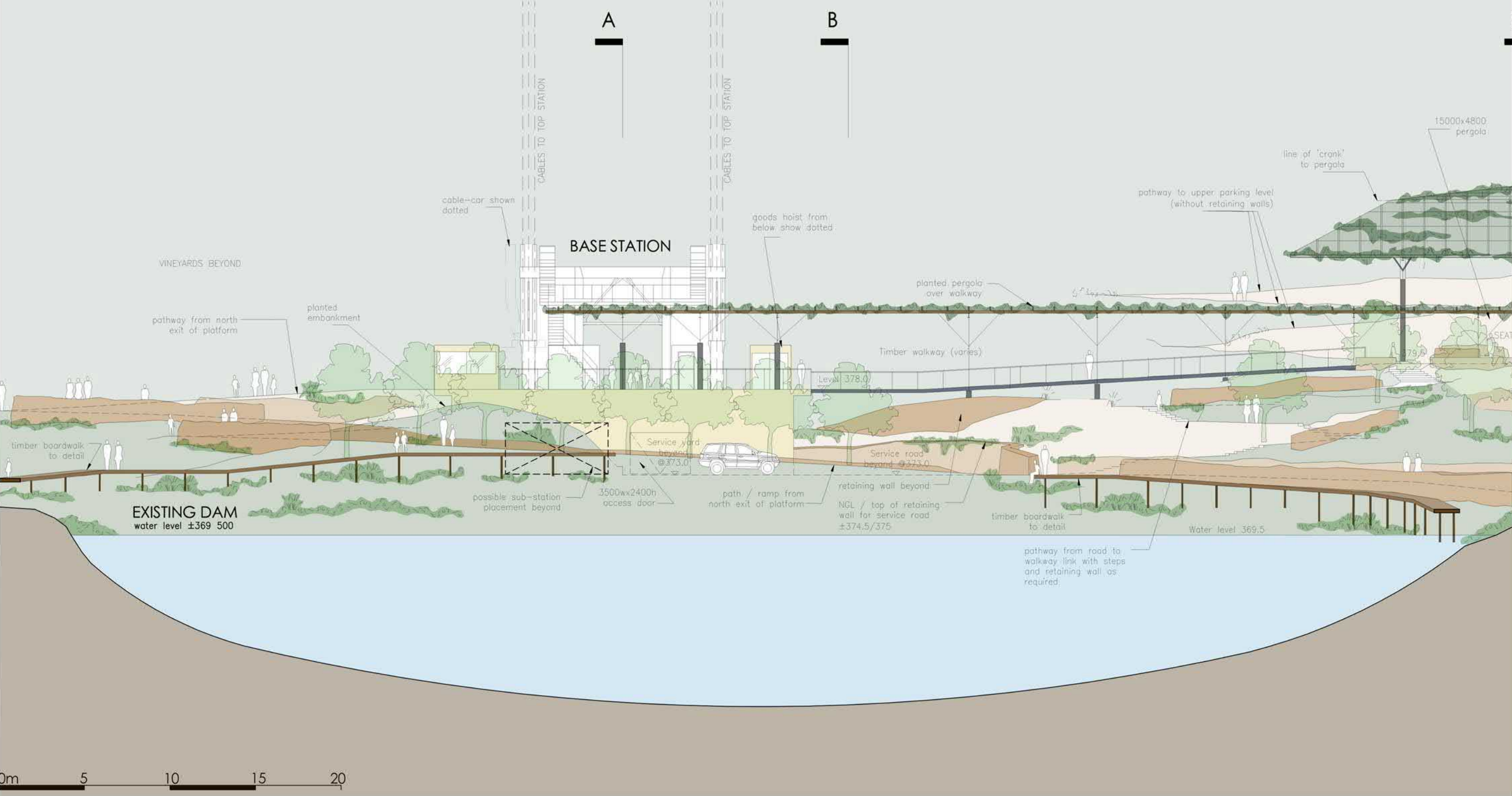
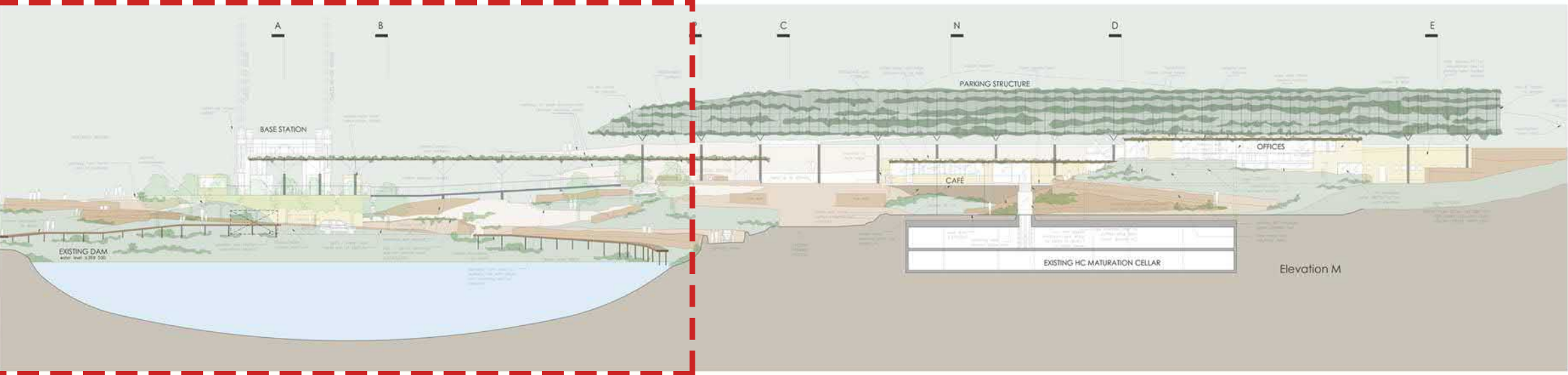
Project Blue Sky
Franschhoek
Client : FCC (Pty) Ltd

Lower Station Section N

Scale
To scale bar

Job No. 736519	Drawing No. 202.1	Revision 06
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LOWER STATION - ELEVATION M



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Client : FCC (Pty) Ltd

Lower Station Elevation M

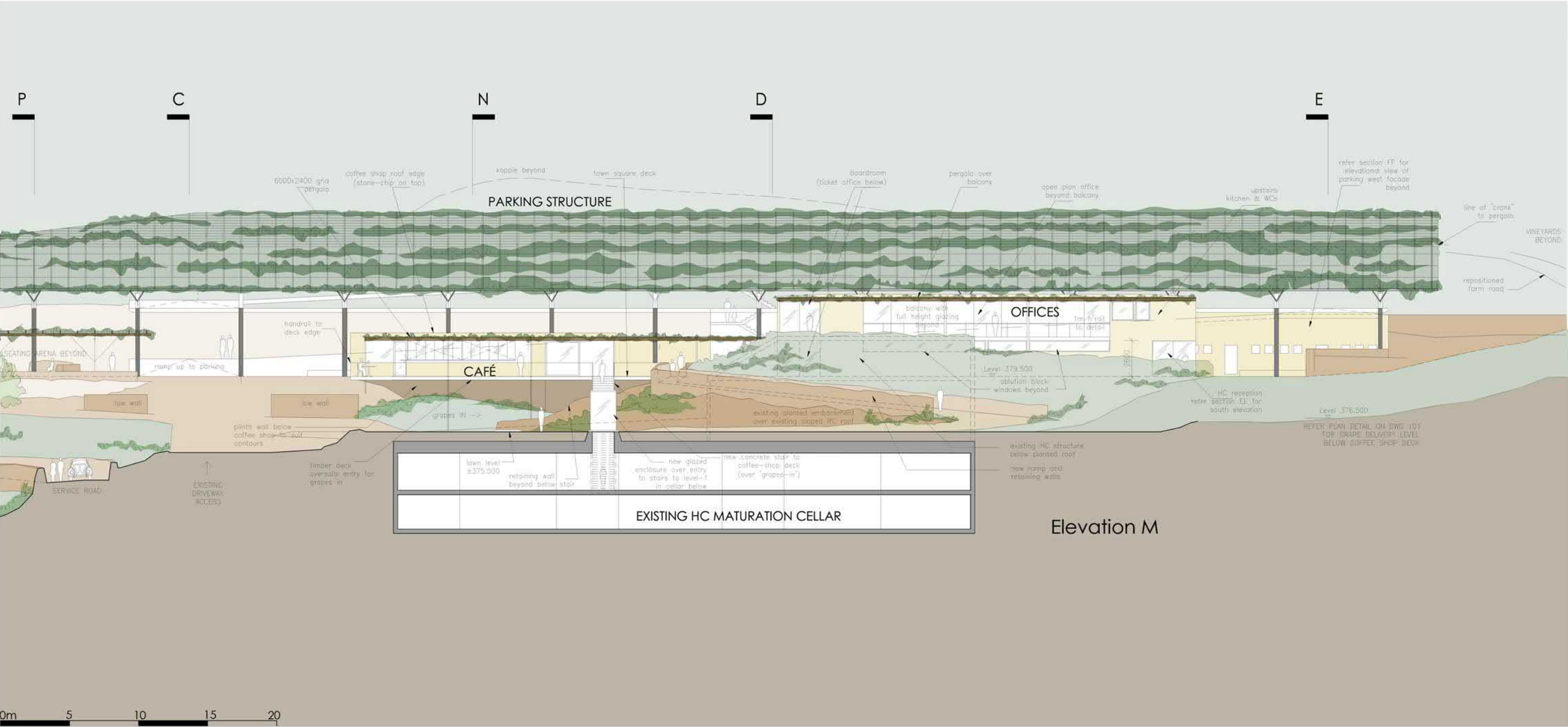
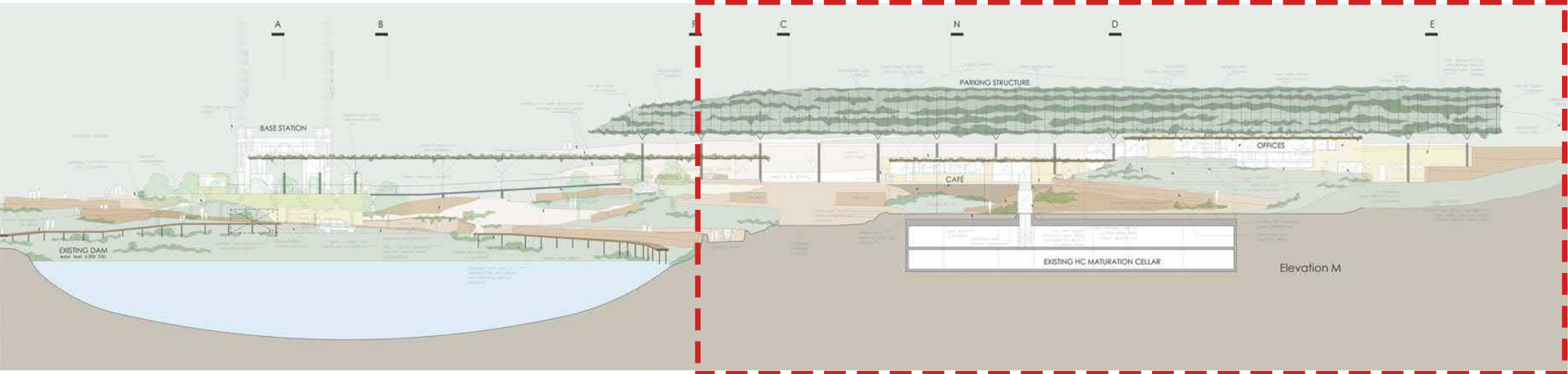
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To scale bar

Job No.
736519

Drawing No.
200.3

Revision
06

LOWER STATION - ELEVATION M



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Client : FCC (Pty) Ltd

Lower Station Elevation M

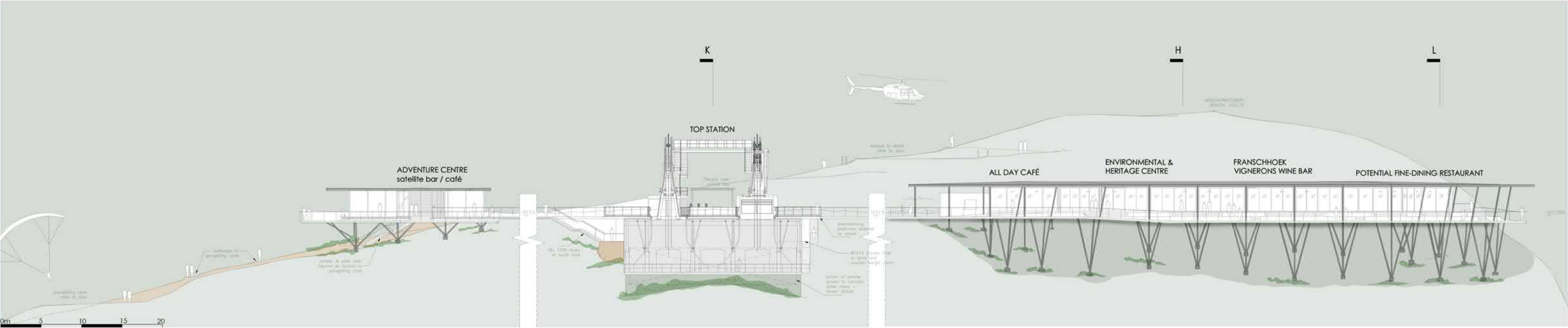
Scale
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736519

Drawing No.
200.3

Revision
06

UPPER STATION - ELEVATION G



MTA / V D M M A

Project Blue Sky

Franschhoek

Client : FCC (Pty) Ltd

Upper Station Elevation G

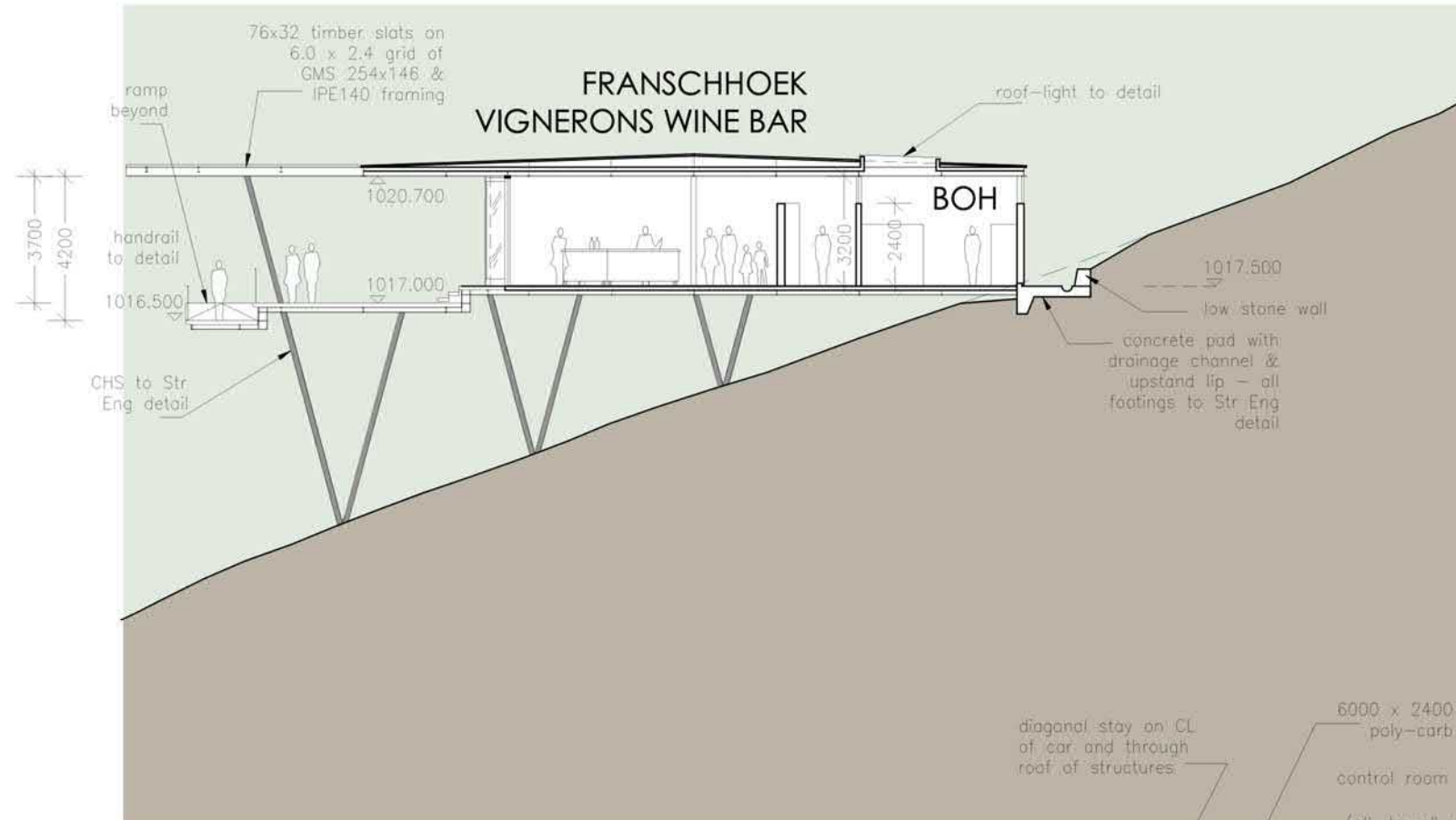
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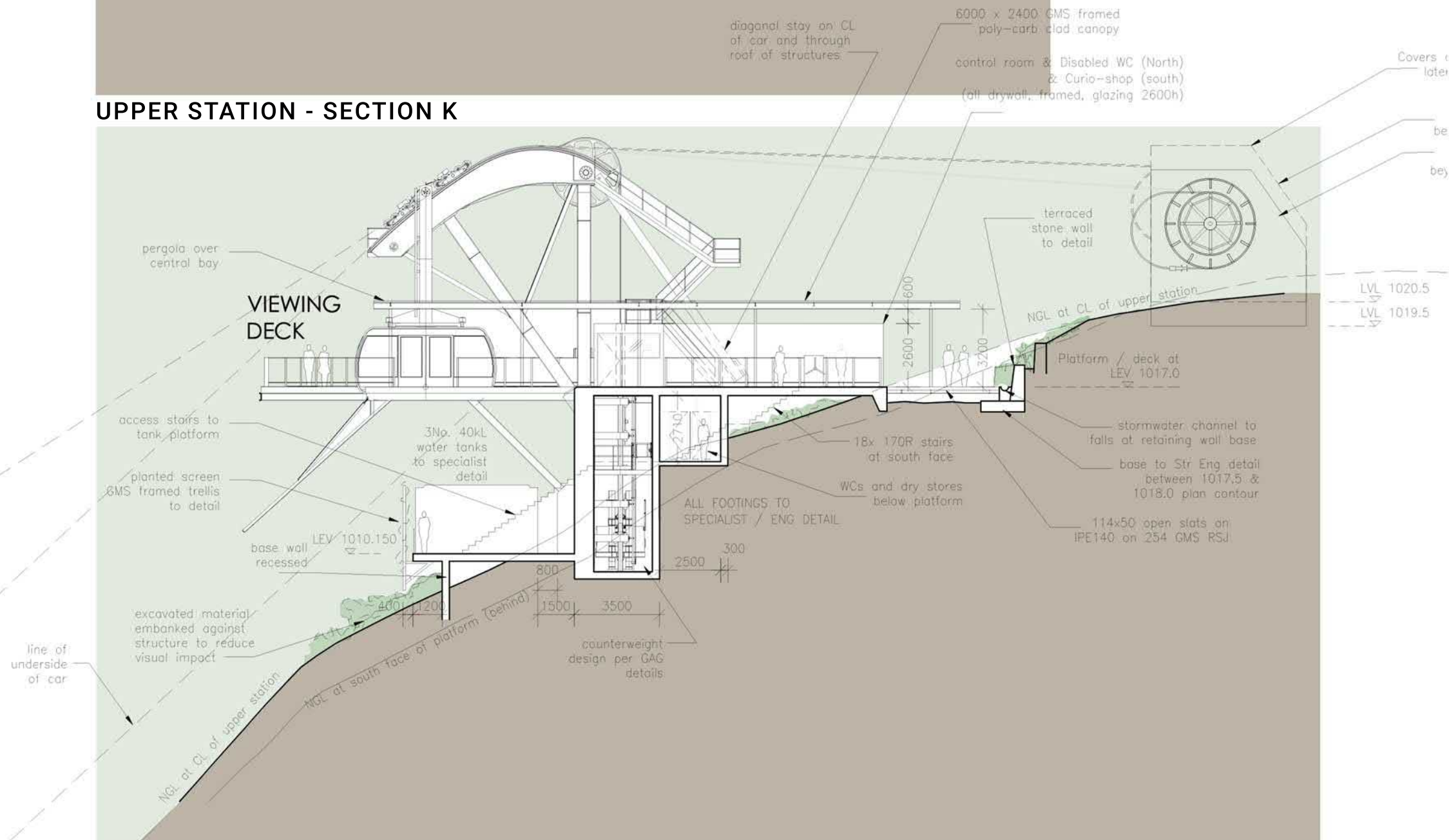
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204.3

Revision
06

UPPER STATION - SECTION H



UPPER STATION - SECTION K



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Client : FCC (Pty) Ltd

Upper Station Section K & H

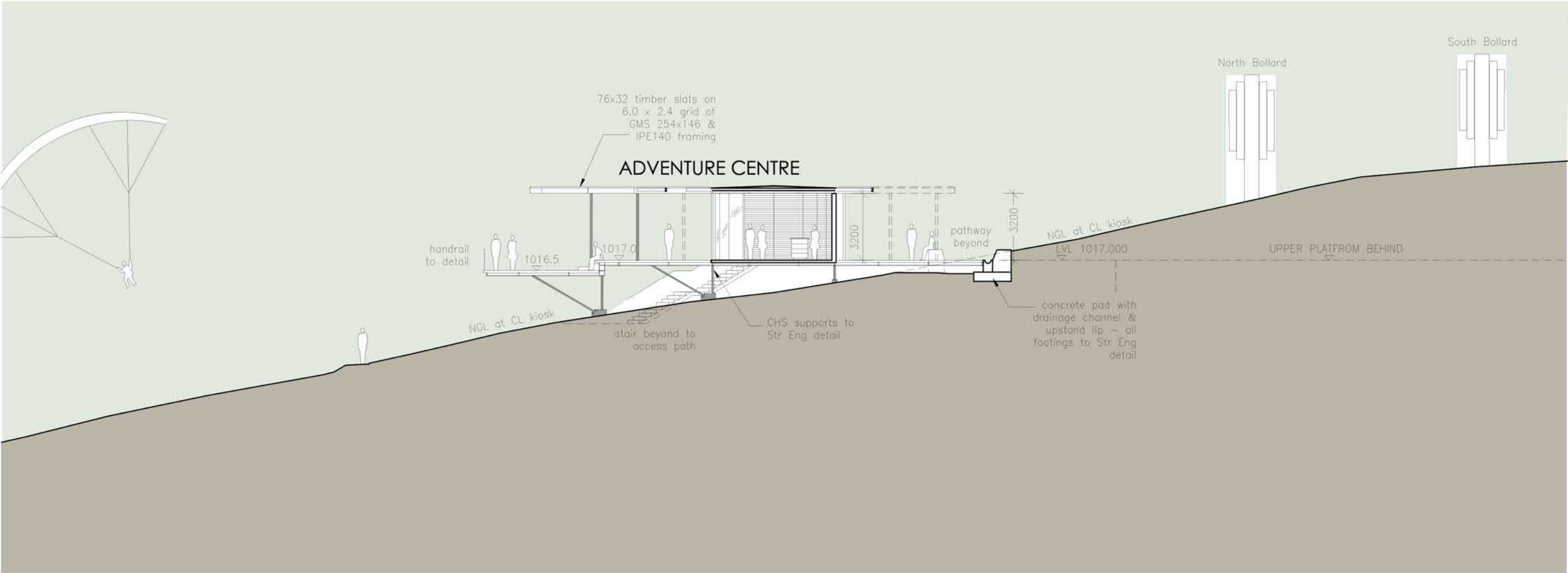
Scale
1:200 / A3

Job No.
736519

Drawing No.
203.2

Revision
06

UPPER STATION - SECTION J



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Project Blue Sky

Franschhoek

Client : FCC (Pty) Ltd

Upper Station Section J

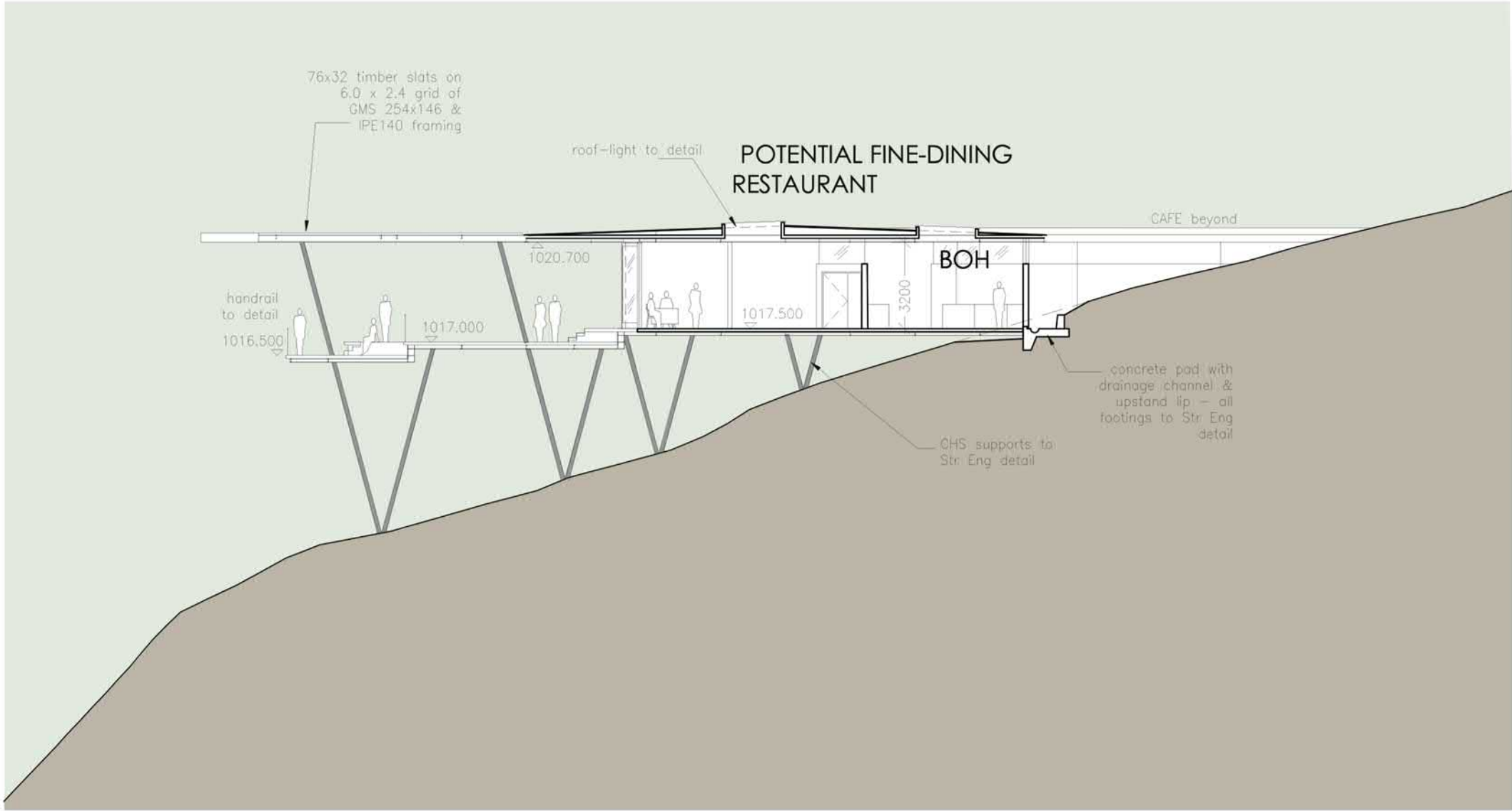
Scale
1:200 / A3

Job No.
736519

Drawing No.
204.1

Revision
06

UPPER STATION - SECTION L



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Project Blue Sky

Franschhoek

Client : FCC (Pty) Ltd

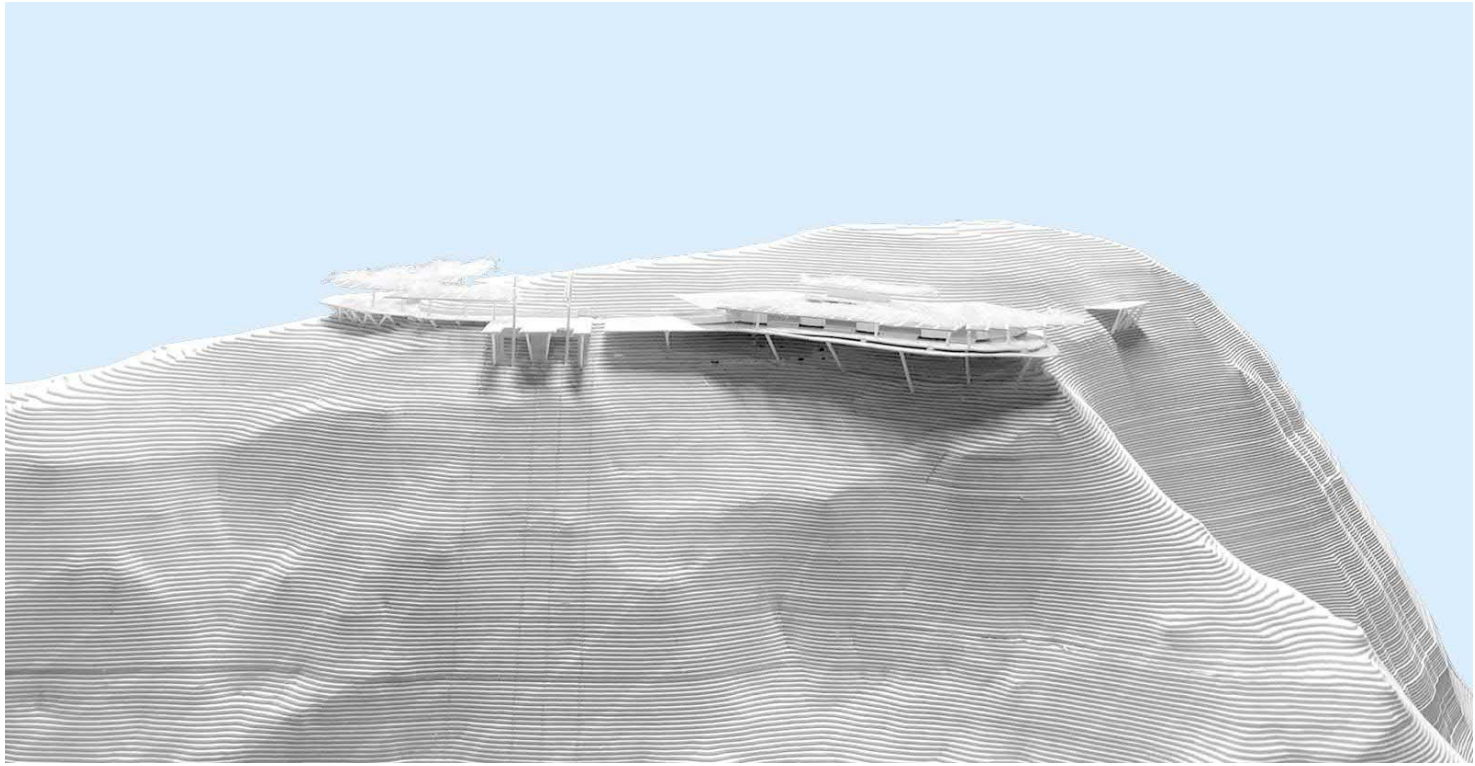
Upper Station Section L

Scale
1:200 / A3

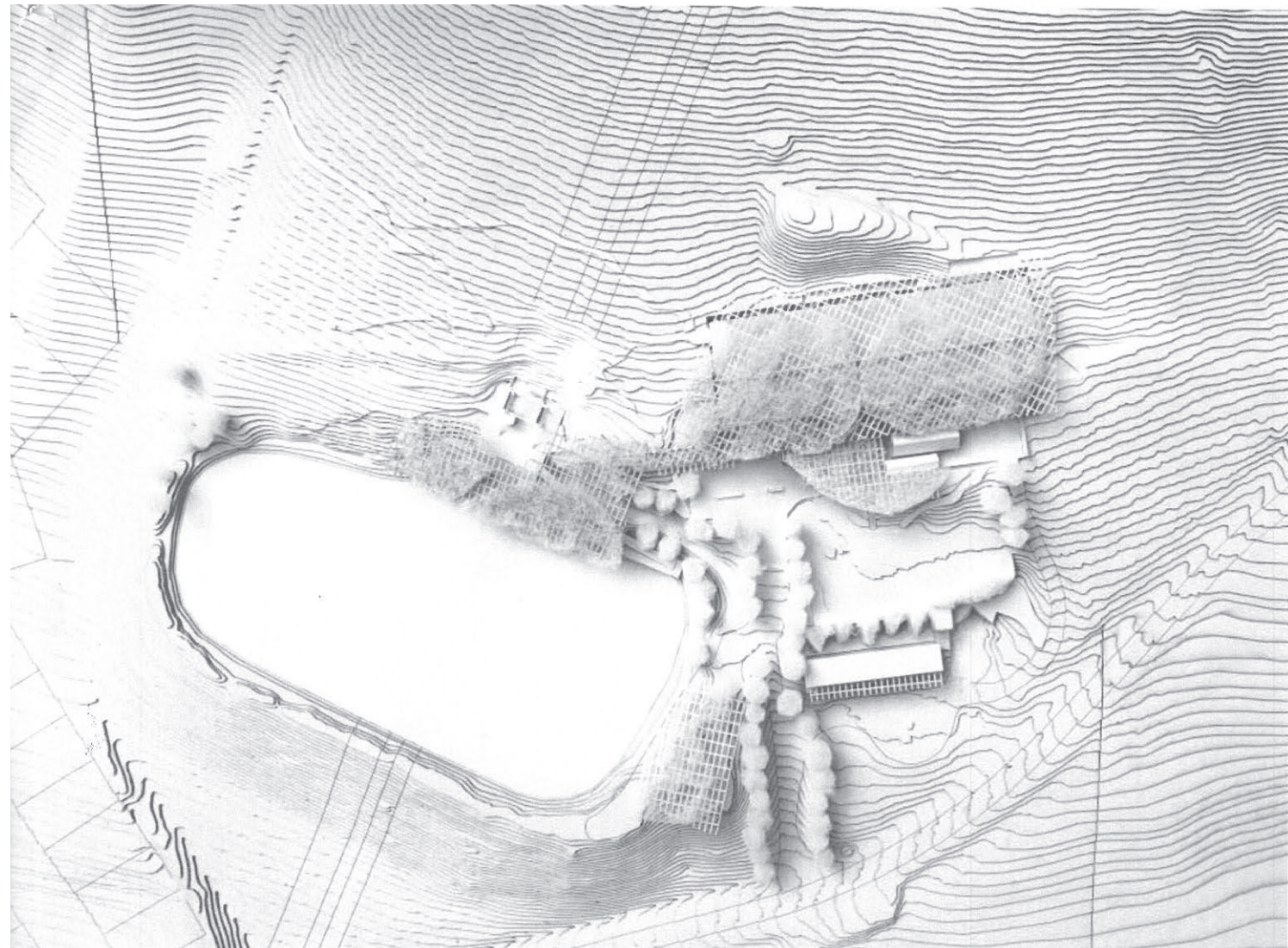
Job No.
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Drawing No.
204.2

Revision
06



Upper Station



Base Station

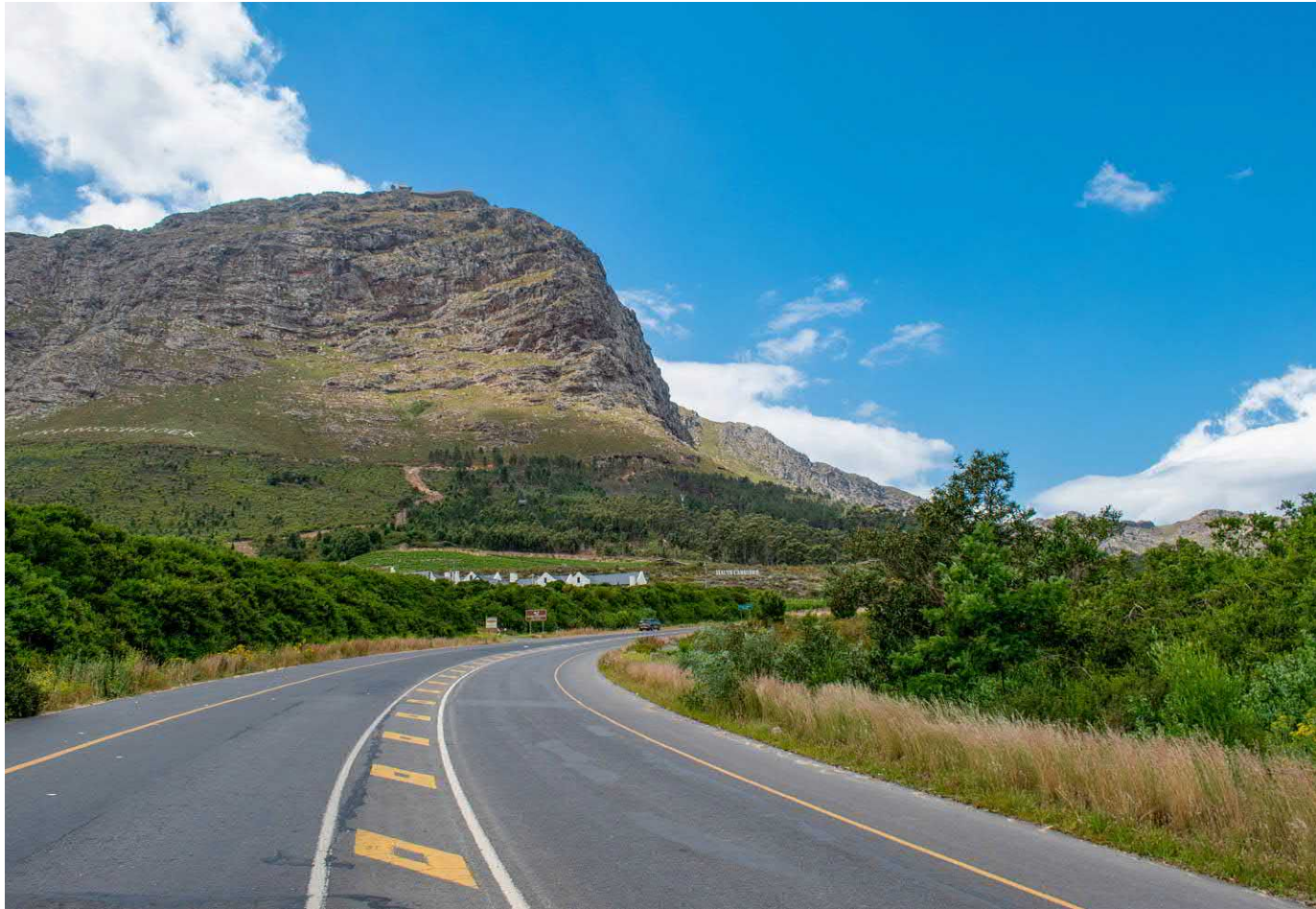
MTA / V D M M A

Project Blue Sky

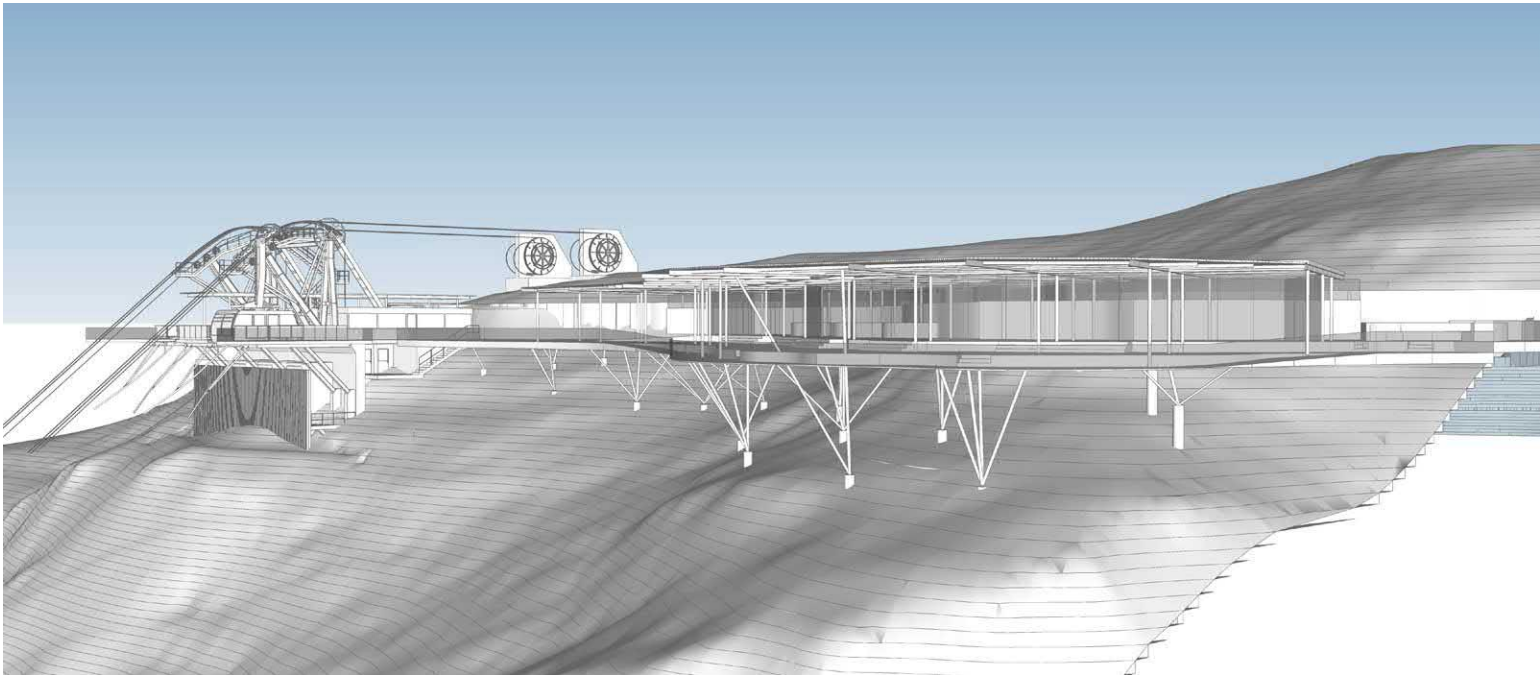
Franschhoek

Client : FCC (Pty) Ltd

Model Photographs



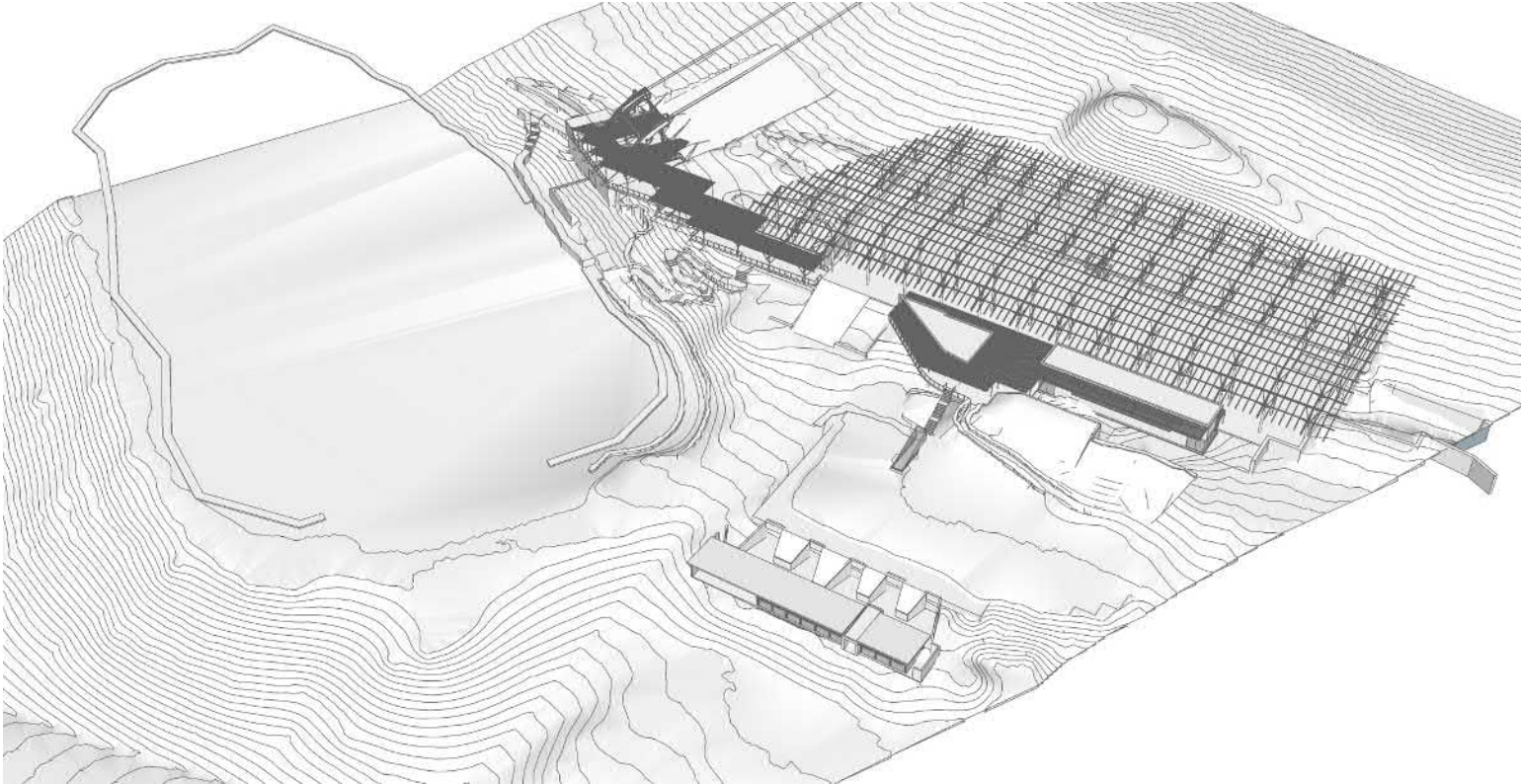
Upper Station Render



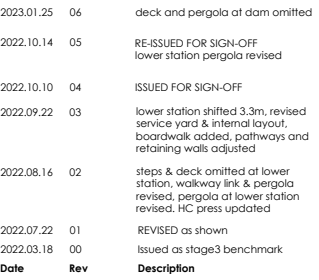
Upper Station Sketchup View



Base Station Render



Base Station Sketchup View



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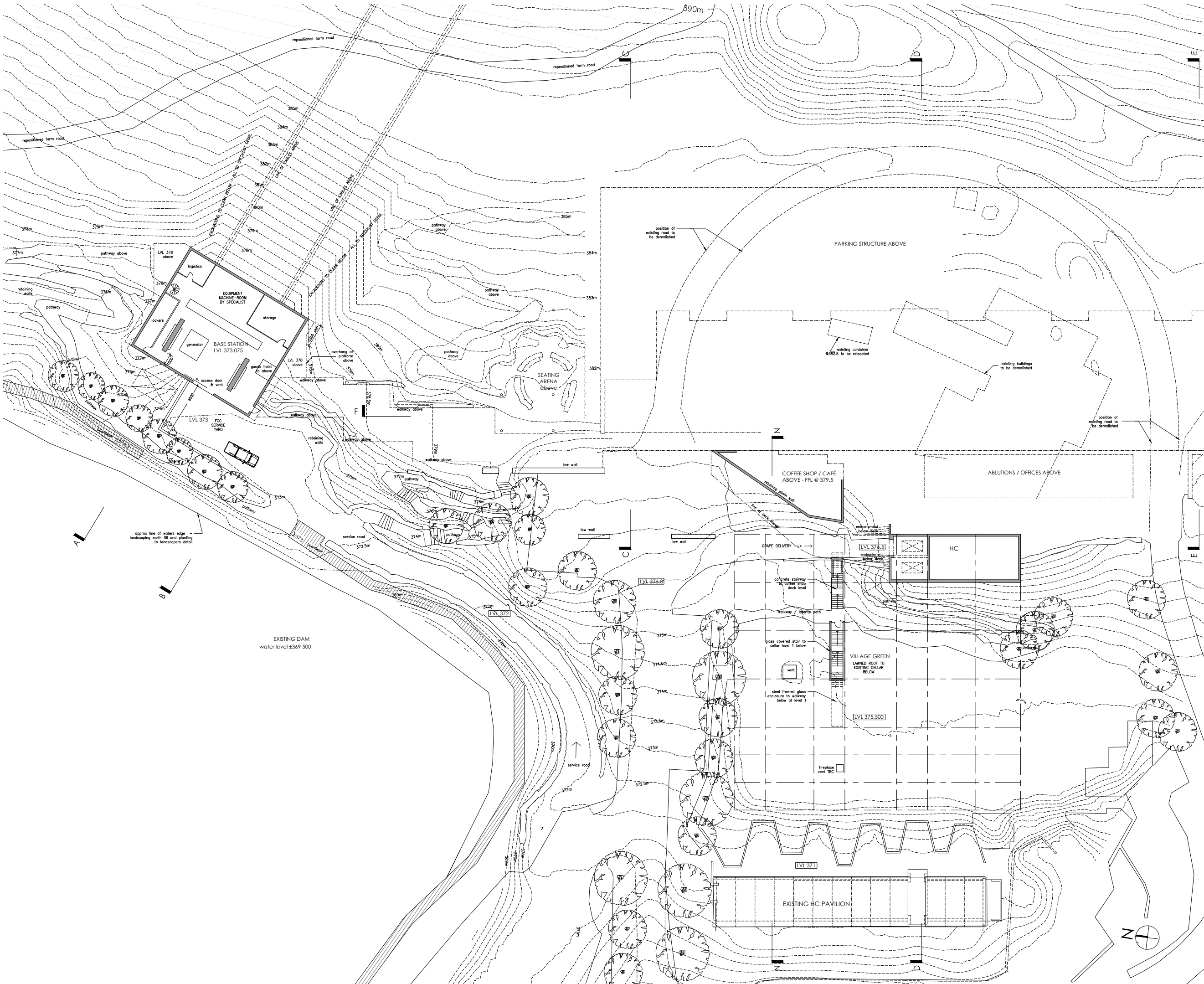
overall lower station site plan

Scale
1:500 / A1

Job No.
736519

Drawing No.
100

Revision
06



2023.01.25	07	deck and pergola at dam omitted
2022.10.14	06	RE-ISSUED FOR SIGN-OFF
2022.10.10	05	ISSUED FOR SIGN-OFF
2022.09.22	04	lower station shifted 3.3m; revised service yard & internal layout; boardwalk added; pathways and retaining walls adjusted
2022.08.16	03	intermediate plan added at grape delivery level; steps & deck omitted at lower station; walkway link & pergola revised; pergola at lower station revised
2022.06.22	02	REVISED as shown
2022.05.10	01	REVISED
2022.03.18	00	Issued as stage3 benchmark
Date	Rev	Description

STAGE 3

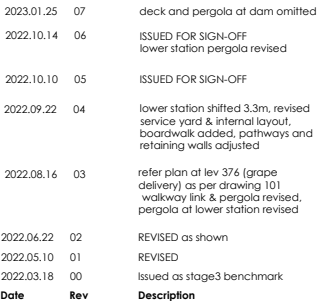
MTA / VDMMA

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Franschhoek
Client : FCC (Pty) Ltd

base station - lower plan
machine room & grapes-in level

Scale
1:250 / A1

Job No. 736519
Drawing No. 101
Revision 07



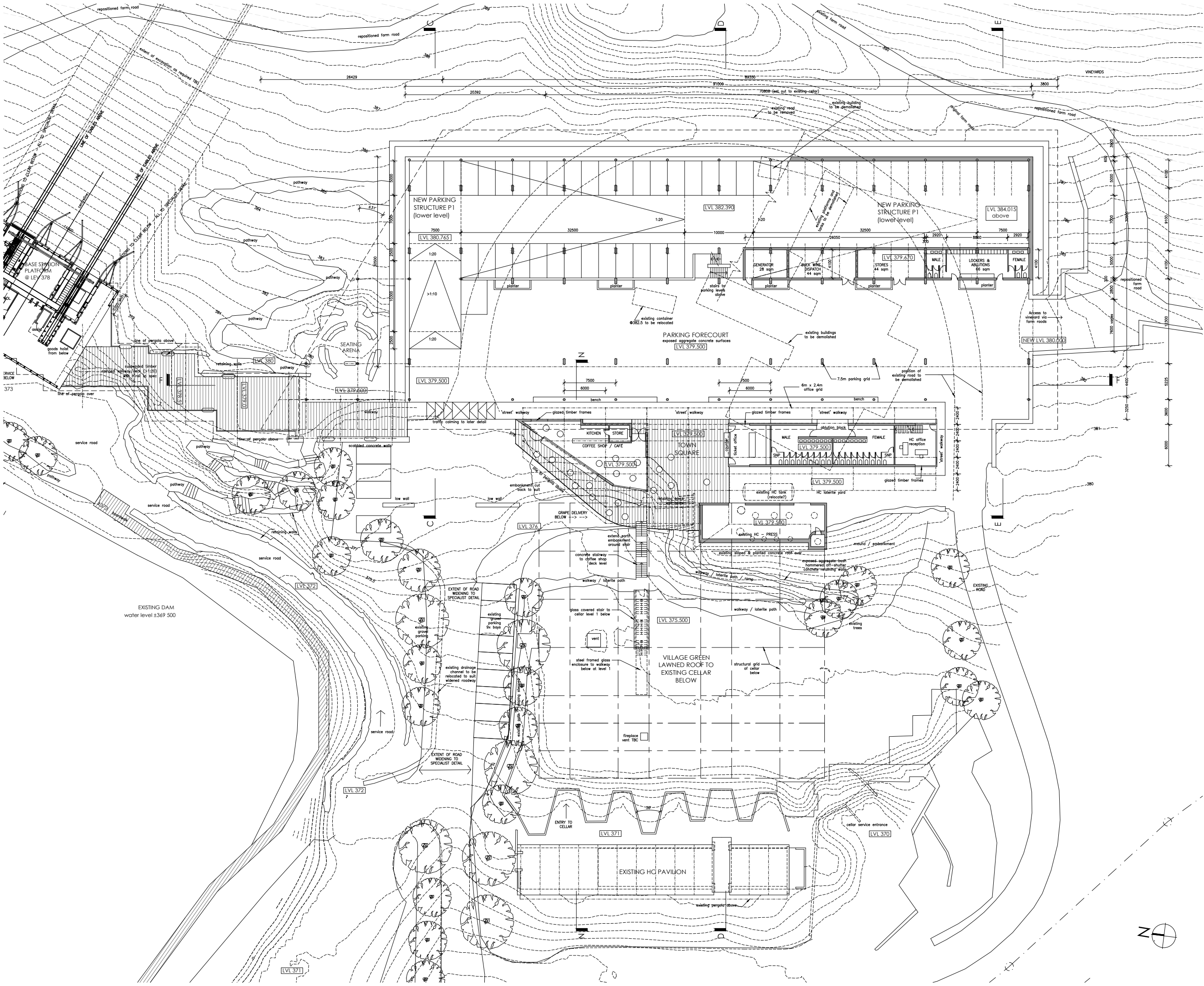
M T A / V D M M A

base station
platform level plan

Scale
1:250 / A1

Job No. Drawing No. Revision

736519 **102** 07



2023.01.25	07	deck and pergola at dam omitted
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2022.10.10	05	ISSUED FOR SIGN-OFF
2022.09.22	04	lower station shifted 3.3m, revised service yard & internal layout, boardwalk added, pathways and retaining walls adjusted
2022.08.16	03	refer plan of lev 376 (grape delivery) as per drawing 101 walkway link & pergola revised, pergola at lower station revised
2022.06.22	02	REVISED as shown
2022.05.10	01	REVISED
2022.03.18	00	Issued as stage3 benchmark
Date	Rev	Description

STAGE 3

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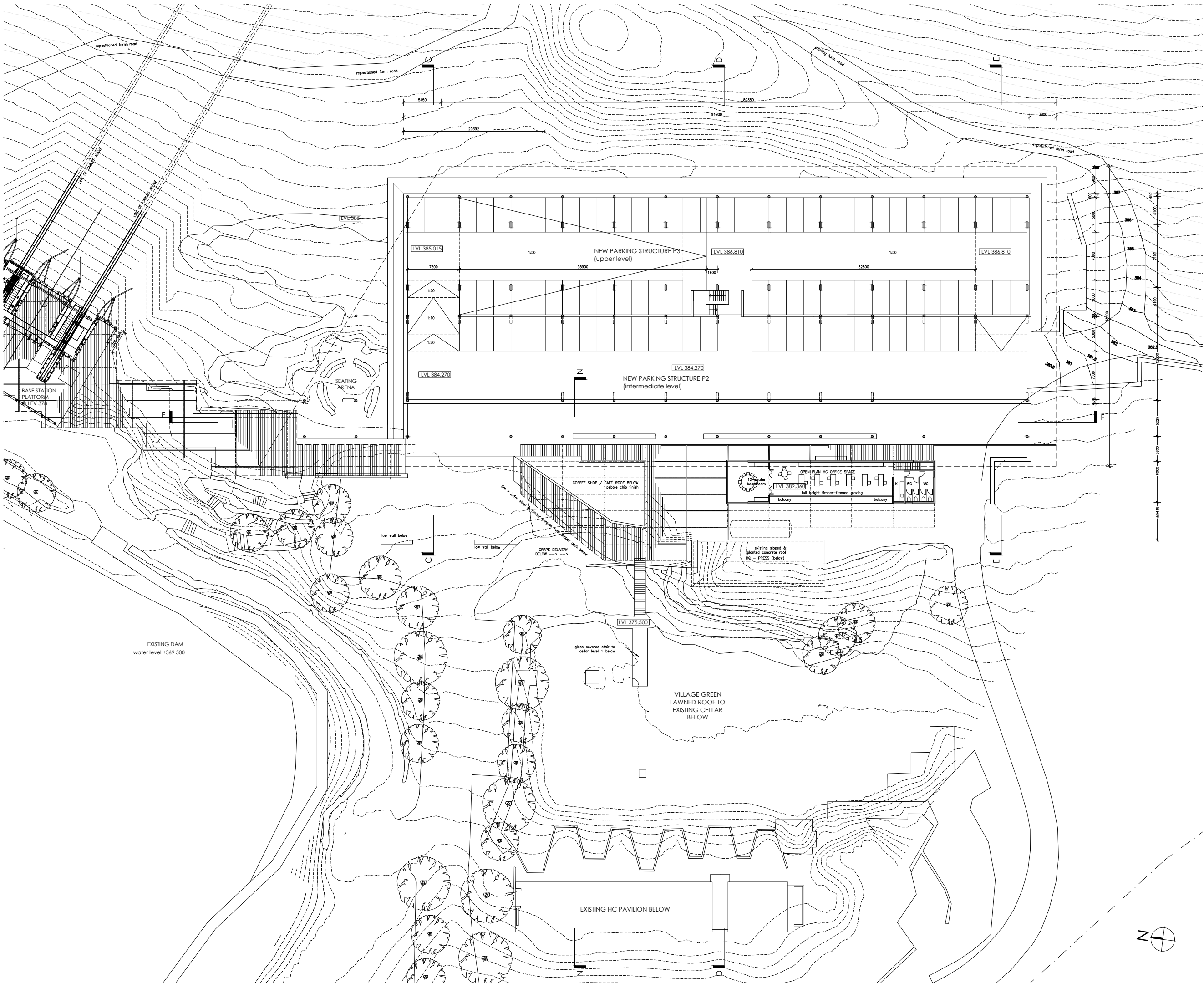
base station
lower parking & coffee shop plan

Scale
1:250 / A1

Job No.
736519

Drawing No.
103

Revision
07



2023.01.25	07	deck and pergola at dam omitted
2022.10.14	06	RE-ISSUED FOR SIGN-OFF lower station pergola revised
2022.10.10	05	ISSUED FOR SIGN-OFF
2022.09.22	04	lower station shifted 3.3m, revised service yard & internal layout, boardwalk added, pathways and retaining walls adjusted
2022.08.16	03	Pergola over walkway link revised, pergola over lower station omitted, HC press updated
2022.06.22	02	REVISED as shown
2022.05.10	01	REVISED
2022.03.18	00	Issued as stage3 benchmark
Date	Rev	Description

STAGE 3

MTA / VDMMA

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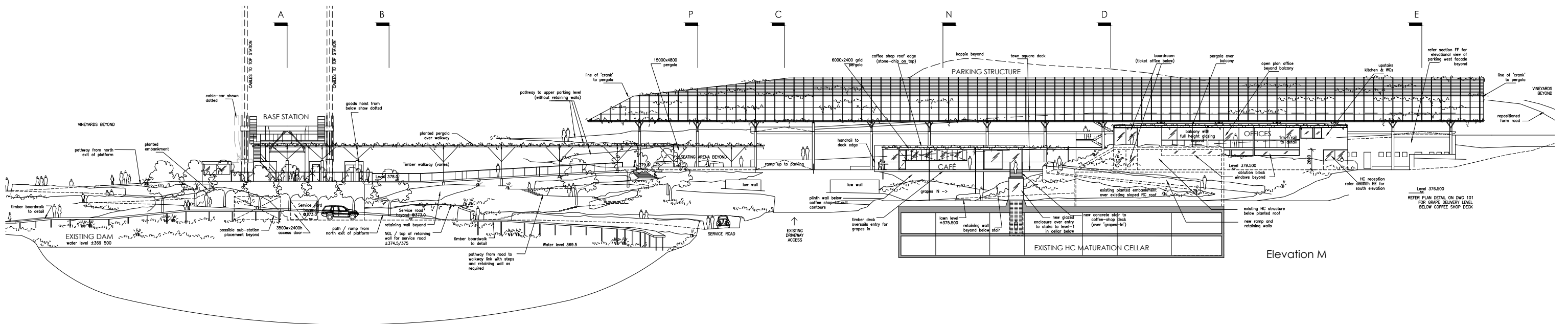
base station
upper parking & office plan

Scale
1:250 / A1

Job No.
736519

Drawing No.
104

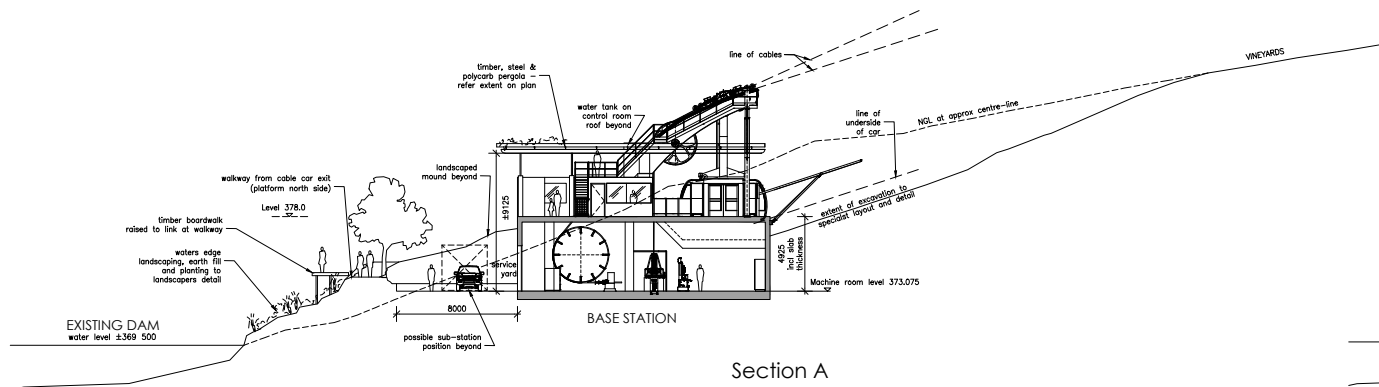
Revision
07



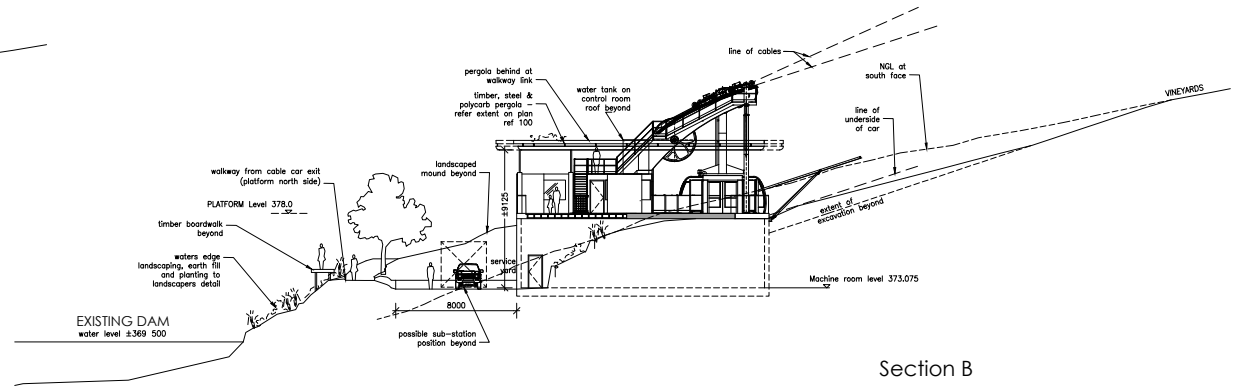
Elevation M

2022.10.14	06	RE-ISSUED FOR SIGN-OFF base station pergola revised
2022.10.10	05	ISSUED FOR SIGN-OFF
2022.09.22	04	lower station shifted 3.3m, revised service yard, internal layout, boardwalk added, pathways and retaining walls adjusted.
2022.08.18	03	steps & deck omitted at lower station, walkway link & pergola revised, pergola at lower station revised - Elev M added
2022.06.22	02	REVISED as shown
2022.05.10	01	REVISED
2022.03.18	00	Issued as stage3 benchmark
Date	Rev	Description

STAGE 3



Section A



Section B

MTA / VDMMA

Project Blue Sky

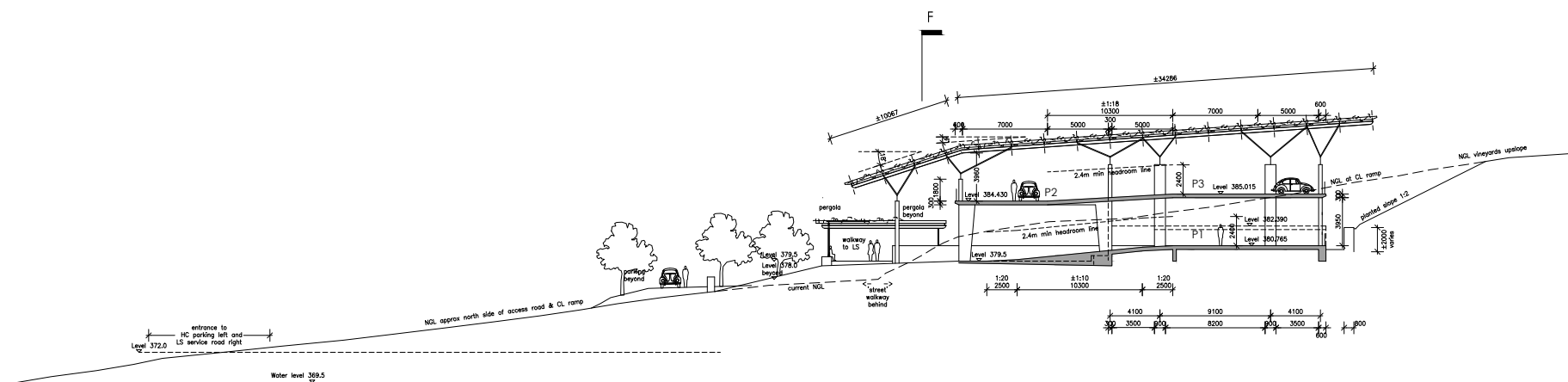
Franschhoek

Client : FCC (Pty) Ltd

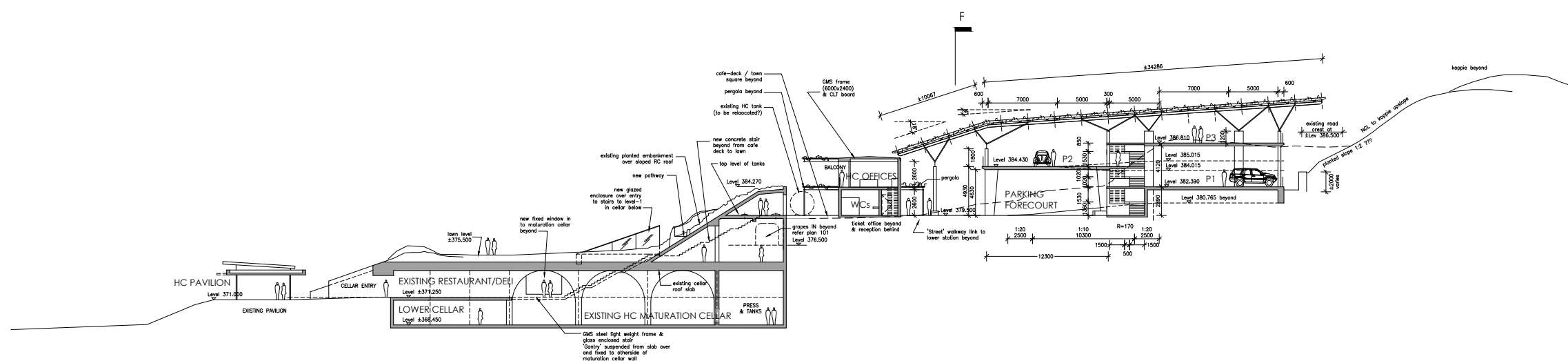
lower station Sections A & B
Elevation M

Scale
1:250 / A1

Job No. 736519 Drawing No. 200 Revision 06



Section C



Section D

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2022.10.10	03	ISSUED FOR SIGN-OFF
2022.06.22	02	REVISED as shown
2022.05.10	01	REVISED
2022.03.18	00	Issued as stage3 benchmark
Date	Rev	Description

STAGE 3

MTA / V D M M A

Project Blue Sky

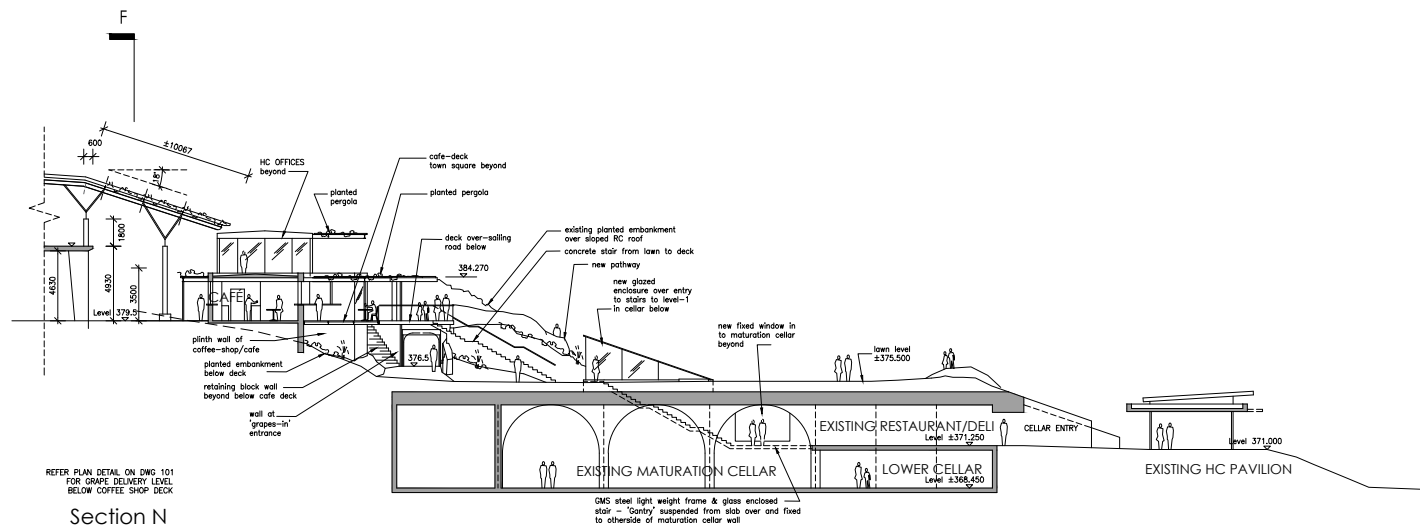
Franschhoek

Client : FCC (Pty) Ltd

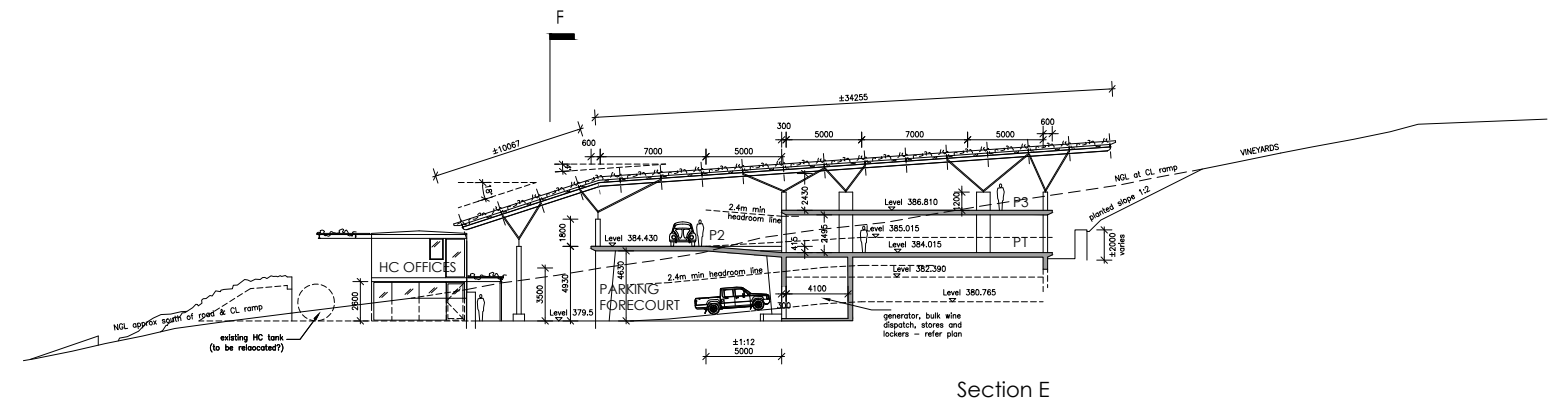
lower station sections - parking
Section C & Section D

Scale
1:250 / A1

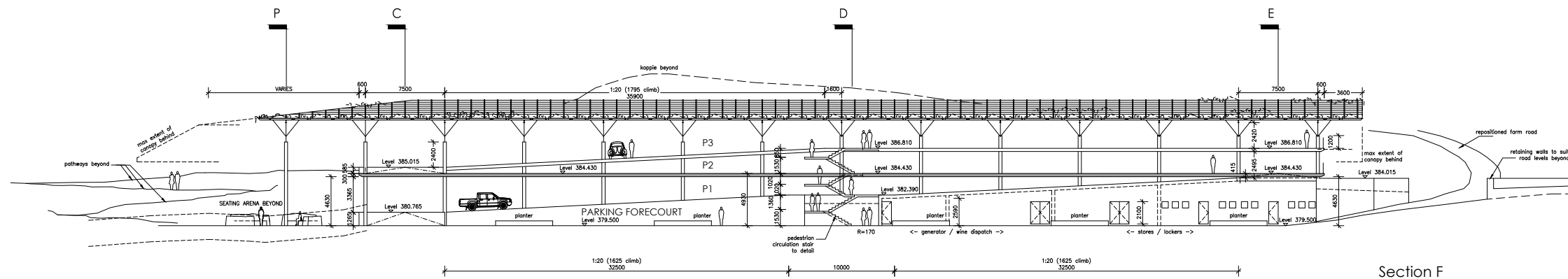
Job No. 736519 Drawing No. 201 Revision 04



Section N



Section E



Section F

2022.10.14	05	RE-ISSUED FOR SIGN-OFF
2022.10.10	04	ISSUED FOR SIGN-OFF
2022.06.22	03	section NN added through grape delivery entrance
2022.06.22	02	REVISED as shown
2022.05.10	01	REVISED
2022.03.18	00	Issued as stage3 benchmark
Date	Rev	Description

STAGE 3

MTA / V D M M A

Project Blue Sky

Franschoek

Client : FCC (Pty) Ltd

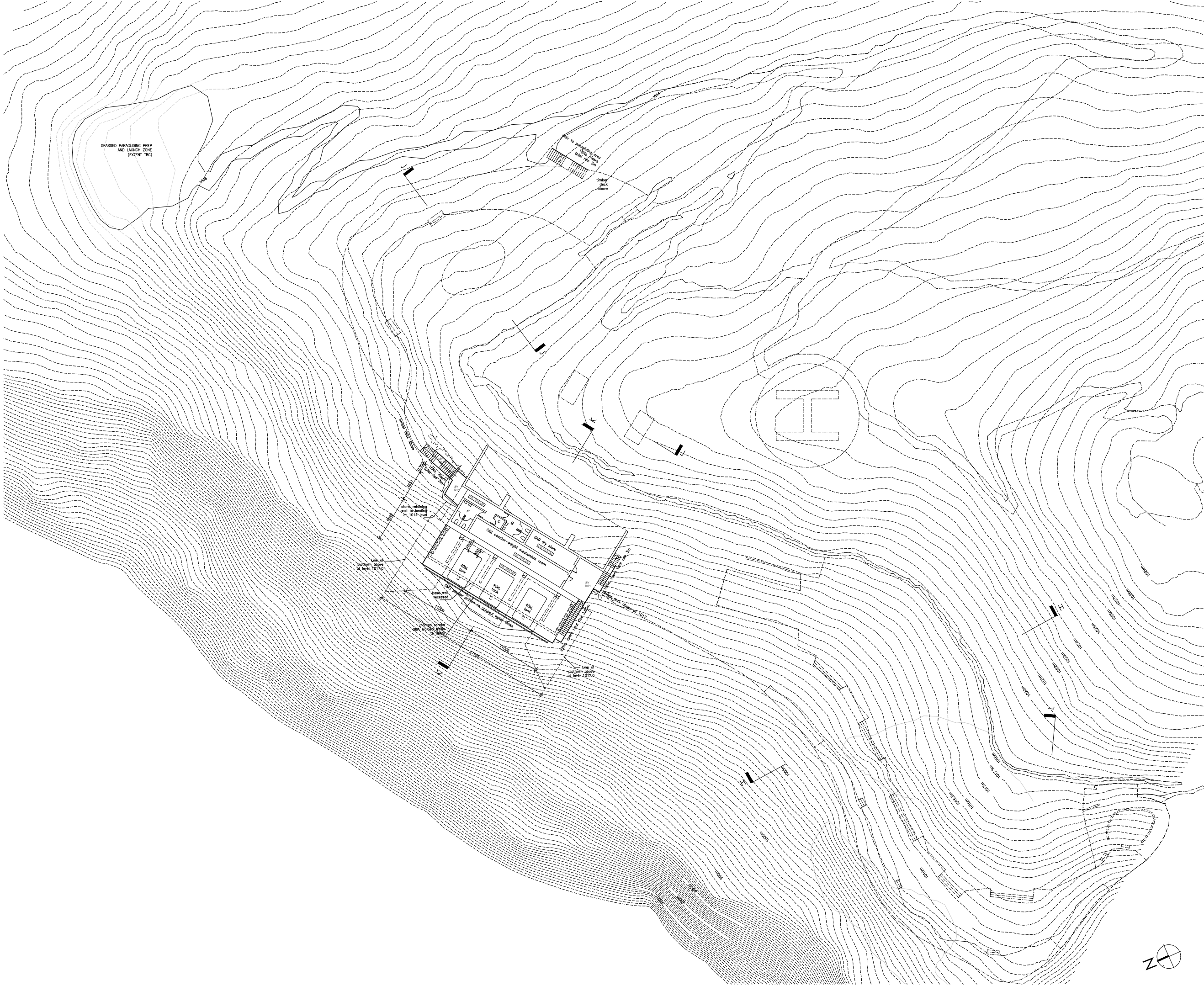
lower station sections Sections E, F & N

Scale
1:250 / A1

Job No.
736519

Drawing No.
202

Revision
05



2023.01.25	07	Upper station reverted to layout as per 1017 level
2022.10.14	06	RE-ISSUED FOR SIGN-OFF water tank platform and pergola at top station revised
2022.10.10	05	ISSUED FOR SIGN-OFF
2022.09.20	04	Complete revision - platform shifted 20m and dropped 10m Alternative Helipad position TBC
2022.08.16	03	Helipad & paraglider access added
2022.06.22	02	REVISED as shown
2022.05.10	01	REVISED
2022.03.18	00	Issued as stage3 benchmark
Date	Rev	Description

STAGE 3



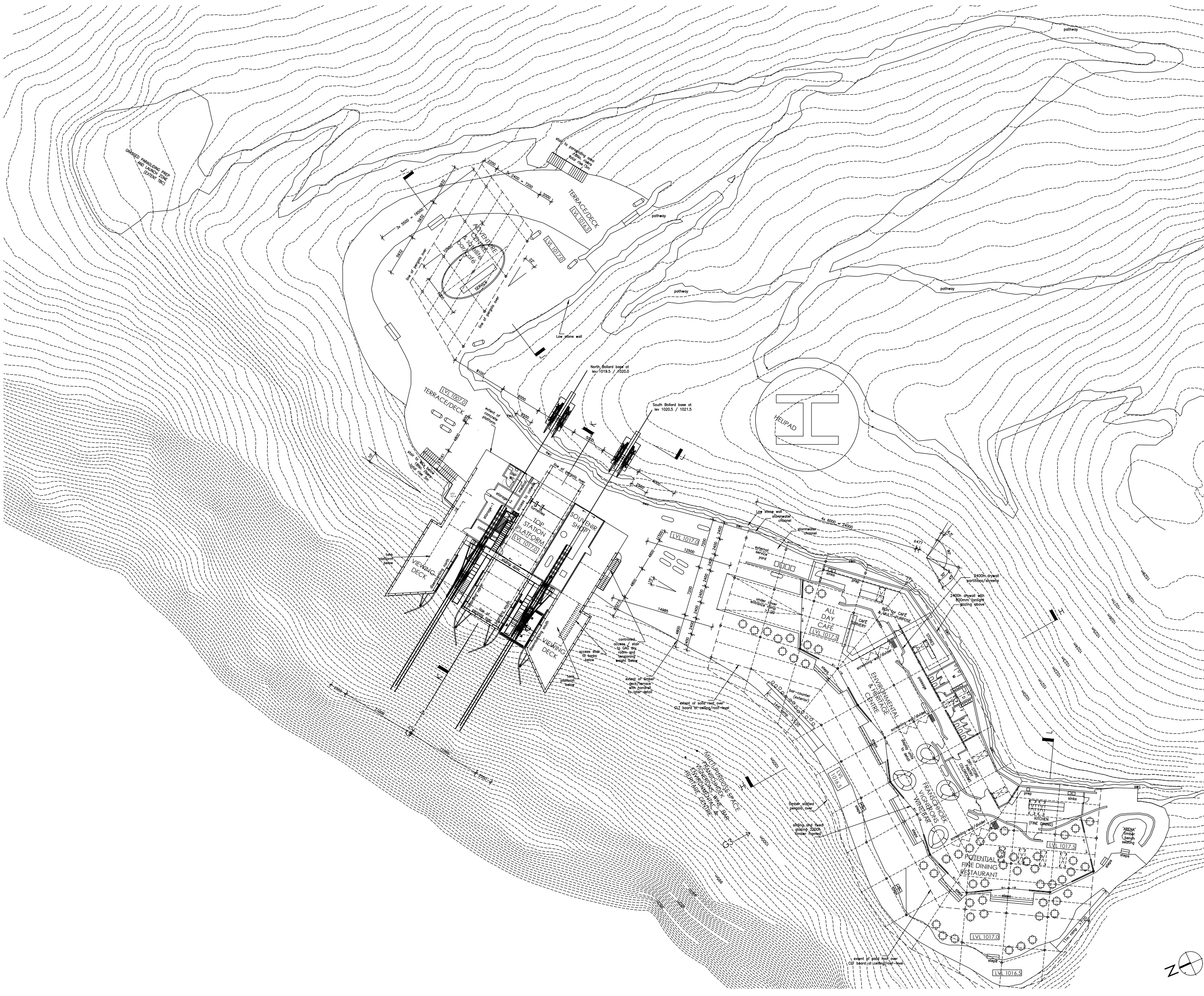
MTA / VDMMA

Project Blue Sky
Franschoek
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top station - lower plan
water tank / ablutions level

Scale
1:250 / A1
Job No.
736519
Drawing No.
106
Revision
07





2023.01.25	07	Upper station reverted to 1017 level
2022.10.14	06	RE-ISSUED FOR SIGN-OFF water tank platform and pergola at top station revised
2022.10.10	05	ISSUED FOR SIGN-OFF
2022.09.20	04	Complete revision - platform shifted 20m and dropped 10m Alternative Helipad position TBC
2022.06.22	03	Helipad & paraglider access added platform viewing decks widened
2022.06.22	02	REVISED as shown
2022.05.10	01	REVISED
2022.03.18	00	Issued as stage3 benchmark
Date	Rev	Description

STAGE 3

MTA / VDMMA

Project Blue Sky
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Client : FCC (Pty) Ltd

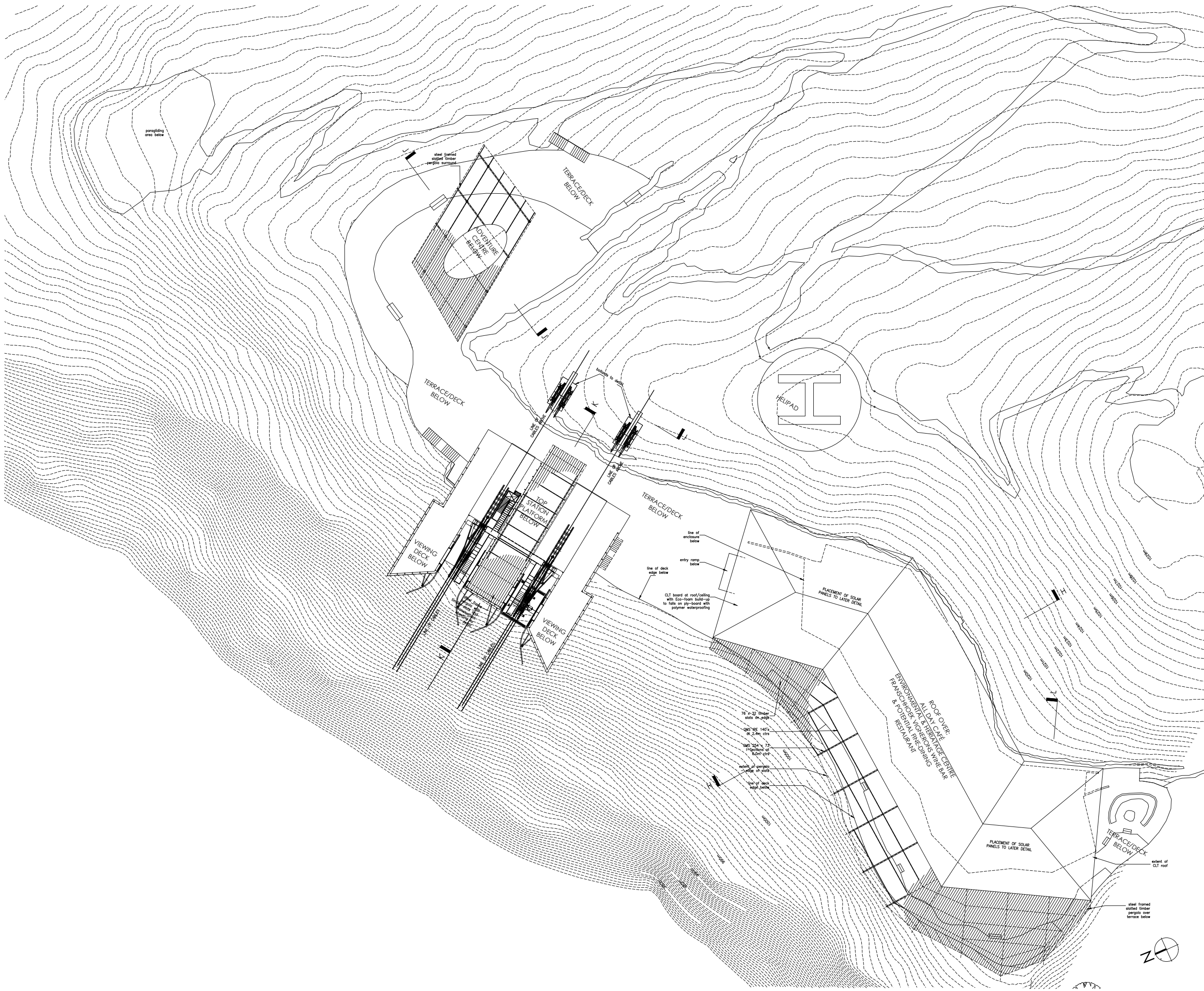
top station
platform level plan

Scale
1:250 / A1

Job No.
736519

Drawing No.
107

Revision
07



2023.01.25	05	Top station reverted to 1017 level roof top terrace omitted
2022.10.14	04	RE-ISSUED FOR SIGN-OFF water tank platform and pergola at top station revised
2022.10.10	03	ISSUED FOR SIGN-OFF
2022.09.20	02	Complete revision - platform shifted 20m and dropped 10m Alternative Helipad position TBC
2022.08.16	01	Helipad & paraglider access added platform/viewing decks widened
2022.06.22	00	REVISED as shown
Date	Rev	Description

STAGE 3



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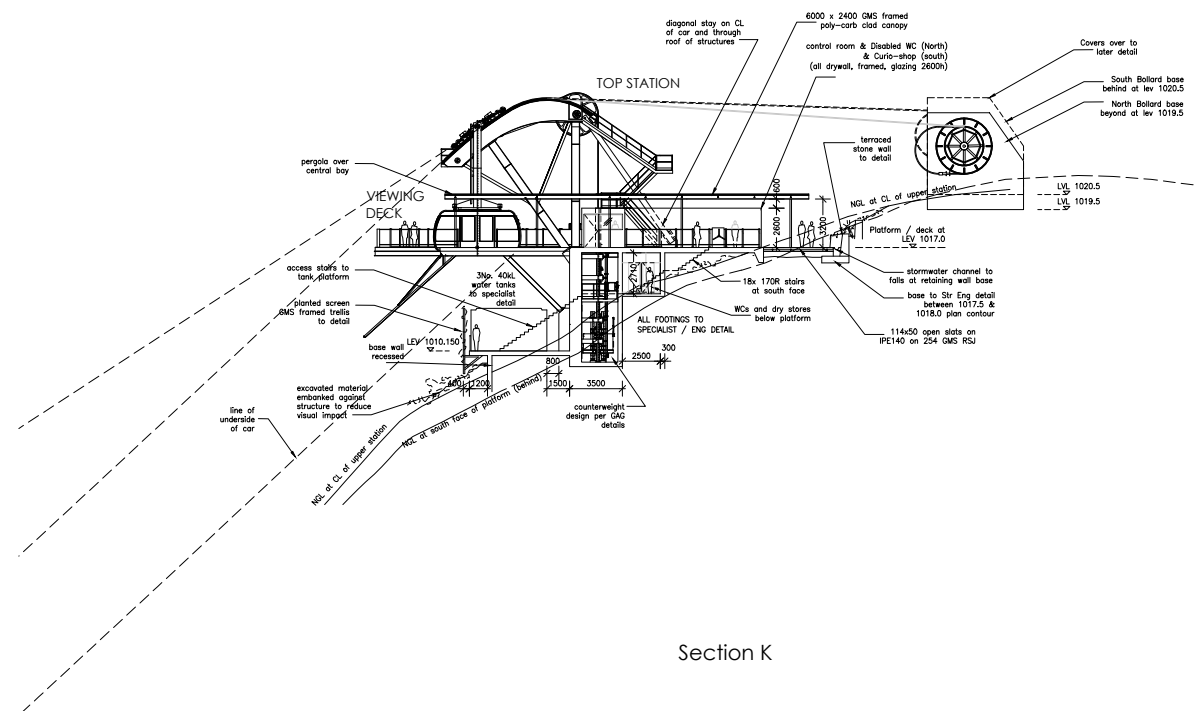
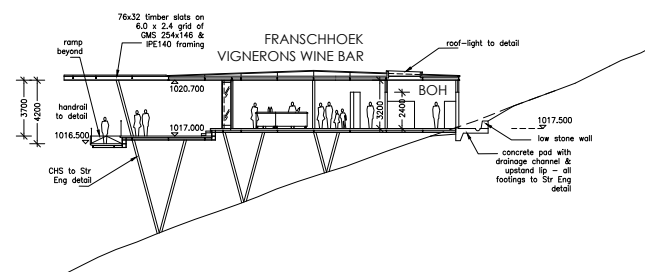
top station
roof plan

Scale
1:250 / A1

Job No.
736519

Drawing No.
108

Revision
05



2023.01.25	07	Upper station reverted to 1017 level - roof deck omitted
2022.10.14	06	RE-ISSUED FOR SIGN-OFF water tank platform and pergola at top station revised
2022.10.10	05	ISSUED FOR SIGN-OFF
2022.09.27	04	water tanks changed to vertical format
2022.09.20	03	Full revision - platform at LEV 1007, (upper station 20m forward & 10m lower) Sections H & K only
2022.08.16	02	Helipad added, viewing platforms widened access stair to paragliding added
2022.06.22	01	REVISED as shown
2022.03.18	00	Issued as stage3 benchmark
Date	Rev	Description

MTA / VDMMA

Project Blue Sky
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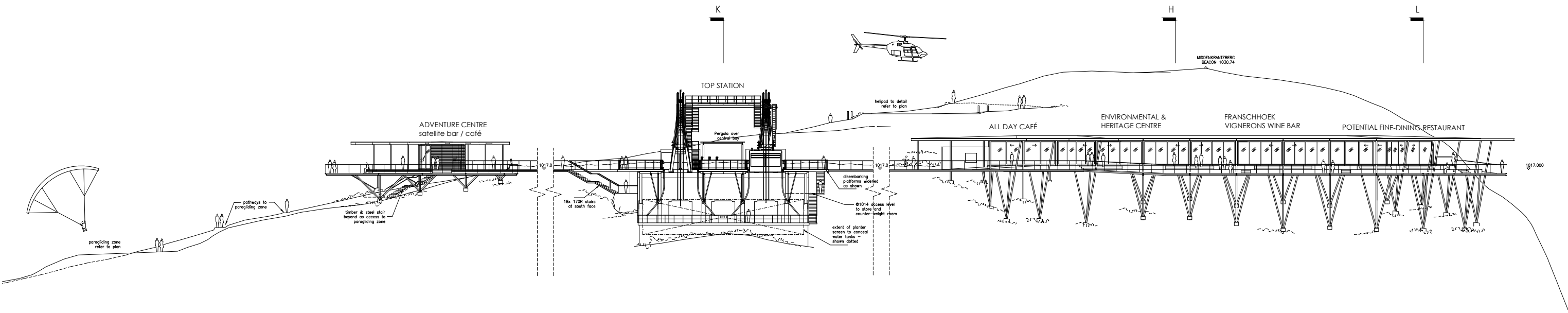
upper station sections
Sections H & K

Scale
1:250 / A1

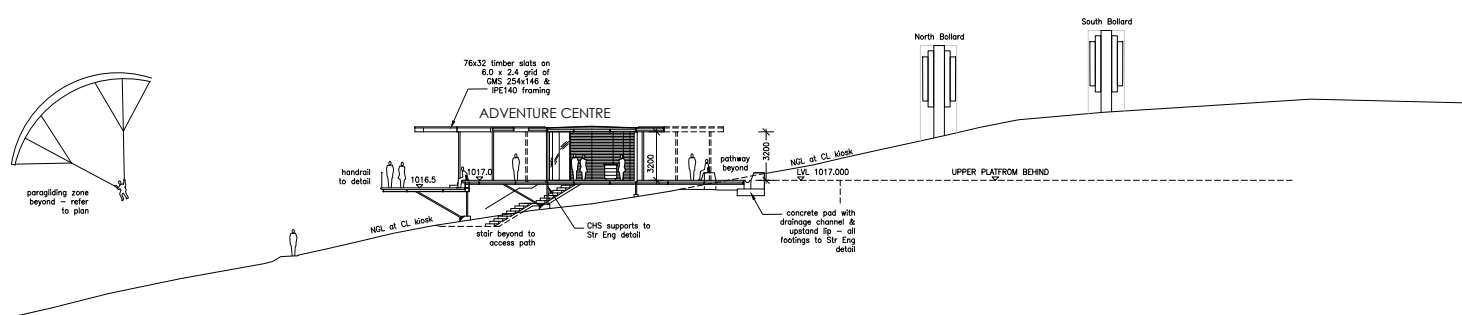
Job No. 736519

Drawing No. **203**

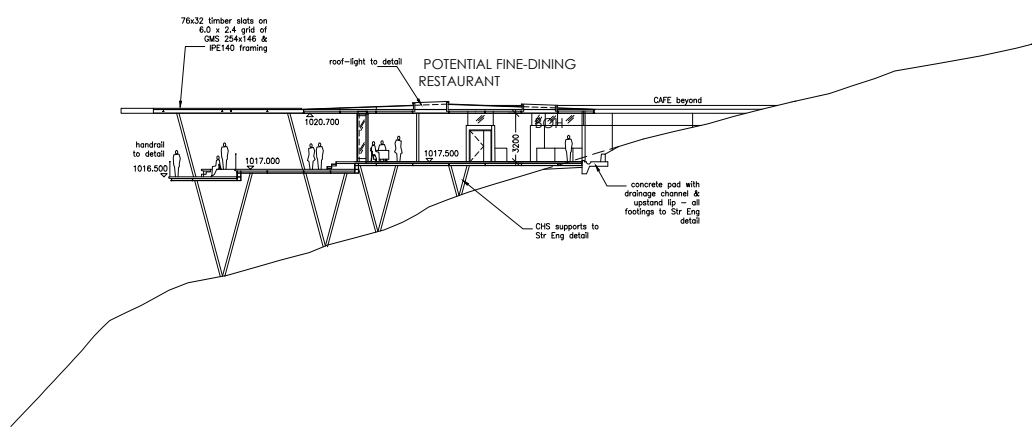
Revision 07



Elevation G



Section J



Section L

2023.01.25	03	Upper station reverted to 1017 level - roof deck omitted
2022.10.14	02	RE-ISSUED FOR SIGN-OFF water tank platform and pergola at top station revised
2022.10.10	01	ISSUED FOR SIGN-OFF
2022.10.03	00	additional sections /elevations
Date	Rev	Description
STAGE 3		

MTA / V D M M A

Project Blue Sky
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Client : FCC (Pty) Ltd

upper station sections
Sections J & L / Elevation G

Scale
1:250 / A1
Job No.
736519
Drawing No.
204
Revision
03