

ARCHITECTURAL DRAWINGS AND ILLUSTRATIONS



- GENERAL NOTES**
- ALL MATERIALS AND METHODS ARE TO COMPLY WITH THE NATIONAL BUILDING REGULATIONS (ACT NO. 103 OF 1977) AND AMENDMENTS AND ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE BY-LAWS OF THE RELEVANT LOCAL AUTHORITY
 - ALL CONSTRUCTION METHODS AND MATERIALS ARE TO BE IN ACCORDANCE WITH THE MODEL PREAMBLES FOR TRADES (1999 ASQS) AND SUPPLEMENTARY PREAMBLES, UNLESS OTHERWISE SPECIFIED
 - WHERE MATERIALS ARE SPECIFIED BY A PROPRIETARY REFERENCE TO A PARTICULAR PRODUCT SUCH MATERIALS/ PRODUCTS ARE TO BE INSTALLED STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS
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REVISIONS

NO.	DATE	ID.	DESCRIPTION
A	2020/05/07		FOR INFORMATION

CONSULTANTS

QUANTITY SURVEYOR

CIVIL / STRUCTURAL ENGINEERS

ELECTRICAL ENGINEERS

MECHANICAL ENGINEERS

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CLIENT
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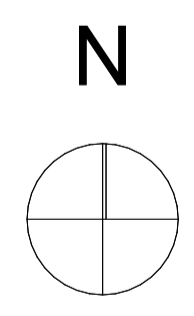
ARCHITECT
GJ Roberts Pr21288

PROJECT TITLE
SAAO Universal Access Ramps Observatory

DRAWING TITLE
Site

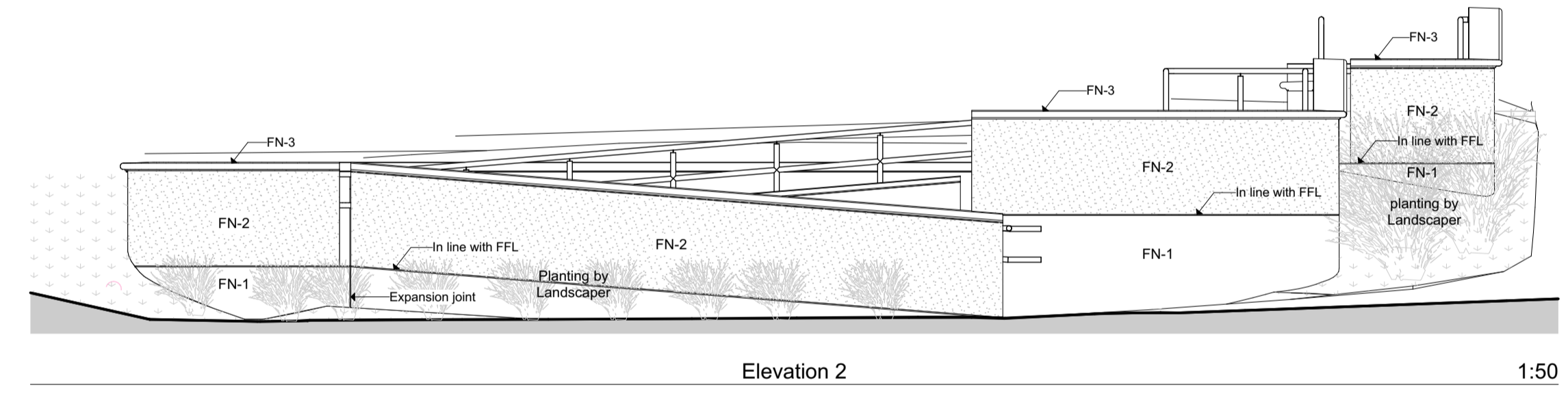
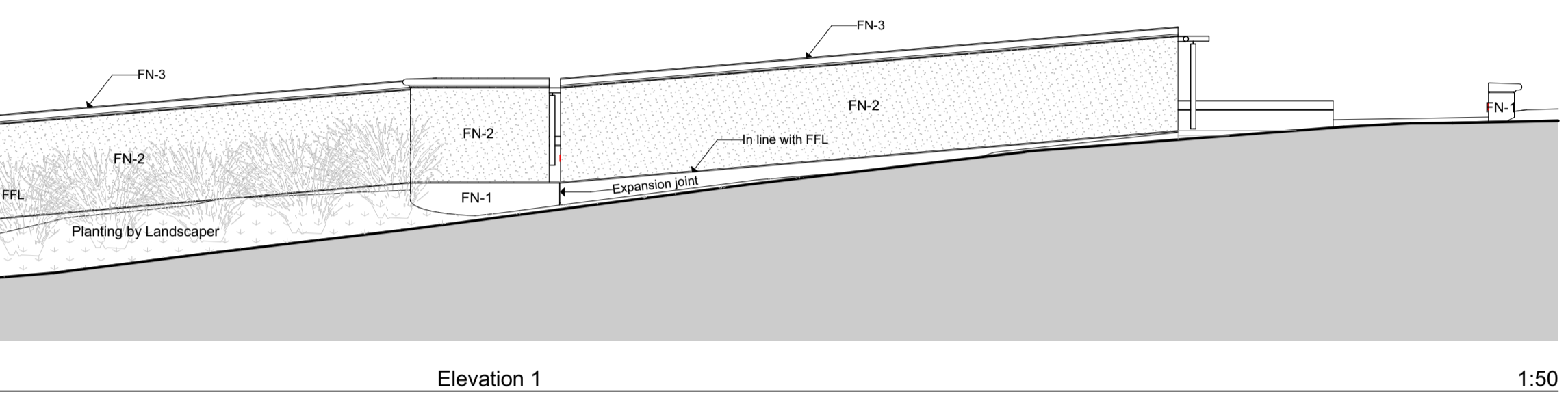
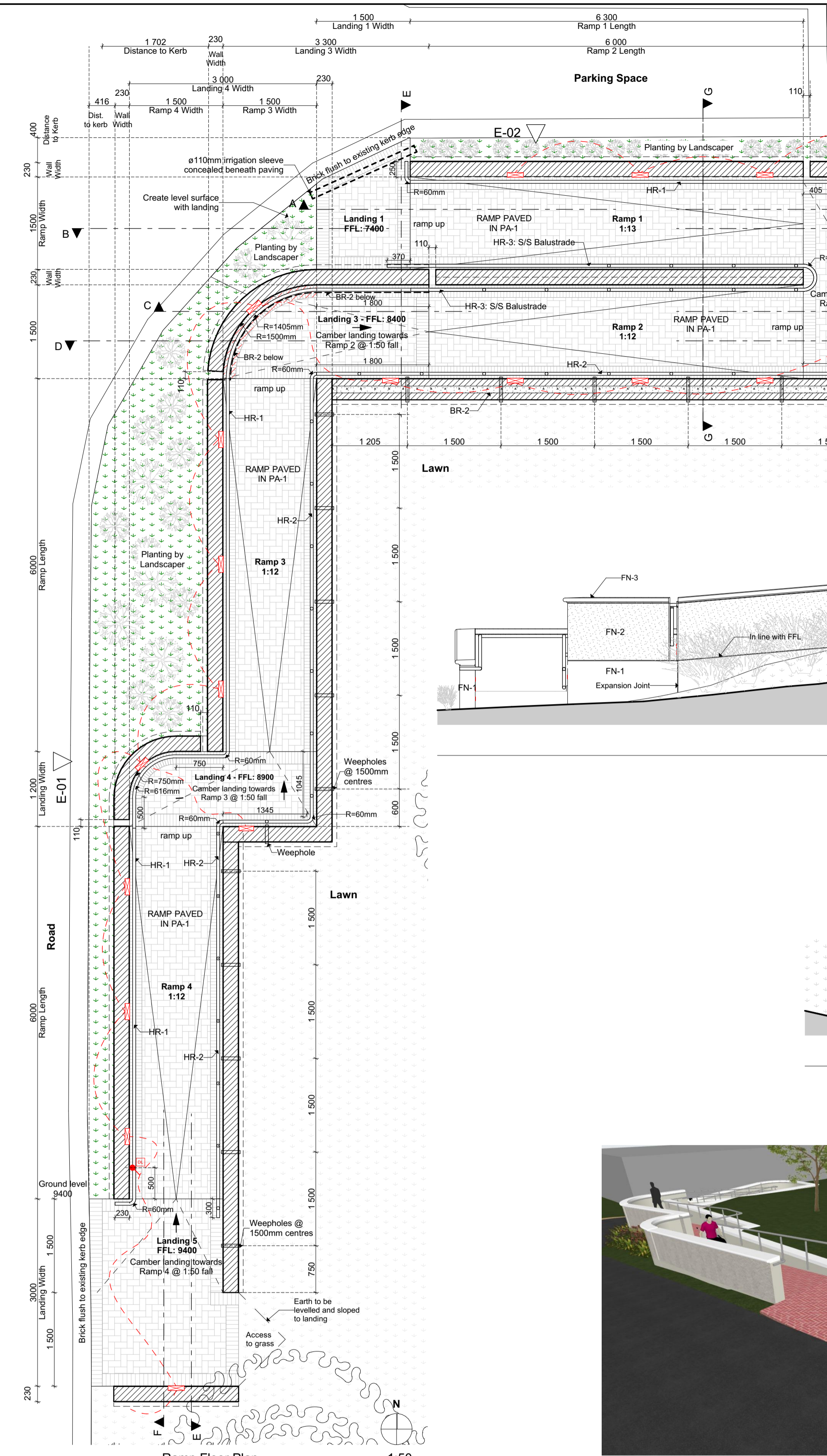
WORKSTAGE _____ **PURPOSE OF DRAWING**
FOR INFORMATION

SCALE	1:1000	PROJ. NO.	055	DWG. NO.	L1000	REV.	B
DRAWN	M Fourie	CHECKED	GJ Roberts	DATE	2020/05/21		



Site Plan

1:1000



Electrical Legend

- Daylight Switch - 200mm AFFL
- LT-1 - 200mm AFFL

Structural Work:

- All brickwork footings to be 600x200 20MPa mass concrete, min 425mm below NGL.
- All foundation walls to be NFX 14 MPa bricks.
- All non-load bearing brickwork to be NFP 7MPa bricks.
- Cavity wall infill concrete to be 15MPa infill concrete using 13mm stones.

Note on Finishes:

- All interior wall faces and wall ends to be plastered smooth and painted (FN-1)
- Exterior wall faces to be plastered in splatterdash plaster and painted (FN-2) from below the coping to the line of the FFL. Below the line of the FFL, the face is to be plastered smooth and painted (FN-1)
- Plaster copings to be finished smooth and painted white to match colour on site (FN-3)

Note: all samples to be presented to architect for approval.

Note on Planting:

Plants shown on drawings are for indicative purposes only - planting is to be by landscaper. Planting to include a mix of indigenous, waterwise plants with some iconic fynbos species.

Specifications:

Brickwork
BR-1: 230mm Solid brick wall
 230mm solid brick wall. Foundation to be solid bricks, NFX 14MPa. Non load-bearing brickwork to be NFP 7MPa solid bricks. Brickforce every course from foundation until FFL, and then every 4th course.

BR-2: Retaining Wall
 Retaining wall detail to be used when height of retained soil >800mm. 330mm solid brick cavity wall with 15MPa infill concrete, using 13mm stone. Foundation walls to be solid bricks, NFX 14MPa. To be reinforced with 1m long Y10 steel bars at 300mm centres, inserted in foundation once concrete has stiffened. Refer to D-02 Retaining Wall Detail.

Foundations:
CO-1: Concrete footings
 All concrete footings to be 600x200mm 20MPa mass concrete, to be positioned minimum 425mm below NGL.

Paving
PA-1: Paving bricks
 Excavate all topsoil under the ramp area, at least 200mm. All visible roots and plant material to be removed. In situ material to be compacted to 93% MOD. Fill with clean sand or G7 material in 150mm layers to the required level, compacted to 95% MOD.
 Bedding sand layer to be uniform 30mm clean sand layer compacted to 98% MOD AASHTO density.
 Pavers to match red paving bricks on site, De Hoop Red or similar approved (samples to be presented to architect for approval) in herringbone pattern with 3-5mm paver joints filled with fine, washed sand. Edges to be paved in brick on edge bond with 2-5mm mortar joints.

PA-2: Paving Bricks (ramps)
 Excavate all topsoil under the ramp area, at least 200mm. All visible roots and plant material to be removed. In situ material to be compacted to 93% MOD. Fill with clean sand or G7 material in 150mm layers to the required level, compacted to 95% MOD.
 Bedding sand layer to be uniform 30mm clean, cement stabilised (2-4% by volume) sand layer compacted to 98% MOD AASHTO density.
 Pavers to match red paving bricks on site, De Hoop Red or similar approved (samples to be presented to architect for approval) in herringbone pattern with 3-5mm paver joints filled with fine, washed sand. Edges to be paved in brick on edge bond with 2-5mm mortar joints.

Finishes
FN-1: Plaster Smooth and painted
 Smooth, trowelled plaster finish and painted beige to match existing colour on site. Present sample to architect for approval.
 Undercoat: Dulux Trade Alkali Resistant Plaster Primer, 18 Hours dry time.
 Surface coat: Dulux Trade 100 Matt, colour to match existing, 4 hours dry time
 Top coat: Dulux Trade 100 Matt, colour to match existing, 4 hours dry time.

FN-2: Plaster Splatterdash and painted
 Plastered with splatterdash plaster and painted beige to match existing colour on site. Present sample to architect for approval.
 Undercoat: Dulux Trade Alkali Resistant Plaster Primer, 18 Hours dry time.
 Surface coat: Dulux Trade 100 Matt, colour to match existing, 4 hours dry time
 Top coat: Dulux Trade 100 Matt, colour to match existing, 4 hours dry time.

FN-3: Plaster Smooth and painted
 Smooth plaster coping, painted white to match existing colour on site. Present sample to architect for approval.
 Undercoat: Dulux Trade Alkali Resistant Plaster Primer, 18 Hours dry time.
 Surface coat: Dulux Trade 100 Matt, colour to match existing, 4 hours dry time
 Top coat: Dulux Trade 100 Matt, colour to match existing, 4 hours dry time.

Handrails
HR-1: Handrail
 Ø50mm brushed Stainless Steel Handrail at 900mm AFFL, fixed securely to wall at 1m centres according to specialist fixing detail (to be presented to architect for approval). Minimum clear distance of 60mm from face of the wall to handrail. 50mm gap between underside of handrail and top of support. Ends to be closed with Stainless Steel plate.

HR-2: Handrail with Stanchion
 Ø50mm brushed Stainless Steel Handrail 900mm AFFL, fixed securely to wall at 1m centres via Ø50mm brushed stainless steel stanchions with a 50mm gap between the top of the stanchion and the bottom of the handrail. Stanchion to be securely fixed to the wall via a brushed stainless steel pin, chemical anchored into the wall according to specialist detail (to be presented to architect for approval). Minimum clear distance of 60mm from face of the wall to handrail. Ends to be closed with Stainless Steel plate. See D-04 for more detail.

HR-3: Handrail with mid rail and Stanchion
 Ø50mm brushed Stainless Steel Handrail at 900 AFFL with mid rail and 600mm AFFL, fixed securely to wall at 1m centres via Ø50mm brushed stainless steel stanchions, with a 50mm gap between the top of the stanchion and the bottom of the top rail. Stanchion to be securely fixed to the wall via a brushed stainless steel pin, chemical anchored into the wall according to specialist detail (to be presented to architect for approval). Minimum clear distance of 60mm from face of the wall to handrail. Ends to be closed with Stainless Steel plate. See D-05 for more detail.

HR-4: Balustrade to match existing
 Stainless steel balustrade to match existing balustrade adjacent to auditorium, to height of 1m AFFL.

Lighting:
LT-1: Footlight
 Miso 250 Matt Silver (MS) with daylight switch, from Regent lighting. To be positioned 200mm AFFL, 2m apart.

Waterproofing:
DR-1 Drainage System
 Subsoil drainage to be provided by ø50mm pvc pipe weepholes positioned at 1,5m centres, with the non-exposed end covered by geotextile; and ø110mm perforated PVC agricultural drain encased in 19mm builders stone and wrapped in geotextile.

WP-1: Torch-on waterproofing
 Apply 1 layer Protech Embossed 3mm + Bitumen primer, or similar approved, applied according to manufacturer's specification. To be applied to minimum 100mm above ground level and counterflashed with polypropylene flashing and Hydroflex, or similar approved detail; and to be layed down to level of foundation and tapped over top of concrete, with turn from wall to foundation to be covered.

WP-2: Torch-on waterproofing to Planter
 Apply 1 layer Protech Embossed 3mm + Bitumen primer, or similar approved, applied according to manufacturer's specification, and 1 layer Derigum 4mm P-C44 Horticultural layer, applied according to manufacturer's specification. To be applied to minimum 100mm above ground level and counterflashed with polypropylene flashing and Hydroflex, or similar approved detail; and to be layed over a base of compacted soil. Corners between soil base and wall must be covered.

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A	2020/04/17		FOR INFORMATION
B	2020/05/07		FOR INFORMATION
C	2020/05/21		FOR INFORMATION

CONSULTANTS

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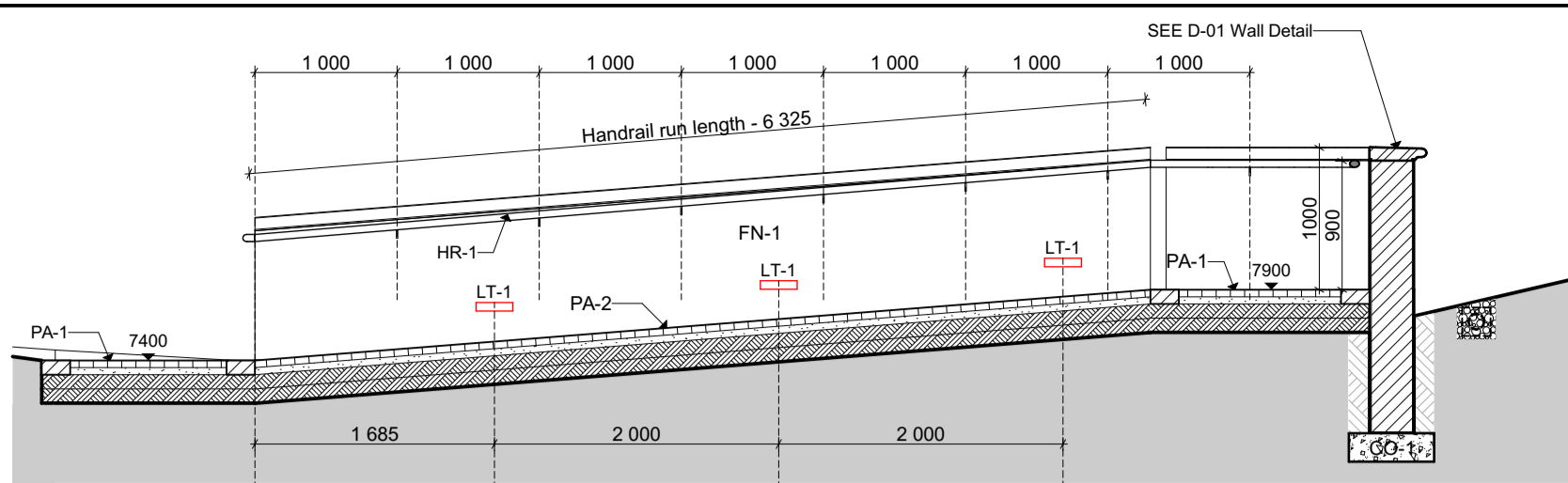
ARCHITECT
GJ Roberts Pr21888

PROJECT TITLE
SAAO Universal Access Ramps
Observatory

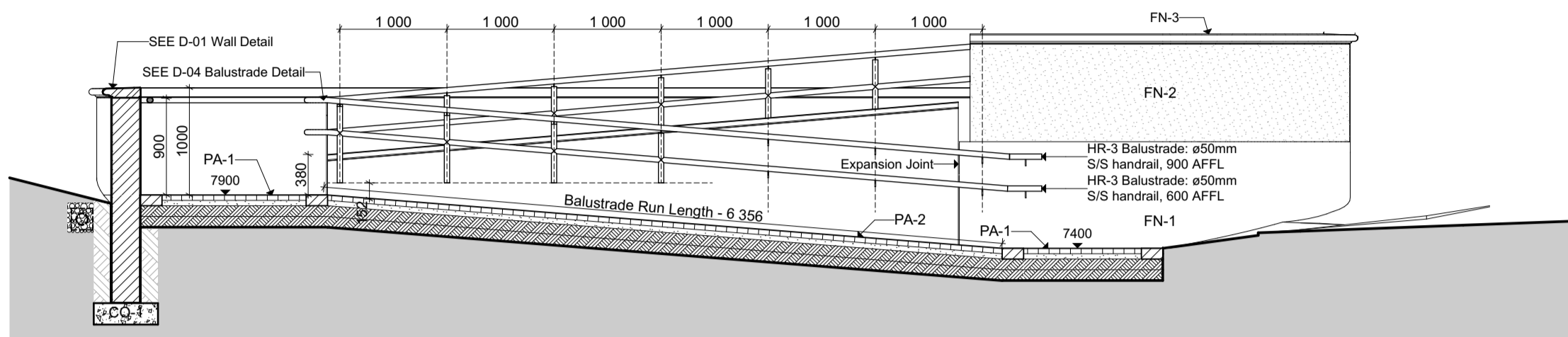
DRAWING TITLE
Ramp 1: New Universal Access Ramp

WORKSTAGE PURPOSE OF DRAWING
FOR INFORMATION

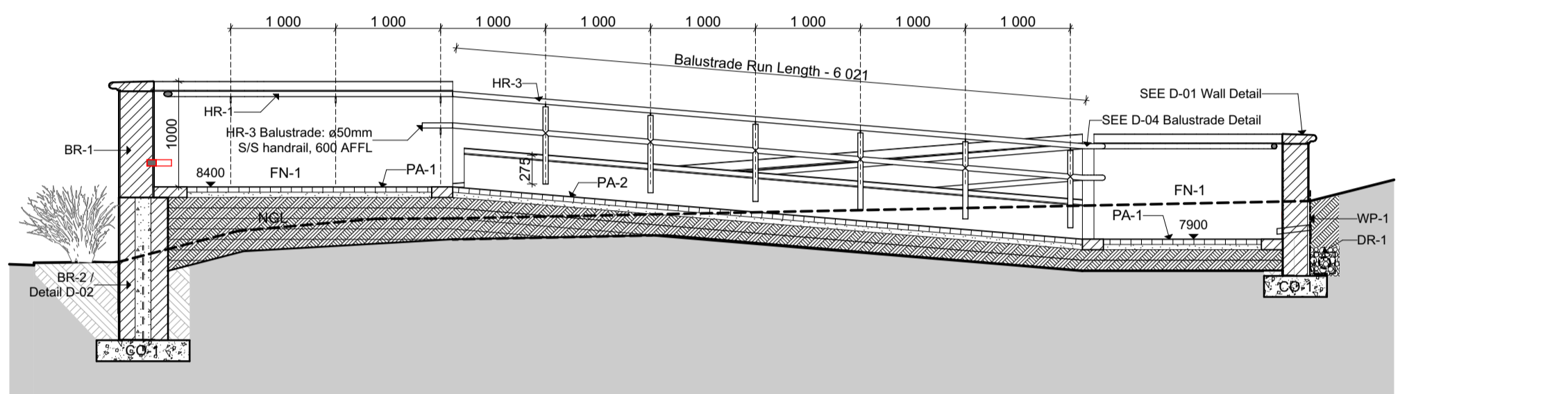
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DRAWN	M Fourie	055	L1010	B
DATE	2020/05/21	CHECKED	GJ Roberts	



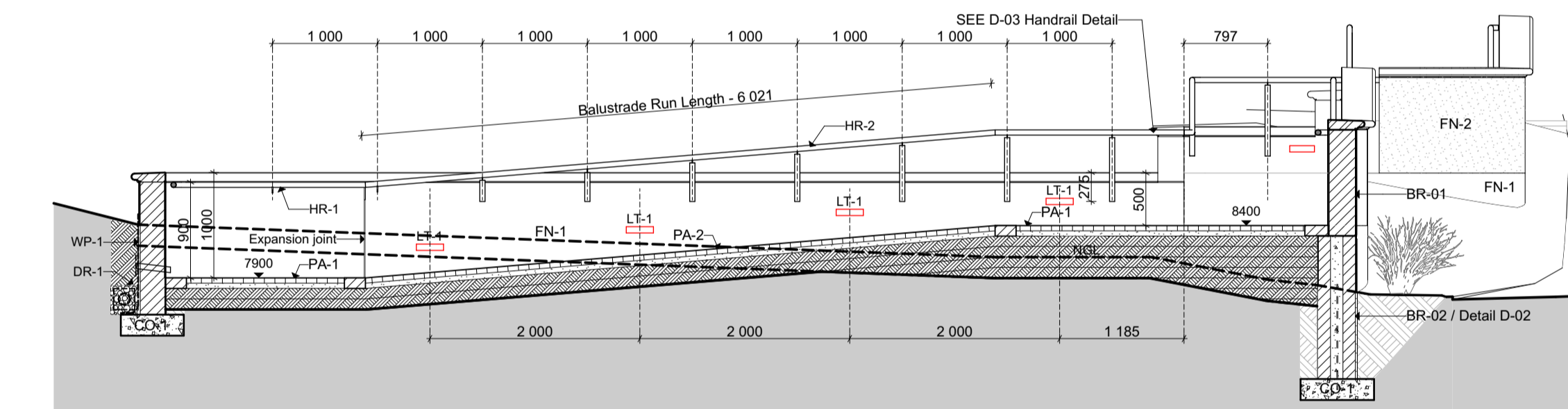
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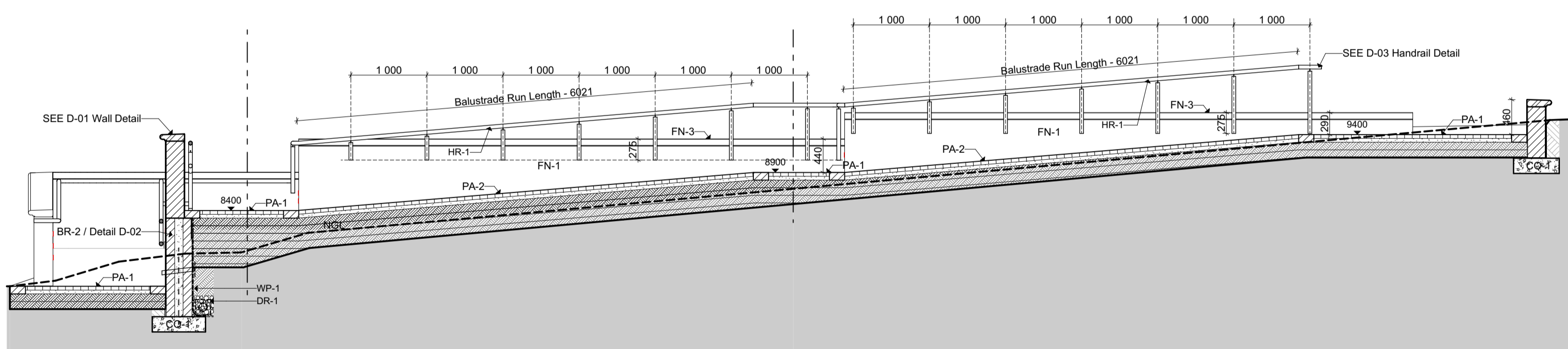
Section B 1:50



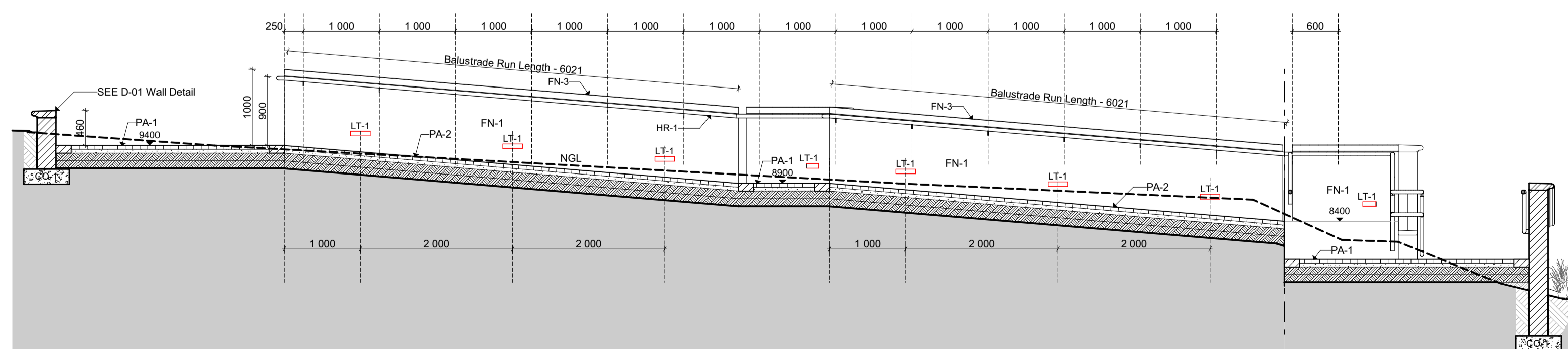
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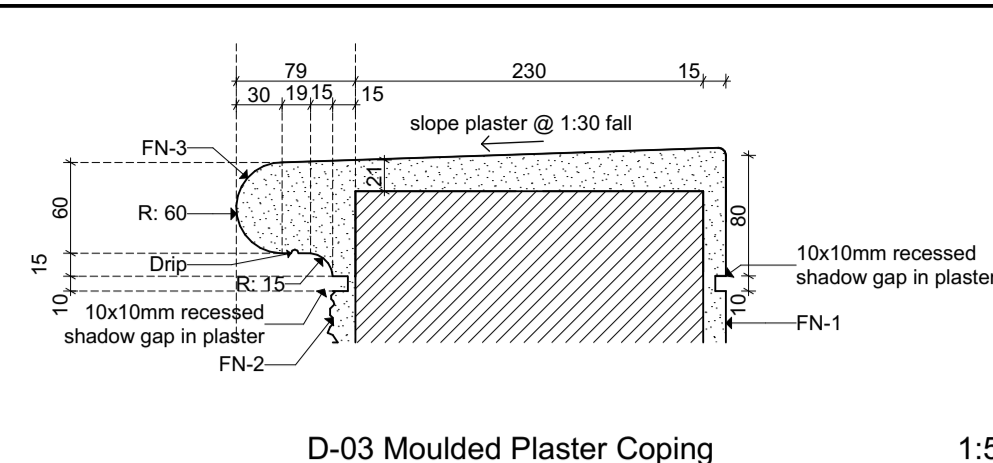
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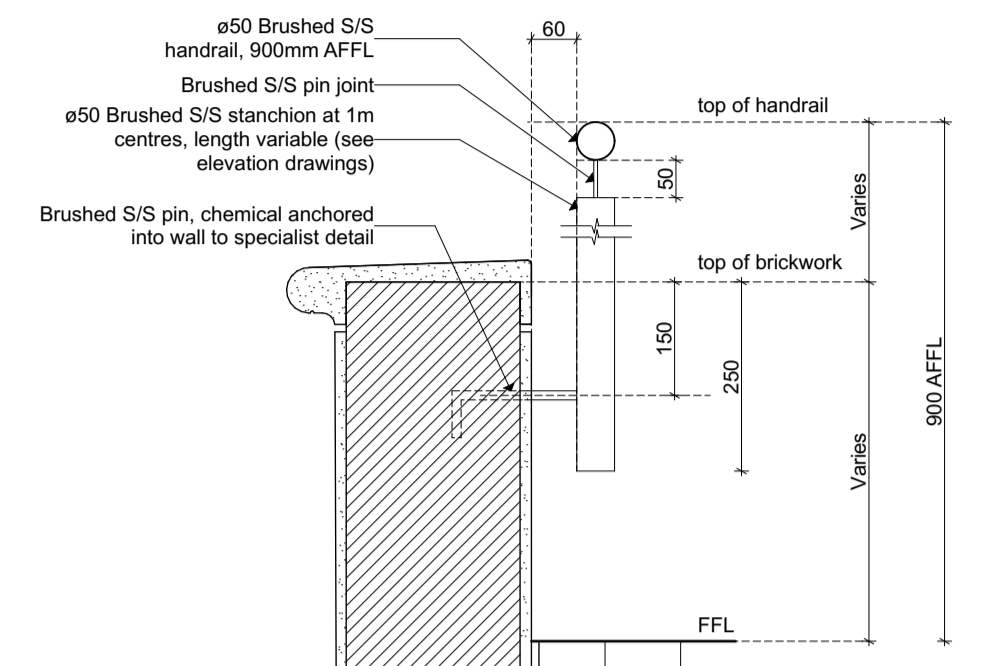
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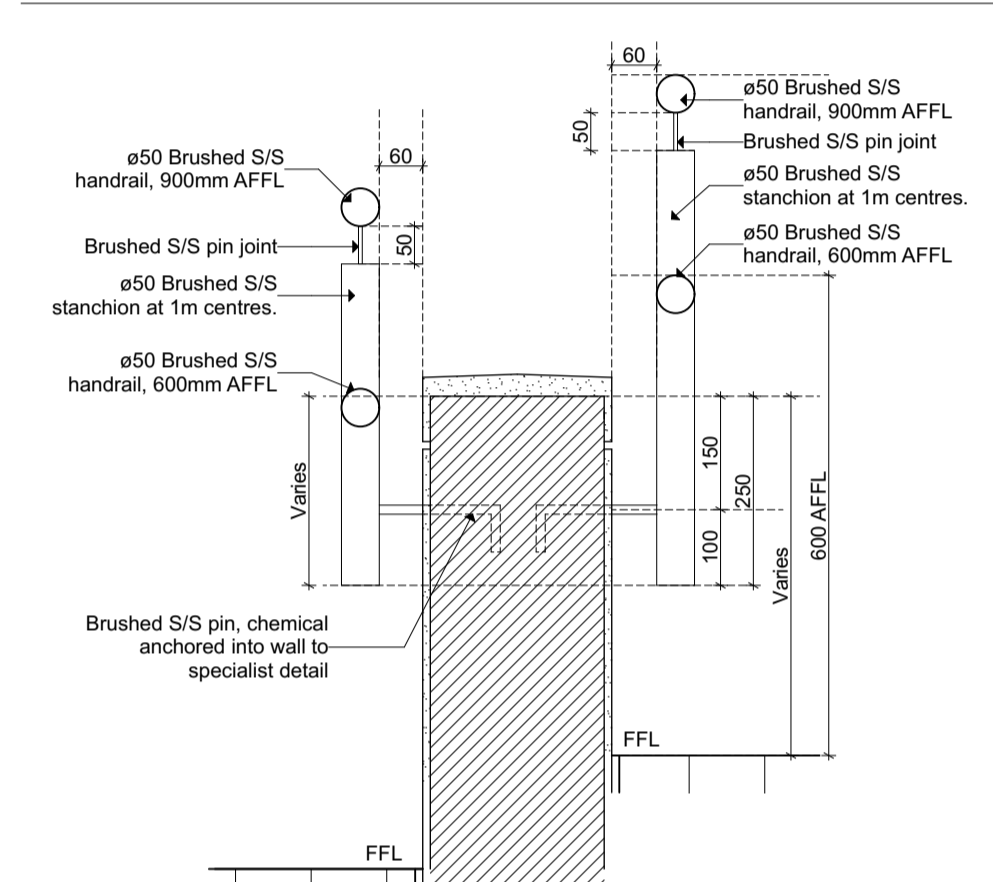
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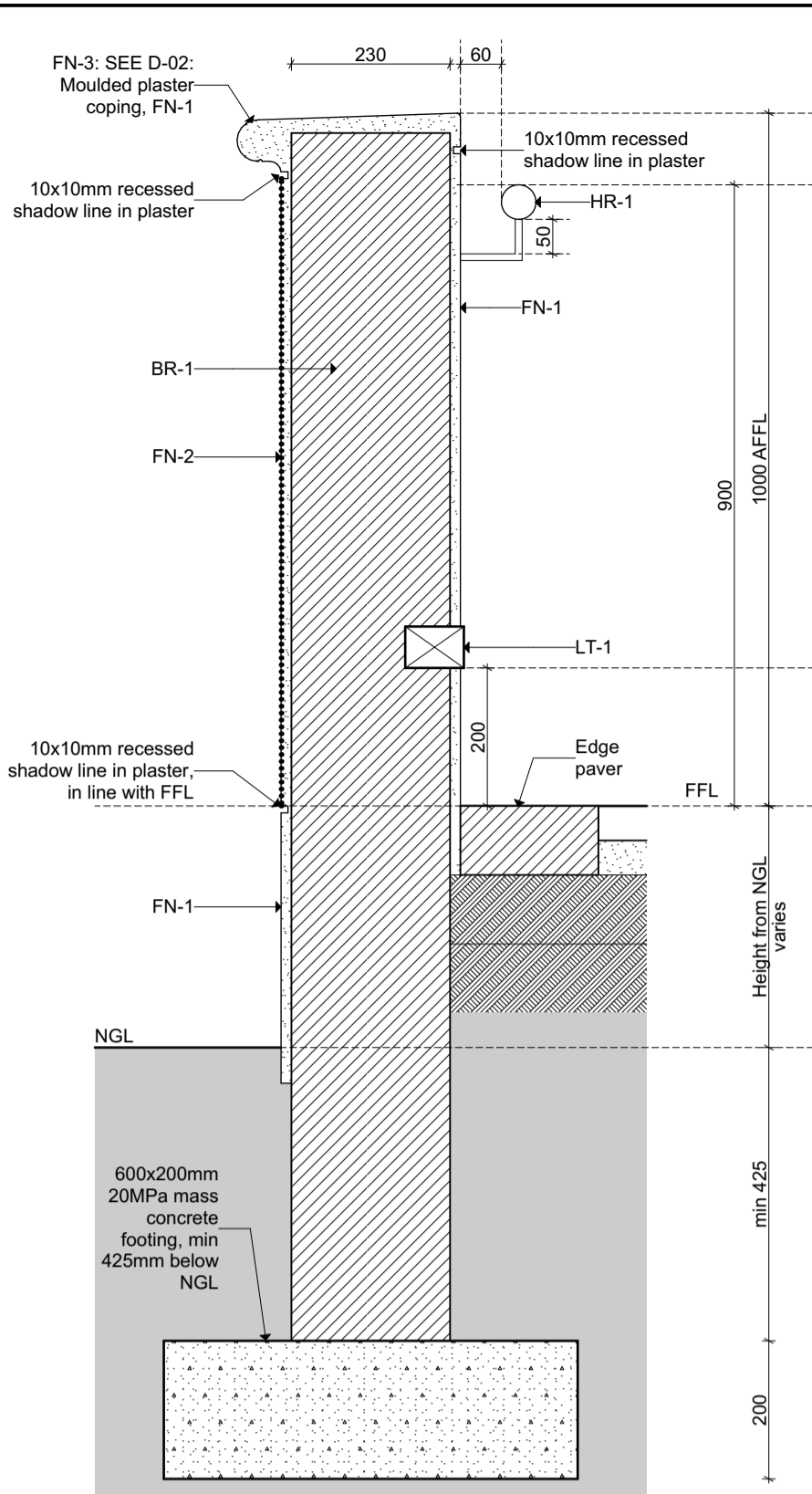
D-03 Moulded Plaster Coping 1:5



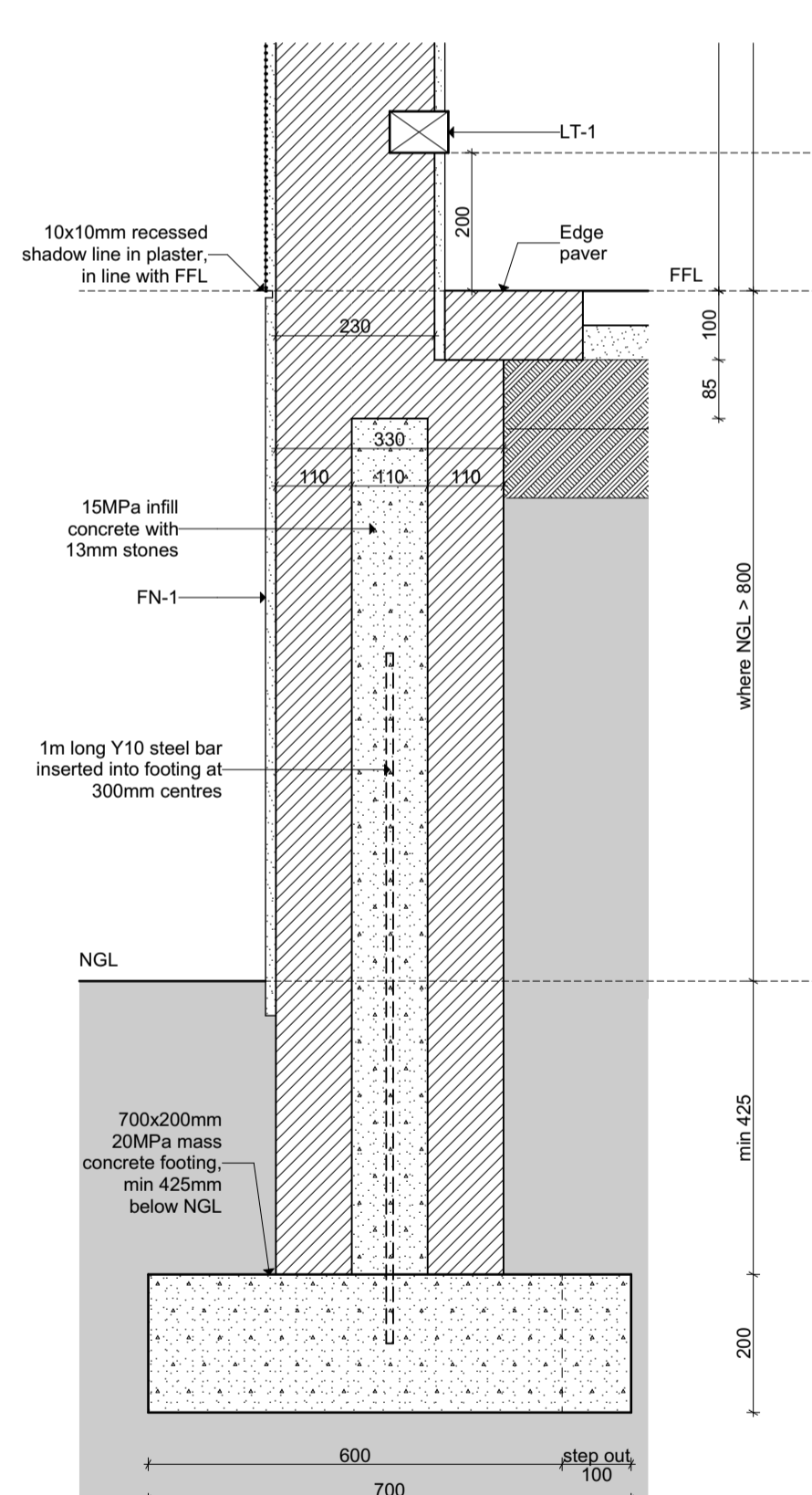
D-04 Handrail Detail 1 1:10



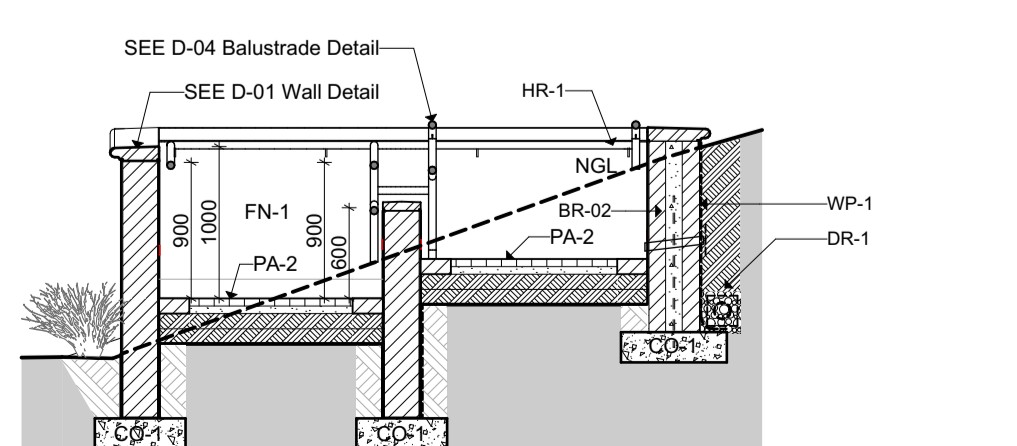
D-05 Balustrade Detail 1:10



D-01 Wall Detail 1:10



D-02 Retaining Wall Detail 1:10



Section G 1:50

Electrical Legend

- Daylight Switch - 200mm AFFL
- LT-1 - 200mm AFFL

Structural Work:

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Note on Finishes:

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Note on Planting:

Plants shown on drawings for indicative purposes only - planting is to be by landscaper. Planting to include a mix of indigenous, waterwise plants with some iconic fynbos species.

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Foundations:
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 All concrete footings to be 600x200mm 20MPa mass concrete, to be positioned minimum 425mm below NGL.

Paving
PA-1: Paving bricks
 Excavate all topsoil under the ramp area, at least 200mm. All visible roots and plant material to be removed. In situ material to be compacted to 93% MOD. Fill with clean sand or G7 material in 150mm layers to the required level, compacted to 95% MOD. Bedding sand layer to be uniform 30mm clean sand layer compacted to 98% MOD AASHTO density. Pavers to match red paving bricks on site, De Hoop Red or similar approved (samples to be presented to architect for approval) in herringbone pattern with 3-5mm paver joints filled with fine, washed sand. Edges to be paved in brick on edge bond with 2-5mm mortar joints.

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 Surface coat: Dulux Trade 100 Matt, colour to match existing, 4 hours dry time.
 Top coat: Dulux Trade 100 Matt, colour to match existing, 4 hours dry time.

FN-3: Plaster Smooth and painted
 Smooth plaster coping, painted white to match existing colour on site. Present sample to architect for approval.
 Undercoat: Dulux Trade Alkali Resistant Plaster Primer, 18 Hours dry time.
 Surface coat: Dulux Trade 100 Matt, colour to match existing, 4 hours dry time.
 Top coat: Dulux Trade 100 Matt, colour to match existing, 4 hours dry time.

Handrails
HR-1: Handrail
 Ø25mm brushed Stainless Steel Handrail at 900mm AFFL, fixed securely to wall at 1m centres according to specialist fixing detail (to be presented to architect for approval). Minimum clear distance of 60mm from face of the wall to handrail. 50mm gap between underside of handrail and top of support. Ends to be closed with Stainless Steel plate.

HR-2: Handrail with Stanchion
 Ø25mm brushed Stainless Steel Handrail 900mm AFFL, fixed securely to wall at 1m centres via Ø50mm brushed stainless steel stanchions with a 50mm gap between the top of the stanchion and the bottom of the handrail. Stanchion to be securely fixed to the wall via a brushed stainless steel pin, chemical anchored into the wall according to specialist detail (to be presented to architect for approval). Minimum clear distance of 60mm from face of the wall to handrail. Ends to be closed with Stainless Steel plate. See D-04 for more detail.

HR-3: Handrail with mid rail and Stanchion
 Ø25mm brushed Stainless Steel Handrail at 900 AFFL with midrail and 600mm AFFL, fixed securely to wall at 1m centres via Ø50mm brushed stainless steel stanchions, with a 50mm gap between the top of the stanchion and the bottom of the top rail. Stanchion to be securely fixed to the wall via a brushed stainless steel pin, chemical anchored into the wall according to specialist detail (to be presented to architect for approval). Minimum clear distance of 60mm from face of the wall to handrail. Ends to be closed with Stainless Steel plate. See D-05 for more detail.

HR-4: Balustrade to match existing
 Stainless steel balustrade to match existing balustrade adjacent to auditorium, to height of 1m AFFL.

Lighting:
LT-1: Footlight
 Miso 250 Matt Silver (MS) with daylight switch, from Regent lighting. To be positioned 200mm AFFL, 2m apart.

Waterproofing:
DR-1 Drainage System
 Subsoil drainage to be provided by ø50mm pvc pipe weepholes positioned at 1,5m centres, with the non-exposed end covered by geotextile; and ø110mm perforated PVC agricultural drain encased in 19mm builders stone and wrapped in geotextile.

WP-1: Torch-on waterproofing
 Apply 1 layer Protech Embossed 3mm + Bitumen primer, or similar approved, applied according to manufacturer's specification. To be applied to minimum 100mm above ground level and counterflashed with polypropylene flashing and Hydroflex, or similar approved detail; and to be lapped over top of foundation and lapped over top of concrete, with turn from wall to foundation to be covered.

WP-2: Torch-on waterproofing to Planter
 Apply 1 layer Protech Embossed 3mm + Bitumen primer, or similar approved, applied according to manufacturer's specification. To be applied to minimum 100mm above ground level and counterflashed with polypropylene flashing and Hydroflex, or similar approved detail; and to be lapped over a base of compacted soil. Corners between soil base and wall must be covered.

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CONSULTANTS

QUANTITY SURVEYOR

CIVIL / STRUCTURAL ENGINEERS

ELECTRICAL ENGINEERS

MECHANICAL ENGINEERS

SALT ARCHITECTS

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 Vlebeerg
 South Africa
 8018

CLIENT

NRF

ARCHITECT

GJ Roberts Pr21288

PROJECT TITLE

SAAO Universal Access Ramps
 Observatory

DRAWING TITLE

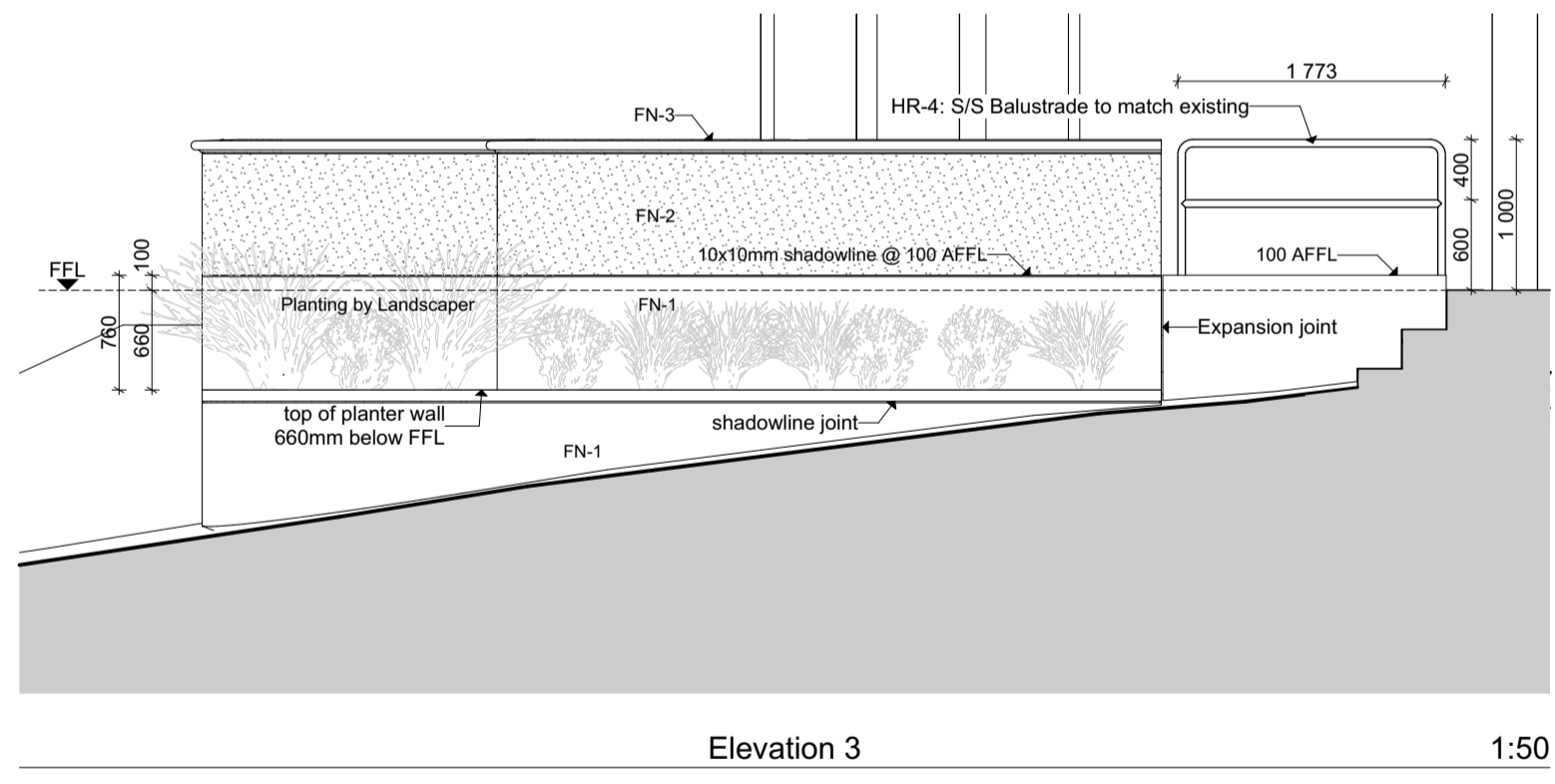
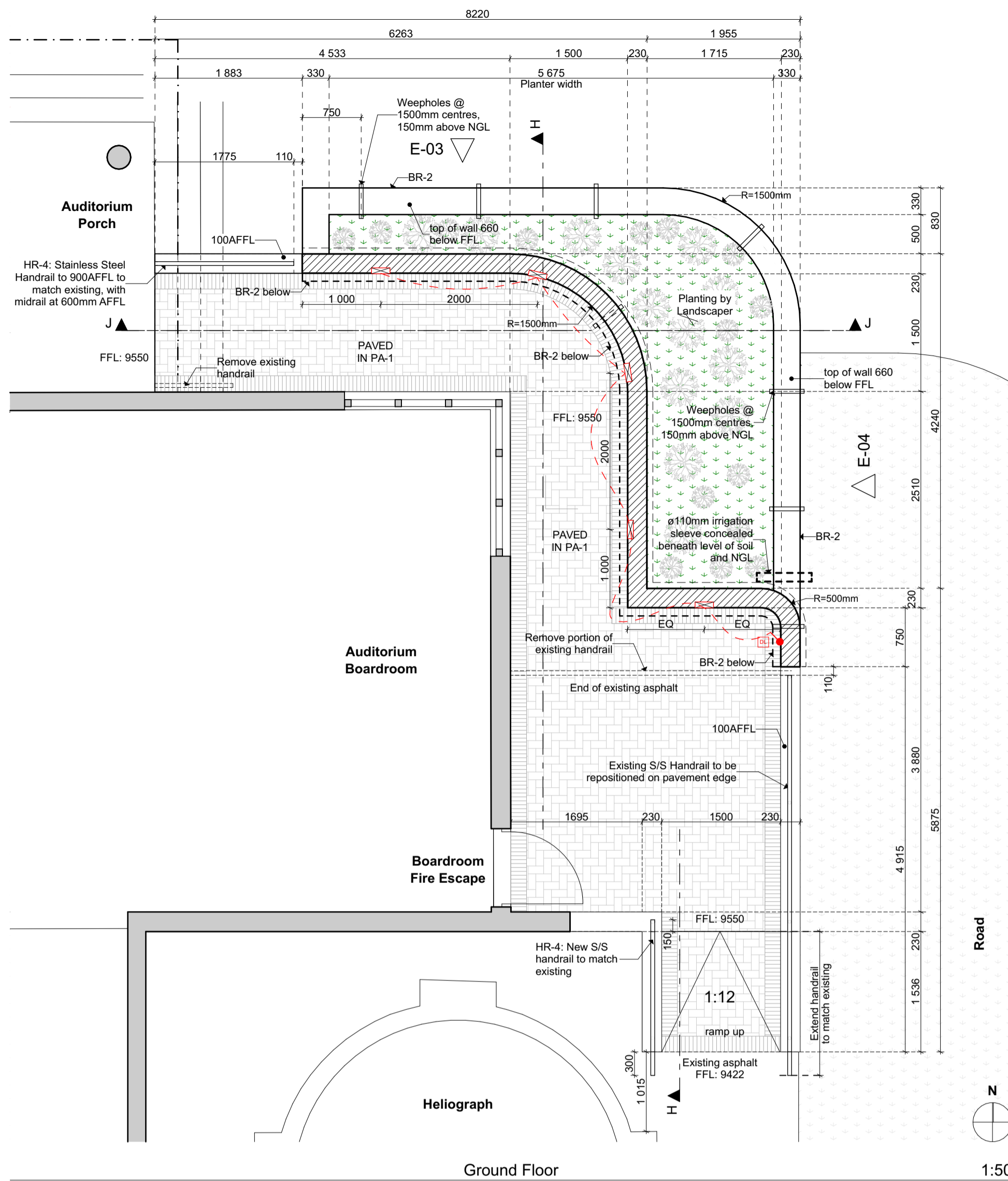
Universal Access Ramp Sections and Details

WORKSTAGE

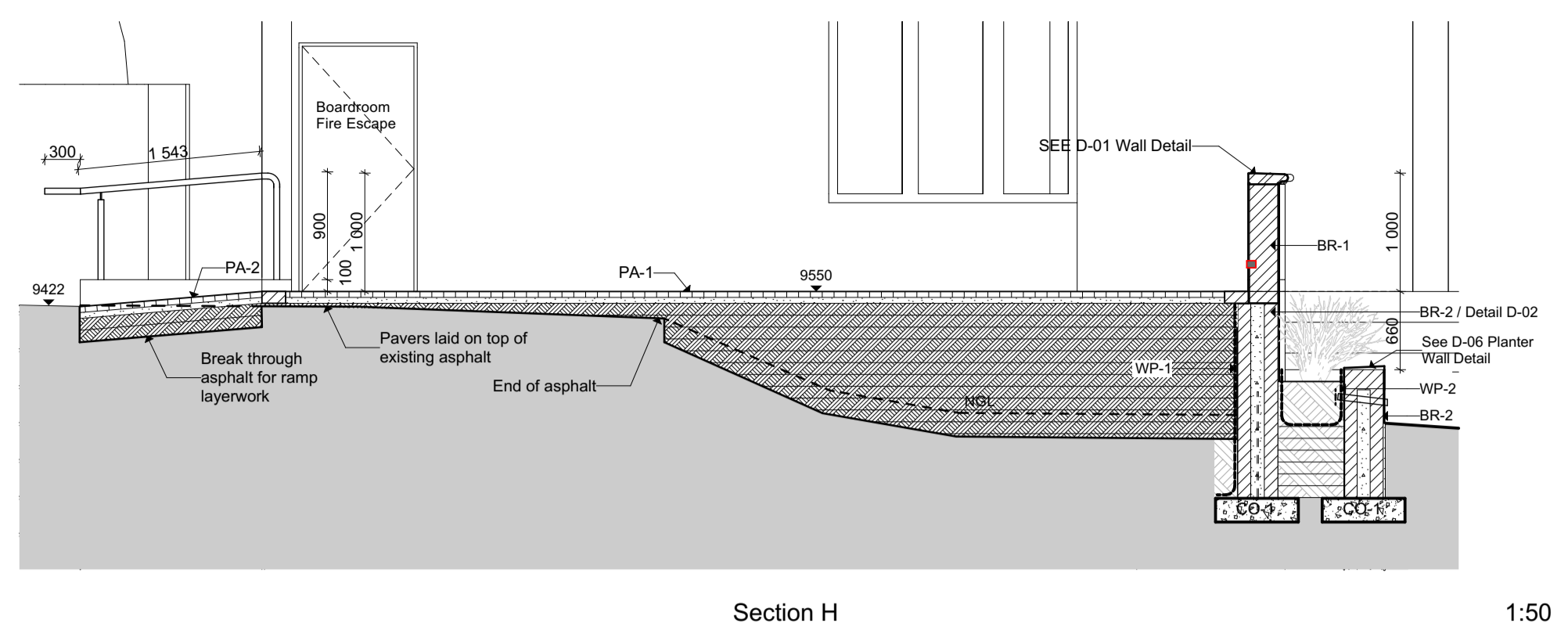
PURPOSE OF DRAWING

FOR INFORMATION

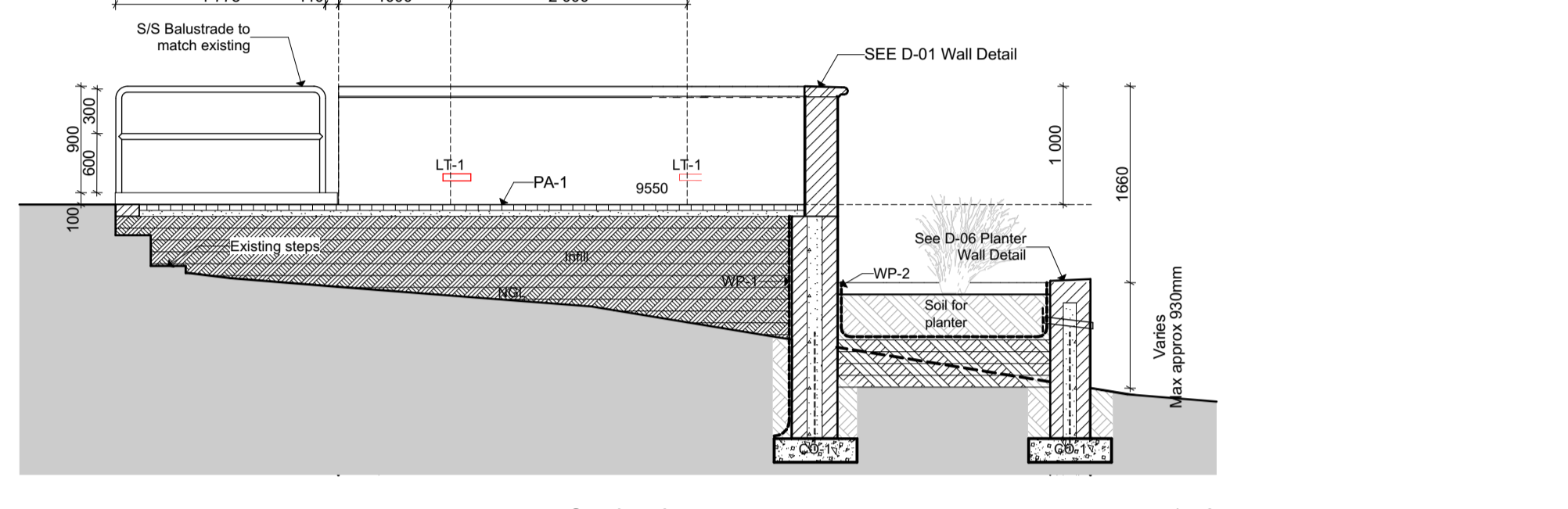
SCALE	PROJ. NO.	DWG. NO.	REV.
1:50, 1:10, 1:5	055	L1011	C
DRAWN	M Fourie	CHECKED	GJ Roberts
DATE	2020/05/21	DATE	2020/05/21



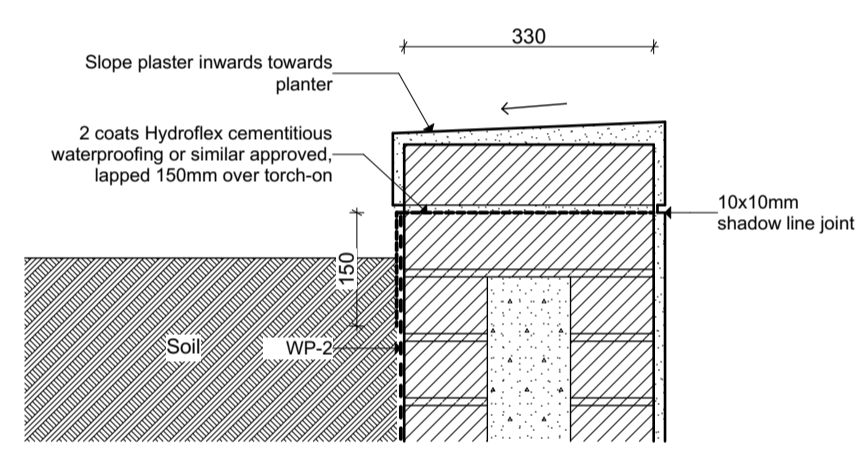
Elevation 3 1:50



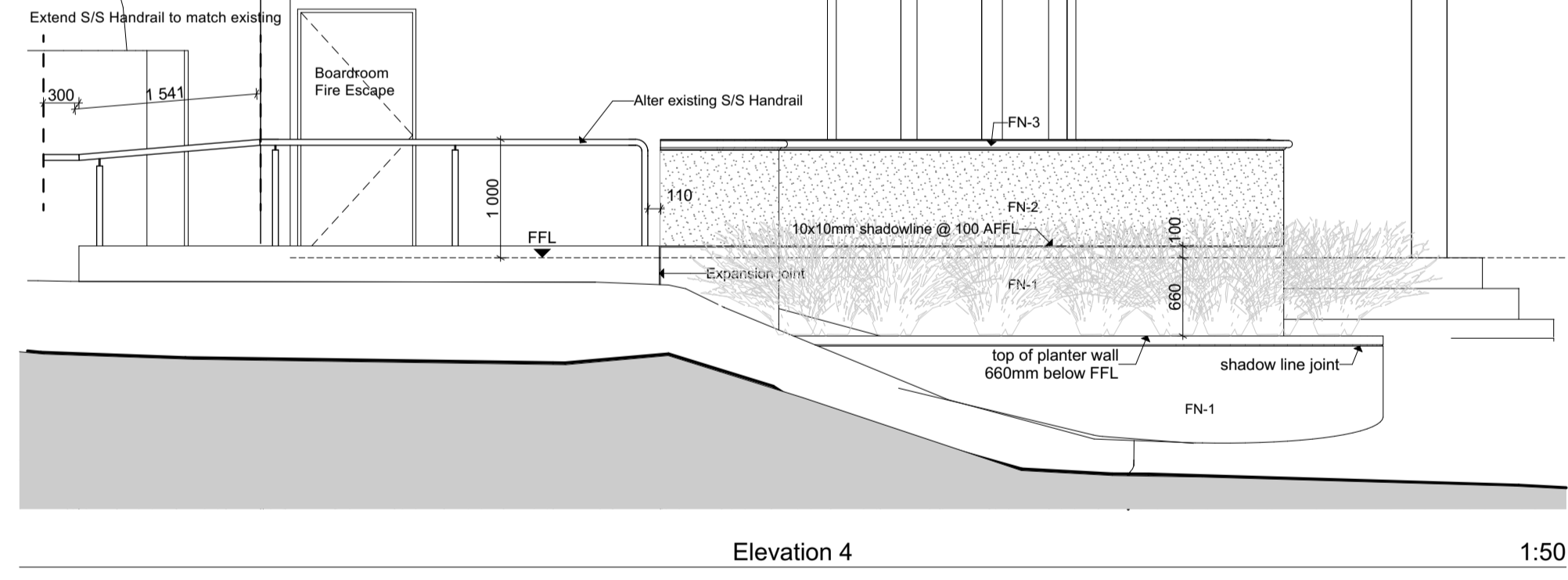
Section H 1:50



Section J 1:50



D-06 Planter Wall Detail 1:10



Elevation 4 1:50



NOTE: Plants show are indicative. See Planting Note



NOTE: Plants show are indicative. See Planting Note



NOTE: Plants show are indicative. See Planting Note

Electrical Legend
 Daylight Switch - 200mm AFFL
 LT-1 - 200mm AFFL

Structural Work:
 1. All brickwork footings to be 600x200 20MPa mass concrete, min 425mm below NGL.
 2. All foundation walls to be NFX 14 MPa bricks.
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 2. Exterior wall faces to be plastered in splatterdash plaster and painted (FN-2) from below the coping to the line of the FFL. Below the line of the FFL, the face is to be plastered smooth and painted (FN-1)
 3. Plaster copings to be finished smooth and painted white to match colour on site (FN-3).
Note: all samples to be presented to architect for approval.

Note on Planting:
 Plants shown on drawings are for indicative purposes only - planting is to be by landscaper. Planting to include a mix of indigenous, waterwise plants with some iconic fynbos species.

Specifications:
Brickwork
BR-1: 230mm Solid brick wall
 230mm solid brick wall. Foundation walls to be solid bricks, NFX 14MPa. Non load-bearing brickwork to be NFP 7MPa solid bricks. Brickforce every course from foundation until FFL, and then every 4th course.
BR-2: Retaining Wall
 Retaining wall detail to be used when height of retained soil >800mm. 330mm solid brick cavity wall with 15MPa infill concrete, using 13mm stone. Foundation walls to be solid bricks, NFX 14MPa. To be reinforced with 1m long Y10 steel bars at 300mm centres, inserted in foundation once concrete has stiffened. Refer to D-02 Retaining Wall Detail.

Foundations:
CO-1: Concrete footings
 All concrete footings to be 600x200mm 20MPa mass concrete, to be positioned minimum 425mm below NGL.
Paving
PA-1: Paving bricks
 Excavate all topsoil under the ramp area, at least 200mm. All visible roots and plant material to be removed. In situ material to be compacted to 93% MOD. Fill with clean sand or G7 material in 150mm layers to the required level, compacted to 95% MOD.
 Bedding sand layer to be uniform 30mm clean sand layer compacted to 98% MOD AASHTO density.
 Pavers to match red paving bricks on site, De Hoop Red or similar approved (samples to be presented to architect for approval) in herringbone pattern with 3-5mm paver joints filled with fine, washed sand. Edges to be paved in brick on edge bond with 2-5mm mortar joints.

PA-2: Paving Bricks (ramps)
 Excavate all topsoil under the ramp area, at least 200mm. All visible roots and plant material to be removed. In situ material to be compacted to 93% MOD. Fill with clean sand or G7 material in 150mm layers to the required level, compacted to 95% MOD.
 Bedding sand layer to be uniform 30mm clean, cement stabilised (2-4% by volume) sand layer compacted to 98% MOD AASHTO density.
 Pavers to match red paving bricks on site, De Hoop Red or similar approved (samples to be presented to architect for approval) in herringbone pattern with 3-5mm paver joints filled with fine, washed sand. Edges to be paved in brick on edge bond with 2-5mm mortar joints.

Finishes
FN-1: Plaster Smooth and painted
 Smooth, trowelled plaster finish and painted beige to match existing colour on site. Present sample to architect for approval.
 Undercoat: Dulux Trade Alkali Resistant Plaster Primer. 18 Hours dry time.
 Surface coat: Dulux Trade 100 Matt, colour to match existing. 4 hours dry time.
 Top coat: Dulux Trade 100 Matt, colour to match existing. 4 hours dry time.
FN-2: Plaster Splatterdash and painted
 Plastered with splatterdash plaster and painted beige to match existing colour on site. Present sample to architect for approval.
 Undercoat: Dulux Trade Alkali Resistant Plaster Primer. 18 Hours dry time.
 Surface coat: Dulux Trade 100 Matt, colour to match existing. 4 hours dry time.
 Top coat: Dulux Trade 100 Matt, colour to match existing. 4 hours dry time.

FN-3: Plaster Smooth and painted
 Smooth plaster coping, painted white to match existing colour on site. Present sample to architect for approval.
 Undercoat: Dulux Trade Alkali Resistant Plaster Primer. 18 Hours dry time.
 Surface coat: Dulux Trade 100 Matt, colour to match existing. 4 hours dry time.
 Top coat: Dulux Trade 100 Matt, colour to match existing. 4 hours dry time.

Handrails
HR-1: Handrail
 Ø50mm brushed Stainless Steel Handrail at 900mm AFFL, fixed securely to wall at 1m centres according to specialist fixing detail (to be presented to architect for approval). Minimum clear distance of 60mm from face of the wall to handrail. 50mm gap between underside of handrail and top of support. Ends to be closed with Stainless Steel plate.
HR-2: Handrail with Stanchion
 Ø50mm brushed Stainless Steel Handrail 900mm AFFL, fixed securely to wall at 1m centres via Ø50mm brushed stainless steel stanchions with a 50mm gap between the top of the stanchion and the bottom of the handrail. Stanchion to be securely fixed to the wall via a brushed stainless steel pin, chemical anchored into the wall according to specialist detail (to be presented to architect for approval). Minimum clear distance of 60mm from face of the wall to handrail. Ends to be closed with Stainless Steel plate. See D-04 for more detail.

HR-3: Handrail with mid rail and Stanchion
 Ø50mm brushed Stainless Steel Handrail at 900 AFFL with midrail and 600mm AFFL, fixed securely to wall at 1m centres via Ø50mm brushed stainless steel stanchions, with a 50mm gap between the top of the stanchion and the bottom of the top rail. Stanchion to be securely fixed to the wall via a brushed stainless steel pin, chemical anchored into the wall according to specialist detail (to be presented to architect for approval). Minimum clear distance of 60mm from face of the wall to handrail. Ends to be closed with Stainless Steel plate. See D-05 for more detail.

HR-4: Balustrade to match existing
 Stainless steel balustrade to match existing balustrade adjacent to auditorium, to height of 1m AFFL.

Lighting:
LT-1: Footlight
 Miso 250 Matt Silver (MS) with daylight switch, from Regent lighting. To be positioned 200mm AFFL, 2m apart.

Waterproofing:
DR-1 Drainage System
 Subsoil drainage to be provided by ø50mm pvc pipe weepholes positioned at 1,5m centres, with the non-exposed end covered by geotextile; and ø110mm perforated PVC agricultural drain encased in 19mm builders stone and wrapped in geotextile.
WP-1: Torch-on waterproofing
 Apply 1 layer Protech Embossed 3mm + Bitumen primer, or similar approved, applied according to manufacturer's specification. To be applied to minimum 100mm above ground level and counterflashed with polypropylene flashing and Hydroflex, or similar approved detail; and to be laid down to level of foundation and lapped over top of concrete, with turn from wall to foundation to be covered.
WP-2: Torch-on waterproofing to Planter
 Apply 1 layer Protech Embossed 3mm + Bitumen primer, or similar approved, applied according to manufacturer's specification, and 1 layer Derbigum 4mm PCC4H Horticultural layer, applied according to manufacturer's specification. To be applied to minimum 100mm above ground level and counterflashed with polypropylene flashing and Hydroflex, or similar approved detail; and to be laid over a base of compacted soil. Corners between soil base and wall must be covered.

GENERAL NOTES

- ALL MATERIALS AND METHODS ARE TO COMPLY WITH THE NATIONAL BUILDING REGULATIONS (ACT NO. 103 OF 1977) AND AMENDMENTS AND ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE BY-LAWS OF THE RELEVANT LOCAL AUTHORITY
- ALL CONSTRUCTION METHODS AND MATERIALS ARE TO BE IN ACCORDANCE WITH THE MODEL PREAMBLES FOR TRADES (1999 ASQS) AND SUPPLEMENTARY PREAMBLES, UNLESS OTHERWISE SPECIFIED
- WHERE MATERIALS ARE SPECIFIED BY A PROPRIETARY REFERENCE TO A PARTICULAR PRODUCT SUCH MATERIALS/ PRODUCTS ARE TO BE INSTALLED STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS
- ALL DIMENSIONS ARE TO BE CHECKED ON SITE BEFORE ANY WORK IS PUT IN HAND. ANY LACK OF CLARITY, AMBIGUITY OR DISCREPANCY IS TO BE REPORTED TO THE ARCHITECT FOR CLARIFICATION
- DIMENSIONS ARE NOT TO BE SCALED FROM THIS DRAWING
- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH STRUCTURAL, CIVIL, MECHANICAL AND/OR ELECTRICAL ENGINEER'S DRAWINGS WHERE APPLICABLE
- NO TREES, SHRUBS OR ROCKS ARE TO BE REMOVED WITHOUT THE EXPLICIT PERMISSION OF THE ARCHITECT AND ARE TO BE PROTECTED UNLESS LOCATED WITHIN THE BUILDING FOOTPRINT
- COPYRIGHT OF THESE DOCUMENTS RESIDES WITH THE AUTHORS AND IS RESERVED

REVISIONS

NO.	DATE	ID	DESCRIPTION
A	2020/04/17		FOR INFORMATION
B	2020/05/07		FOR INFORMATION
C	2020/05/21		FOR INFORMATION

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 QUANTITY SURVEYOR

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PROJECT TITLE
 SAOA Universal Access Ramps
 Observatory
 DRAWING TITLE
 Ramp 2: New Universal Access Ramp
 WORKSTAGE PURPOSE OF DRAWING
 FOR INFORMATION

SCALE	1:50	PROJ. NO.	DWG. NO.	REV.
DRAWN	M Fourie	055	L1012	C
DATE	2020/05/21	CHECKED	GJ Roberts	

