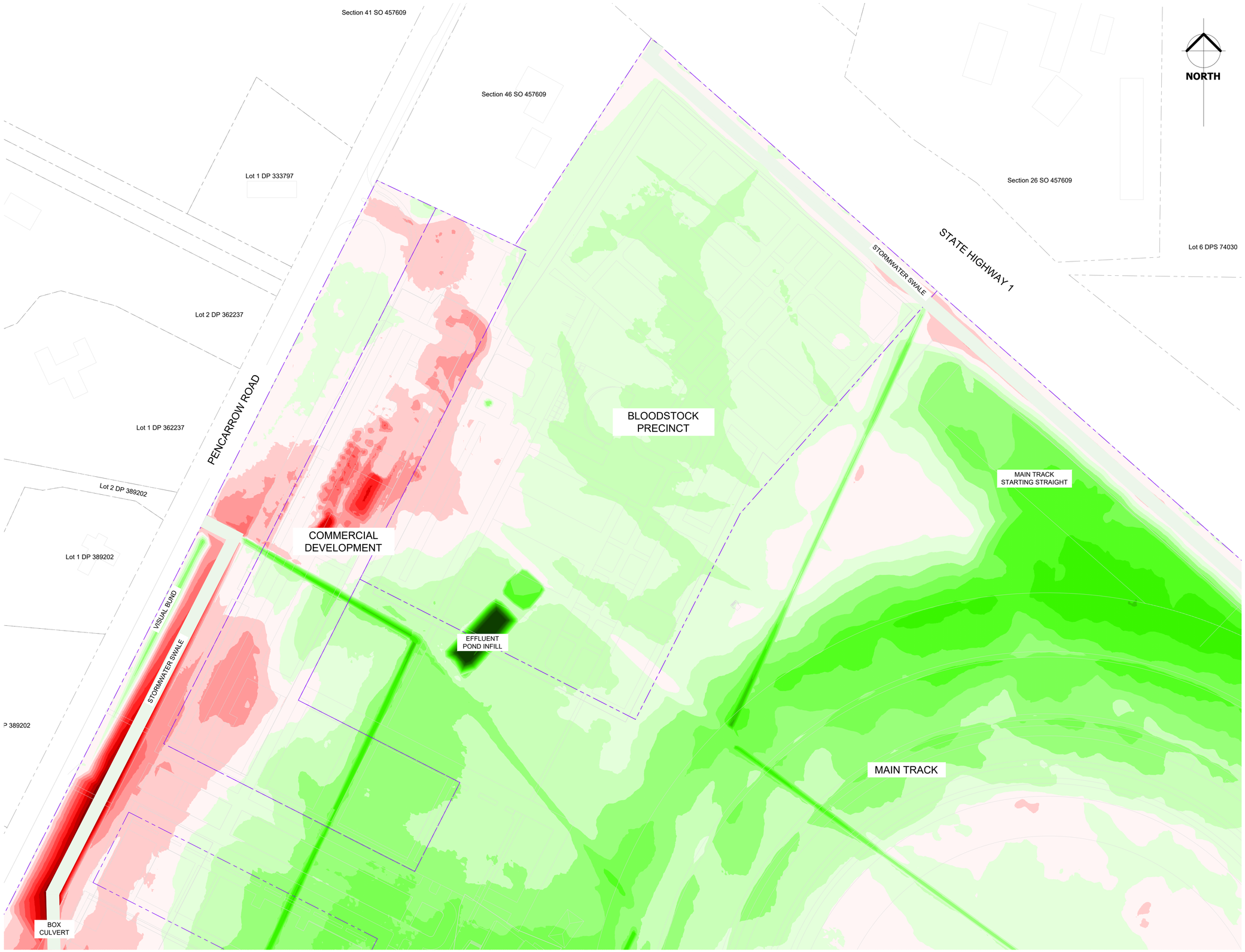


Notes:

- Plan shows required earthworks to achieve - *Proposed Subgrade* once the site has been stripped of topsoil.
  - *Proposed Subgrade* is the:
    - underside of pavement formations
      - Roads
        - Main
          - FG - 400mm
        - Trainers
          - FG - 330mm
      - Tracks
        - Main, Back & Slow
          - FG - 400mm
        - Harness Track
          - FG - 300mm
      - Structures
        - 400mm below indicative FFLs
      - Everywhere else (parking areas, green space etc)
        - 400mm below FG to account for topsoil spreading & carpark build-up
- Area within the Backtrack remains untouched
- Colour bands depict 0.5m depths
- Any site won material to be used as Fill is to be approved by a Geotechnical Engineer
- To be read in conjunction with BCD Group Geotechnical Assessment Report

Earthworks Summary

- Affected Area
  - 1,454,675m^2
- Topsoil
  - Modelled it as being 350mm deep
  - 514,317m^3
- Cut
  - 401,977m^3
  - Max depth
    - ~5.9m
- Fill
  - 532,166m^3
  - Max depth
    - ~6.7m (infill of effluent ponds)

Note: Volumes are indicative only, as they are solid measure, and do not take in to consideration:
- *service trenching;*
- *temporary site works; or*
- *additional excavation following discovery of unsuitable material.*

Surface Analysis: Elevation Ranges

Number	Colour	Min Elevation (m)	Max Elevation (m)
1		-5.00	-4.50
2		-4.50	-4.00
3		-4.00	-3.50
4		-3.50	-3.00
5		-3.00	-2.50
6		-2.50	-2.00
7		-2.00	-1.50
8		-1.50	-1.00
9		-1.00	-0.50
10		-0.50	0.00
11		0.00	0.50
12		0.50	1.00
13		1.00	1.50
14		1.50	2.00
15		2.00	2.50
16		2.50	3.00
17		3.00	3.50
18		3.50	4.00
19		4.00	4.50
20		4.50	5.00
21		5.00	5.50
22		5.50	6.00
23		6.00	6.50
24		6.50	7.00
25		7.00	7.50

Client: WAIKATO THOROUGHBRED RACING — TE RAPA · CAMBRIDGE · WAIPA

Contractor

BCD GROUP

Sheet: **EARTHWORKS - BLOODSTOCK**

Project Title: **WAIKATO THOROUGHBRED RACING**

PENCARROW ROAD, TAMAHERE

Rev	Date	By	Reason
3	30-09-2026	BF	FOR CONSENT
2	16-09-2026	BF	FOR APPROVAL
1	28/08/2026	BF	FOR INFORMATION

Drawn: BF | Scale: 1:1000 | at A1

Engineer: BCD

Job No: 23-1883 | Sheet No: C-211 | Revision: 3

all dimensions to be verified on site before making any shop drawings or commencing any work.

the copyright of this drawing remains with BCD Group

Lot 1 DP 507253

Lot 3 DP 507253

Lot 1 DP 318217

Lot 6 DP 318217

Lot 1 DPS 71375

Lot 1 DP 454601

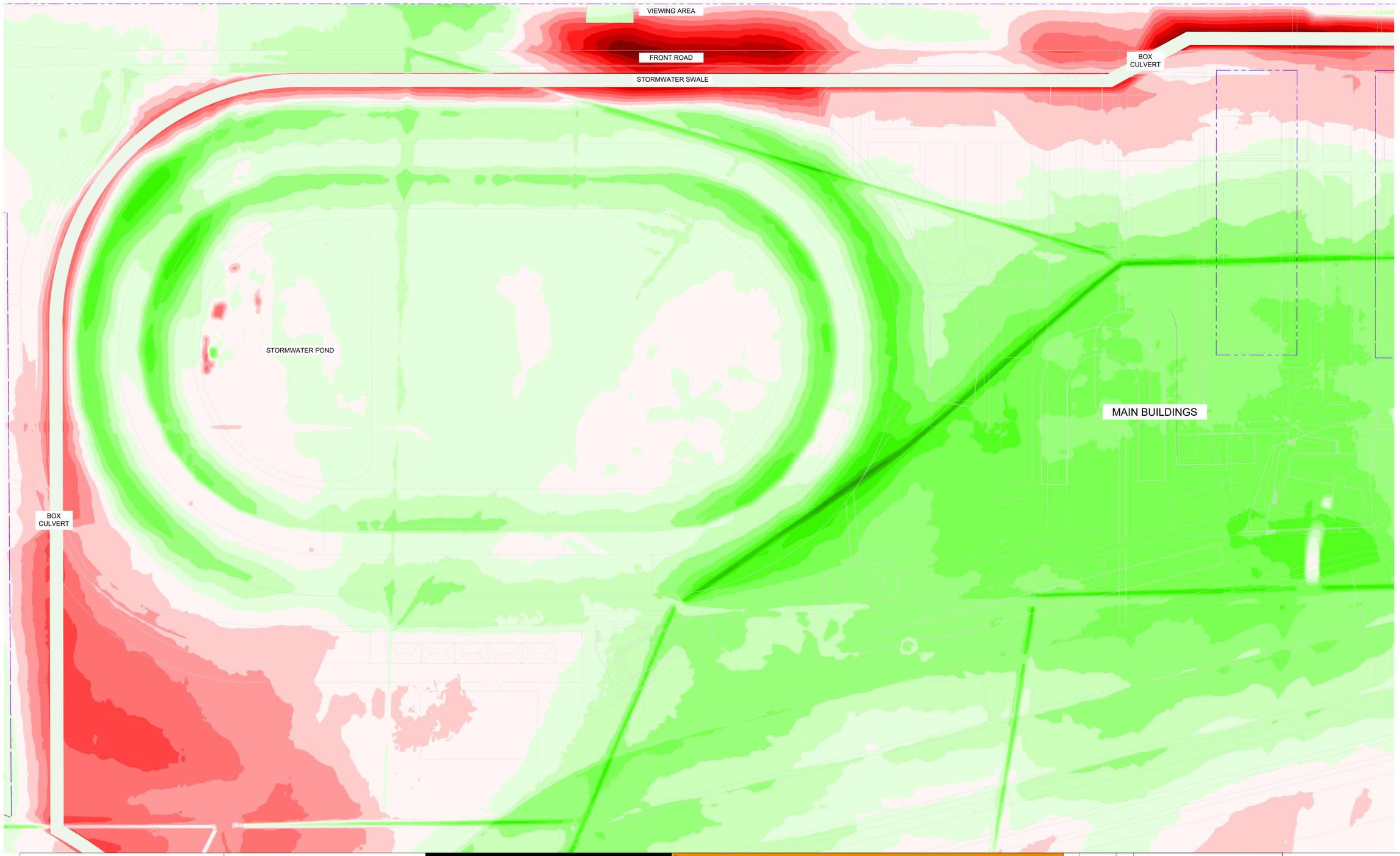
Lot 9 DPS 65399

Lot 10 DPS 65399

Lot 3 DP 389202

NORTH

PENCARROW ROAD



Client

WTR WAIKATO THOROUGHBRED RACING
TE RAPA · CAMBRIDGE · WAIPA

Contractor

BCD GROUP

Sheet

EARTHWORKS - MAIN & HARNESS

Project Title

WAIKATO THOROUGHBRED RACING

PENCARROW ROAD, TAMAHERE

Rev	Date	By	Reason
3	30-09-2026	BF	FOR CONSENT
2	16-09-2026	BF	FOR APPROVAL
1	28/08/2026	BF	FOR INFORMATION

Drawn: BF | Scale: 1:1000 at A1

Engineer: BCD

Job No: 23-1883 | Sheet No: C-212 | Revision: 3

all dimensions to be verified on site before making any shop drawings or commencing any work.

the copyright of this drawing remains with BCD Group

HARNESS TRACK

BOX CULVERT

STORMWATER SWALE

NORTH

KAHIKATEA STAND
AREA INSIDE BACKTRACK REMAINS UNTOUCHED

Lot 1 DP 327237

SENIOR LIVING
LAYOUT BY ARCHITECTS

Lot 3 DP 471383

STORMWATER POND

STORMWATER SWALE

Lot 3 DP 349601

Lot 1 DP 376943

Lot 2 DP 376943

Lot 3 DP 331688

Lot 1 DP 523185

DP 349601

Notes:

- Plan shows required earthworks to achieve - *Proposed Subgrade* once the site has been stripped of topsoil.
  - *Proposed Subgrade* is the:
    - underside of pavement formations
      - Roads
        - Main
          - FG - 400mm
        - Trainers
          - FG - 330mm
      - Tracks
        - Main, Back & Slow
          - FG - 400mm
        - Harness Track
          - FG - 300mm
      - Structures
        - 400mm below indicative FFLs
      - Everywhere else (parking areas, green space etc)
        - 400mm below FG to account for topsoil spreading & carpark build-up
- Area within the Backtrack remains untouched
- Colour bands depict 0.5m depths
- Any site won material to be used as Fill is to be approved by a Geotechnical Engineer
- To be read in conjunction with BCD Group Geotechnical Assessment Report

Earthworks Summary

- Affected Area
  - 1,454,675m^2
- Topsoil
  - Modelled it as being 350mm deep
  - 514,317m^3
- Cut
  - 401,977m^3
  - Max depth
    - ~5.9m
- Fill
  - 532,166m^3
  - Max depth
    - ~6.7m (infill of effluent ponds)

Note: Volumes are indicative only, as they are solid measure, and do not take in to consideration:
- *service trenching;*
- *temporary site works; or*
- *additional excavation following discovery of unsuitable material.*

Surface Analysis: Elevation Ranges

Number	Colour	Min Elevation (m)	Max Elevation (m)
1		-5.00	-4.50
2		-4.50	-4.00
3		-4.00	-3.50
4		-3.50	-3.00
5		-3.00	-2.50
6		-2.50	-2.00
7		-2.00	-1.50
8		-1.50	-1.00
9		-1.00	-0.50
10		-0.50	0.00
11		0.00	0.50
12		0.50	1.00
13		1.00	1.50
14		1.50	2.00
15		2.00	2.50
16		2.50	3.00
17		3.00	3.50
18		3.50	4.00
19		4.00	4.50
20		4.50	5.00
21		5.00	5.50
22		5.50	6.00
23		6.00	6.50
24		6.50	7.00
25		7.00	7.50

Client: WTR WAIKATO THOROUGHBRED RACING TE RAPA · CAMBRIDGE · WAIPA

Contractor

BCD GROUP

Sheet: **EARTHWORKS - SENIOR LIVING**

Project Title: **WAIKATO THOROUGHBRED RACING**

PENCARROW ROAD, TAMAHERE

Rev	Date	By	Reason
3	30-09-2026	BF	FOR CONSENT
2	16-09-2026	BF	FOR APPROVAL
1	28/08/2026	BF	FOR INFORMATION

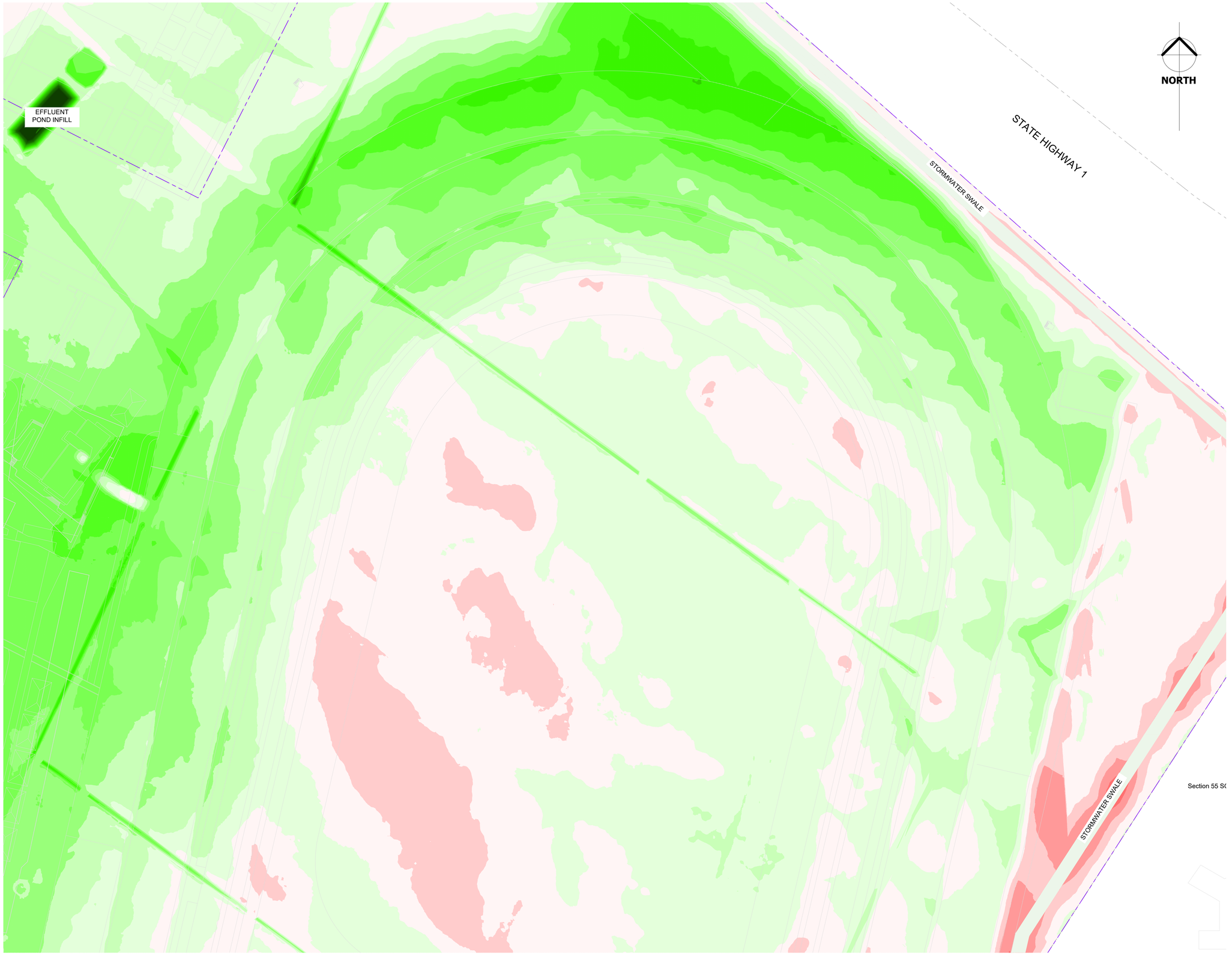
Drawn: BF | Scale: 1:1000 | at A1

Engineer: BCD

Job No: 23-1883 | Sheet No: C-213 | Revision: 3

all dimensions to be verified on site before making any shop drawings or commencing any work.

the copyright of this drawing remains with BCD Group



Notes:

- Plan shows required earthworks to achieve - *Proposed Subgrade* once the site has been stripped of topsoil.
  - *Proposed Subgrade* is the:
    - underside of pavement formations
      - Roads
        - Main
          - FG - 400mm
        - Trainers
          - FG - 330mm
      - Tracks
        - Main, Back & Slow
          - FG - 400mm
        - Harness Track
          - FG - 300mm
      - Structures
        - 400mm below indicative FFLs
      - Everywhere else (parking areas, green space etc)
        - 400mm below FG to account for topsoil spreading & carpark build-up
- Area within the Backtrack remains untouched
- Colour bands depict 0.5m depths
- Any site won material to be used as Fill is to be approved by a Geotechnical Engineer
- To be read in conjunction with BCD Group Geotechnical Assessment Report

Earthworks Summary

- Affected Area
  - 1,454,675m^2
- Topsoil
  - Modelled it as being 350mm deep
  - 514,317m^3
- Cut
  - 401,977m^3
  - Max depth
    - ~5.9m
- Fill
  - 532,166m^3
  - Max depth
    - ~6.7m (infill of effluent ponds)

Note: Volumes are indicative only, as they are solid measure, and do not take in to consideration:
- *service trenching;*
- *temporary site works; or*
- *additional excavation following discovery of unsuitable material.*

Surface Analysis: Elevation Ranges			
Number	Colour	Min Elevation (m)	Max Elevation (m)
1		-5.00	-4.50
2		-4.50	-4.00
3		-4.00	-3.50
4		-3.50	-3.00
5		-3.00	-2.50
6		-2.50	-2.00
7		-2.00	-1.50
8		-1.50	-1.00
9		-1.00	-0.50
10		-0.50	0.00
11		0.00	0.50
12		0.50	1.00
13		1.00	1.50
14		1.50	2.00
15		2.00	2.50
16		2.50	3.00
17		3.00	3.50
18		3.50	4.00
19		4.00	4.50
20		4.50	5.00
21		5.00	5.50
22		5.50	6.00
23		6.00	6.50
24		6.50	7.00
25		7.00	7.50

Client: WAIKATO THOROUGHBRED RACING — TE RAPA · CAMBRIDGE · WAIPA

Contractor

BCD GROUP

Sheet: **EARTHWORKS - MAIN TRACK (NORTH)**

Project Title: **WAIKATO THOROUGHBRED RACING**

PENCARROW ROAD, TAMAHERE

Rev	Date	By	Reason
3	30-09-2026	BF	FOR CONSENT
2	16-09-2026	BF	FOR APPROVAL
1	28/08/2026	BF	FOR INFORMATION

Drawn: BF — Scale: 1:1000 — at A1

Engineer: BCD

Job No: 23-1883 — Sheet No: C-214 — Revision: 3

all dimensions to be verified on site before making any shop drawings or commencing any work.

the copyright of this drawing remains with BCD Group