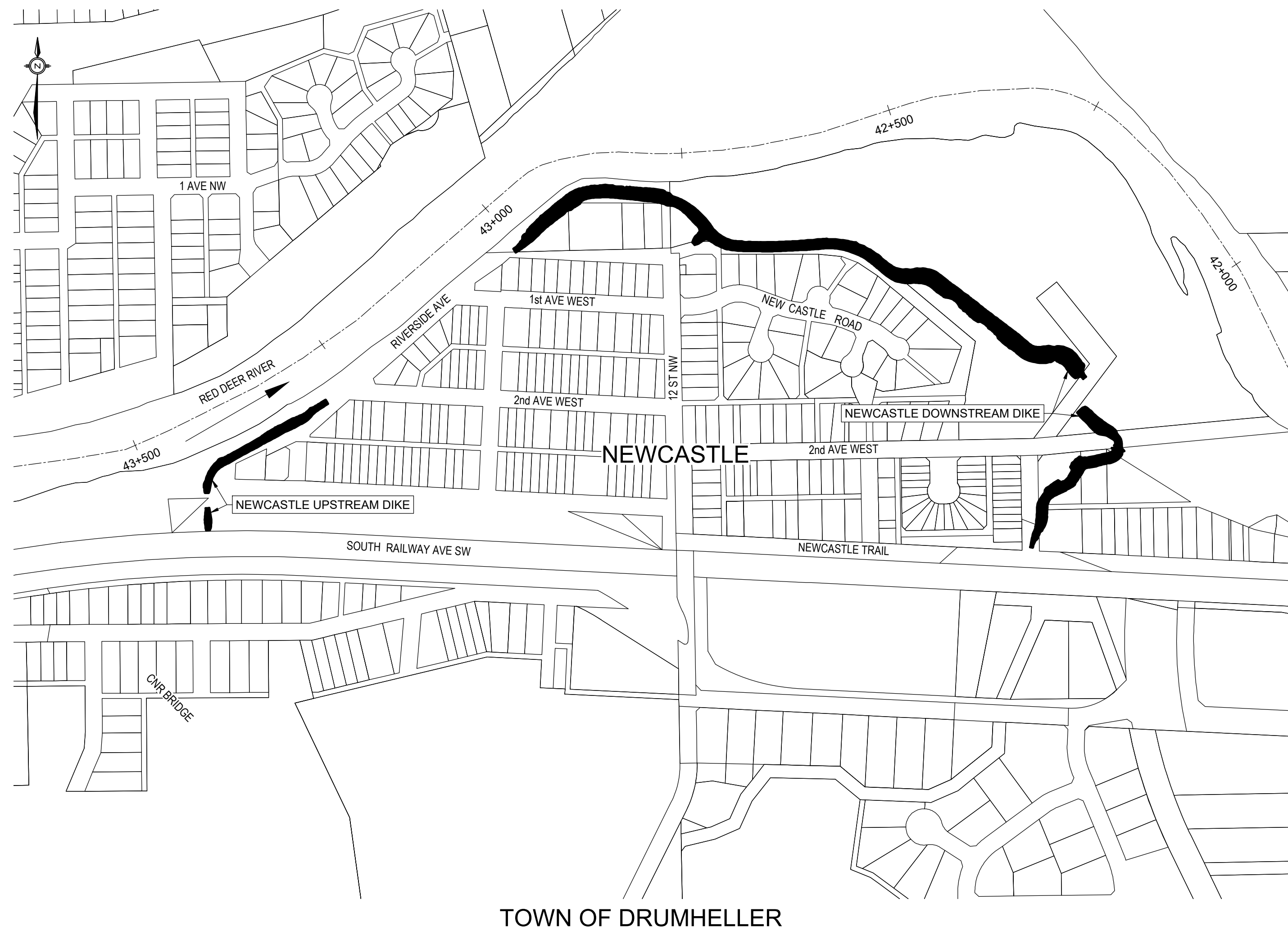
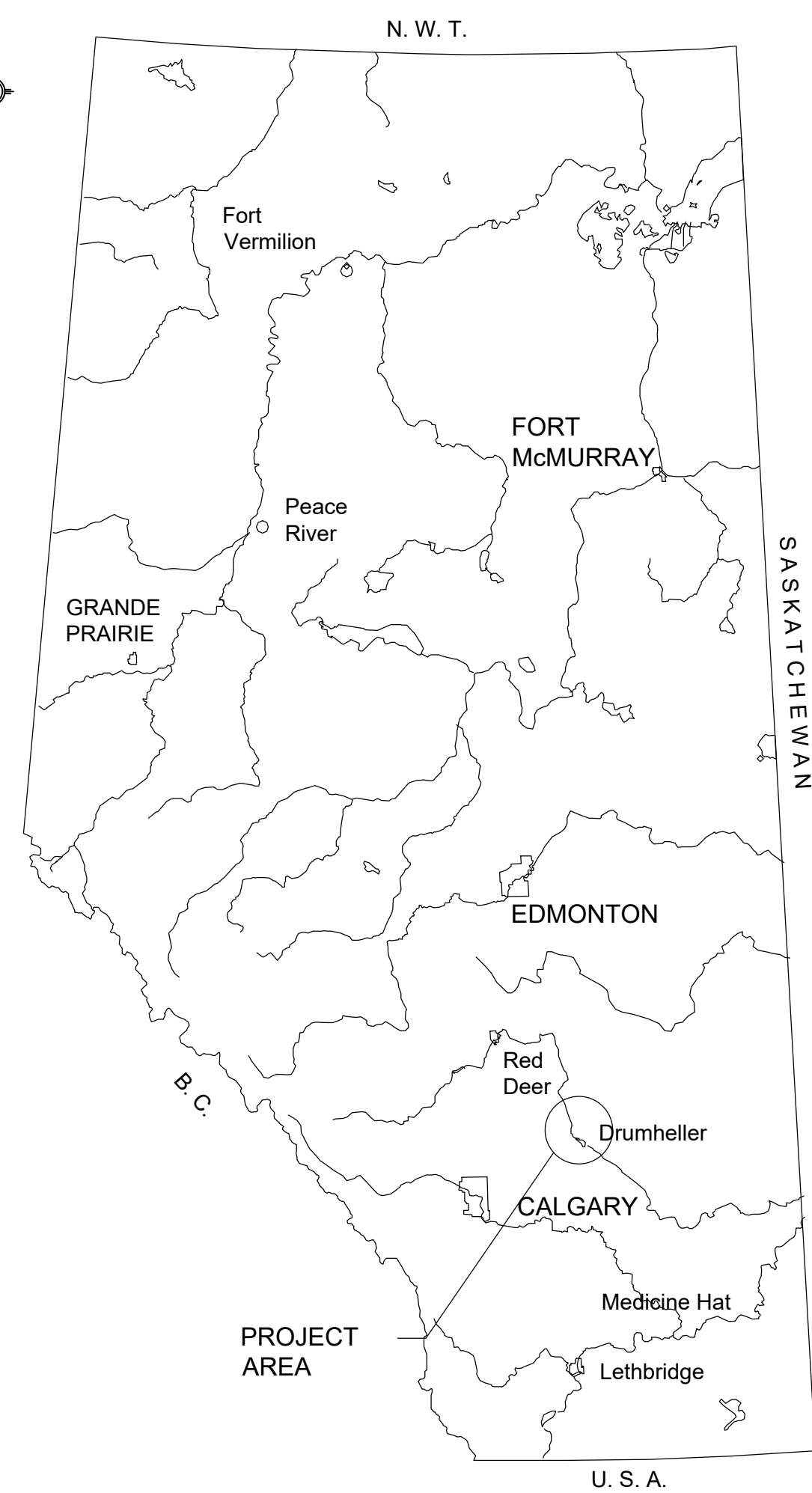


# DRUMHELLER RESILIENCY & FLOOD MITIGATION OFFICE NEWCASTLE PROJECT FLOOD PROTECTION DIKE REHABILITATION ISSUED FOR TENDER

TENDER No. : 22.06.20B

## DRAWING INDEX

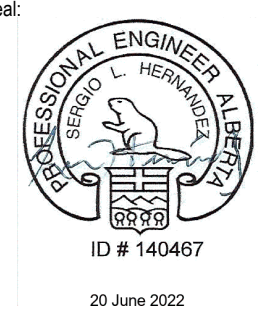
SHEET #	SHEET TITLE
G-001	COVER SHEET, LOCATION PLAN AND DRAWING INDEX
G-002	LEGEND, NOTES AND SURVEY CONTROL
C-101	GENERAL ARRANGEMENT PLAN AND PROJECT SITE LIMITS
C-102	UPSTREAM PLAN AND PROFILE - STA 3+000 TO 3+250
C-103	DOWNSTREAM PLAN AND PROFILE - STA 4+000 TO 4+350
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C-503	VEHICLE ACCESS CONTROL GATE



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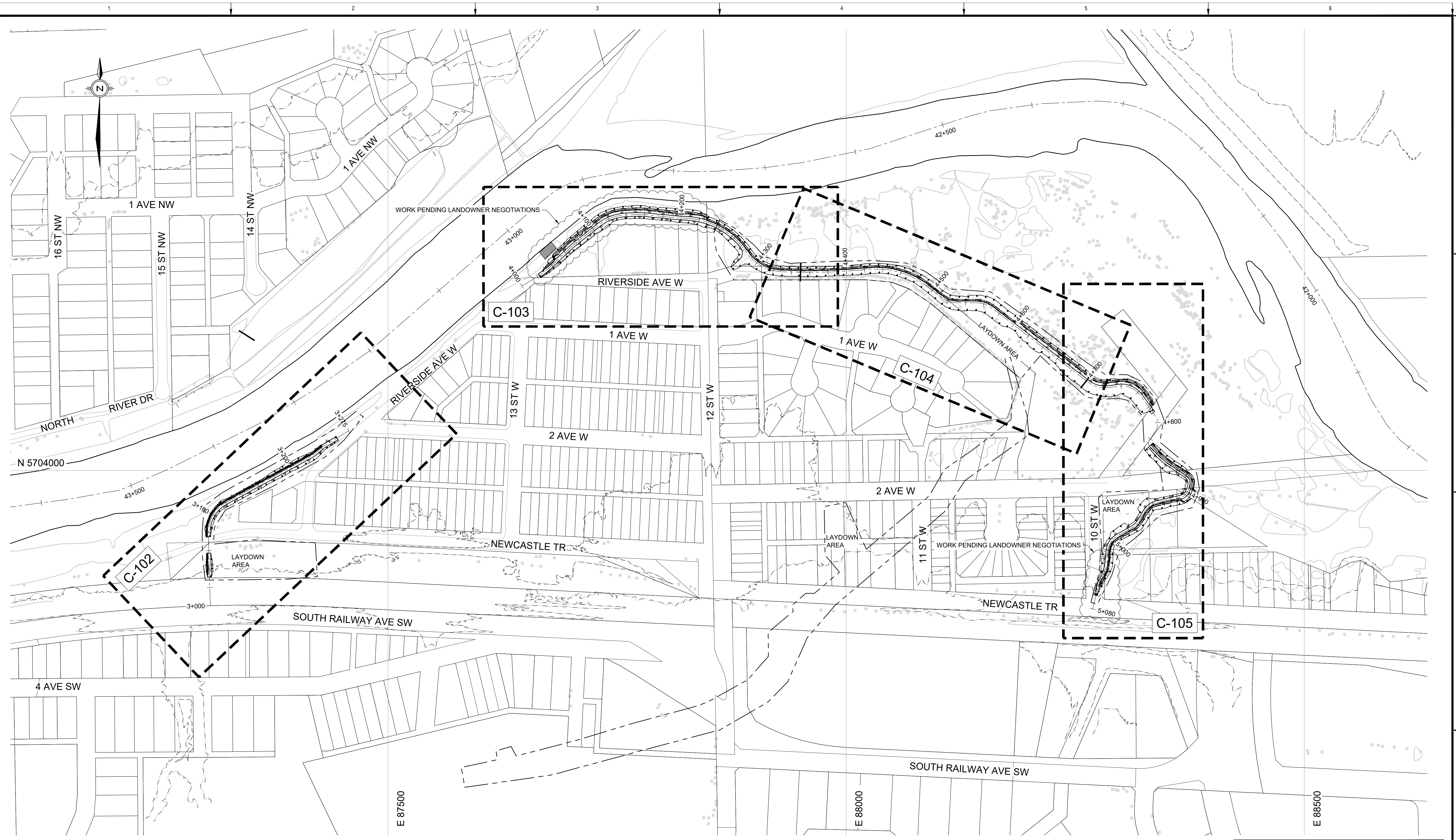
**DRUMHELLER RESILIENCY & FLOOD MITIGATION OFFICE  
NEWCASTLE PROJECT**

**COVER SHEET, LOCATION PLAN AND DRAWING INDEX**

Project No. **22.06.20B** Drawing No. **G-001** Rev. **A**  
 Group **GENERAL**



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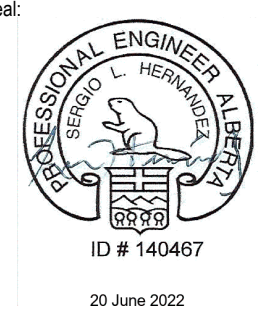


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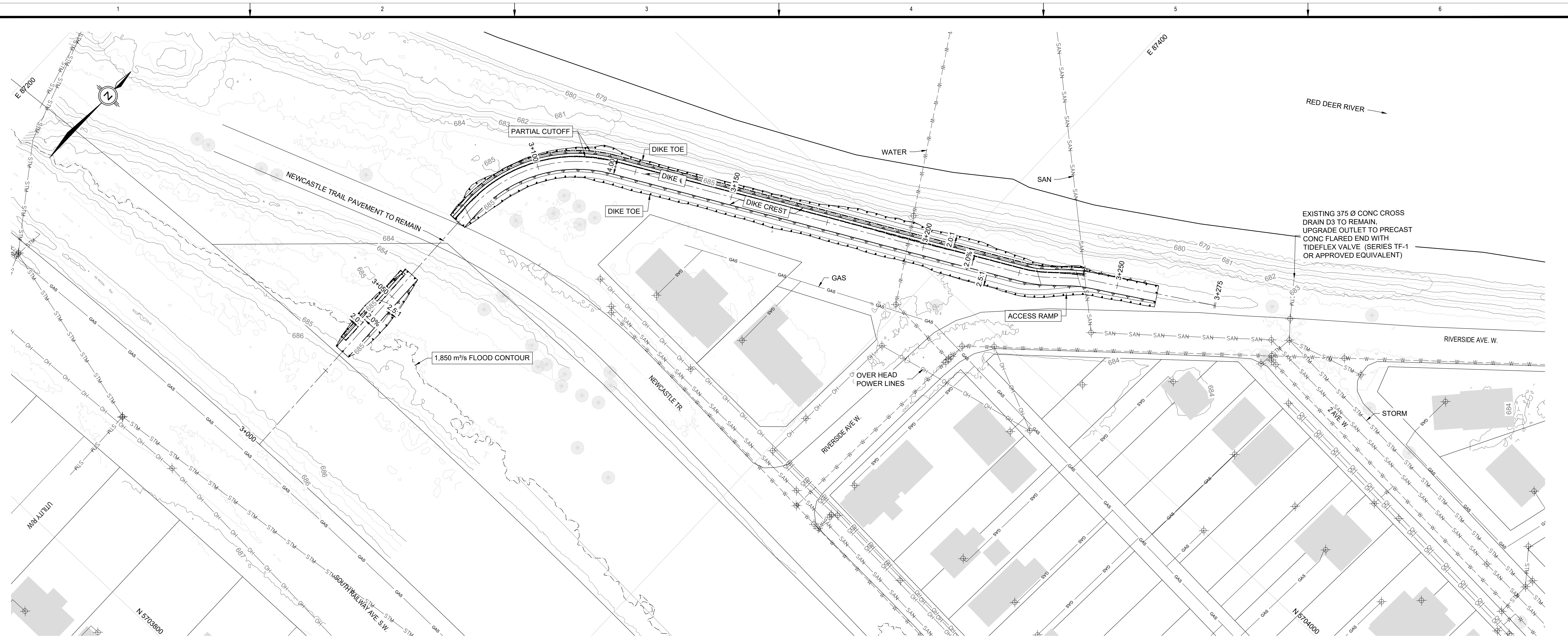
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**NEWCASTLE PROJECT**

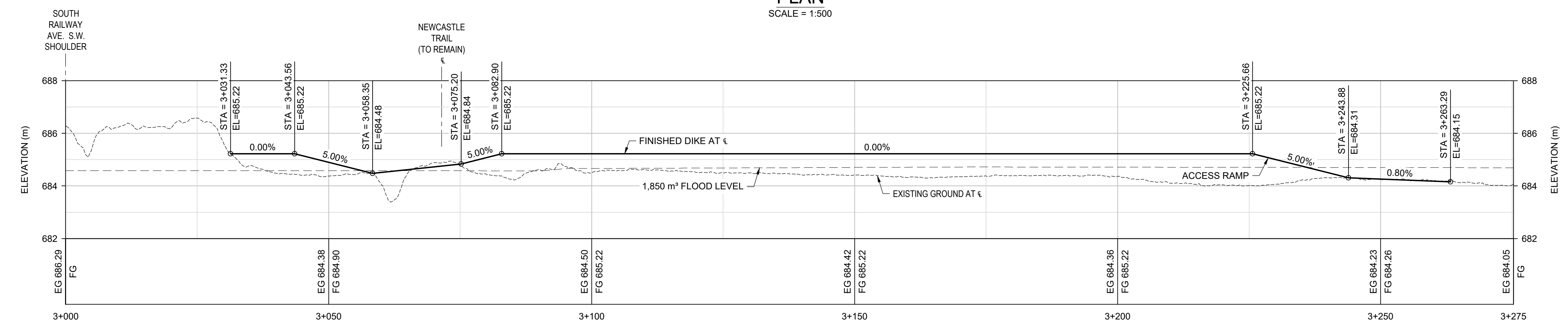
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Project No. **22.06.20B** Drawing No. **C-101** Rev. **A**  
Group **CIVIL**

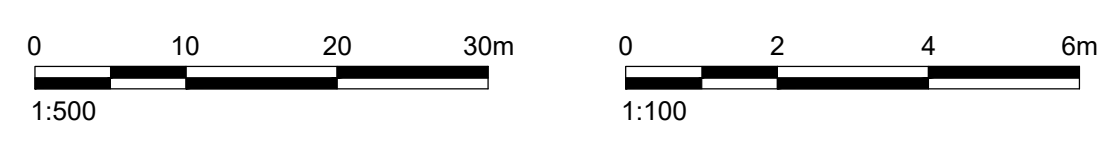
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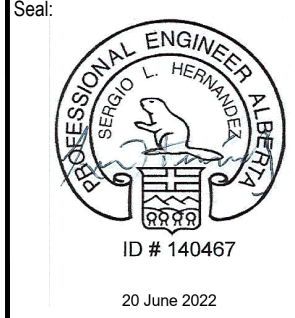


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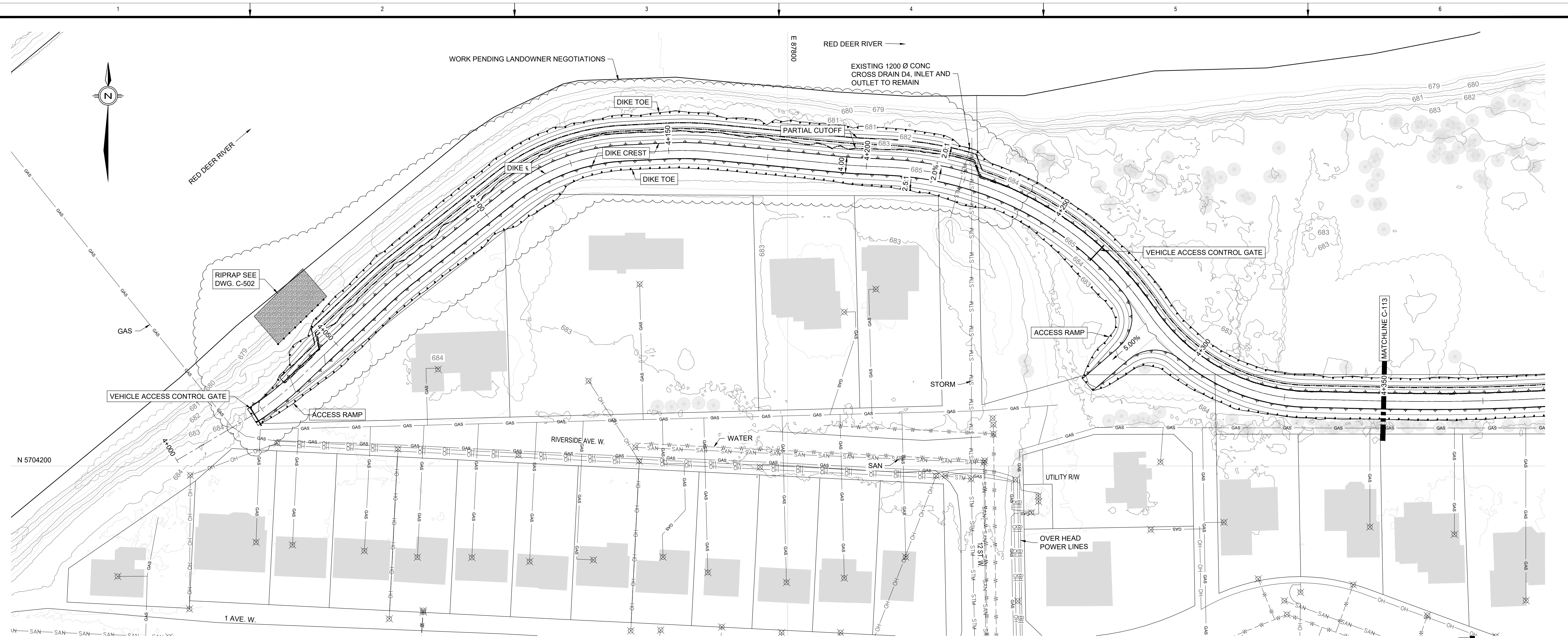
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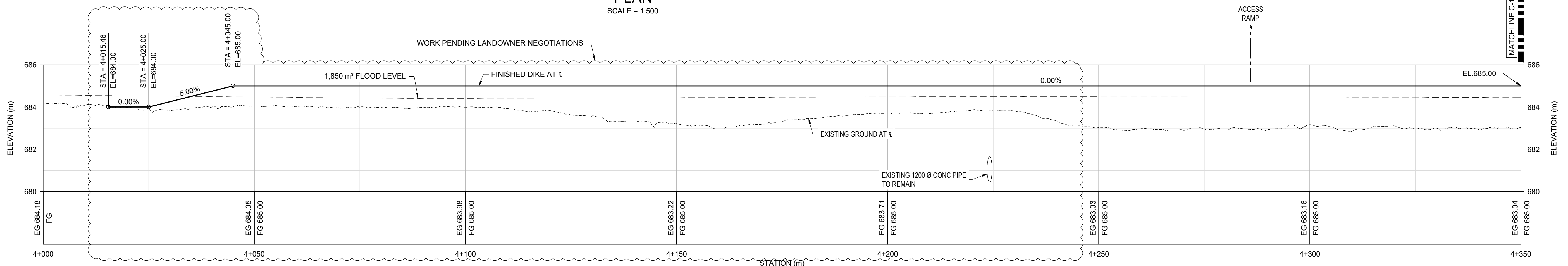
**UPSTREAM**  
**PLAN AND PROFILE**  
**STA 3+000 TO 3+250**

Project No. **22.06.20B** Drawing No. **C-102** Rev. **A**  
Group **CIVIL**

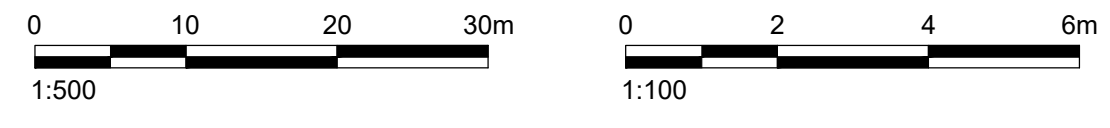
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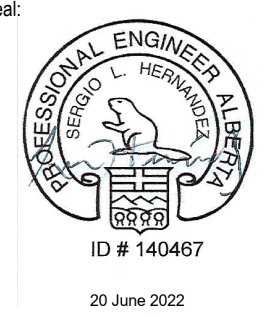


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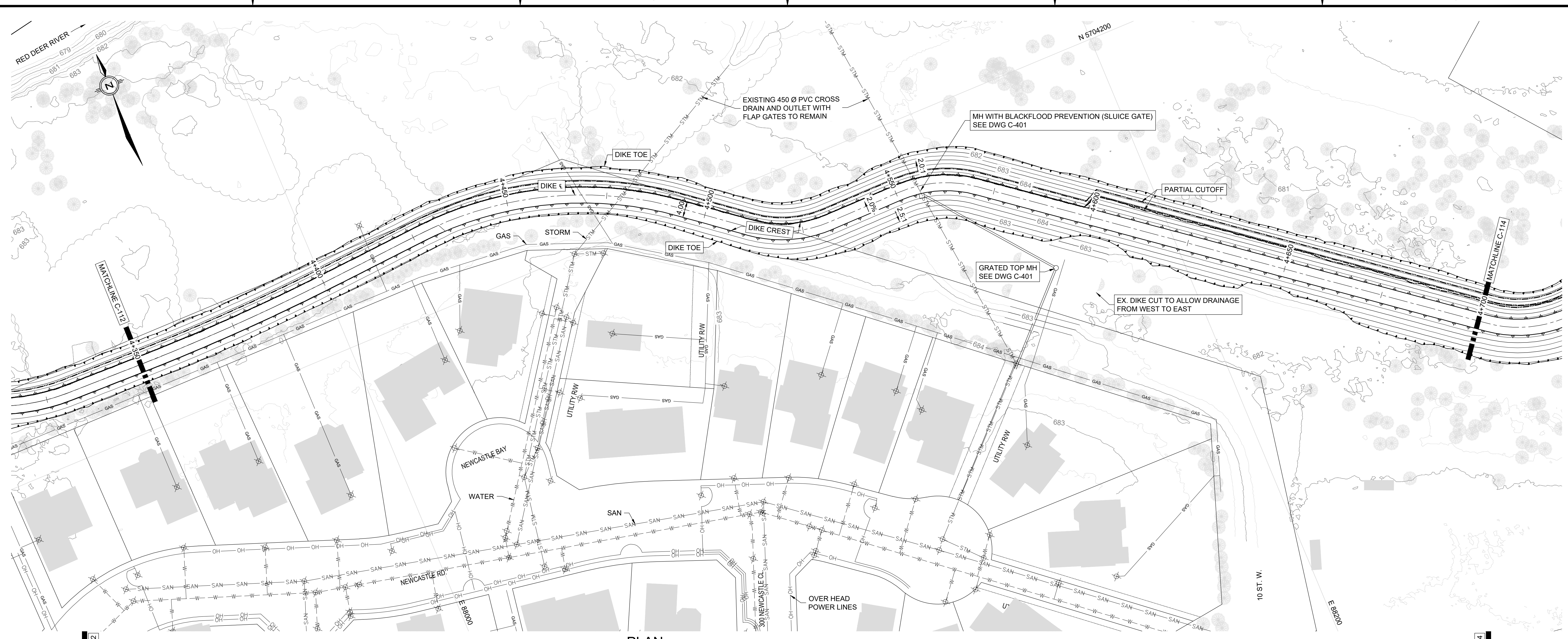
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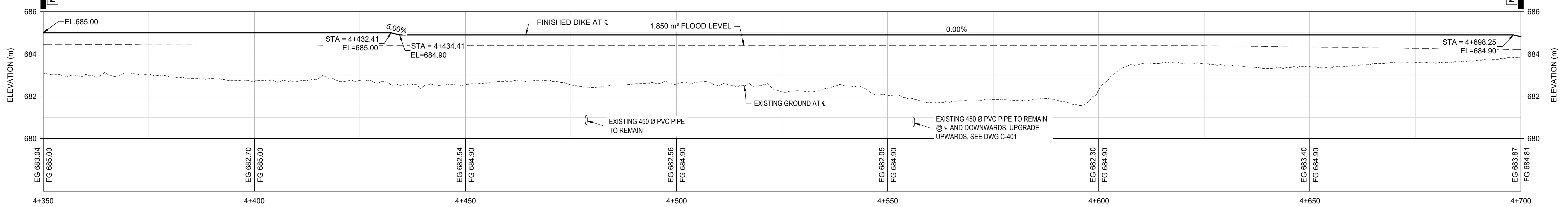
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**DRUMHELLER RESILIENCY & FLOOD MITIGATION OFFICE**  
**NEWCASTLE PROJECT**  
**DOWNSTREAM**  
**PLAN AND PROFILE**  
**STA 4+000 TO 4+350**  
Project No. **22.06.20B** Drawing No. **C-103** Rev. **A**  
Group **CIVIL**

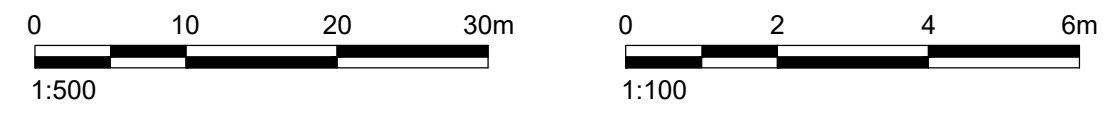
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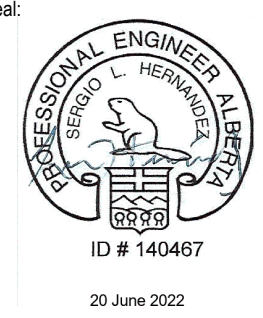


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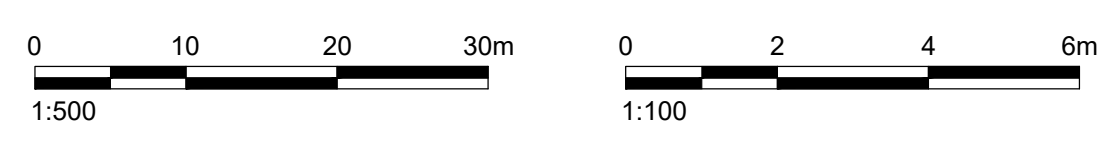
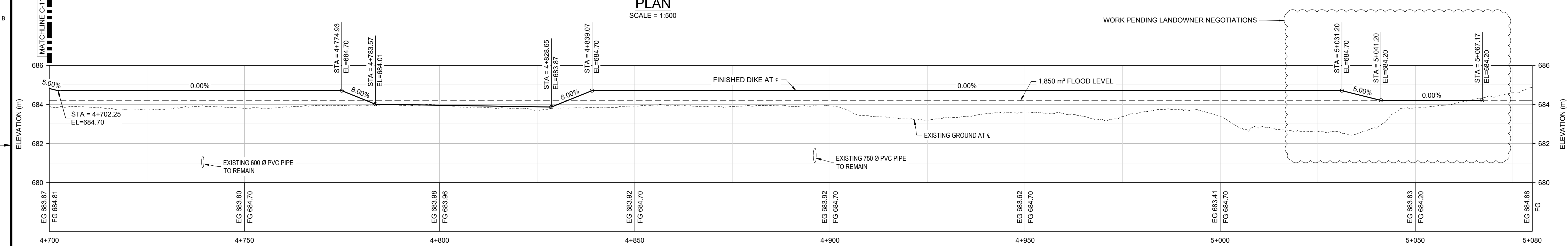
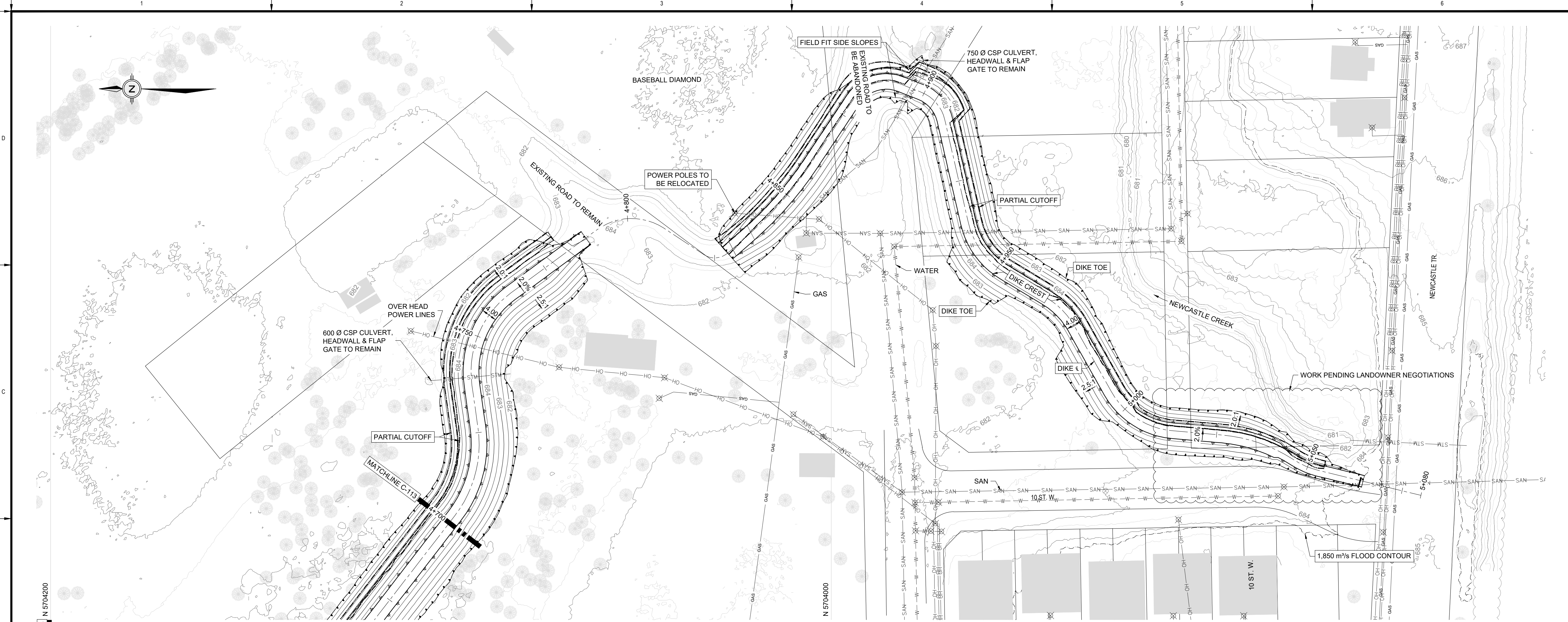
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**NEWCASTLE PROJECT**  
**DOWNSTREAM**  
**PLAN AND PROFILE**  
**STA 4+350 TO 4+700**  
Project No. **22.06.20B** Drawing No. **C-104** Rev. **A**  
Group **CIVIL**

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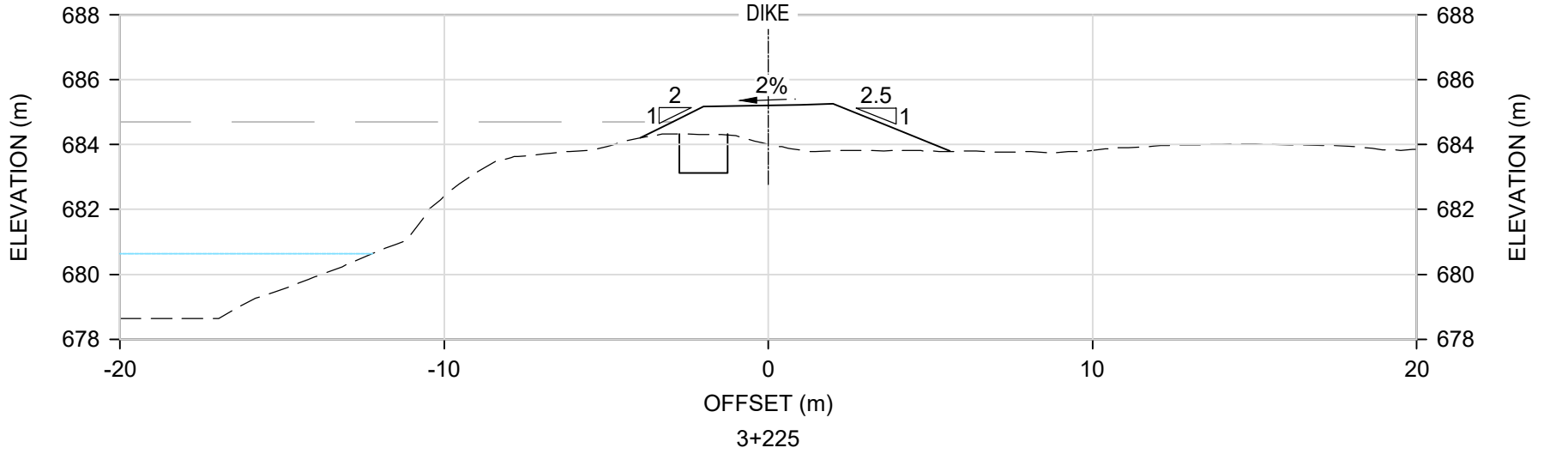
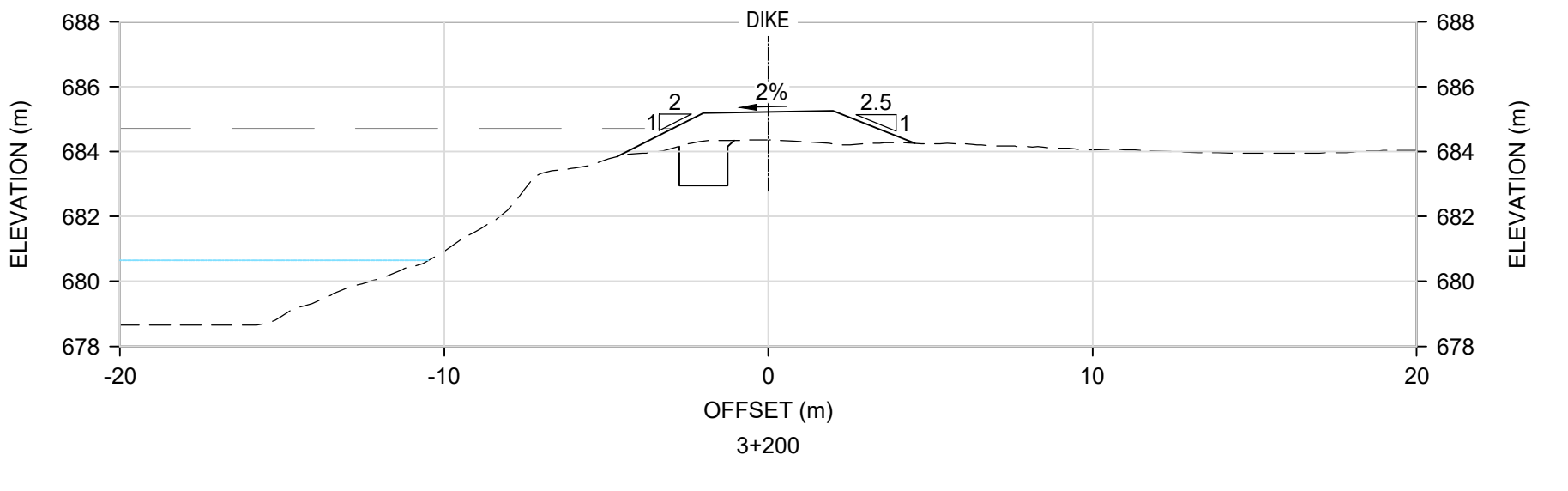
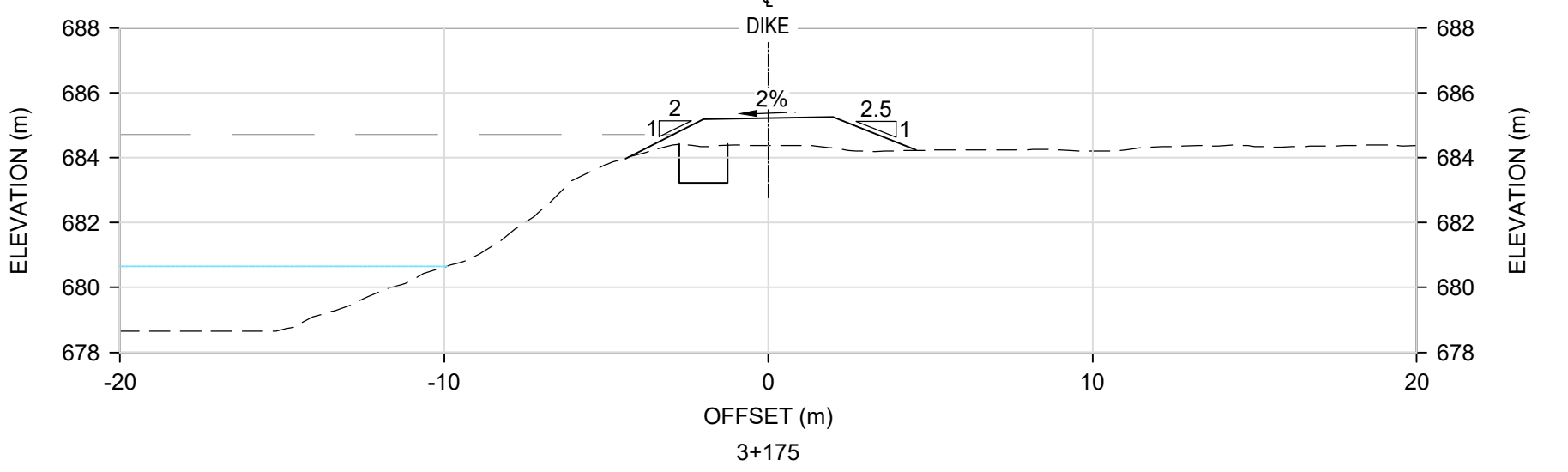
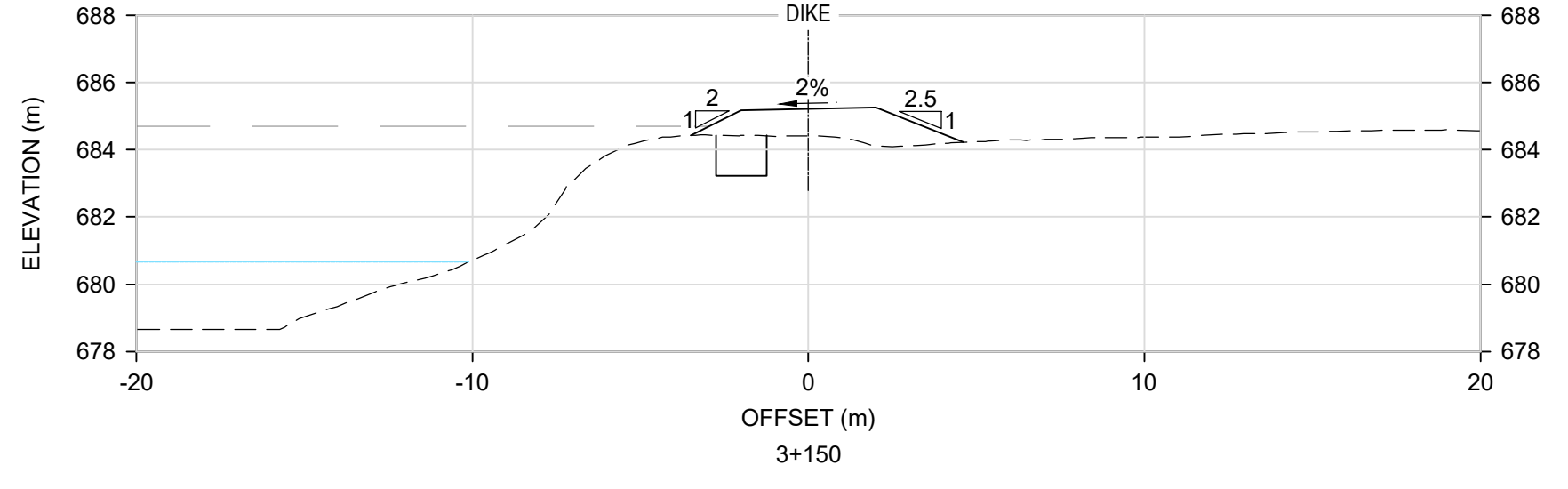
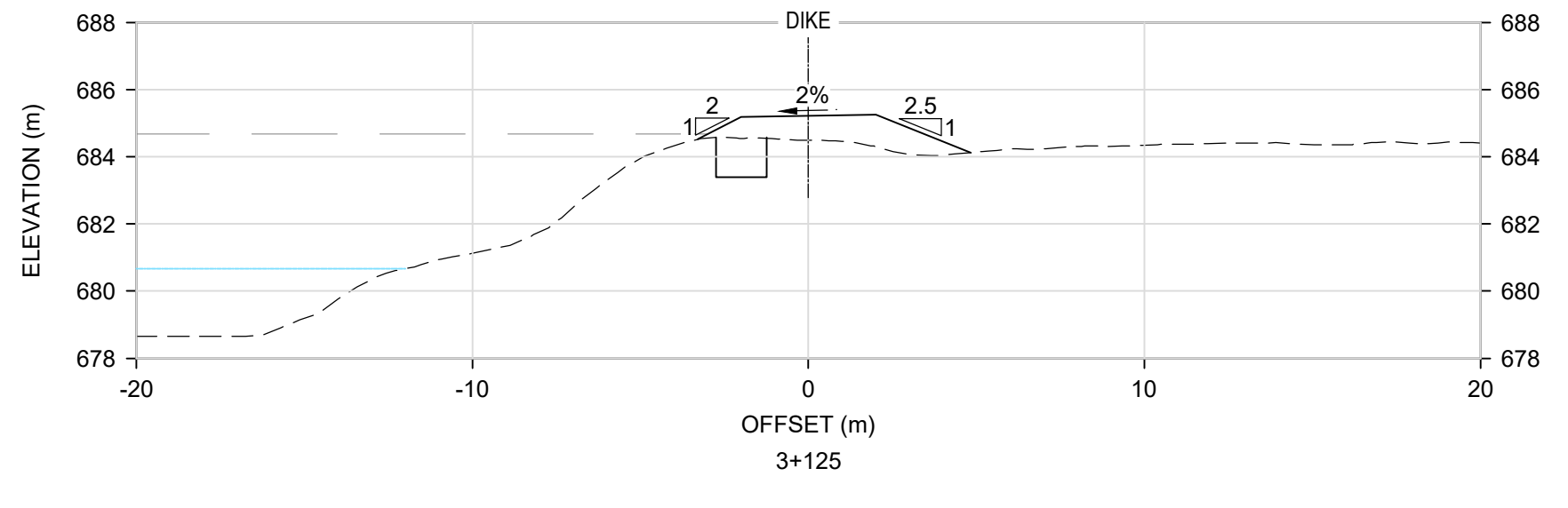
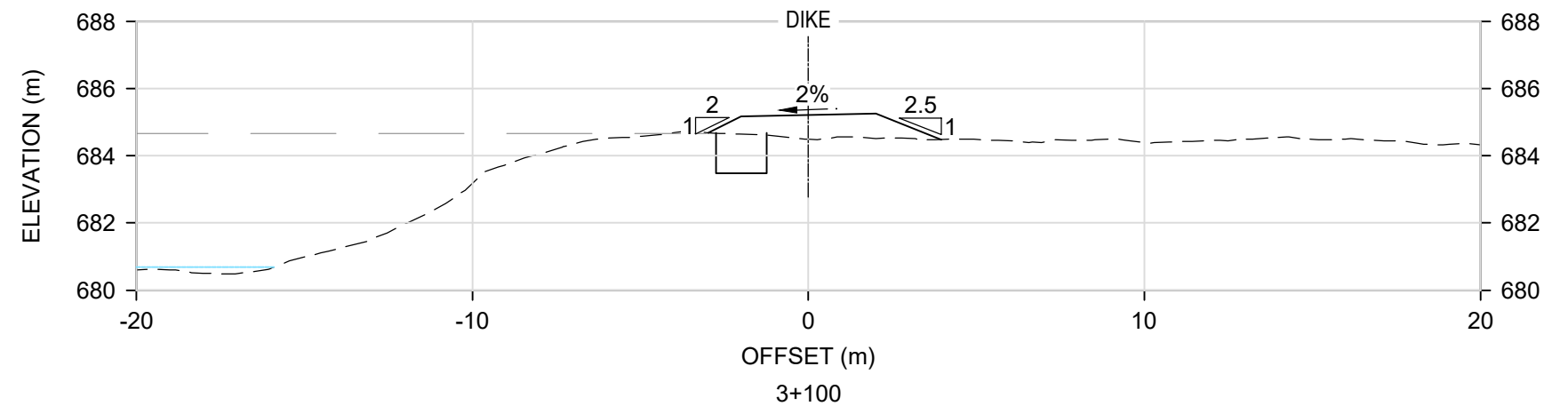
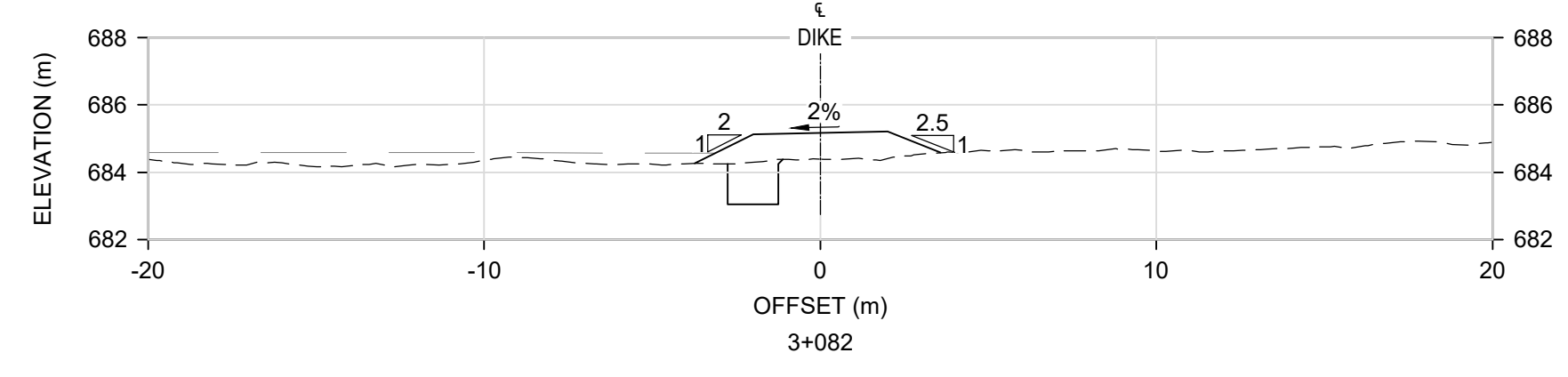
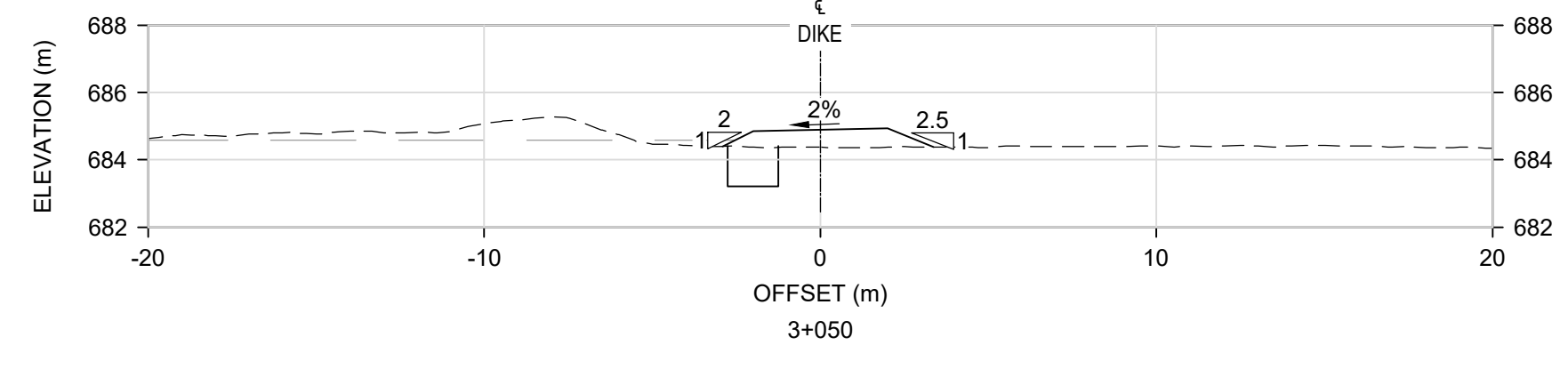
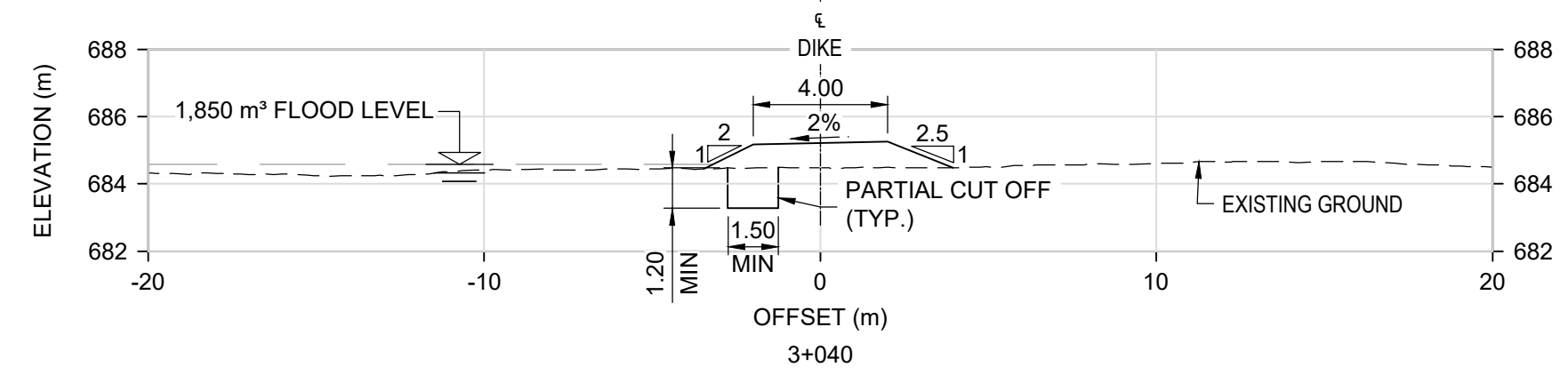
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**NEWCASTLE PROJECT**

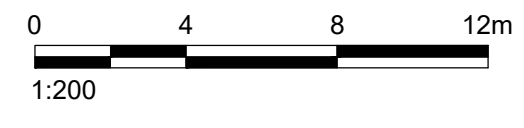
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**STA 4+350 TO 5+067**

Project No. **22.06.20B** Drawing No. **C-105** Rev. **A**  
 Group **CIVIL**

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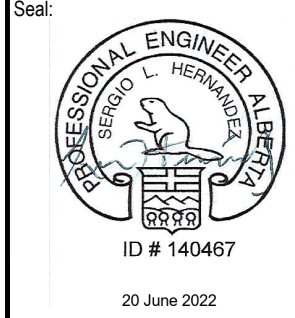


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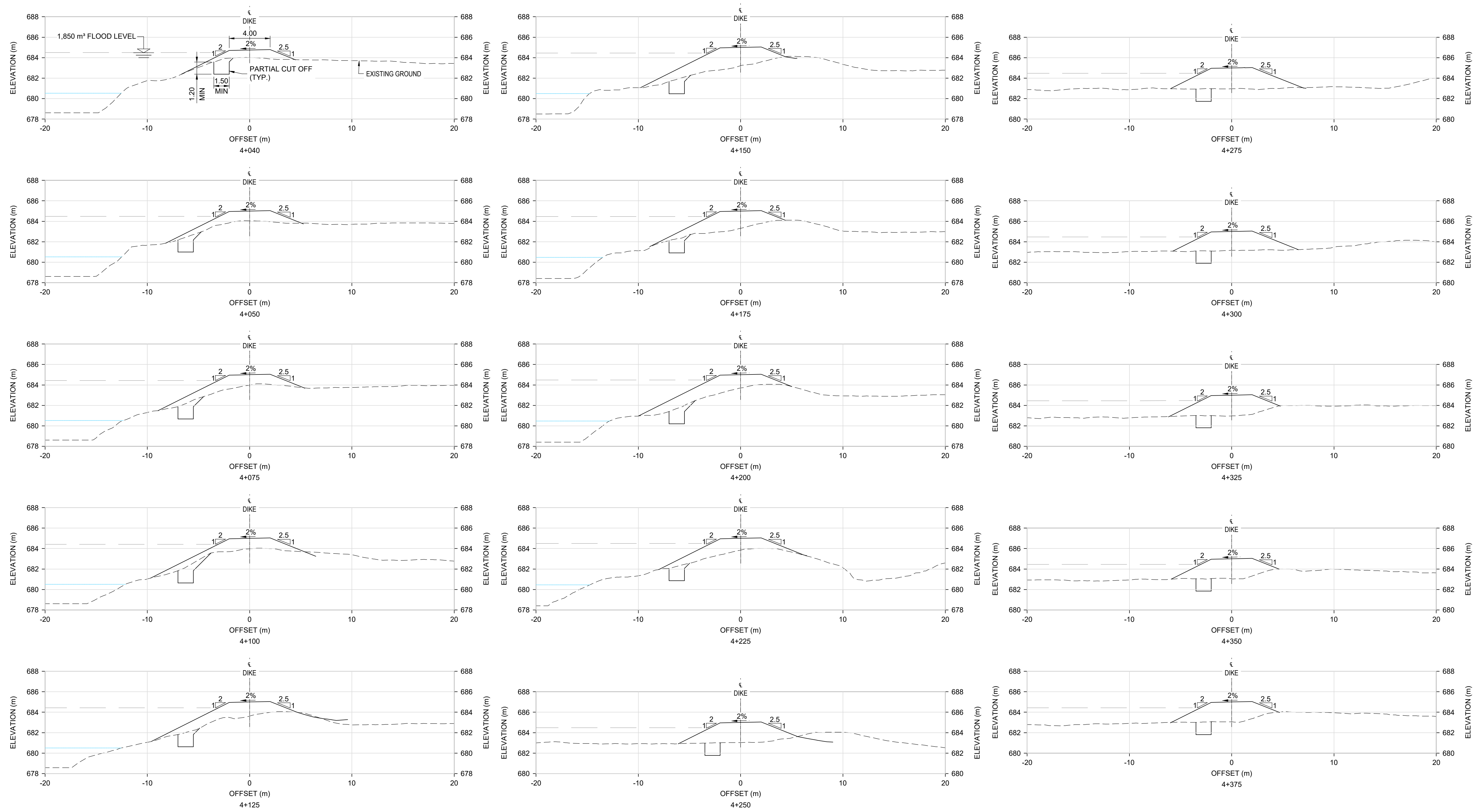
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**NEWCASTLE PROJECT**  
**UPSTREAM SECTIONS**  
**1 OF 1**  
 Project No. **22.06.20B**  
 Group **CIVIL**  
 Drawing No. **C-301**  
 Rev. **A**



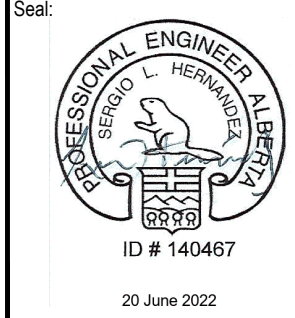
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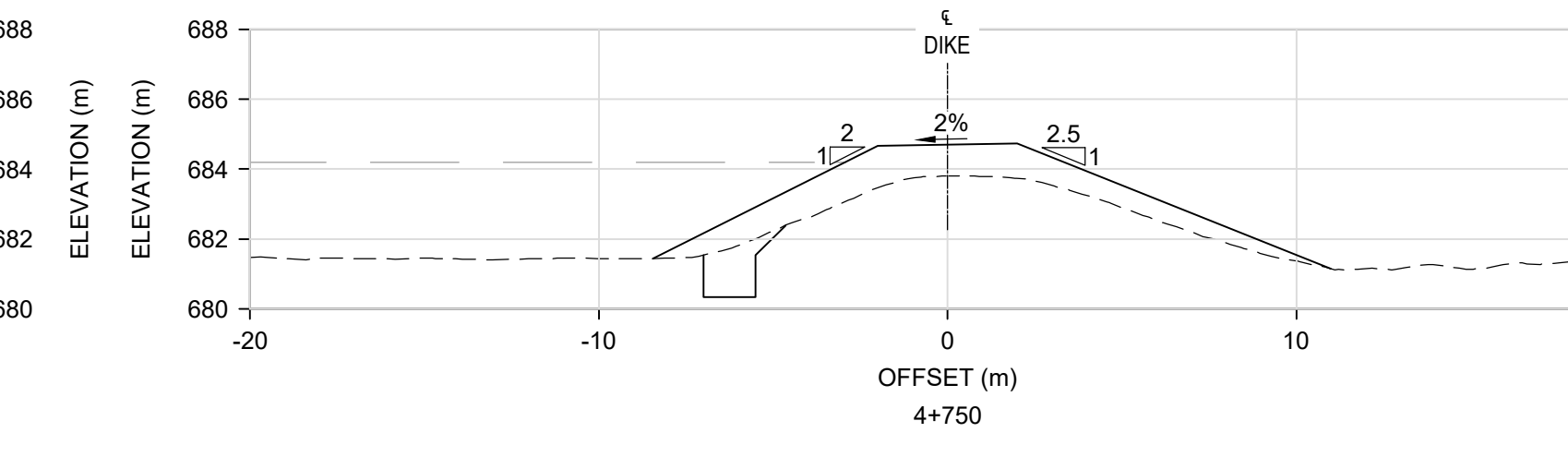
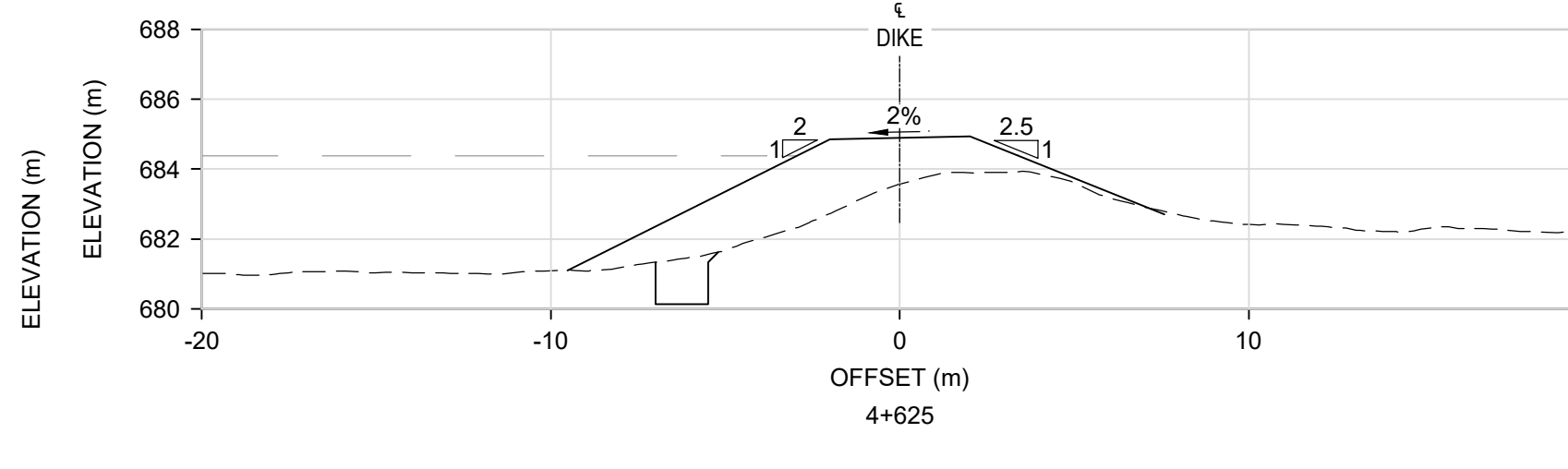
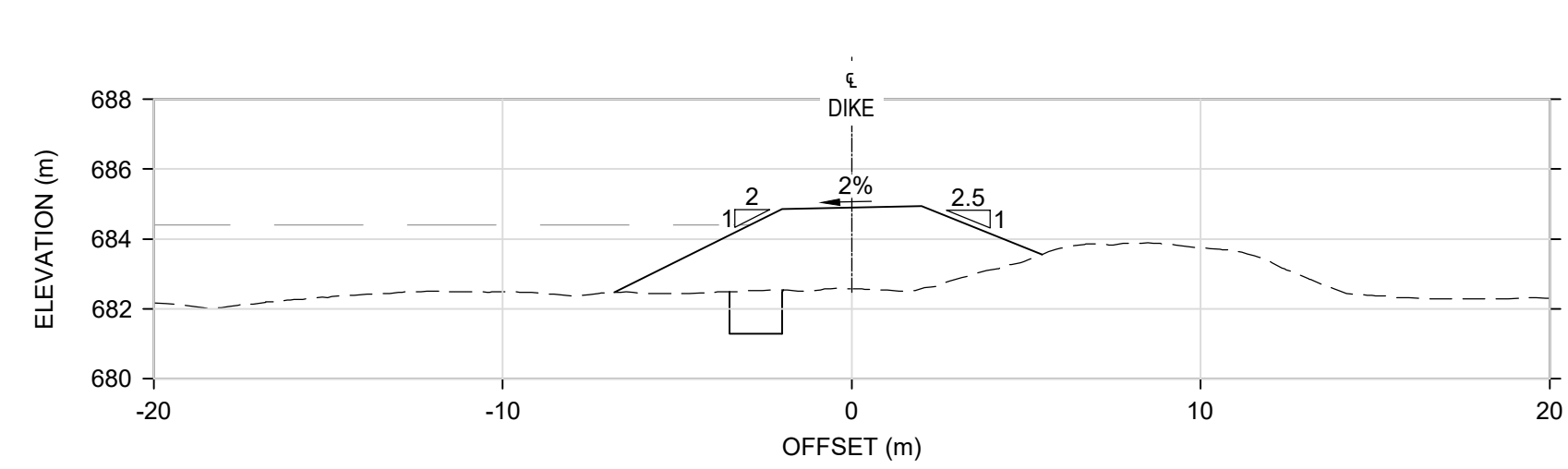
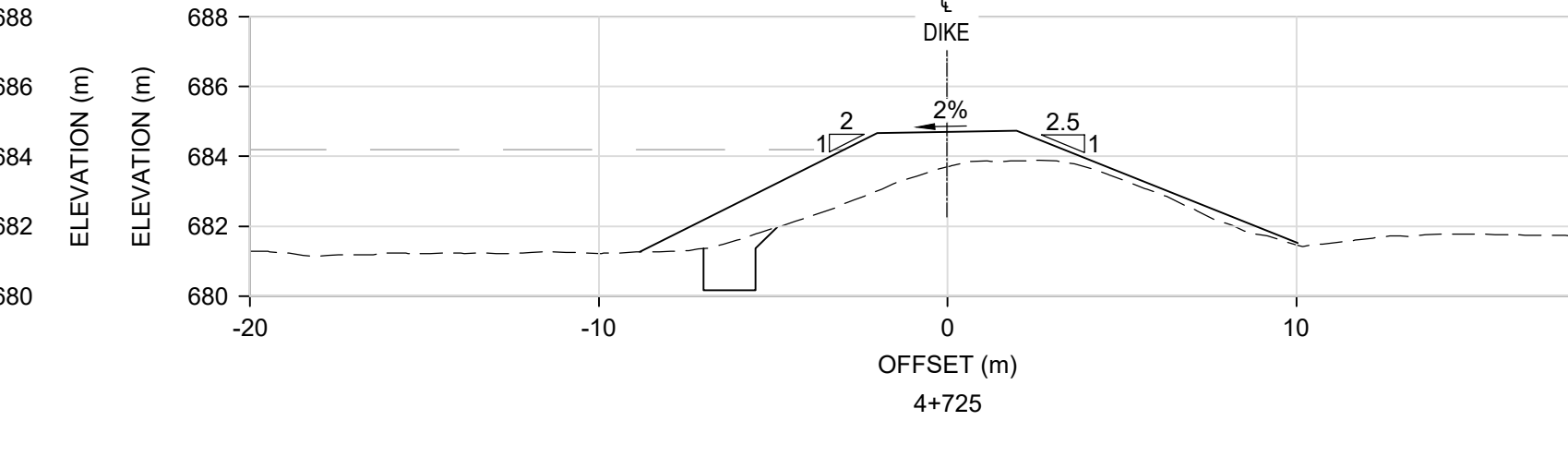
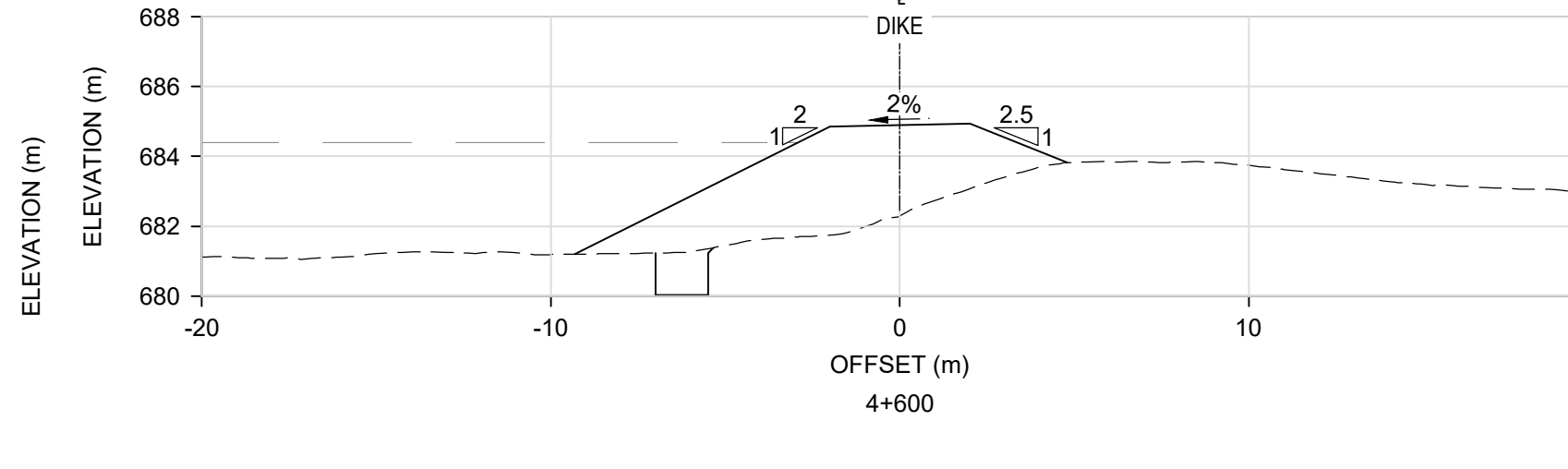
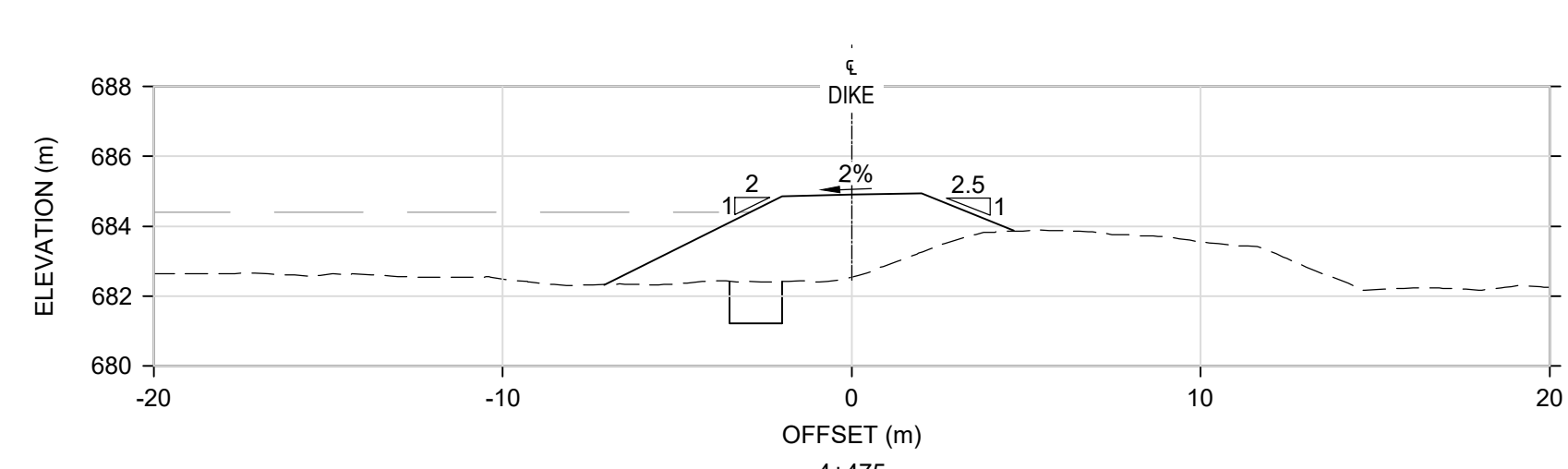
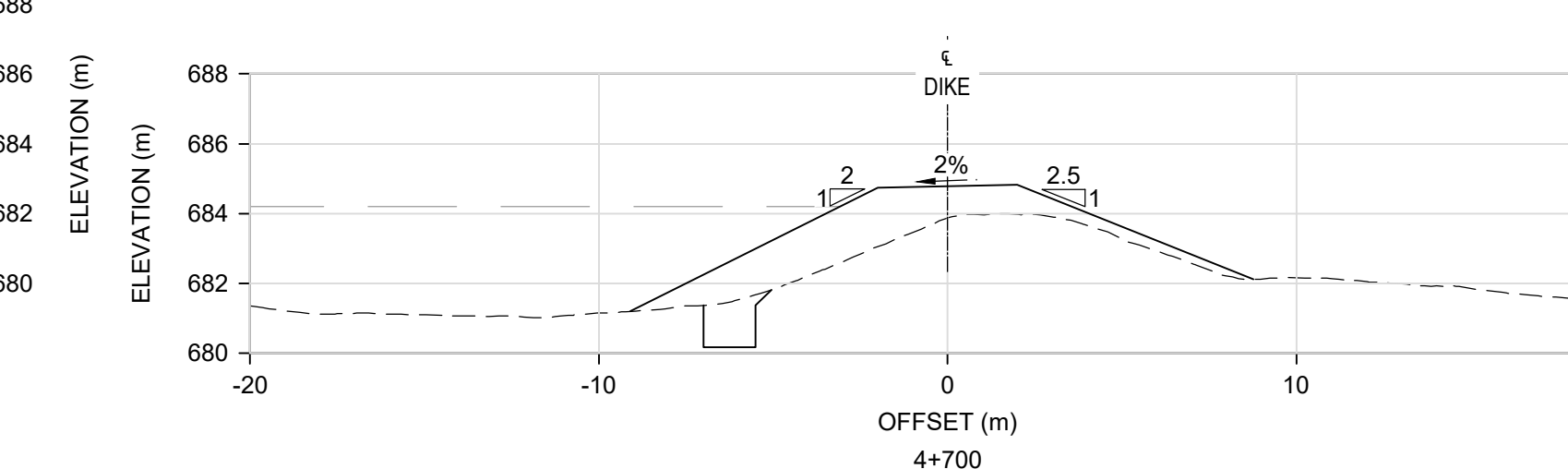
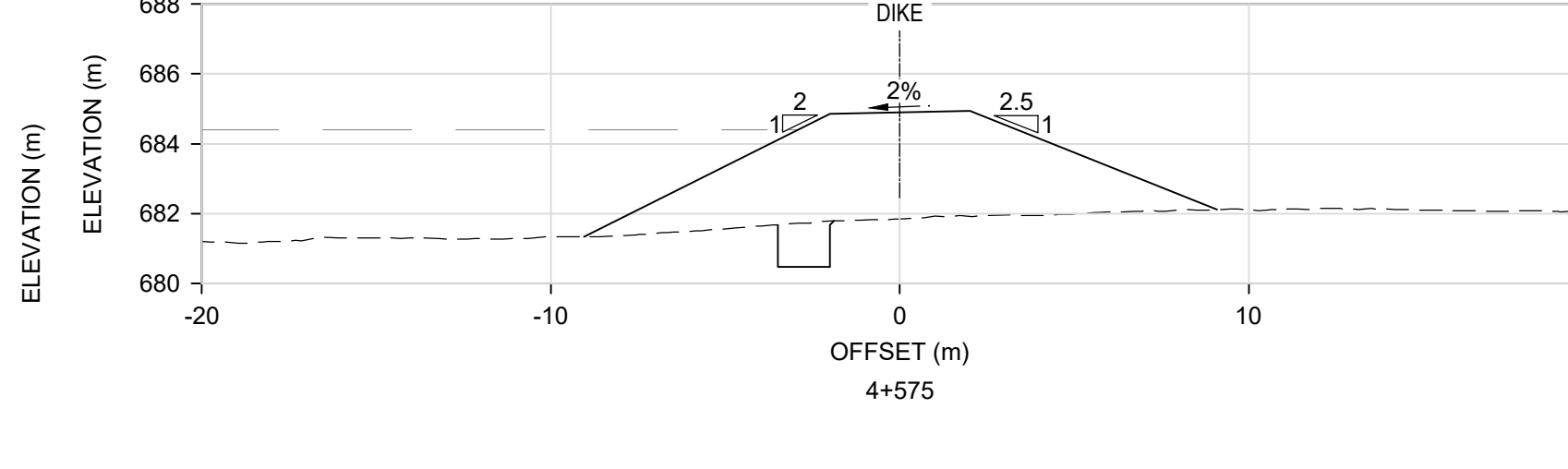
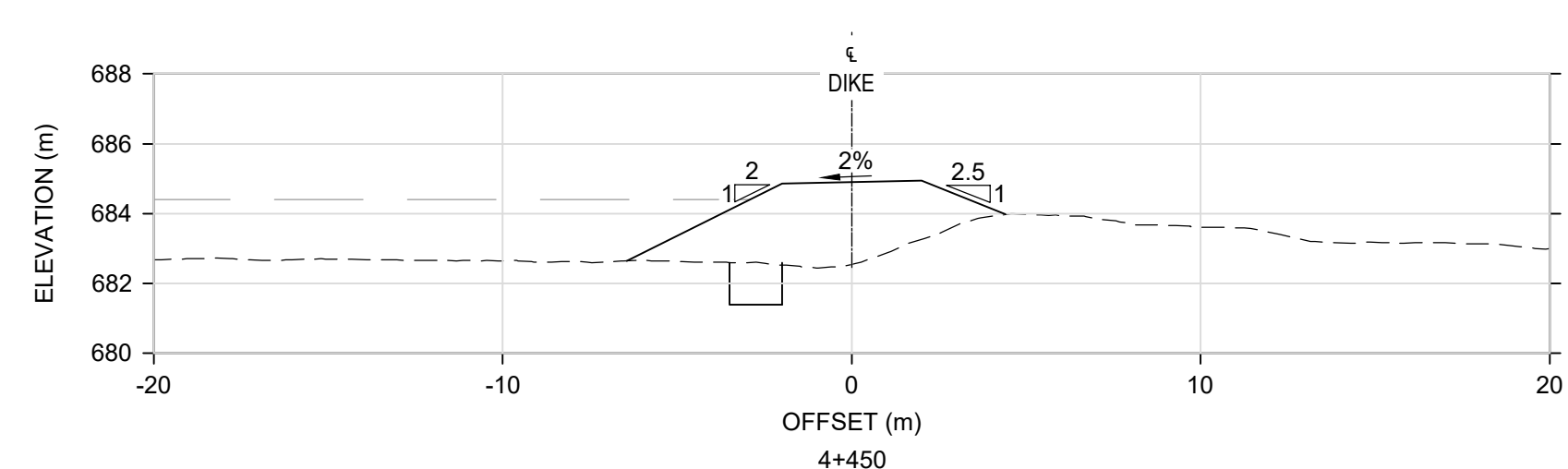
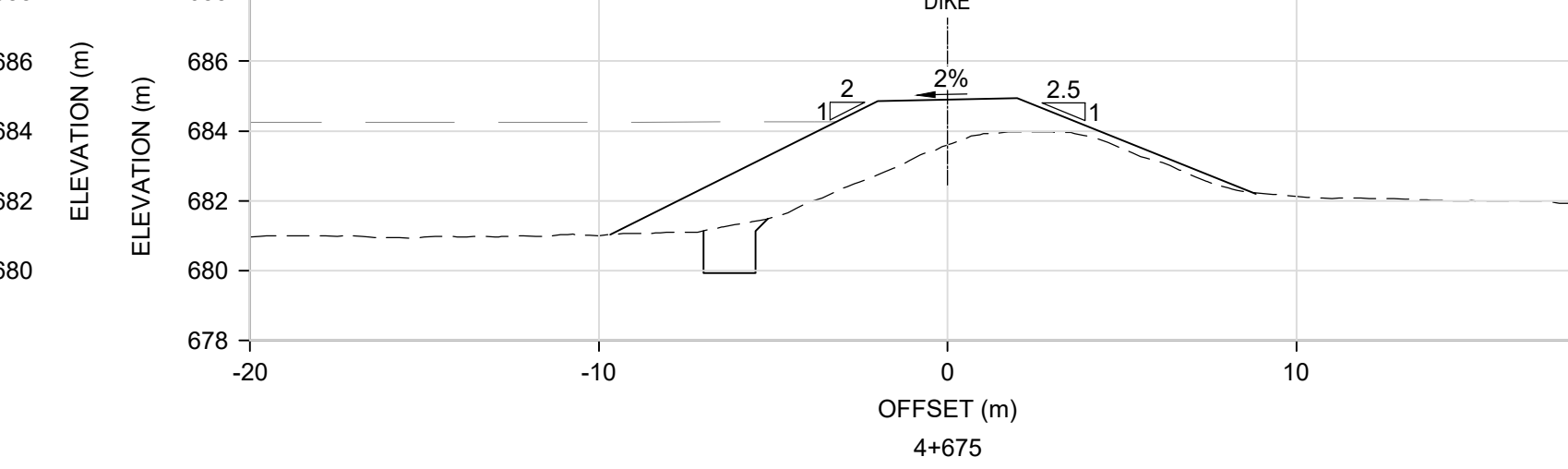
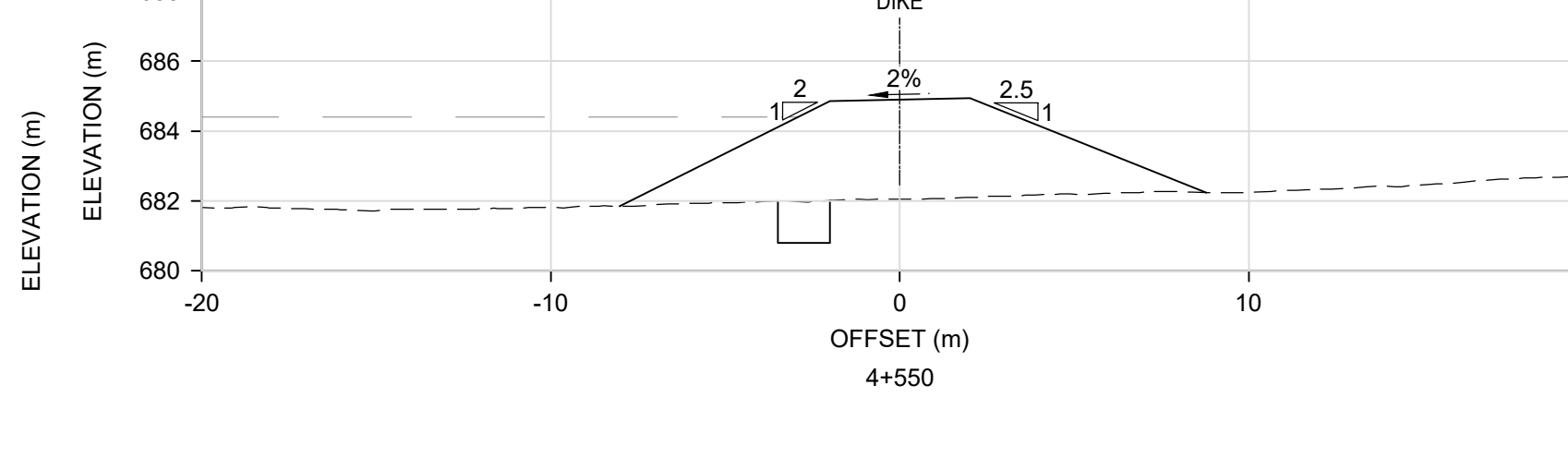
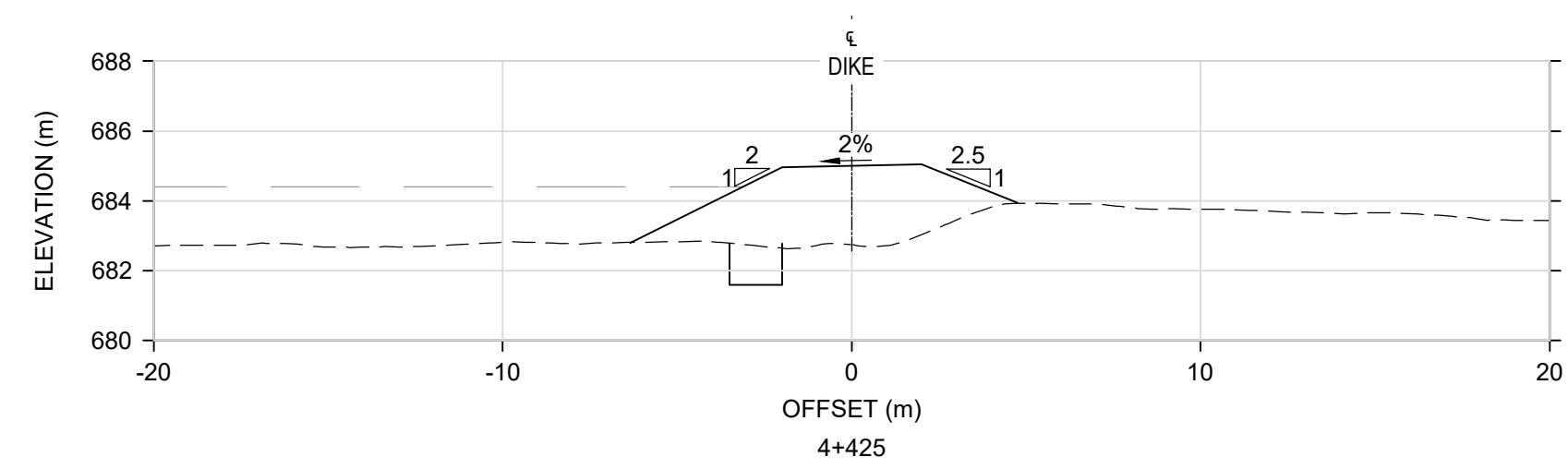
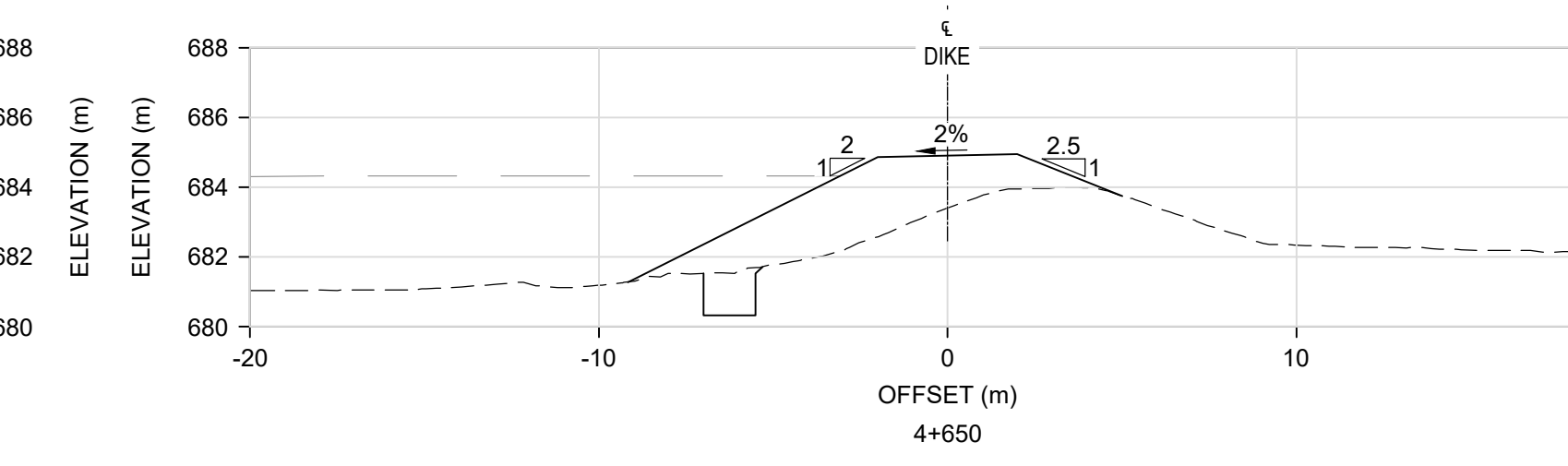
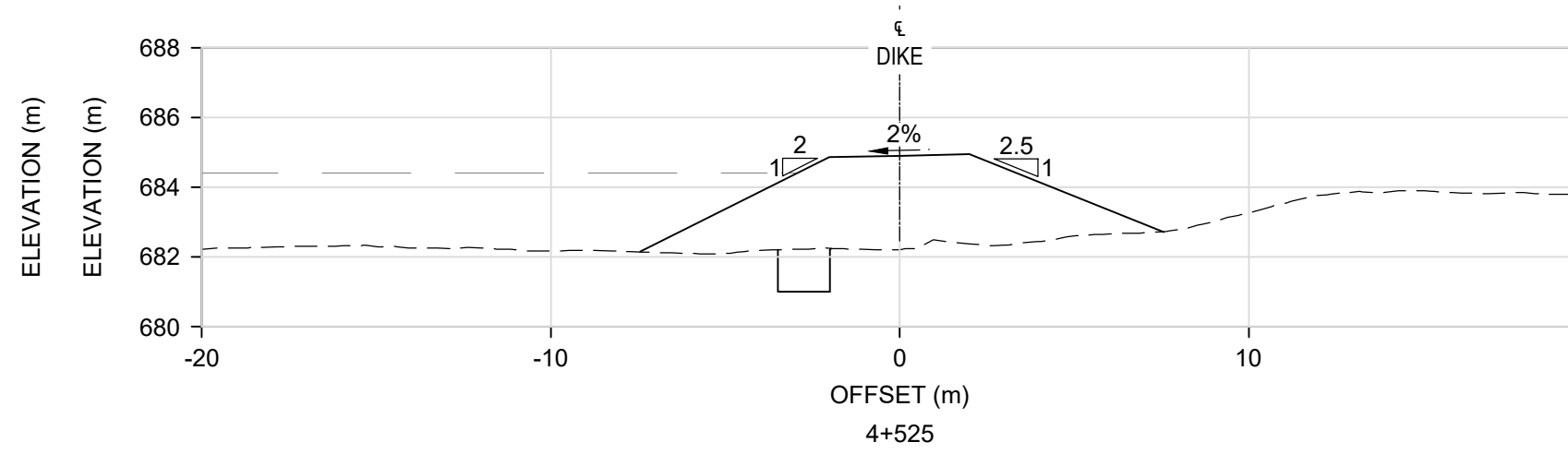
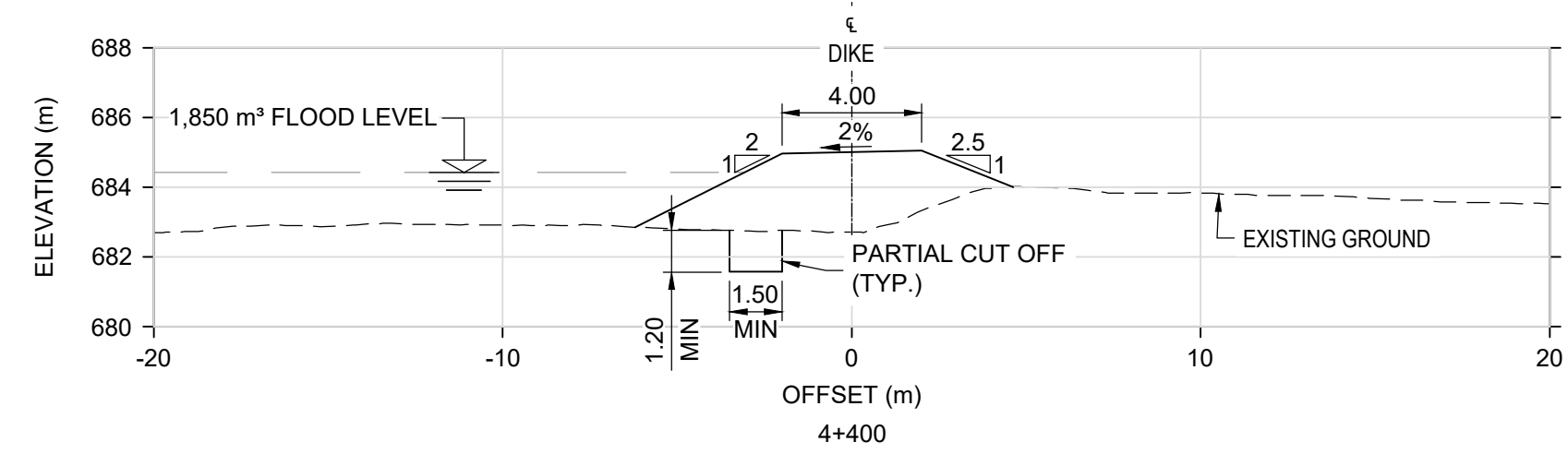
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**DRUMHELLER RESILIENCY & FLOOD MITIGATION OFFICE**  
**NEWCASTLE PROJECT**

**DOWNSTREAM SECTIONS**  
**1 OF 3**

Project No. **22.06.20B** Drawing No. **C-302** Rev. **A**  
Group **CIVIL**

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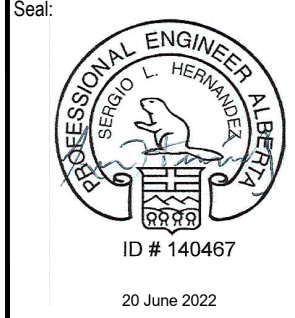


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Rev	Date	Des	Dwn	Chk	Description
A	2022-06-20	SH	SH	RC	ISSUED FOR TENDER

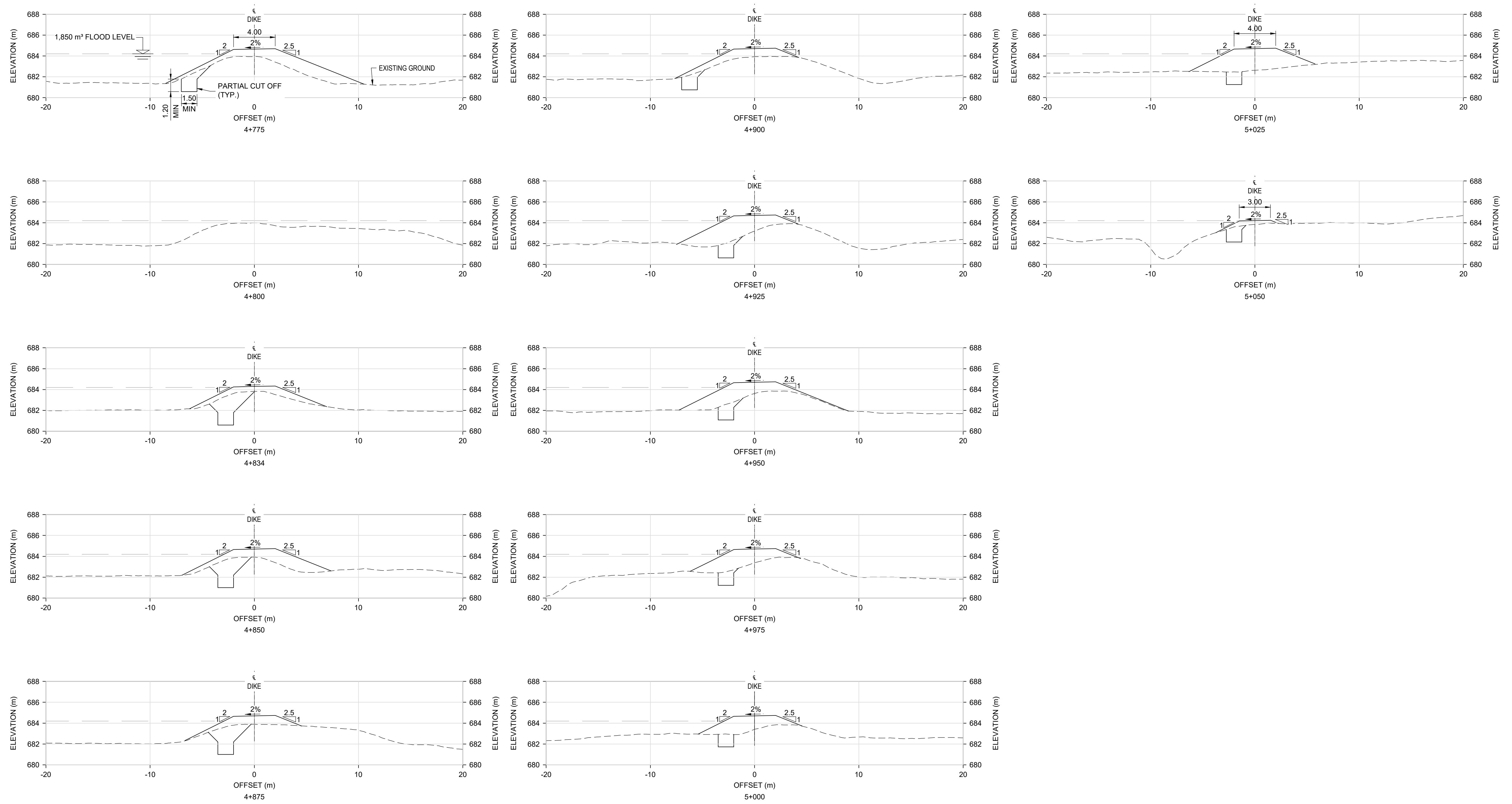
Rev	Date	Des	Dwn	Chk	Description

**DRUMHELLER RESILIENCY & FLOOD MITIGATION OFFICE**  
**NEWCASTLE PROJECT**

**DOWNSTREAM SECTIONS**  
**2 OF 3**

Project No.	22.06.20B	Drawing No.	C-303	Rev.	A
Group	CIVIL				

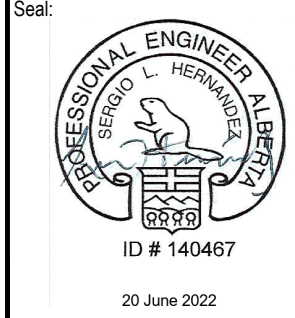
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**SECTIONS**  
SCALE = 1:200

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ARE BASED ON 22" X 34" FORMAT DRAWINGS



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**KLOHN CRIPPEN BERGER LTD.**  
 RM SIGNATURE: *[Signature]*  
 RM APEGA ID #: 48789  
 DATE: Jun. 20 2022  
**PERMIT NUMBER: P009196**  
 The Association of Professional Engineers and Geoscientists of Alberta (APEGA)

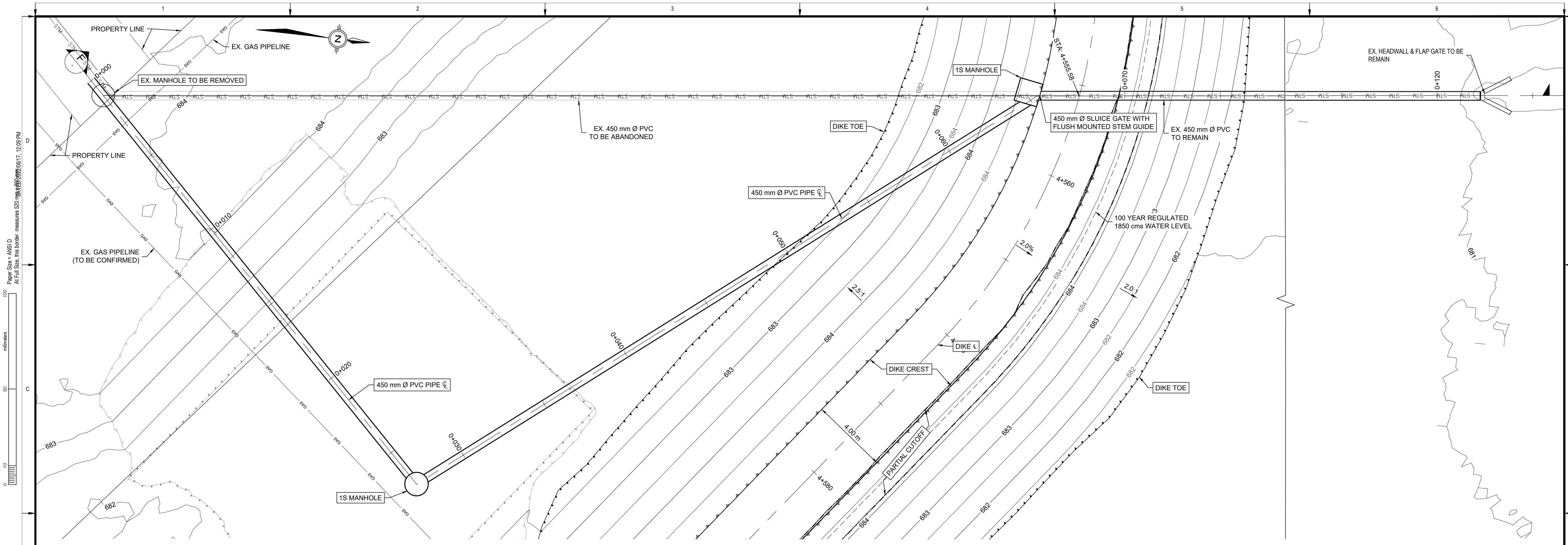
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Rev	Date	Des	Dwn	Chk	Description

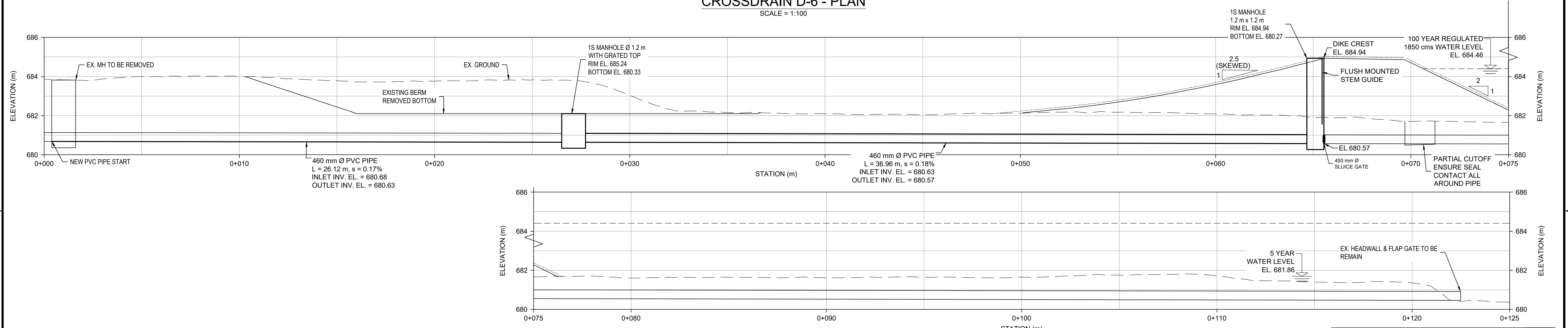
**DRUMHELLER RESILIENCY & FLOOD MITIGATION OFFICE**  
**NEWCASTLE PROJECT**

**DOWNSTREAM SECTIONS**  
**3 OF 3**

Project No.	<b>22.06.20B</b>	Drawing No.	<b>C-304</b>	Rev.	<b>A</b>
Group	<b>CIVIL</b>				



**CROSSDRAIN D-6 - PLAN**  
SCALE = 1:100

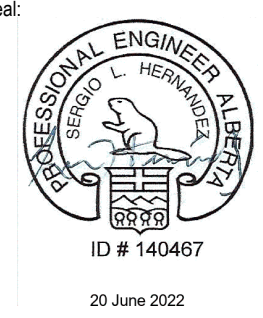


**CROSS DRAIN D-6 - PROFILE A**  
SCALE = 1:100

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ARE BASED ON 22" X 34" FORMAT DRAWINGS

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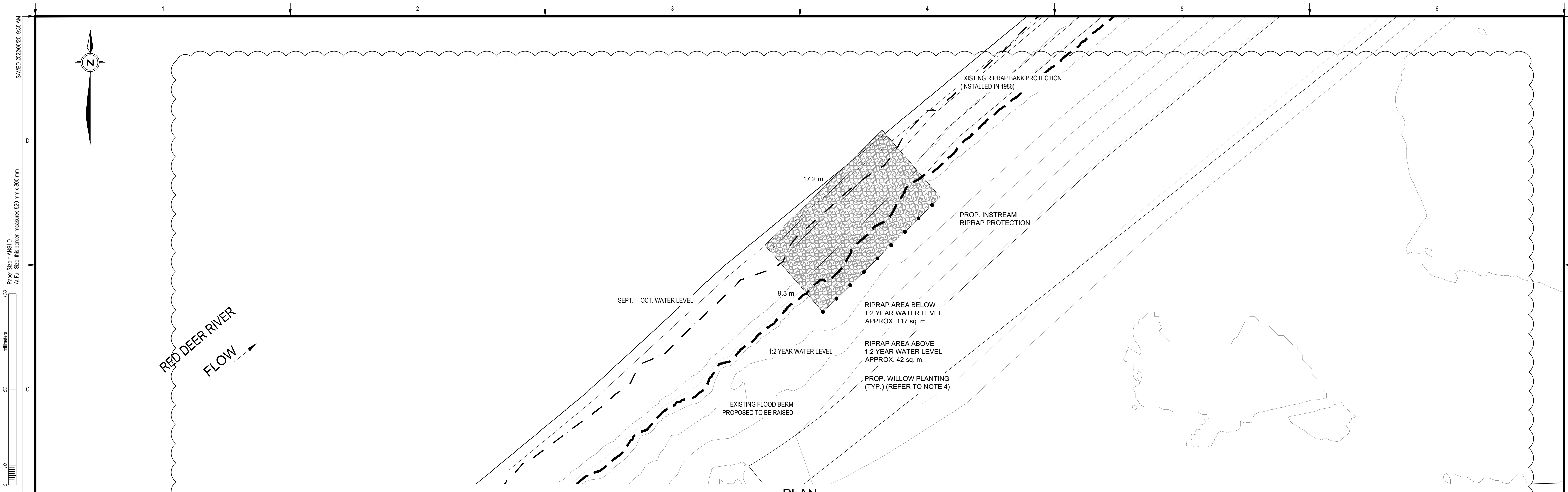
Rev	Date	Des	Dwn	Chk	Description
A	2022-06-20	PB	SH	RC	ISSUED FOR TENDER

Rev	Date	Des	Dwn	Chk	Description

**DRUMHELLER RESILIENCY & FLOOD MITIGATION OFFICE**  
**NEWCASTLE PROJECT**

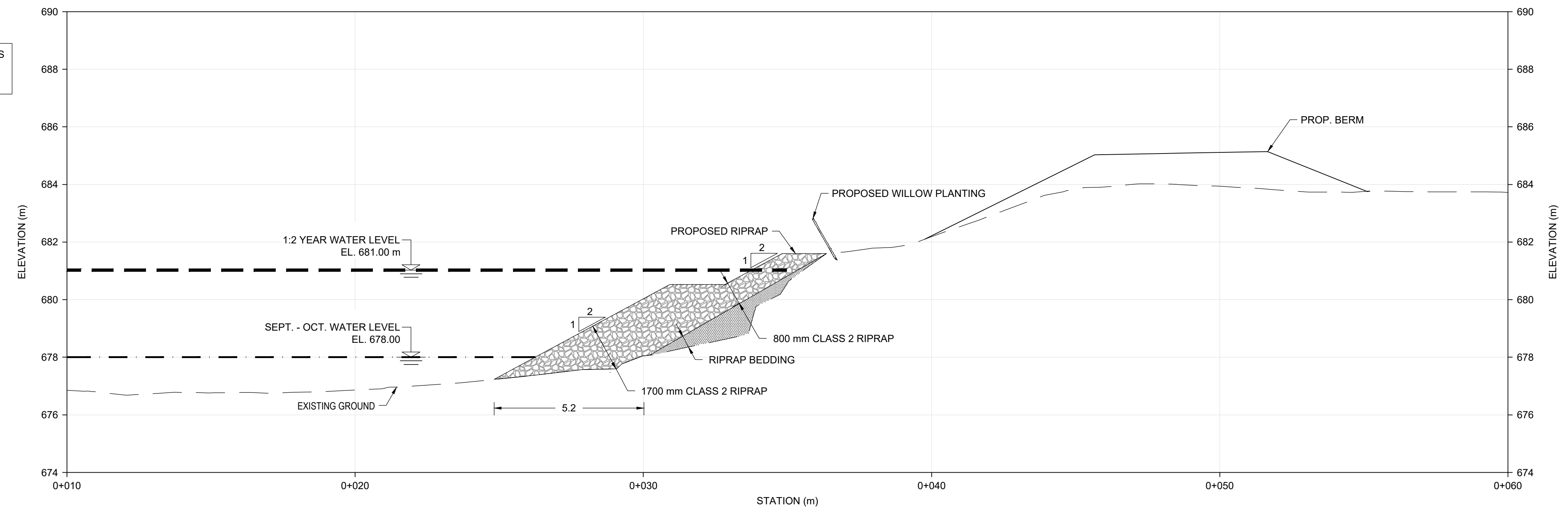
**DOWNSTREAM**  
**CROSS DRAIN D-6**  
**PLAN AND PROFILE**

Project No. **22.06.20B** Drawing No. **C-401** Rev. **A**  
Group **CIVIL**



**PLAN**  
SCALE = 1:200

PROPOSED CONSTRUCTION TIMELINES  
SEPTEMBER/OCTOBER 2022 APPROX.  
3 WEEKS CONSTRUCTION DURATION



**NOTES:**

1. 2019 AERIAL IMAGE (PROVIDED BY DRUMHELLER RESILIENCY AND FLOOD MITIGATION OFFICE).
2. PROJECT COORDINATE SYSTEM CANA93-3TM114.
3. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
4. MINIMIZE REMOVAL OF HEALTHY TREES FOR RIPRAP PLACEMENT.

**LEGEND:**

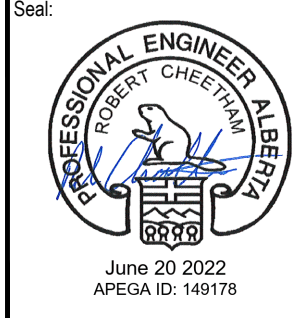
- EXISTING GROUND
- EXISTING FLOOD WALL
- 1:2 YEAR WATER LEVEL
- SEPT. - OCT. WATER LEVEL
- CLASS 2 RIPRAP
- RIPRAP BEDDING
- PROPOSED WILLOW TREE PLANTING

1:100 0 2 4 m  
1:200 0 4 8 m

WORK PENDING REGULATORY AUTHORIZATION

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RM SIGNATURE: *Robert Cheung*  
RM APEGA ID #: 48789  
DATE: Jun. 20 2022  
**PERMIT NUMBER: P009196**  
The Association of Professional Engineers and Geoscientists of Alberta (APEGA)

Rev	Date	Des	Dwn	Chk	Description
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Rev	Date	Des	Dwn	Chk	Description

**DRUMHELLER RESILIENCY & FLOOD MITIGATION OFFICE**  
**NEWCASTLE PROJECT**

**DOWNSTREAM**  
**INSTREAM RIPRAP PROTECTION**  
**PLAN AND SECTION**

Project No. **22.06.20B** Drawing No. **C-501** Rev. **A**  
Group **CIVIL**



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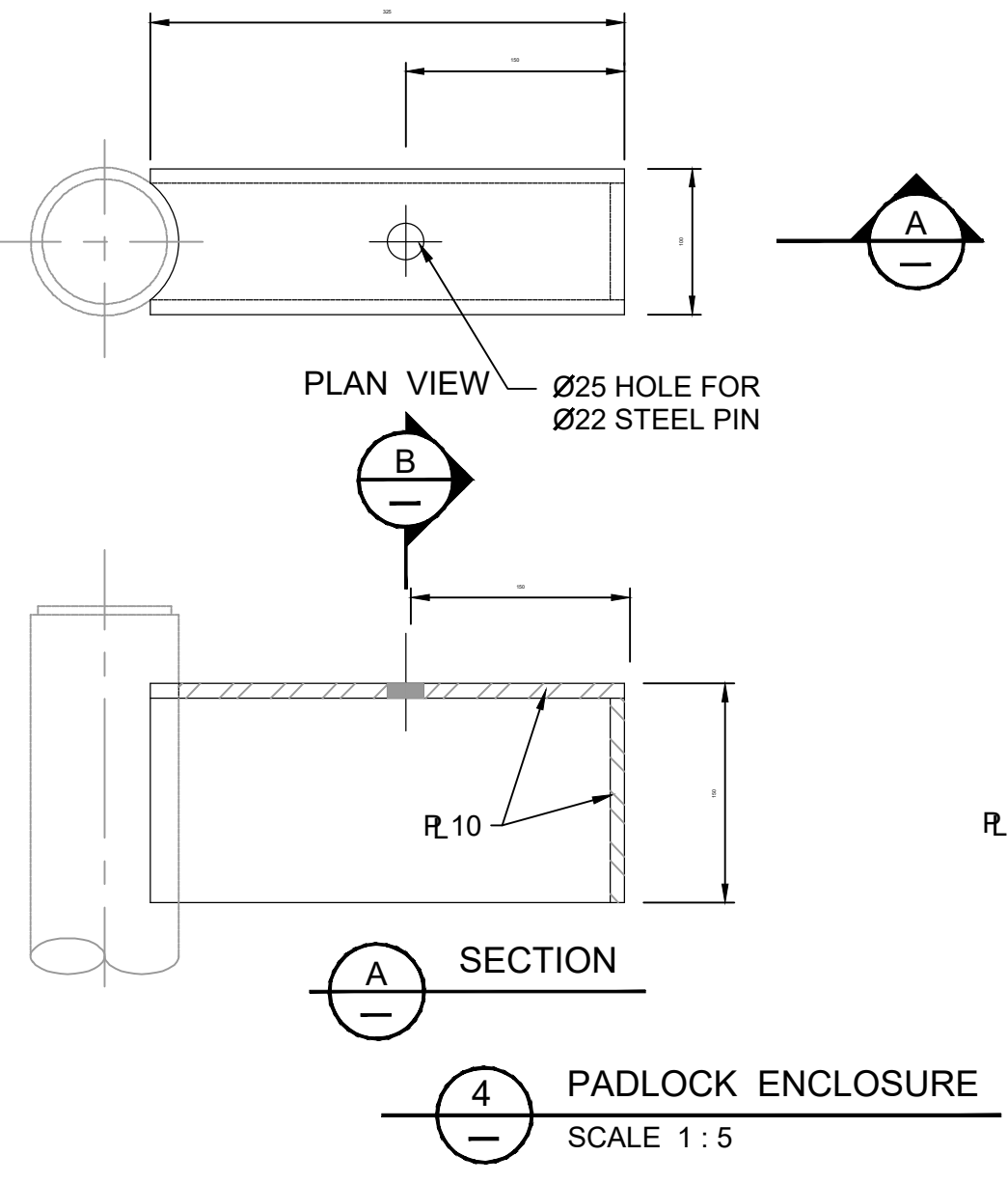
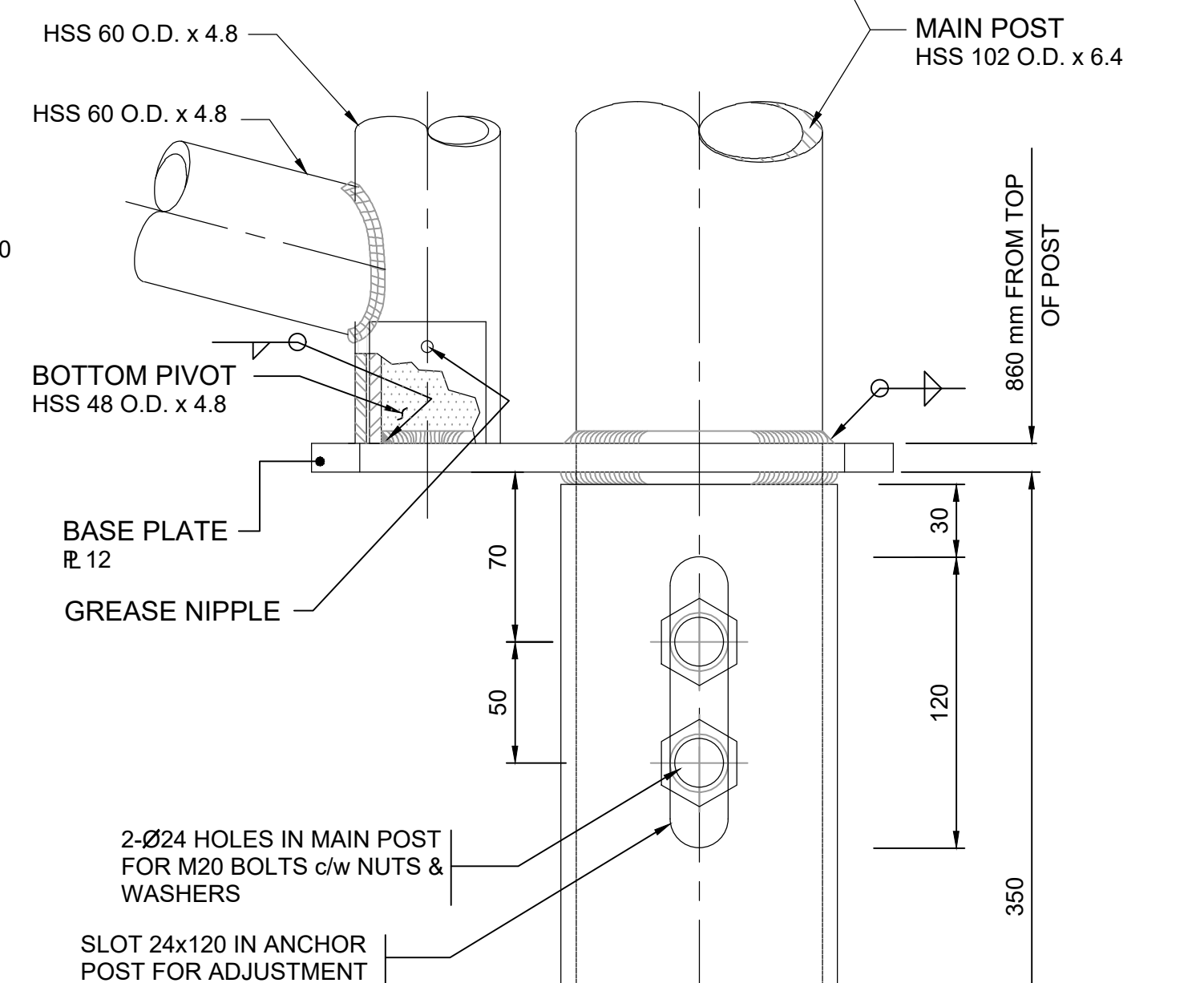
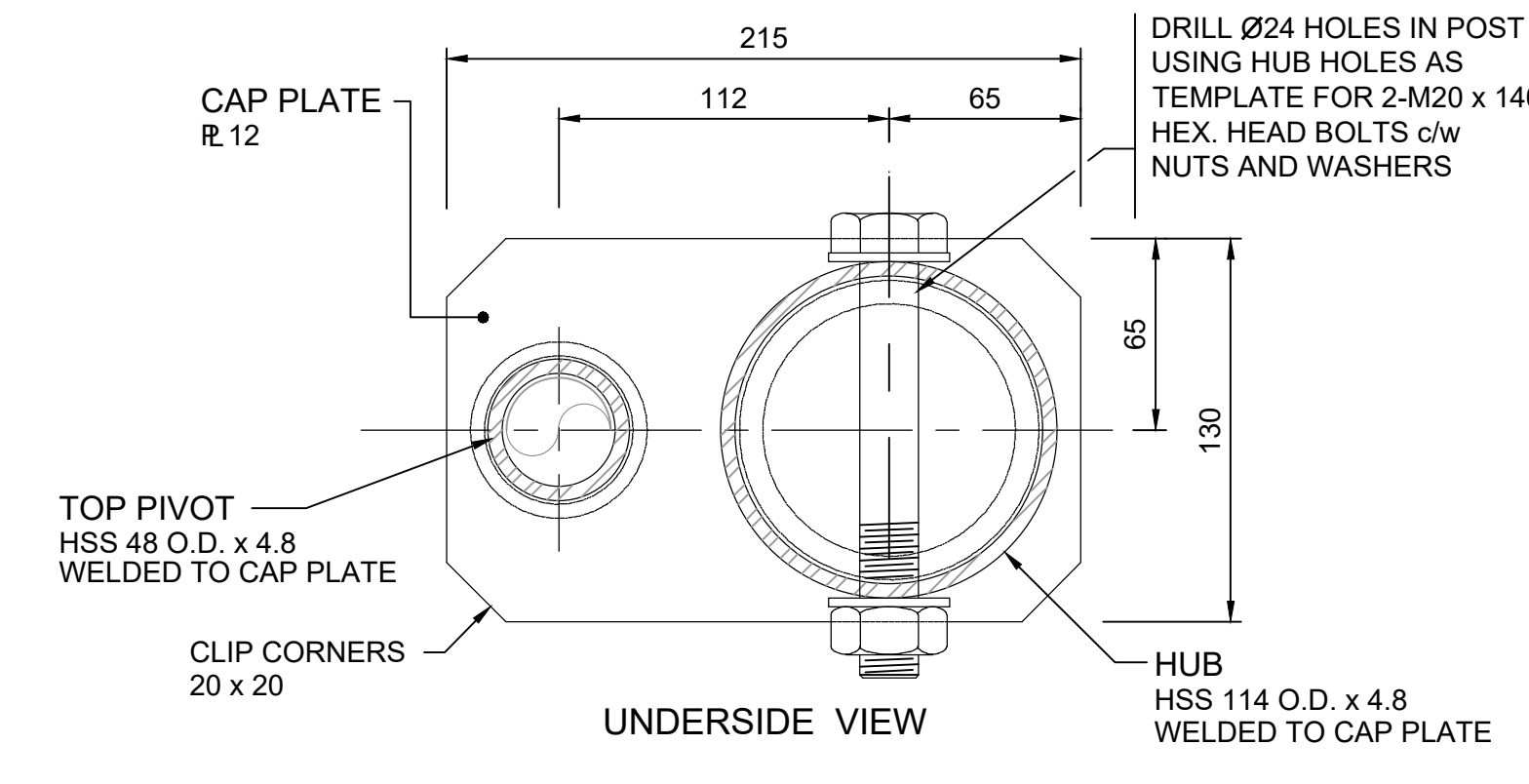
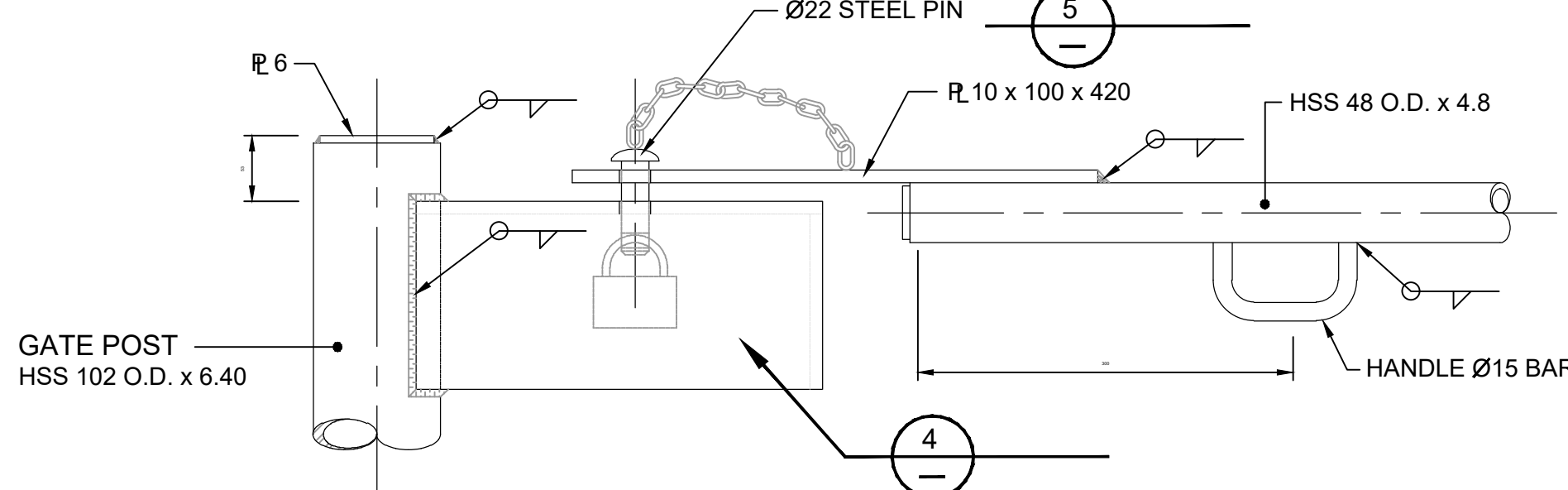
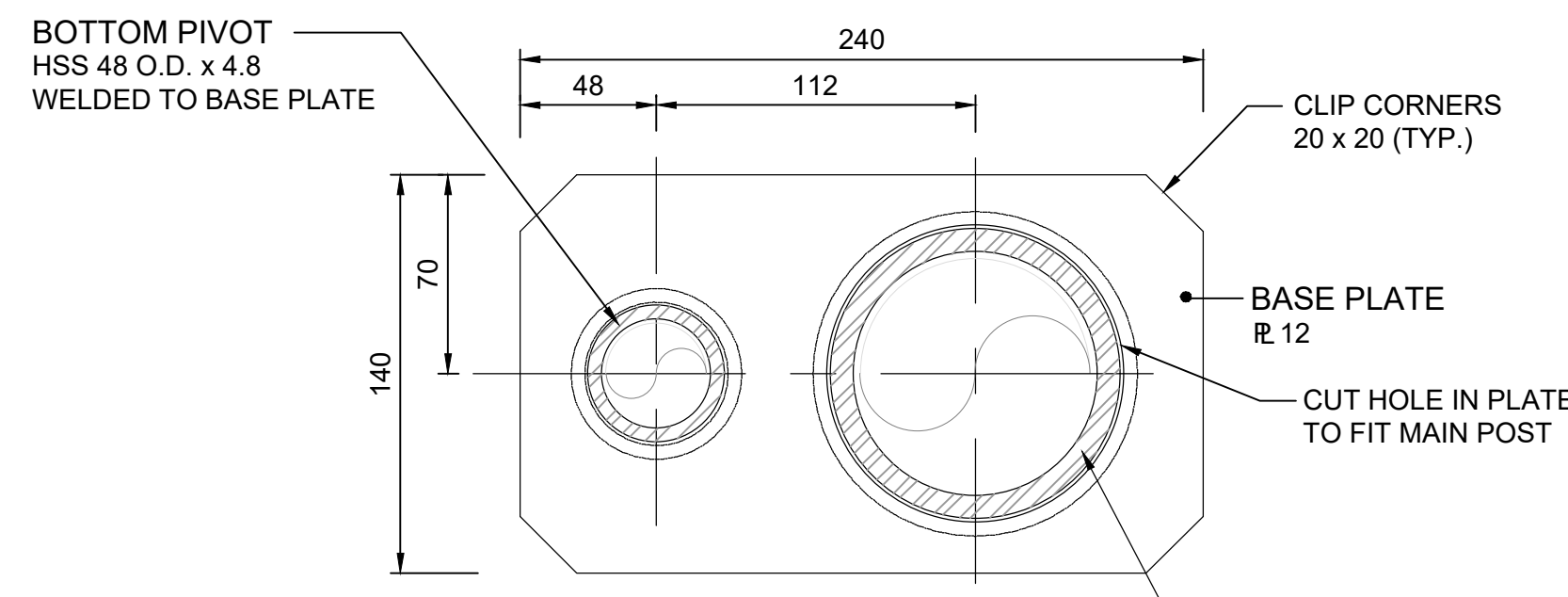
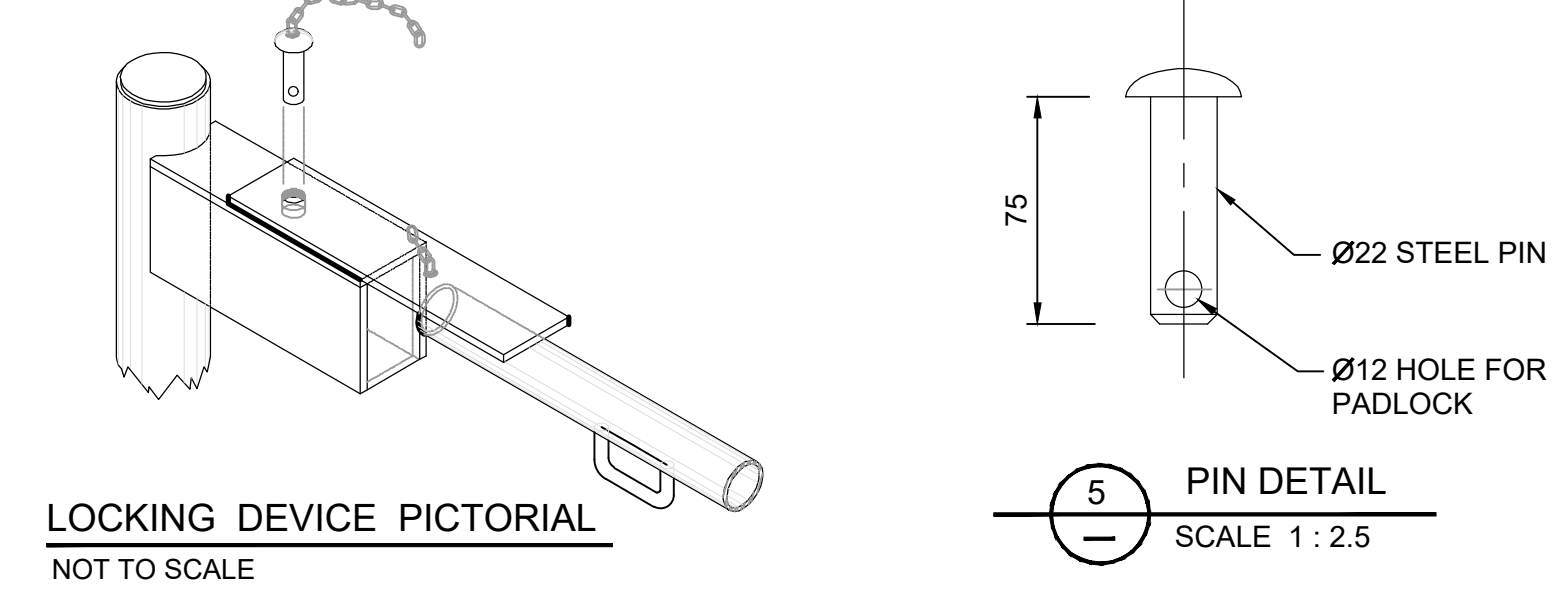
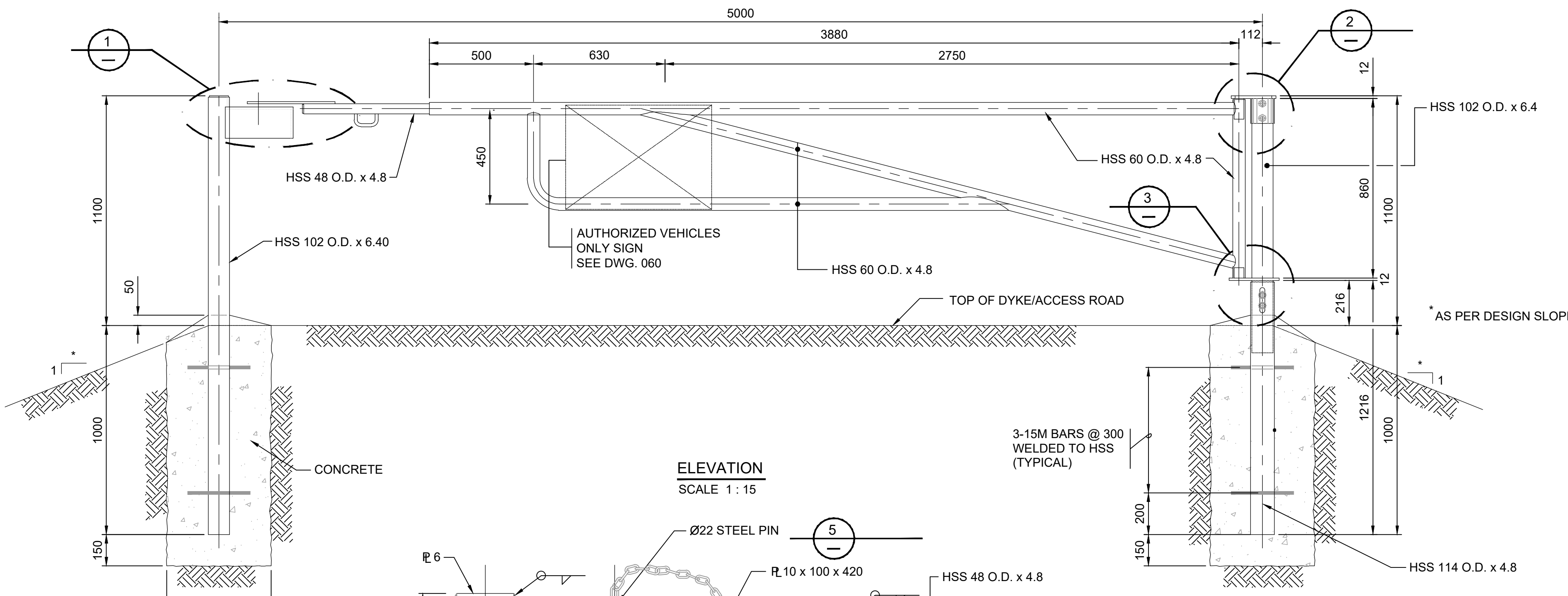
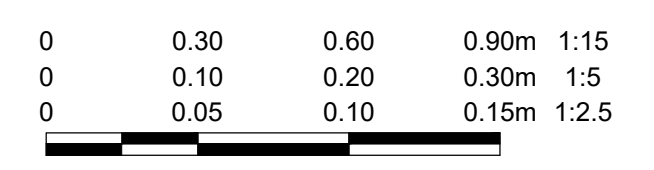


TABLE: Fill Concrete

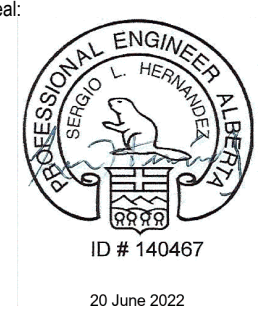
Minimum Compressive Strength	20 MPa @ 28 days
Fly Ash by Mass of Cementitious Materials	Minimum 25%
Nominal Size of Coarse Aggregate	20 - 5 mm
Maximum Water/Cementing Materials Ratio	0.550
Air Content	5-8%
Specified Slump	Maximum 100 mm

- NOTES:**
- ALL DIMENSIONS SHOWN IN MILLIMETRES.
  - FOR DOUBLE LEAF GATE WELD PADLOCK ENCLOSURE BOX TO ONE GATE END INSTEAD OF ADJUSTABLE END.
  - INSTALL THE VEHICLE ACCESS CONTROL GATES AT THE LOCATIONS, OF THE SIZES, AND TO THE ELEVATIONS SPECIFIED.
  - EXCAVATE THE POST HOLES, PLACE THE FILL CONCRETE, EMBED THE POSTS TO THE SPECIFIED DEPTH, AND COMPACT THE CONCRETE. EXTEND THE CONCRETE 50 MM ABOVE THE GROUND SURFACE AND SLOPE TO DRAIN AWAY FROM THE POSTS.
  - BRACE THE POSTS IN A PLUMB POSITION AND IN TRUE ALIGNMENT UNTIL THE CONCRETE HAS CURED FOR A MINIMUM OF 7 DAYS AT AMBIENT TEMPERATURES ABOVE 10°C.
  - INSTALL THE GATE ON THE POSTS AFTER THE FILL CONCRETE HAS ATTAINED ITS SPECIFIED COMPRESSIVE STRENGTH.



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 RM SIGNATURE: *Albert L. Hernandez*  
 RM APEGA ID #: 48789  
 DATE: Jun. 20 2022  
**PERMIT NUMBER: P009196**  
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Rev	Date	Des	Dwn	Chk	Description	Rev	Date	Des	Dwn	Chk	Description
A	2022-06-20	SH	SH	RC	ISSUED FOR TENDER						

**DRUMHELLER RESILIENCY & FLOOD MITIGATION OFFICE**  
**NEWCASTLE PROJECT**

**VEHICLE ACCESS CONTROL GATE**

Project No. **22.06.20B** Drawing No. **C-503** Rev. **A**  
 Group **CIVIL**