

NICK EBRAHIM

# 3707 DOLLARTON HIGHWAY

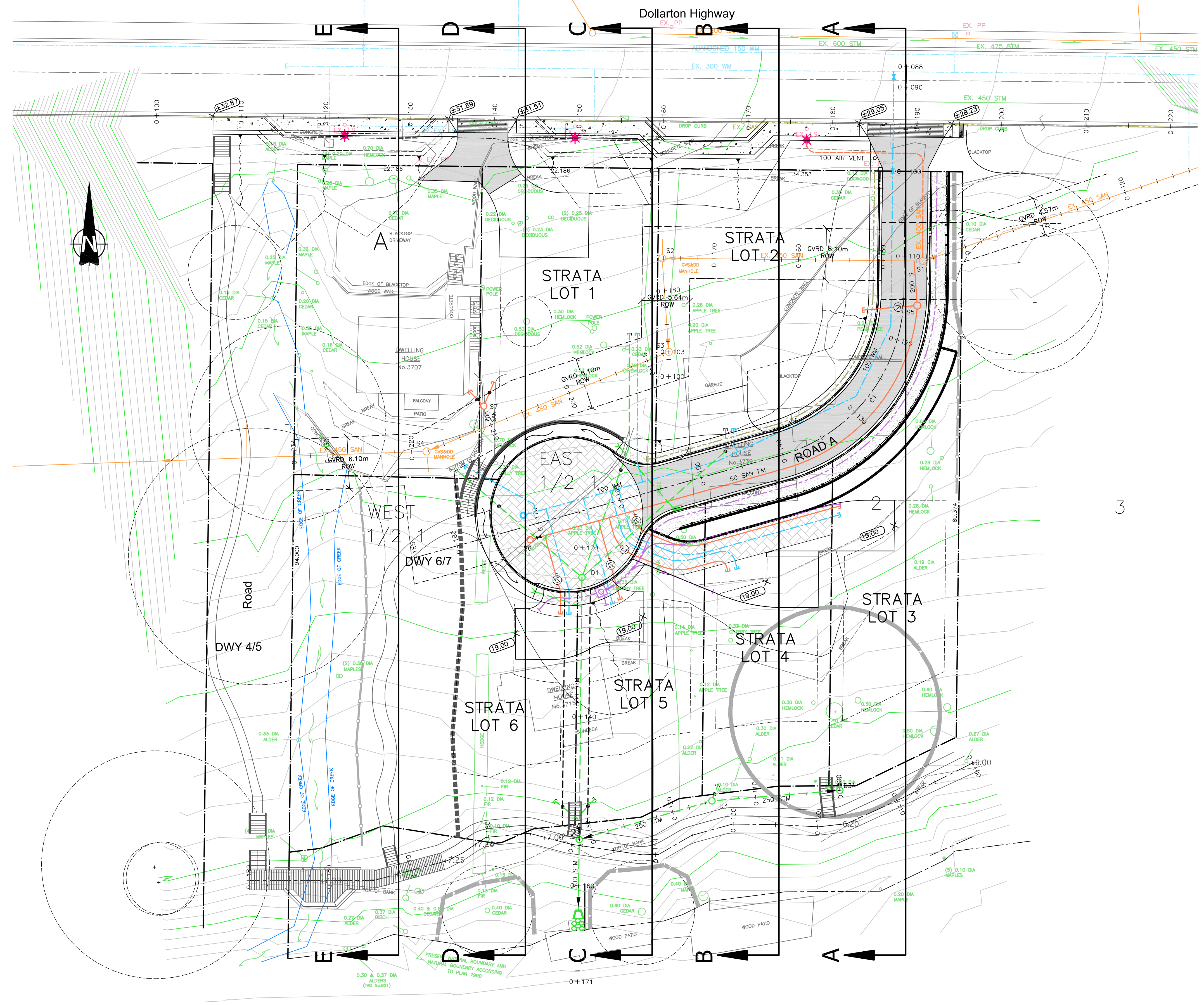
NORTH VANCOUVER - BRITISH COLUMBIA

PREPARED BY:

**WEBSTER  
ENGINEERING LTD.**

PROFESSIONAL ENGINEERS \* LAND DEVELOPMENT CONSULTANTS  
3745 DELBROOK AVENUE  
NORTH VANCOUVER, BRITISH COLUMBIA  
PH: 604.983.0458 FAX: 604.983.0459

DRAWING LIST	
KEY	KEY PLAN
SMP	STORMWATER MANAGEMENT PLAN
SE	SEDIMENT & EROSION CONTROL PLAN
LP-1	SIGNAGE
R-1	ROAD
W-1	WATERWORKS
S-1	SANITARY SEWERS
S-2	SANITARY SEWERS
D-1	STORM SEWERS
X-1	CROSS-SECTIONS ROAD A
X-2	CROSS-SECTIONS DOLLARTON
X-3	CROSS-SECTIONS DOLLARTON
X-4	CROSS-SECTIONS TRAIL
X-5	CROSS-SECTIONS TRAIL
X-6	CROSS-SECTIONS TRAIL
X-7	SITE SECTIONS
X-8	SITE SECTIONS
DET-1	DETAILS
DET-2	DETAILS
DET-3	DETAILS



SITE VIEW  
SCALE 1:250

no.	date	revision	chk'd	no.	date	revision	chk'd
3	JAN.05.09	ISSUED FOR APPROVAL	DKD				
2	OCT.16.08	ISSUED TO METRO VANCOUVER	DKD				
1	JUN.04.08	ISSUED FOR APPROVAL	DKD				

client  
**NICK EBRAHIM**

project  
**3707 DOLLARTON HWY  
NORTH VANCOUVER, BRITISH COLUMBIA**

PROFESSIONAL ENGINEERS

**WEBSTER ENGINEERING LTD.**

LAND DEVELOPMENT CONSULTANTS

3745 DELBROOK AVENUE, NORTH VANCOUVER, B.C. V7N 3Z4 983-0458

approved

designed by **F.M.C.**

drawn by **J.K.W.**

checked by **P.M.W.**

date **DEC.05.07**

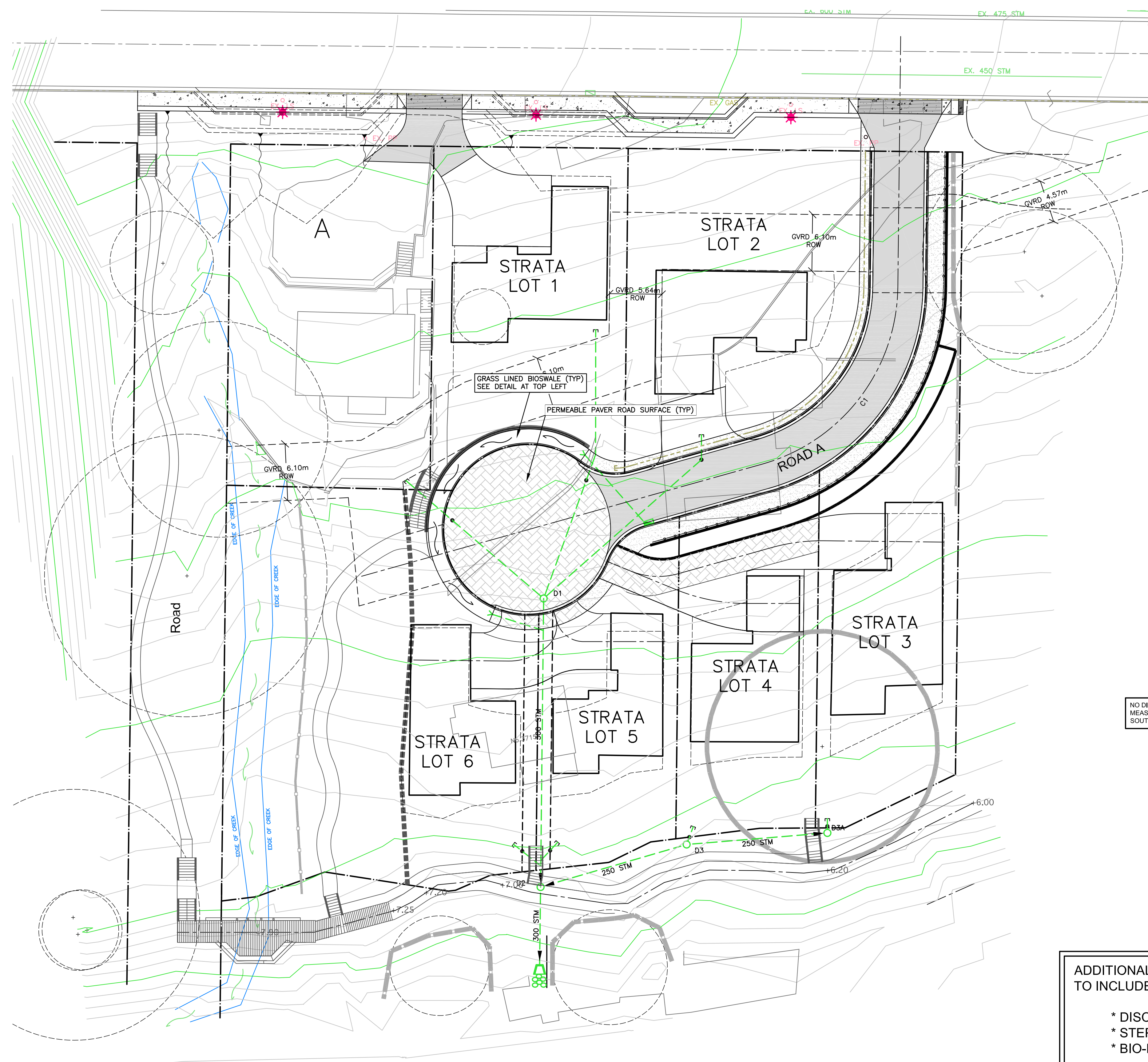
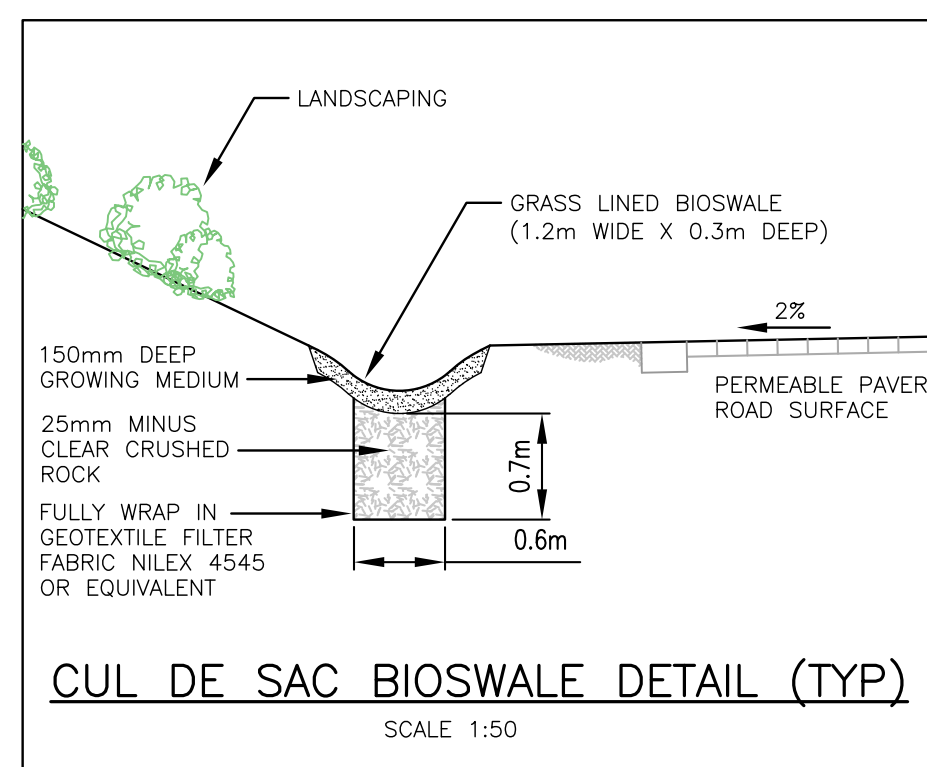
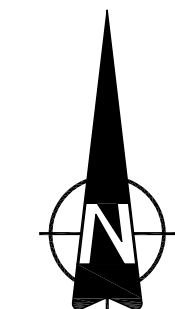
BASEPLAN

scale: hor: 1:250 vert: -

file no. **3186**

drawing no. **KEY-1** rev. **3**





NO DIRECT INFILTRATION MEASURES TO BE USED ALONG SOUTH SLOPES OF DEVELOPMENT

3006-Stormwater Management		MAR Storm Event (-2yr)		Webster Engineering Ltd.	
<b>Roadside Bioswale</b>					
Catchment Area					
Roadway width	6 m				
Swale width	1.2 m				
Runoff Area directed to Swale	7.2 m <sup>2</sup> /m				
<b>Objective: Infiltrate 50% of the MAR storm event</b>					
From District of North Van IDF Curve...					
2yr-24hr rainfall	80 mm				
MAR - 2yr event	40 mm				
50% of MAR	20 mm				
Runoff Area for Infiltration	x 7.2 m <sup>2</sup> /m				
Total rainfall from road surface area	= 0.29 m <sup>3</sup> /m				
Total rainfall volume to be infiltrated	= <b>0.29 m<sup>3</sup>/m</b>				
<b>Groundwater infiltration through bottom of trench</b>					
Based on Puar Engineering's estimate (1x10 <sup>-6</sup> m/s)					
Conservative design infiltration rate	20 mm/hr				
During 24hr storm duration	= 0.48 m <sup>3</sup> /m <sup>2</sup>				
Swale width	1.2 m				
Infiltration per metre of swale	= <b>0.58 m<sup>3</sup>/m</b>				
<b>Underground water storage in trench material voids</b>					
Trench width	= 0.6 m				
Field depth	= 0.6 m				
Reduction in capacity due to material void spaces	x 0.3				
Average storage per metre of trench	= <b>0.108 m<sup>3</sup>/m</b>				
<b>Combined infiltration and storage</b>					
Infiltration per square metre of field	0.58 m <sup>3</sup> /m (as above)				
Storage per square metre of field	0.11 m <sup>3</sup> /m (as above)				
Provided rainfall infiltration and storage	<b>0.68 m<sup>3</sup>/m</b>				
Rainfall volume for infiltration	- 0.29 m <sup>3</sup> /m (as above)				
Excess rainfall conveyed downstream	= <b>0 m<sup>3</sup>/m</b>				

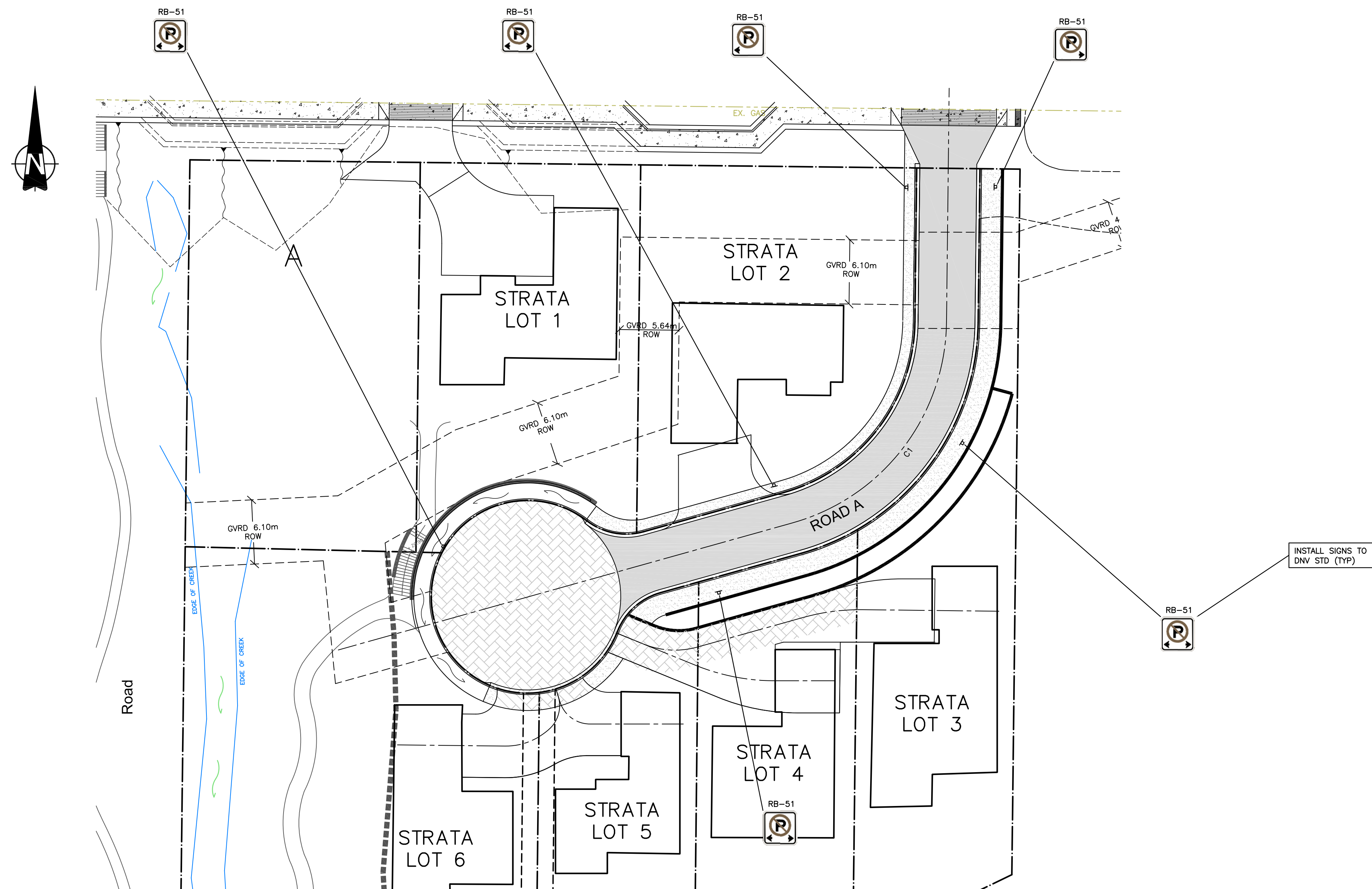
I, FRED CIAMBRELLI, PROFESSIONAL ENGINEER, IN GOOD STANDING IN AND FOR THE PROVINCE OF BRITISH COLUMBIA, HEREBY CERTIFY THAT THE WORKS AS HEREIN SET OUT ON THE ATTACHED DRAWINGS HAVE BEEN DESIGNED TO GOOD ENGINEERING STANDARDS AND IN ACCORDANCE WITH THE DISTRICT OF NORTH VANCOUVER DESIGN CRITERIA MANUAL, DATED MAY 2005, THE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS (MMCD), VERSION 2000 AND THE DISTRICT OF NORTH VANCOUVER SUPPLEMENTARY MASTER MUNICIPAL CONSTRUCTION DOCUMENTS (SUPPLEMENTARY SPECIFICATIONS AND SUPPLEMENTARY STANDARD DRAWINGS), ADOPTED BY THE DISTRICT OF NORTH VANCOUVER.

**ADDITIONAL SOURCE CONTROL MEASURES TO INCLUDE:**

- \* DISCONNECTED ROOF LEADERS
- \* STEPPED PLANTERS
- \* BIO-RETENTION AREAS

1. DISCONNECTED ROOF LEADERS AND STEPPED PLANTERS TO BE INCORPORATED IN FINAL BUILDING DESIGN  
2. BIO-RETENTION AREAS TO BE LOCATED ALONG FORESHORE

3	JAN.05.08	ISSUED FOR APPROVAL	DKD					client	NICK EBRAMIM	<b>WEBSTER ENGINEERING LTD.</b> PROFESSIONAL ENGINEERS LAND DEVELOPMENT CONSULTANTS 3745 DELBROOK AVENUE, NORTH VANCOUVER, B.C. V7N 3Z4 983-0458	COPYRIGHT RESERVED. THIS DRAWING AND DESIGN ARE AND AT ALL TIMES REMAIN THE EXCLUSIVE PROPERTY OF WEBSTER ENGINEERING LTD. AND CANNOT BE USED, REPRODUCED OR DISTRIBUTED WITHOUT WRITTEN CONSENT. © 2001 WEBSTER ENGINEERING LTD.	approved designed by JKW drawn by JKW checked by FMC date FEB.28.08	scales hor: 1:250 vert: - file no. 3186 drawing no. SMP-1 rev. 3
2	OCT.16.08	ISSUED TO METRO VANCOUVER	DKD					project	3707 DOLLARTON HIGHWAY NORTH VANCOUVER, BRITISH COLUMBIA		STORMWATER MANAGEMENT PLAN		
1	JUN.04.08	ISSUED FOR APPROVAL	DKD										
no.	date	revision	chk'd	no.	date	revision	chk'd						

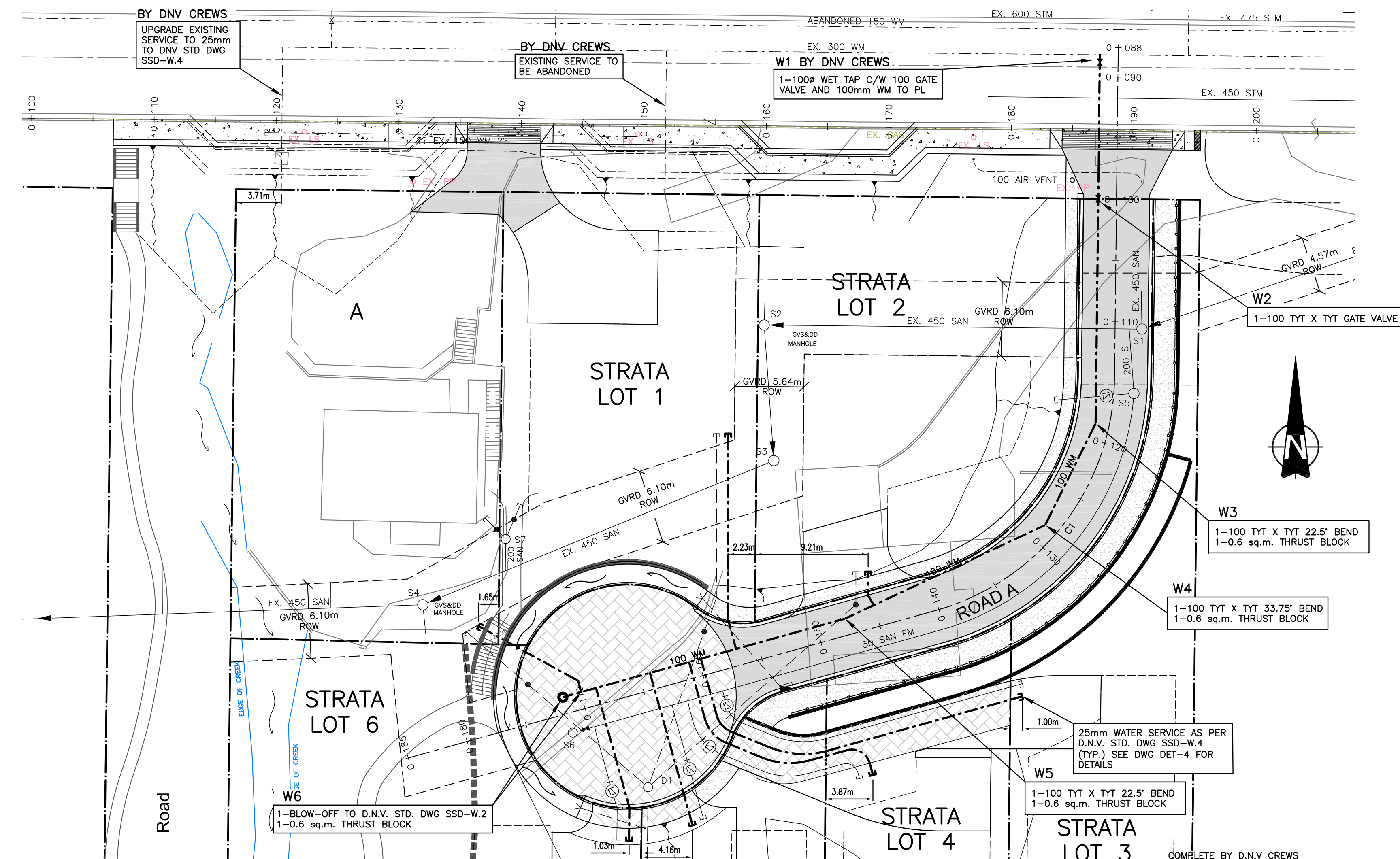


**NOTE:**

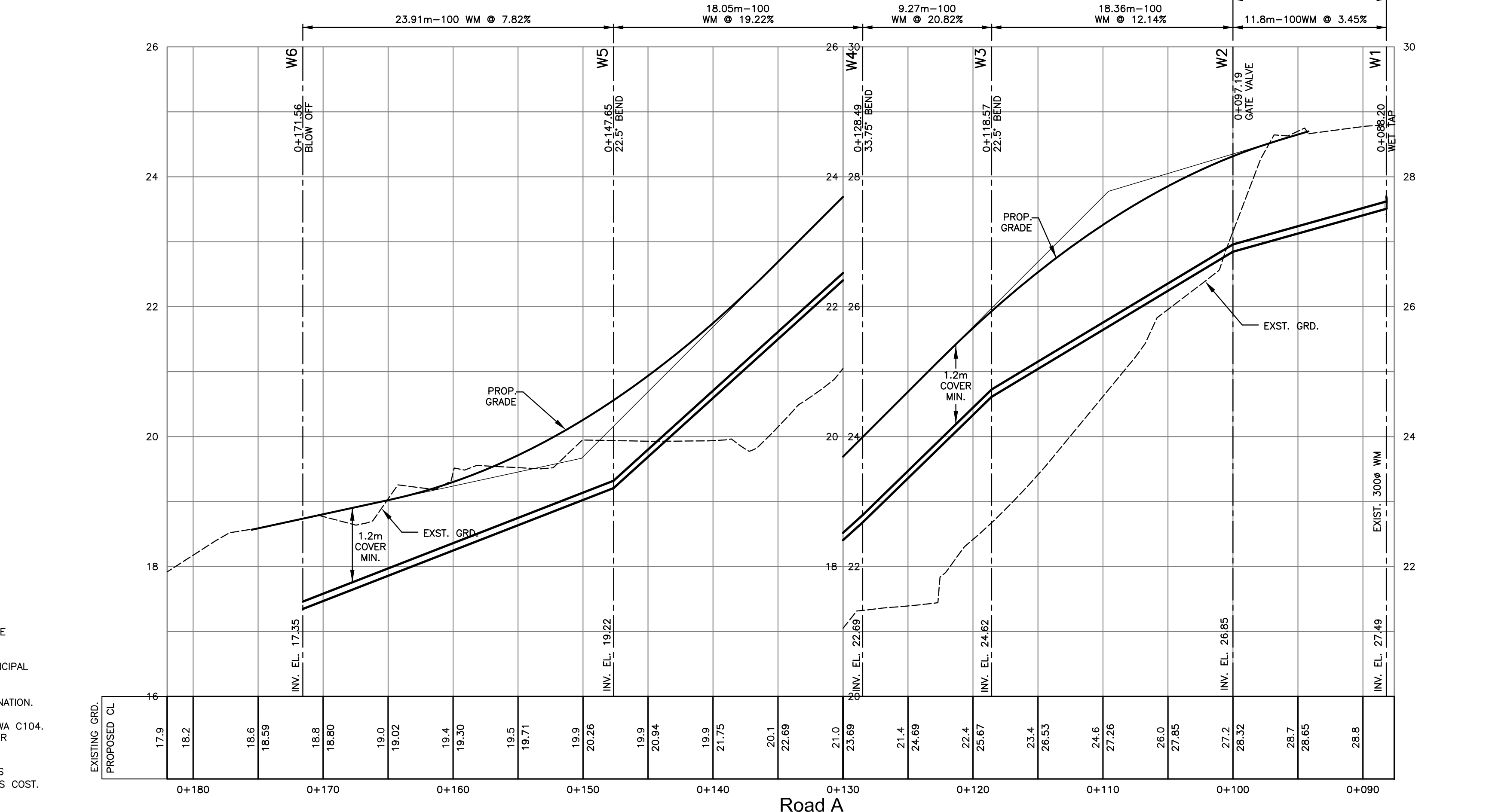
1. TRAFFIC CONTROL AS PER THE MINISTRY OF TRANSPORTATION 'TRAFFIC MANUAL FOR WORK ON ROADWAYS' AND AS PER THE TRANSPORTATION ASSOCIATION OF CANADA 'MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES'.
2. SIGNAGE CONFORMS WITH T.A.C. AND DISTRICT OF NORTH VANCOUVER STANDARDS.
3. STREET NAME SIGNS INSTALLED TO DISTRICT OF NORTH VANCOUVER STANDARDS.

3		JAN.05.09	ISSUED FOR APPROVAL	DKD				client	NICK EBRAHIM		<p><b>WEBSTER ENGINEERING LTD.</b> PROFESSIONAL ENGINEERS 3745 DELBROOK AVENUE, NORTH VANCOUVER, B.C. V7N 3Z4 983-0458 LAND DEVELOPMENT CONSULTANTS</p>	<p>COPYRIGHT RESERVED. THIS DRAWING AND DESIGN ARE AND AT ALL TIMES REMAIN THE EXCLUSIVE PROPERTY OF WEBSTER ENGINEERING LTD. AND CANNOT BE USED, REPRODUCED OR DISTRIBUTED WITHOUT WRITTEN CONSENT. © 2001 WEBSTER ENGINEERING LTD.</p>	approved	designed by	JKW	title	SIGNAGE		scales	hor: 1:250	vert: -
2		OCT.16.08	ISSUED TO METRO VANCOUVER	DKD				project	3707 DOLLARTON HIGHWAY NORTH VANCOUVER, BRITISH COLUMBIA				drawn by	MAD	checked by	FMC	file no.	3186			
1		JUN.04.08	ISSUED FOR APPROVAL	DKD				no.	date	revision			chk'd	no.	date	revision	chk'd	drawing no.	LP-1	rev.	3





WATERMAIN COORDINATES		
M.H. #	NORTHING	EASTING
W1	2006.82	1951.63
W2	1995.07	1951.51
W3	1976.71	1951.29
W4	1968.41	1947.17
W5	1960.76	1930.82
W6	1954.35	1907.79



**WATERWORK NOTES**

1. WATER SERVICES ARE TO BE 25mm DIA., TYPE K ANNEALED COPPER TO ASTM B88M. WATER SERVICE CONNECTION TO DNV STD. DRAWINGS SSD-W.4.
2. INSTALLATION, TESTING AND CHLORINATION TO BE PREPARED IN ACCORDANCE WITH THE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS (MMCD) AND THE B.C. PLUMBING CODE.
3. SERVICE CONNECTIONS ARE TO BE MARKED WITH A 50mm x 100mm POST PAINTED BLUE AT TERMINATION.
4. DUCTILE IRON (D.I.) WATERMAIN IS TO BE CLASS 50 TO AWWA C151, CEMENT MORTAR LINED TO AWWA C104, TYTON JOINT AWWA C111, EBA MEGALUG JOINT RESTRAINT ASSEMBLY TO BE USED WHERE GRADE IS AT OR EXCEEDS 20%.
5. EXCAVATION AND PAVEMENT RESTORATION FOR WATERMAIN TIE-IN TO BE COMPLETED BY DEVELOPER'S CONTRACTOR, DNV UTILITIES DEPT. TO SUPPLY WET TAP MATERIALS AND COMPLETE TIE-IN AT DEVELOPER'S COST.

client <b>NICK EBRAHIM</b>		 PROFESSIONAL ENGINEERS LAND DEVELOPMENT CONSULTANTS 3745 DELBROOK AVENUE, NORTH VANCOUVER, B.C. V7N 3Z4 983-0458	approved 	designed by JKW	scales hor: 1:250 vert: 1:50
project 3707 DOLLARTON HIGHWAY NORTH VANCOUVER, BRITISH COLUMBIA			drawn by JKW	checked by FMC	
no. date revision	no. date revision	no. date revision	date FEB.28.08	title <b>WATERWORKS</b>	drawing no. <b>W-1</b>
					rev. <b>3</b>

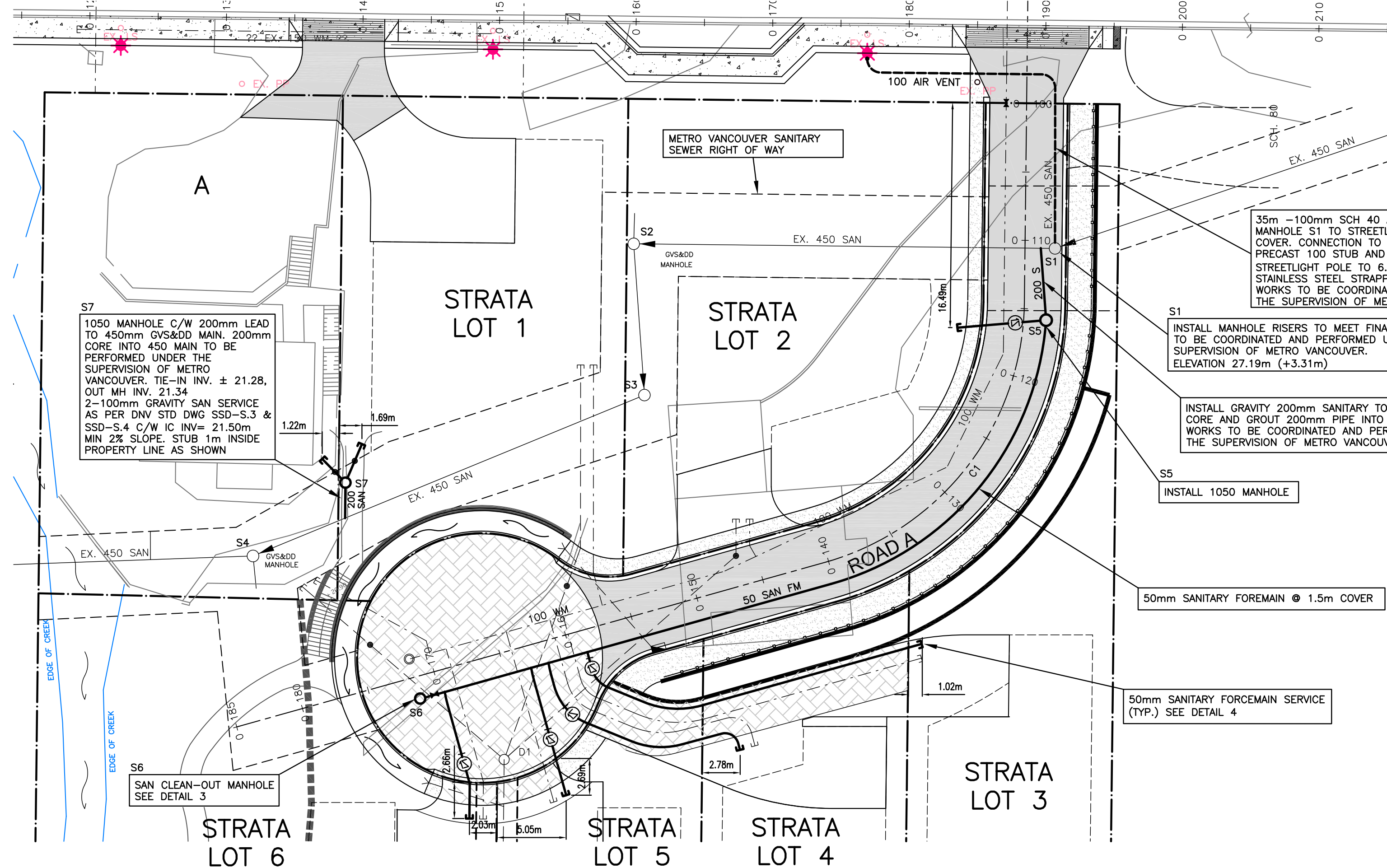
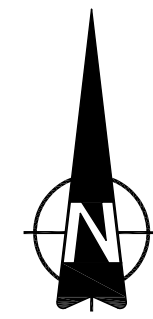
\* LOTS 3-7 SANITARY TO BE PUMPED

BARNES SUBMERSIBLE GRINDER PUMP TO BE SERIES SGVF & SGVH 2HP, 3450RPM, 60 HZ HIGH-FLOW AND HIGH-HEAD INSTALLED BY OWNER DURING HOUSE CONSTRUCTION

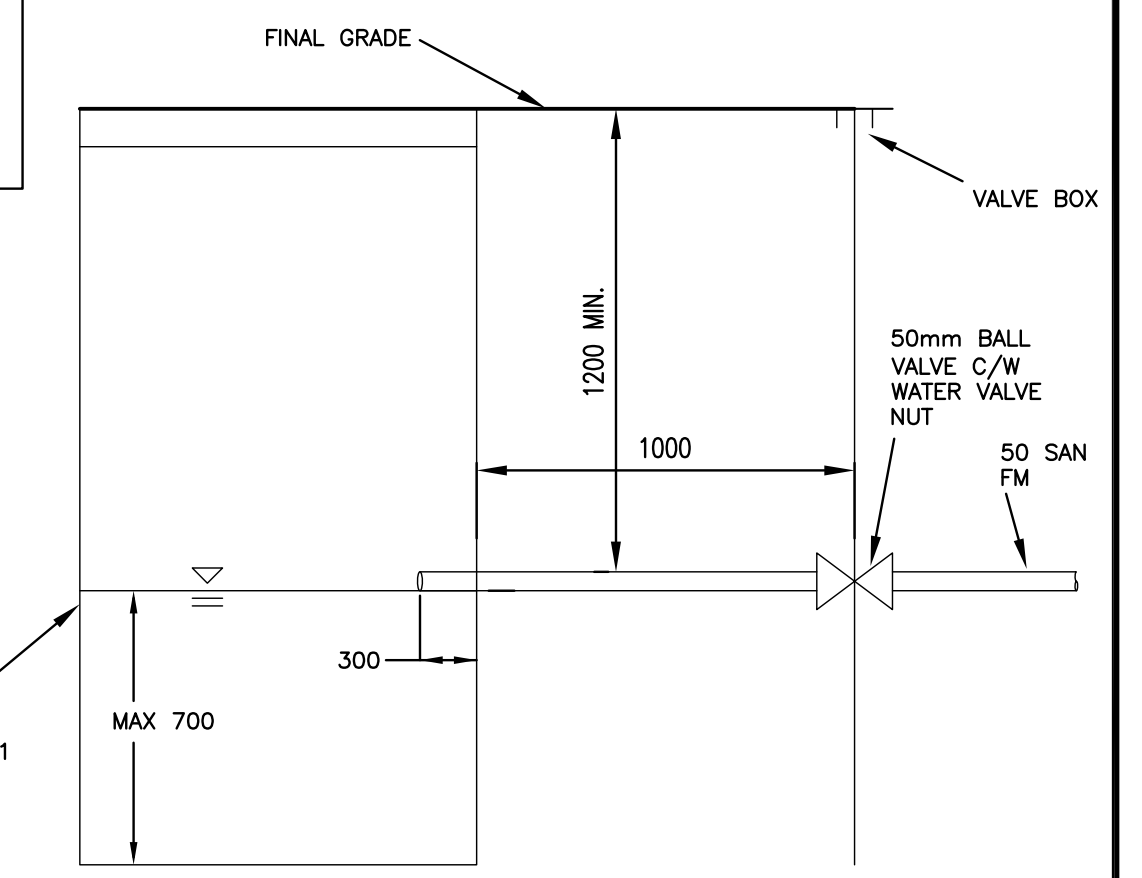
**STORM AND SANITARY SEWER NOTES**

- GRAVITY SANITARY SEWER MAINS TO BE DR35 PVC, MIN. PIPE STIFFNESS (F/Y) 320 kPa @ 5% DEFLECTION TO ASTM D2412, ASTM D3034 AND CSA B182.2. GASKETS TO ASTM F477.
- SANITARY FORCEMAIN TO BE PVC TO AWWA C900 CLASS 150 OR HIGH DENSITY POLYETHYLENE SERIES 100 (DR17) OR BETTER, TO ASTM F714-85 & ASTM D-1248-84.
- STORM SEWER MAINS TO BE DR35 PVC, MIN. PIPE STIFFNESS (F/Y) 320 kPa @ 5% DEFLECTION TO ASTM D2412, ASTM D3034 AND CSA B182.2. GASKETS TO ASTM F477 OR CONCRETE AND SHALL MEET THE ASTM C14 CLASS 3 SPECIFICATIONS FOR NON-REINFORCED PIPE. (FOR PIPES UP TO A MAXIMUM OF 900mm)
- SANITARY SERVICE CONNECTIONS TO BE 50mm DIA. PVC TO ASTM D2241 OR HIGH DENSITY POLYETHYLENE TO AWWA C906 C/W CHECK VALVE AT MAIN TIE-IN LOCATION.
- STORM SERVICE TO BE DR 28 P.V.C., 150mm MIN. Ø TO D.N.V. STANDARD DRAWINGS SSD-S.3 & SSD-S.4, C/W INSPECTION CHAMBER AT PROPERTY LINE.
- STORM AND SANITARY SERVICE CONNECTIONS TO BE MARKED WITH A 50mm x 100mm POST PAINTED GREEN AND RED RESPECTIVELY. THE BELL END AND CAP AT THE TERMINATION IS ALSO TO BE PAINTED GREEN AND RED TO SUIT.
- MINIMUM GRADE ON STORM SERVICE CONNECTIONS TO BE 2% UNLESS NOTED OTHERWISE.
- ALL MANHOLES TO BE MMCD STD S1 UNLESS NOTED OTHERWISE.

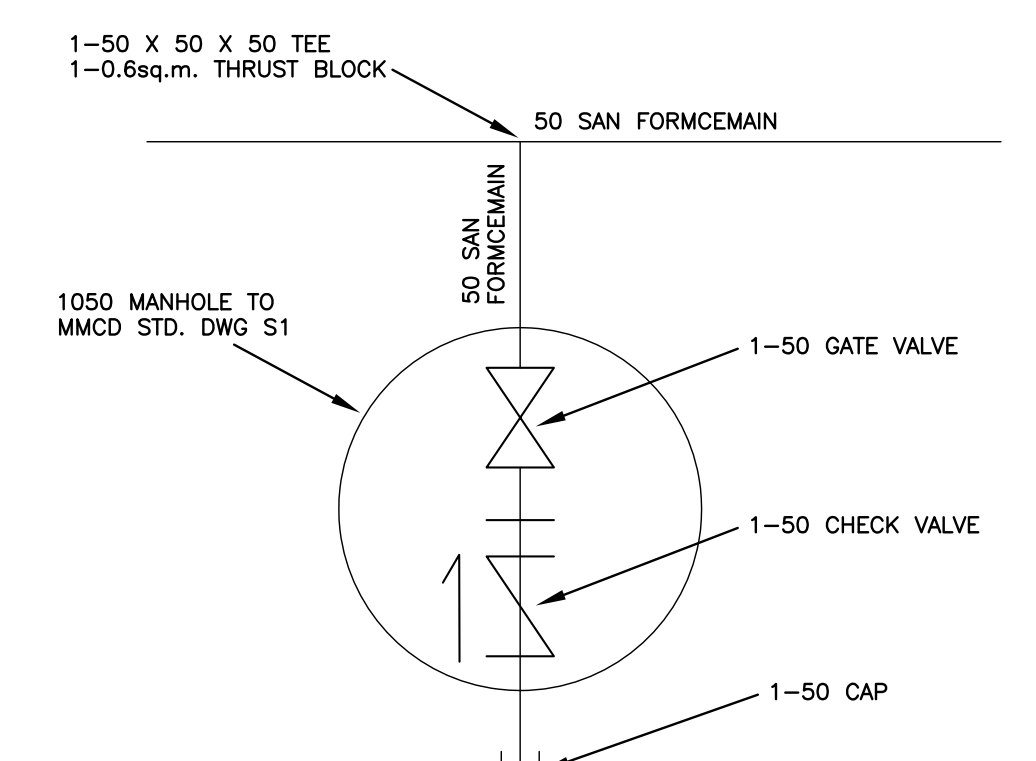
SANITARY COORDINATES		
M.H. #	NORTHING	EASTING
MH S1	1984.419	1955.076
MH S3	1973.679	1925.015
MH S4	1961.897	1896.353
MH S5	1979.162	1954.424
MH S6	1951.456	1908.594
MH S7	1967.265	1903.122



SEE DRAWING 3186-1 FOR GENERAL NOTES



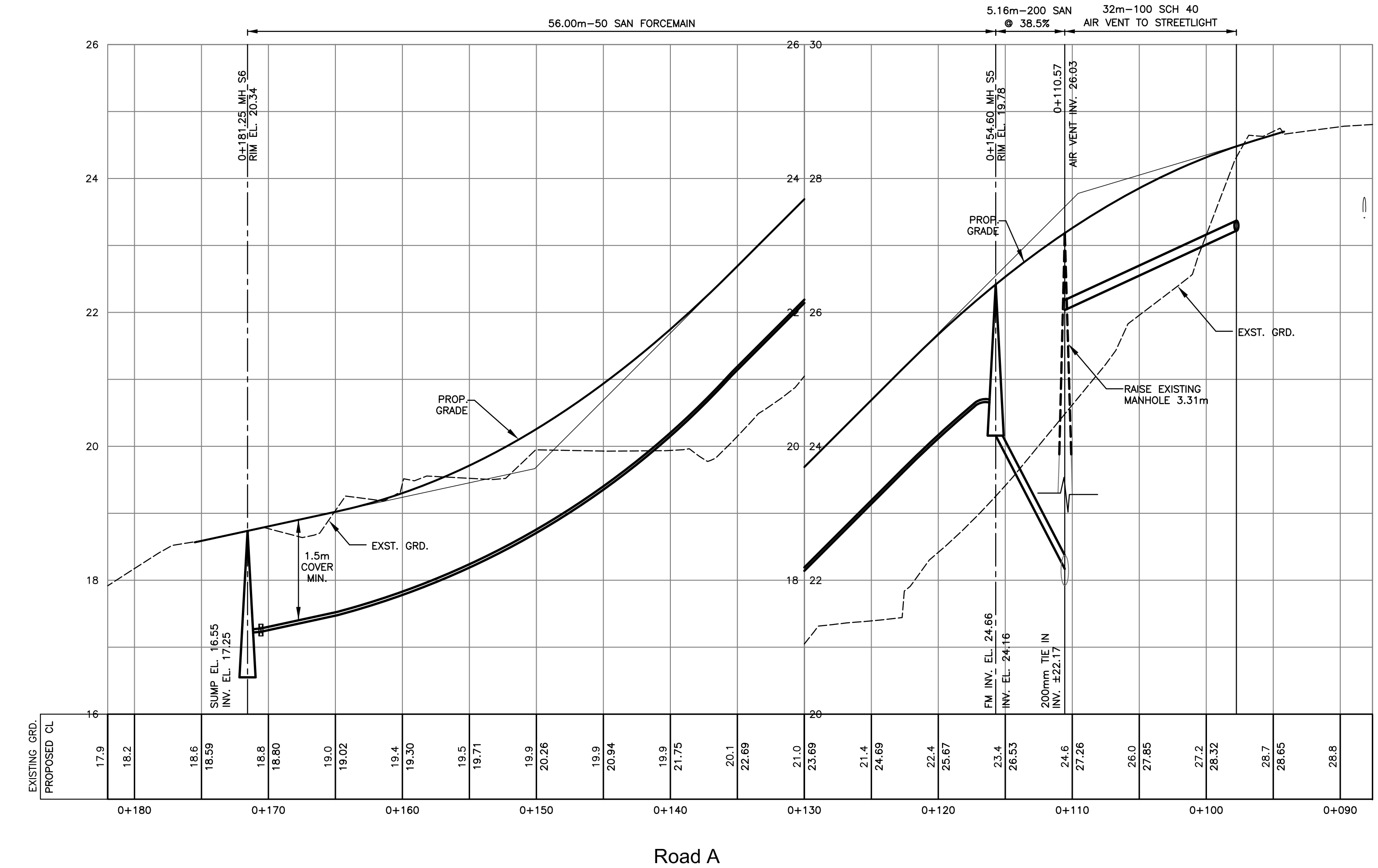
**DETAIL 3**  
SANITARY CLEANOUT MANHOLE  
N.T.S.



**DETAIL 4**  
SANITARY SERVICE CONNECTION (TYP.)  
N.T.S.

CONTRACTOR TO VERIFY & LOCATE EXISTING MAINS & SERVICE CONNECTIONS & NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO BEGINNING CONSTRUCTION

SEE LANDSCAPE PLANS FOR LANDSCAPE DETAILS



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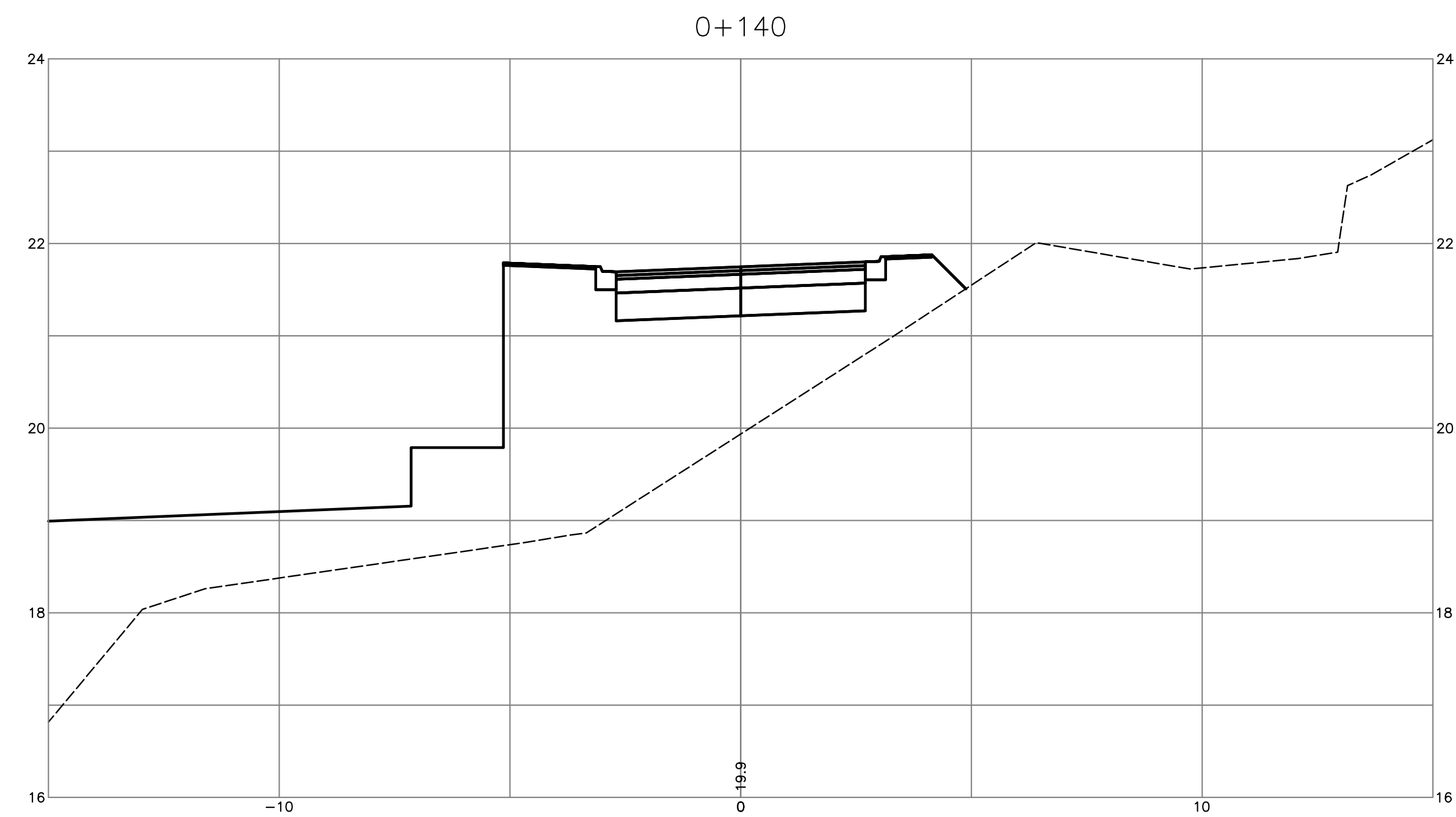
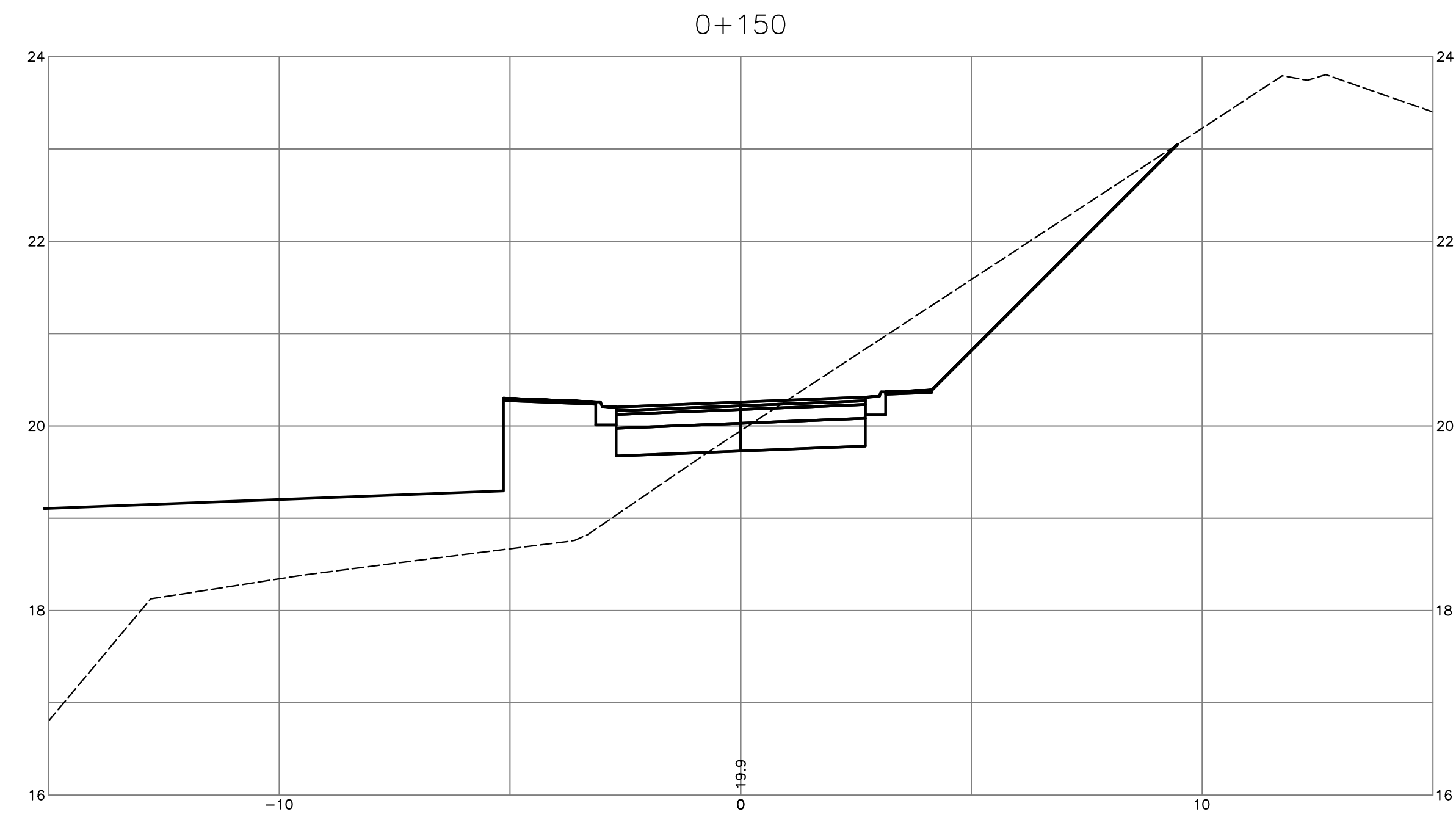
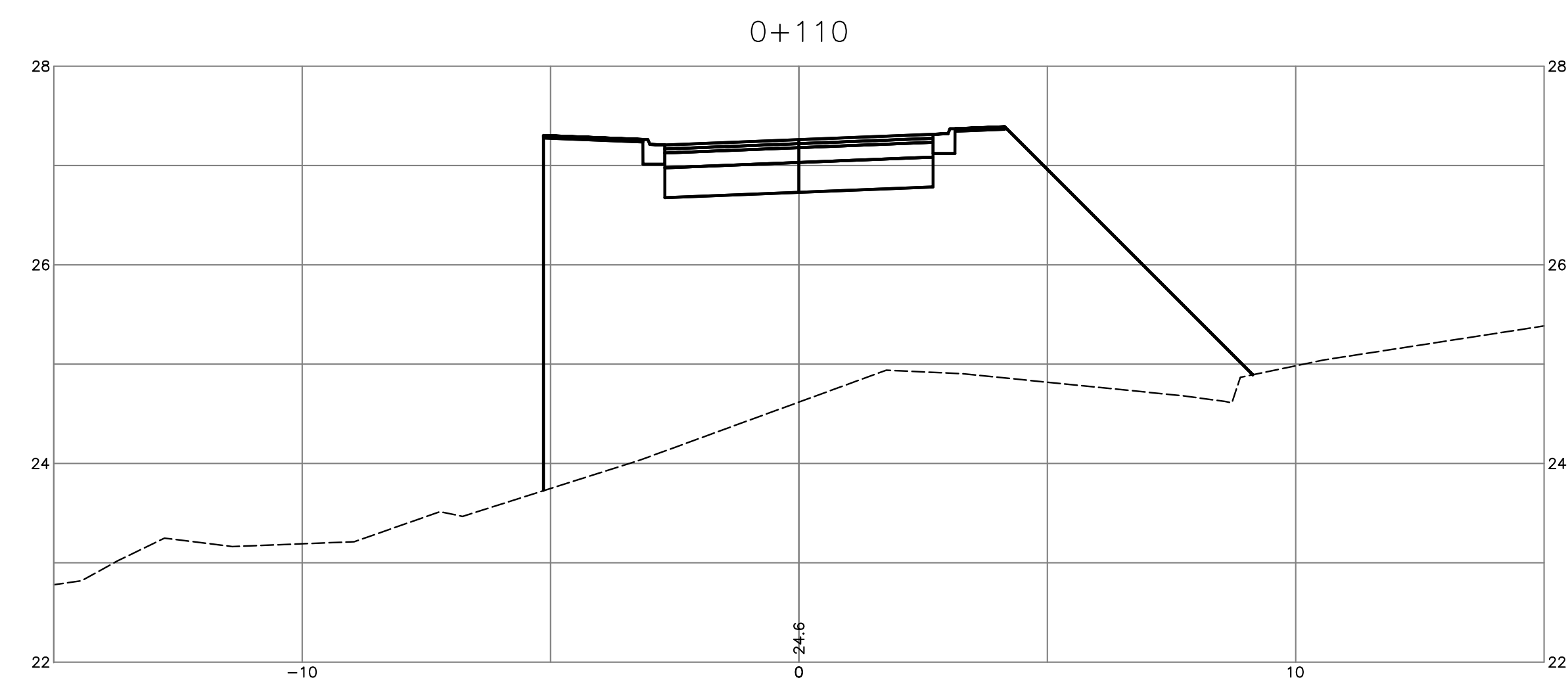
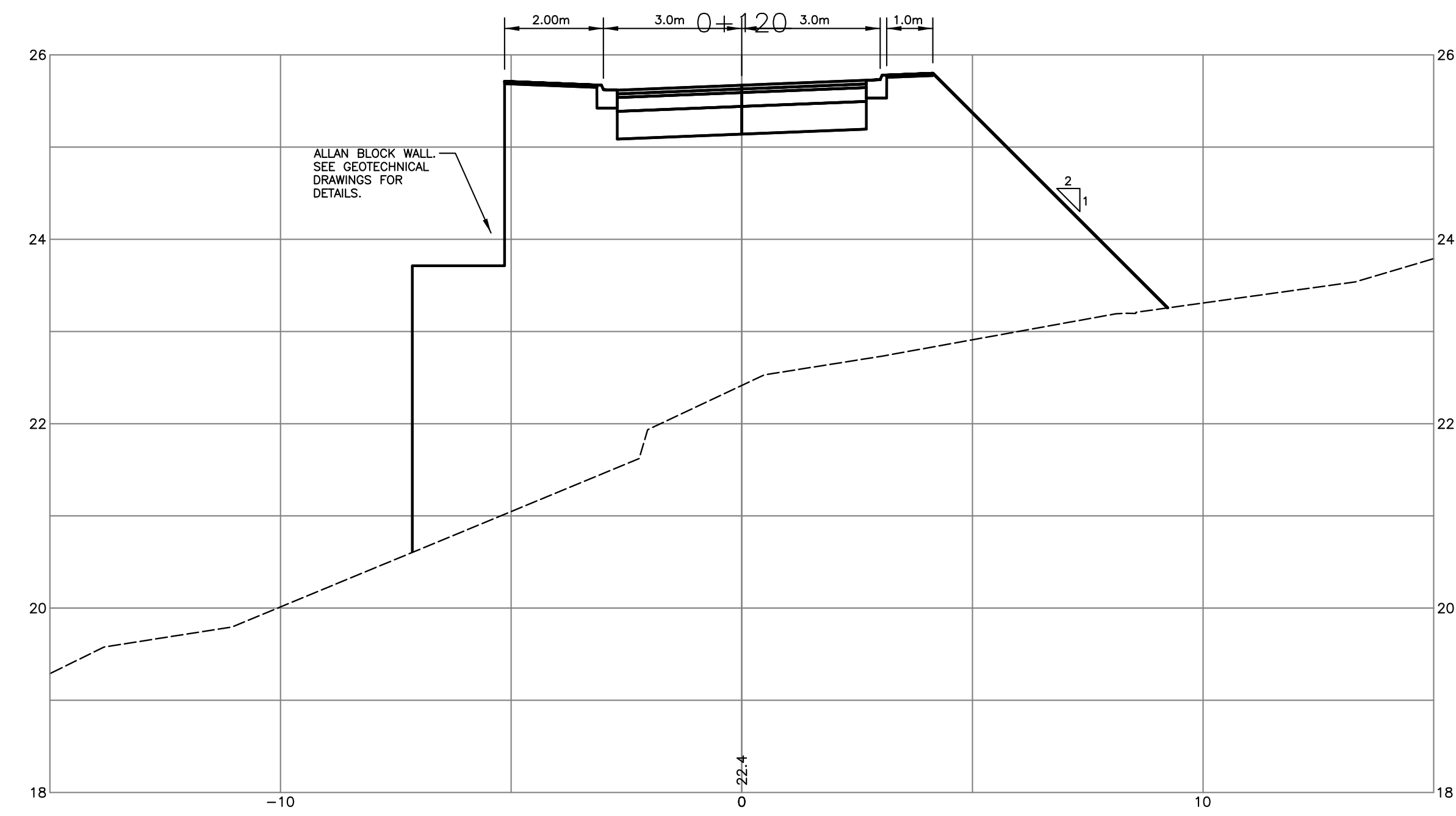
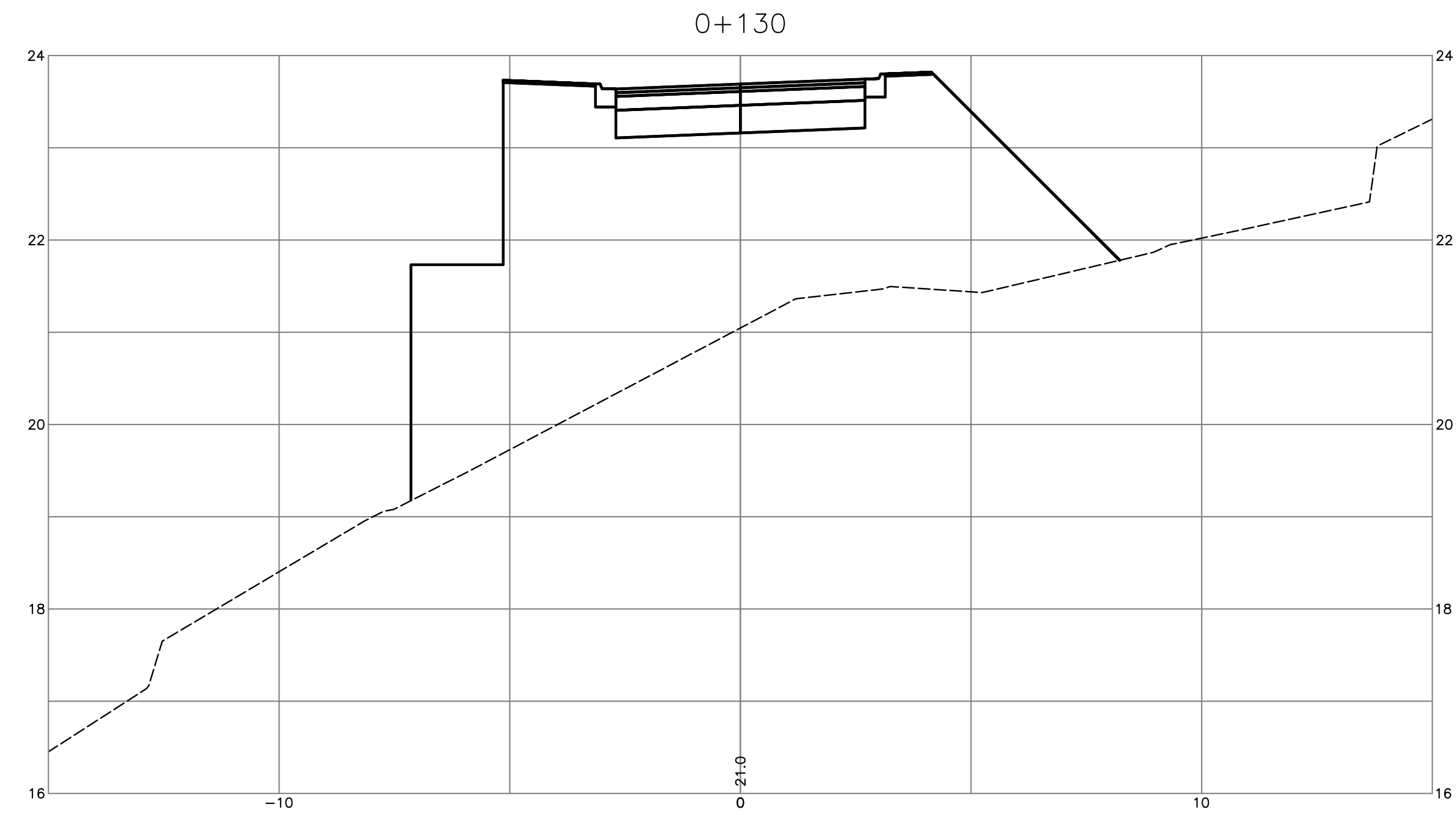
client	NICK EBRAHIM
project	3707 DOLLARTON HIGHWAY NORTH VANCOUVER, BRITISH COLUMBIA

approved	DESIGNED BY	DKD
	DRAWN BY	DKD
	CHECKED BY	FMC
	DATE	FEB.28.08

scale	hor: 1:250	vert: 1:50
file no.	3186	
drawing no.	S-1	rev. 3

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**NICK EBRAHIM**

project  
**3707 DOLLARTON HIGHWAY  
NORTH VANCOUVER, BRITISH COLUMBIA**

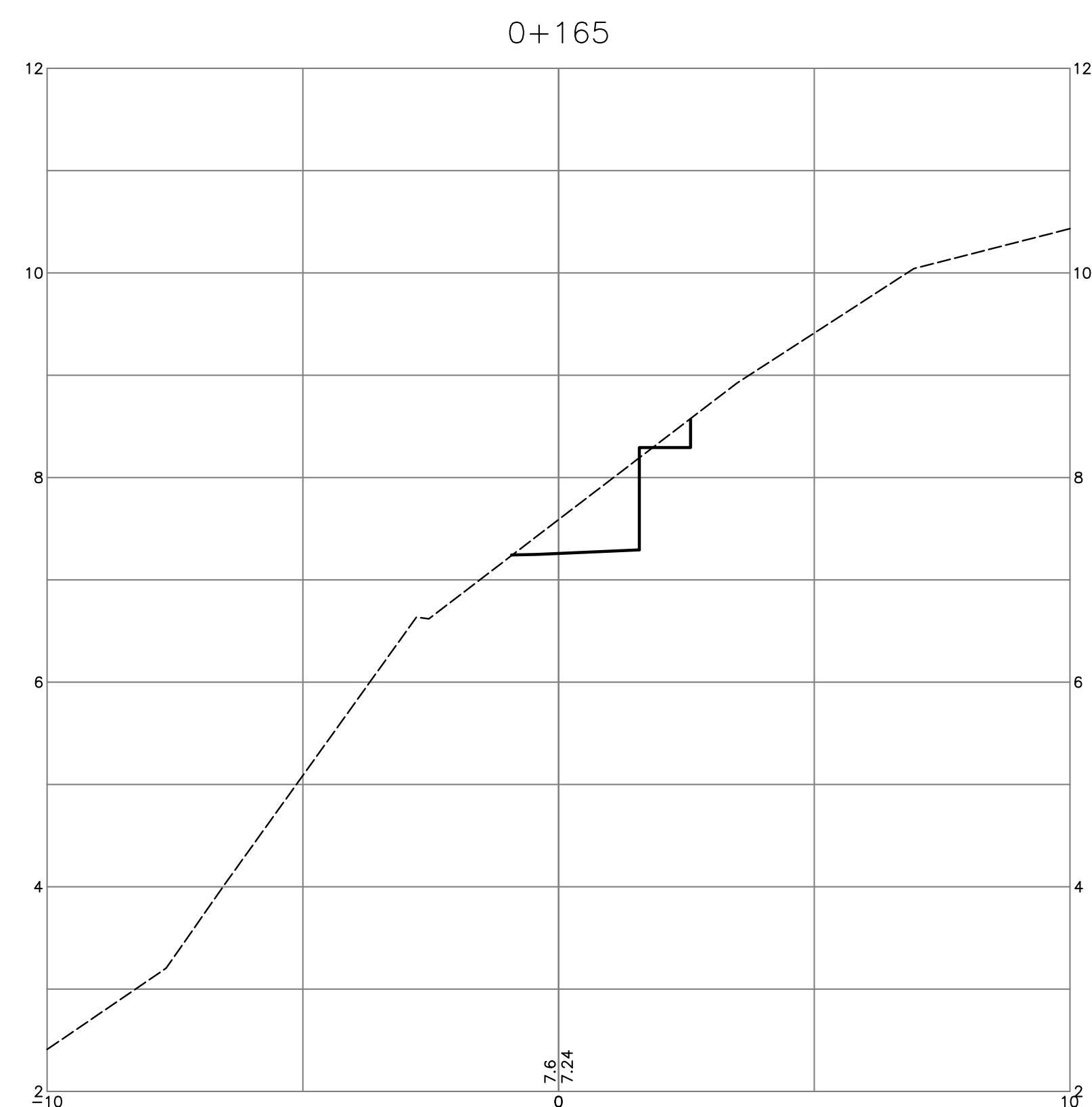
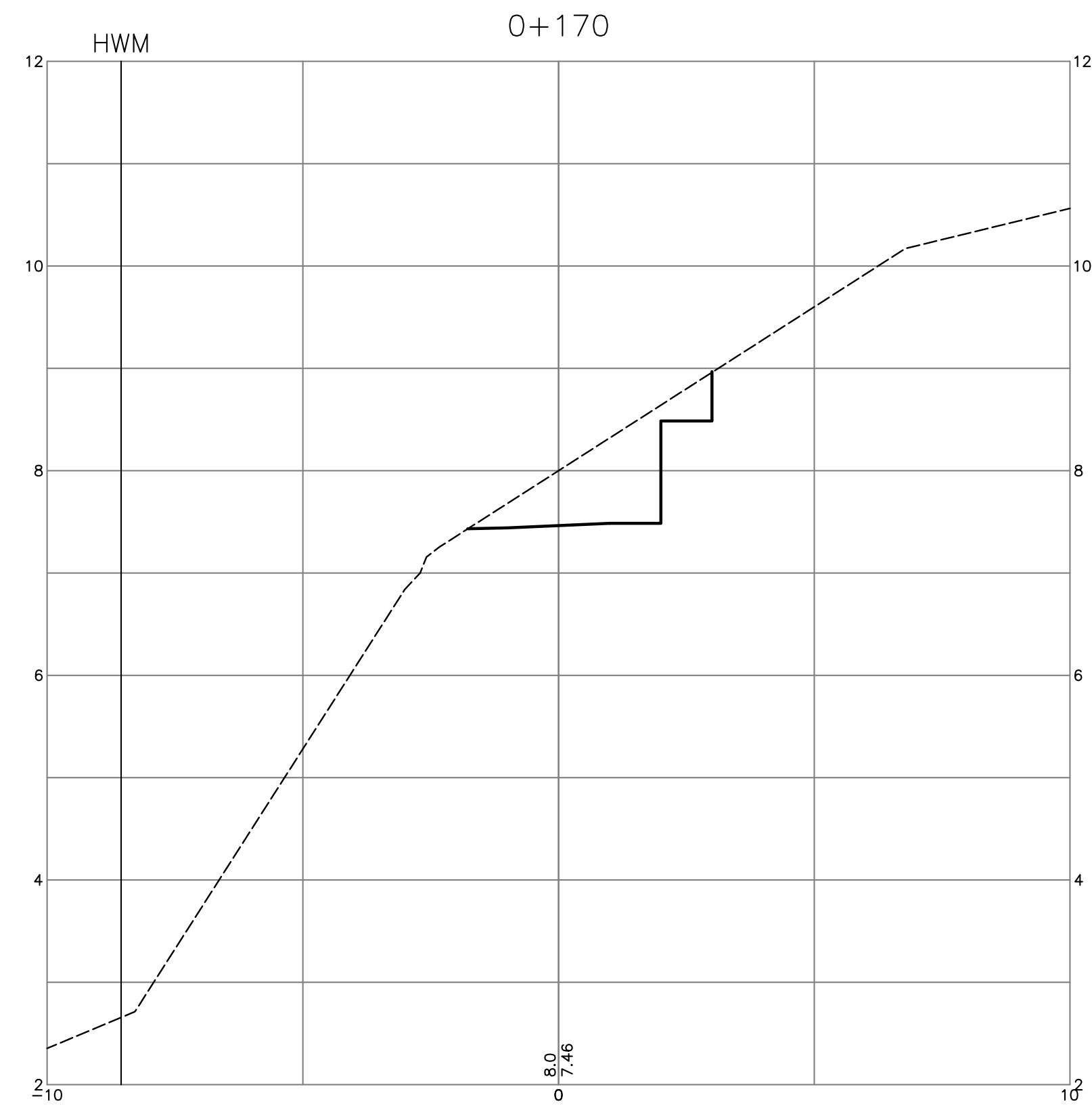
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LAND DEVELOPMENT CONSULTANTS

approved	designed by	JKW
	drawn by	JKW
	checked by	FMC
	date	FEB.28.08

CROSS-SECTIONS  
ROAD A

scales	hor: 1:100	vert: 1:50
file no.	3186	
drawing no.	X-1	rev. 3



TRAIL

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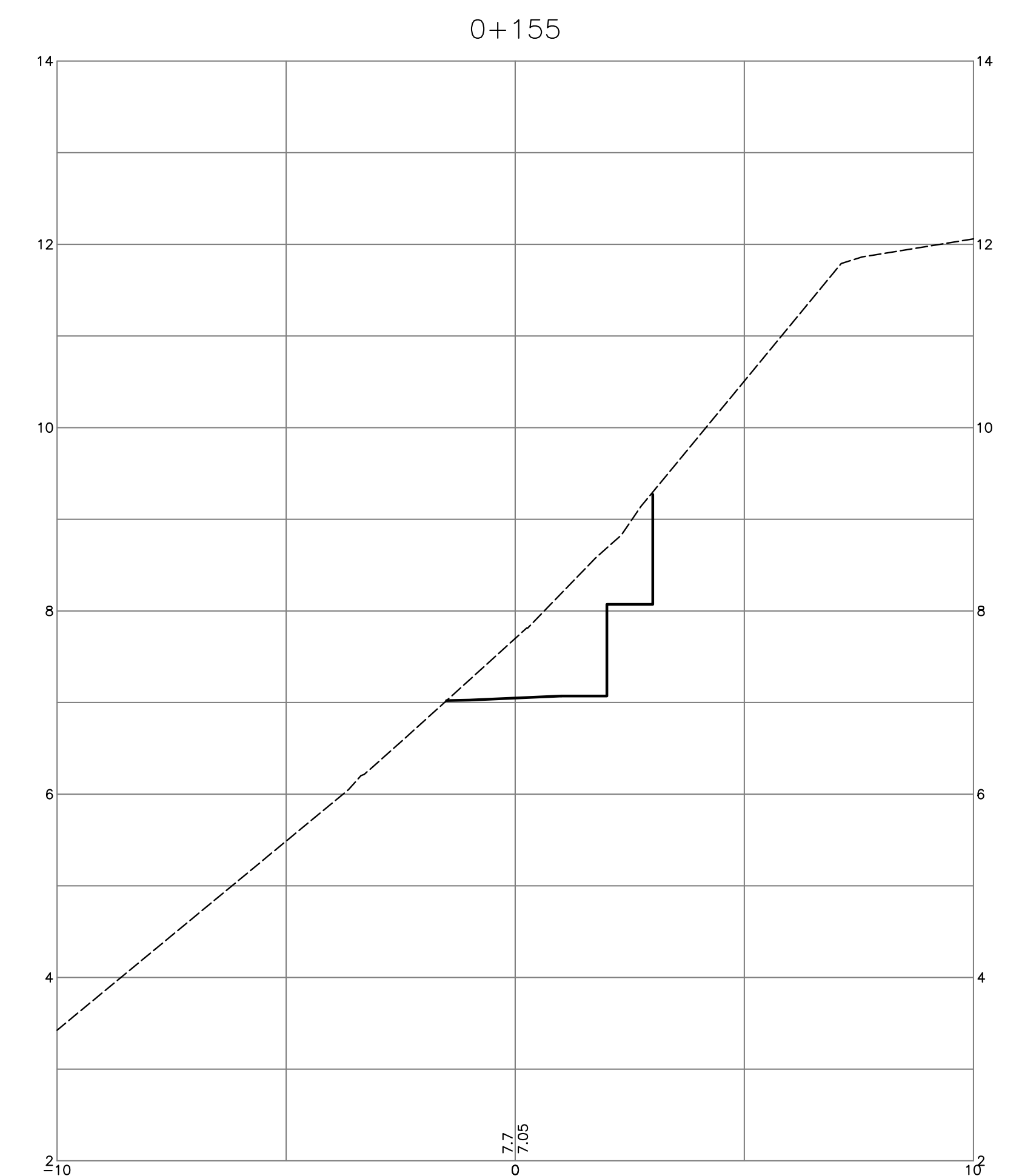
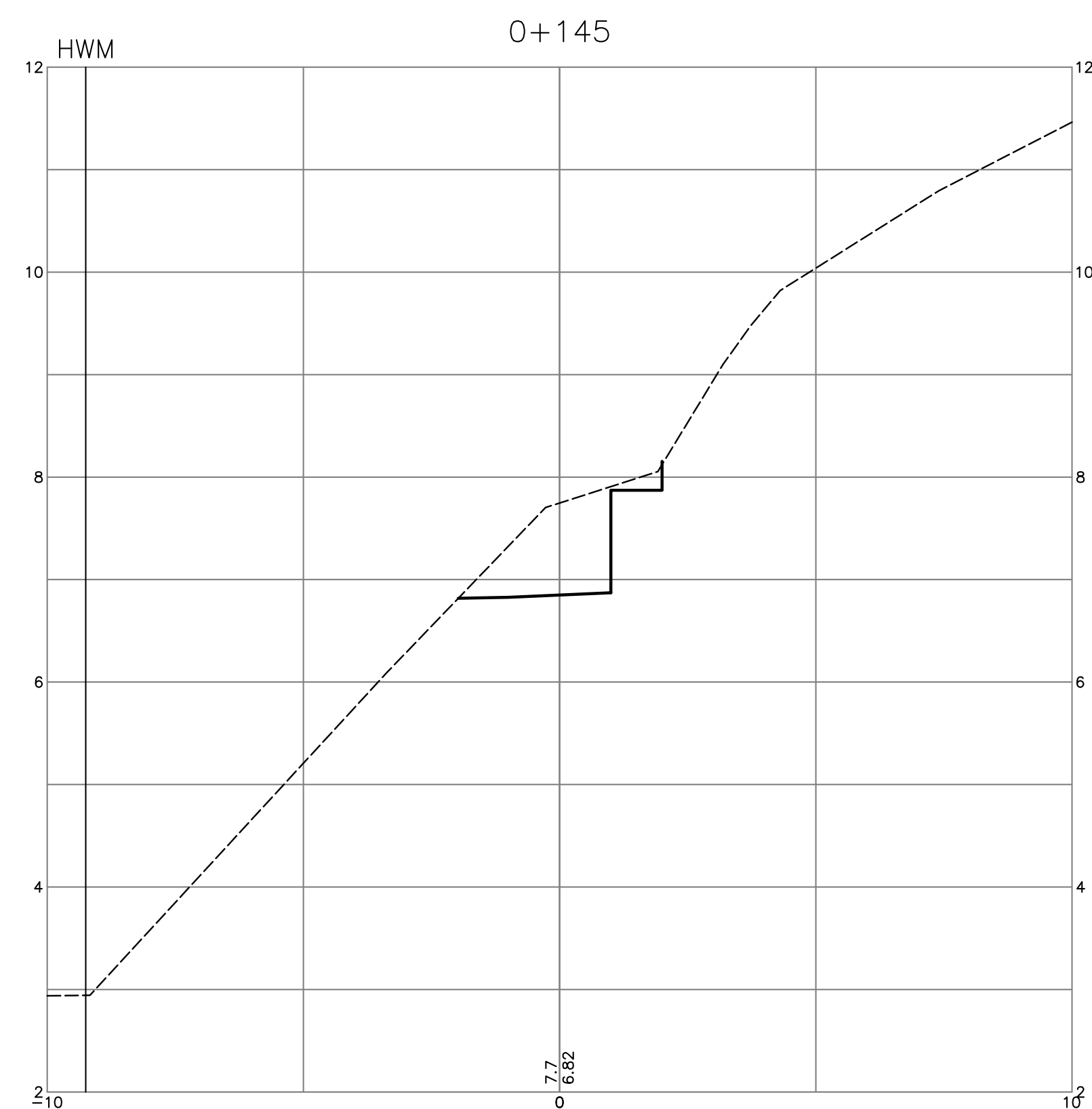
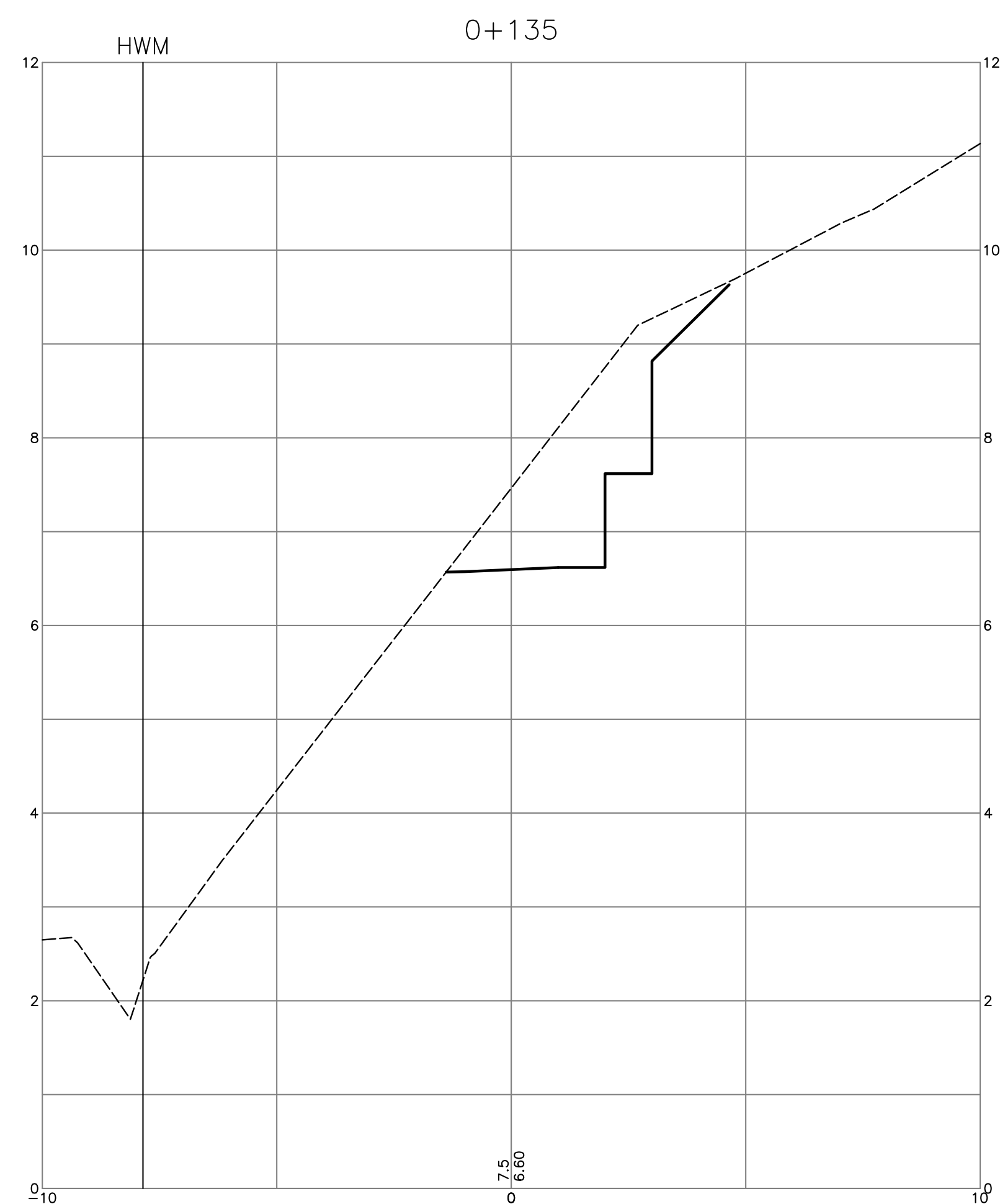
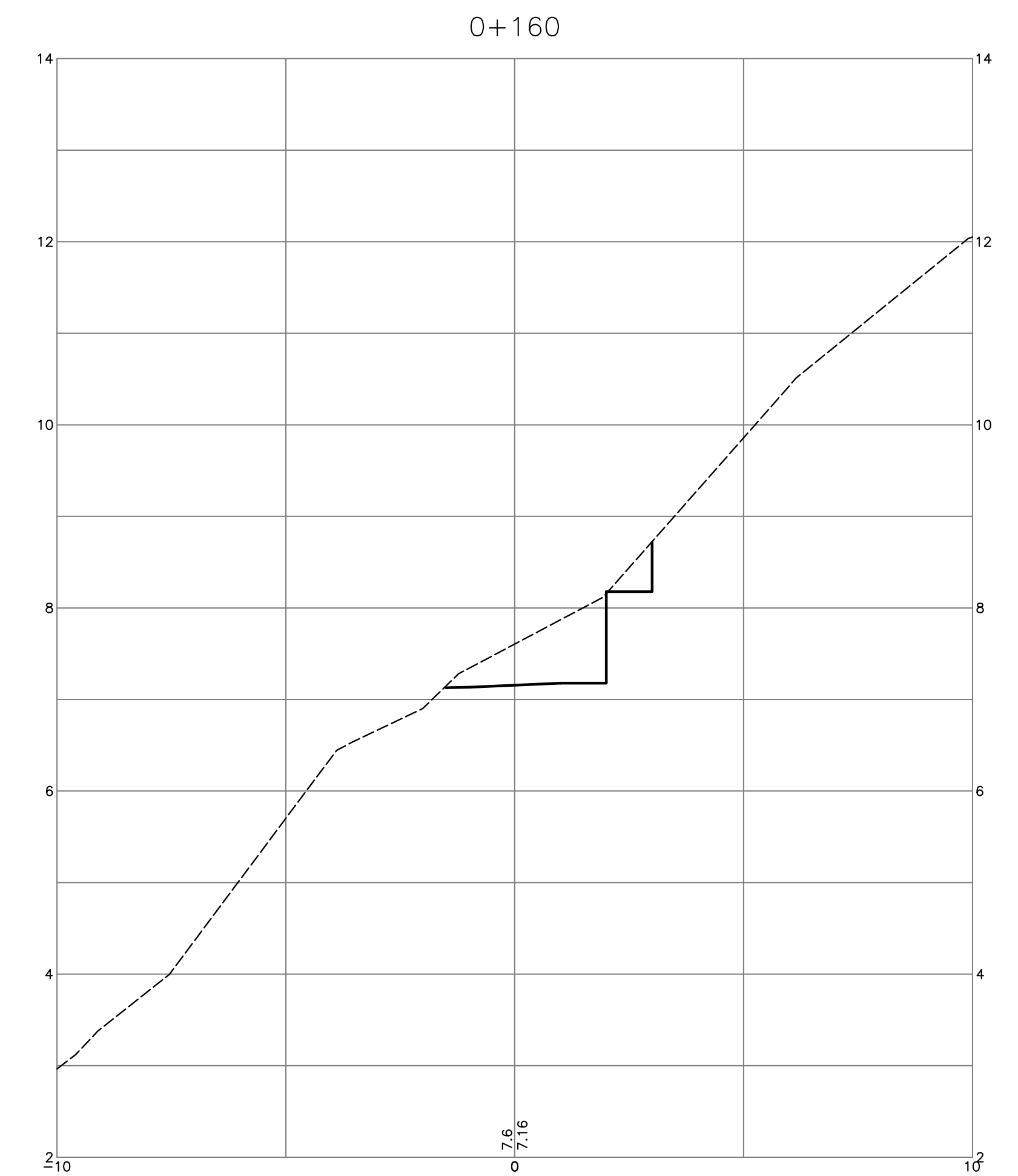
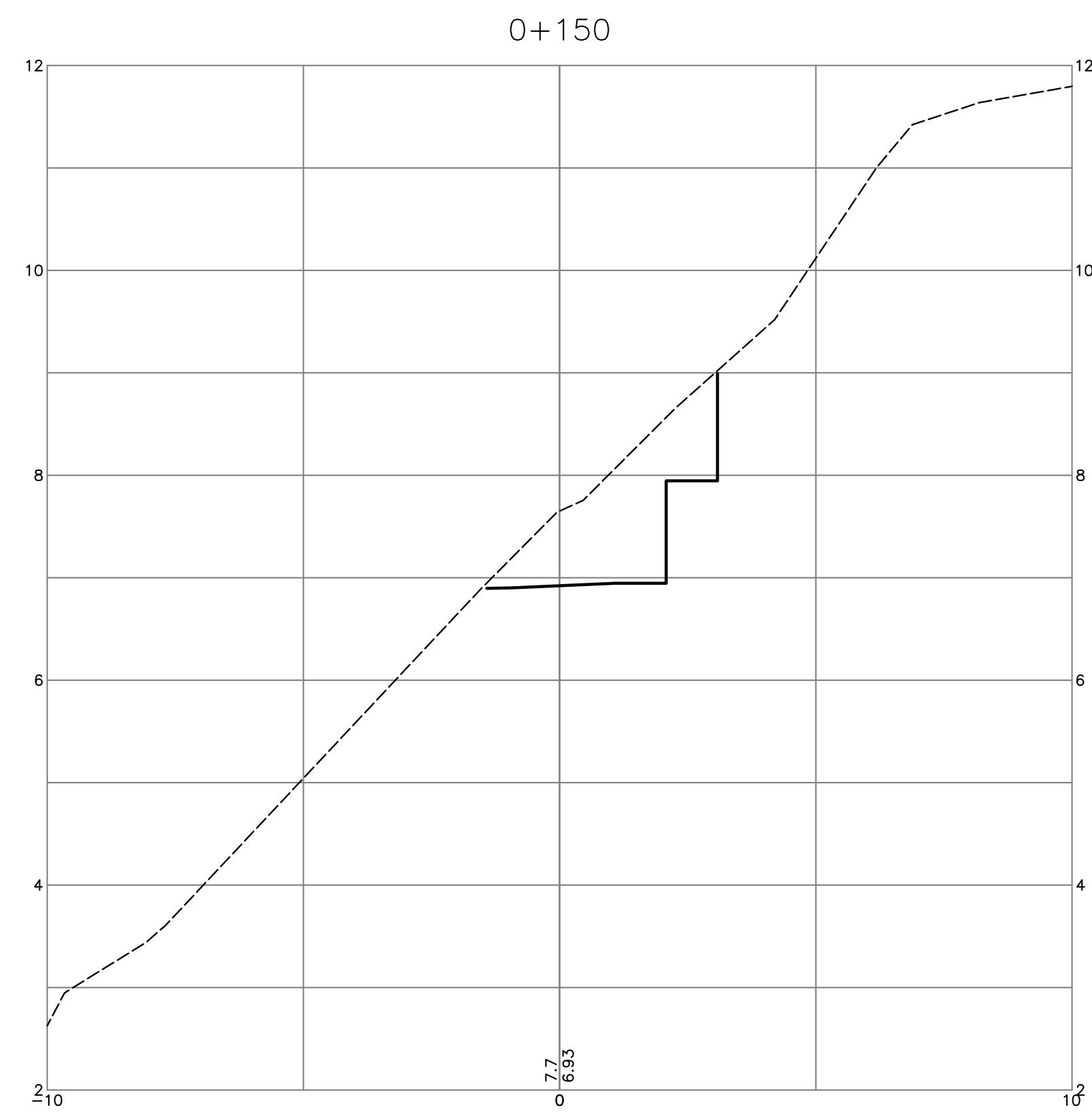
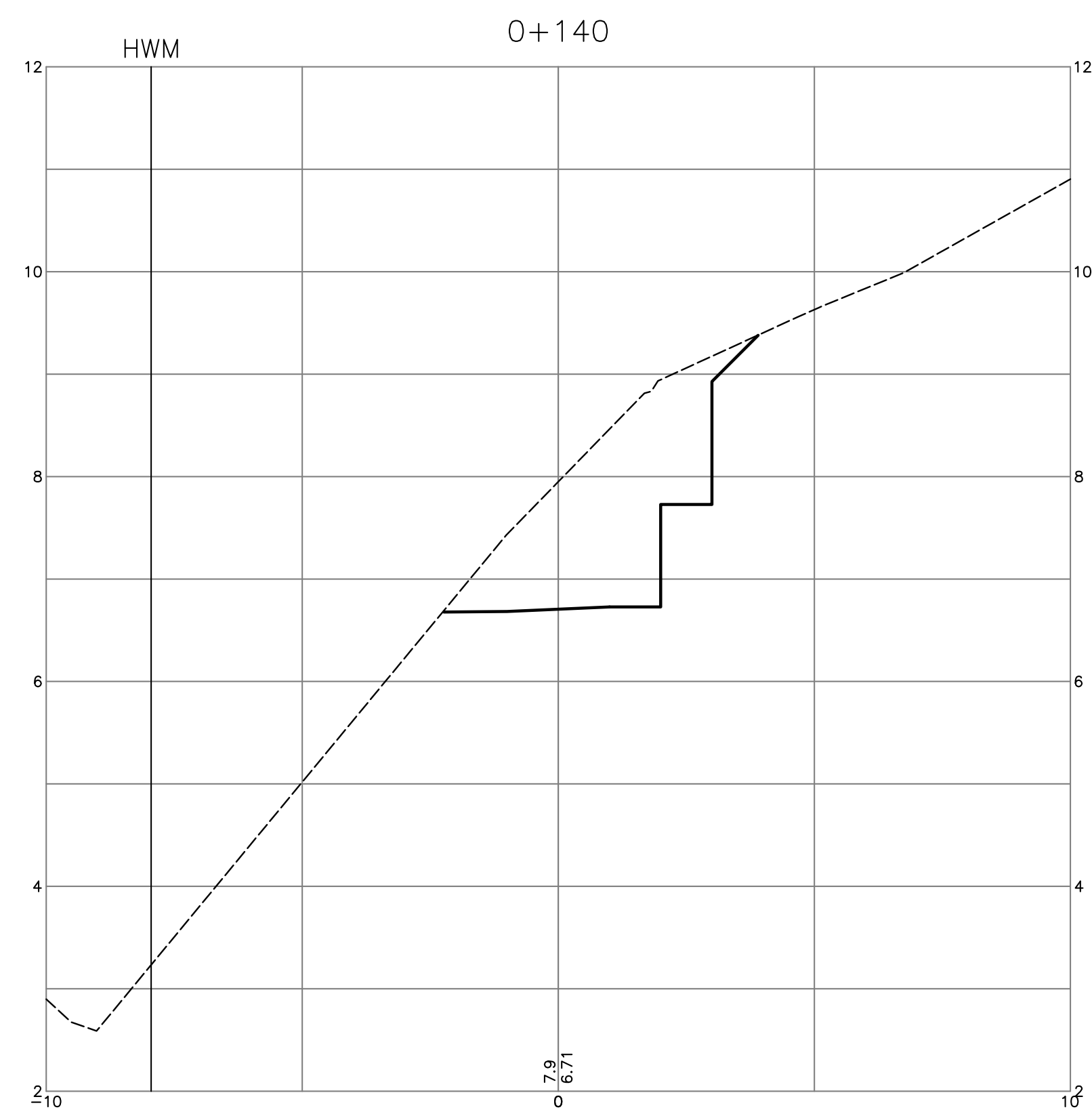
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designed by	DKD
drawn by	DKD
checked by	FMC
date	JUN.01.08

title	CROSS-SECTIONS TRAIL
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drawing no.	X-6
rev.	3



TRAIL

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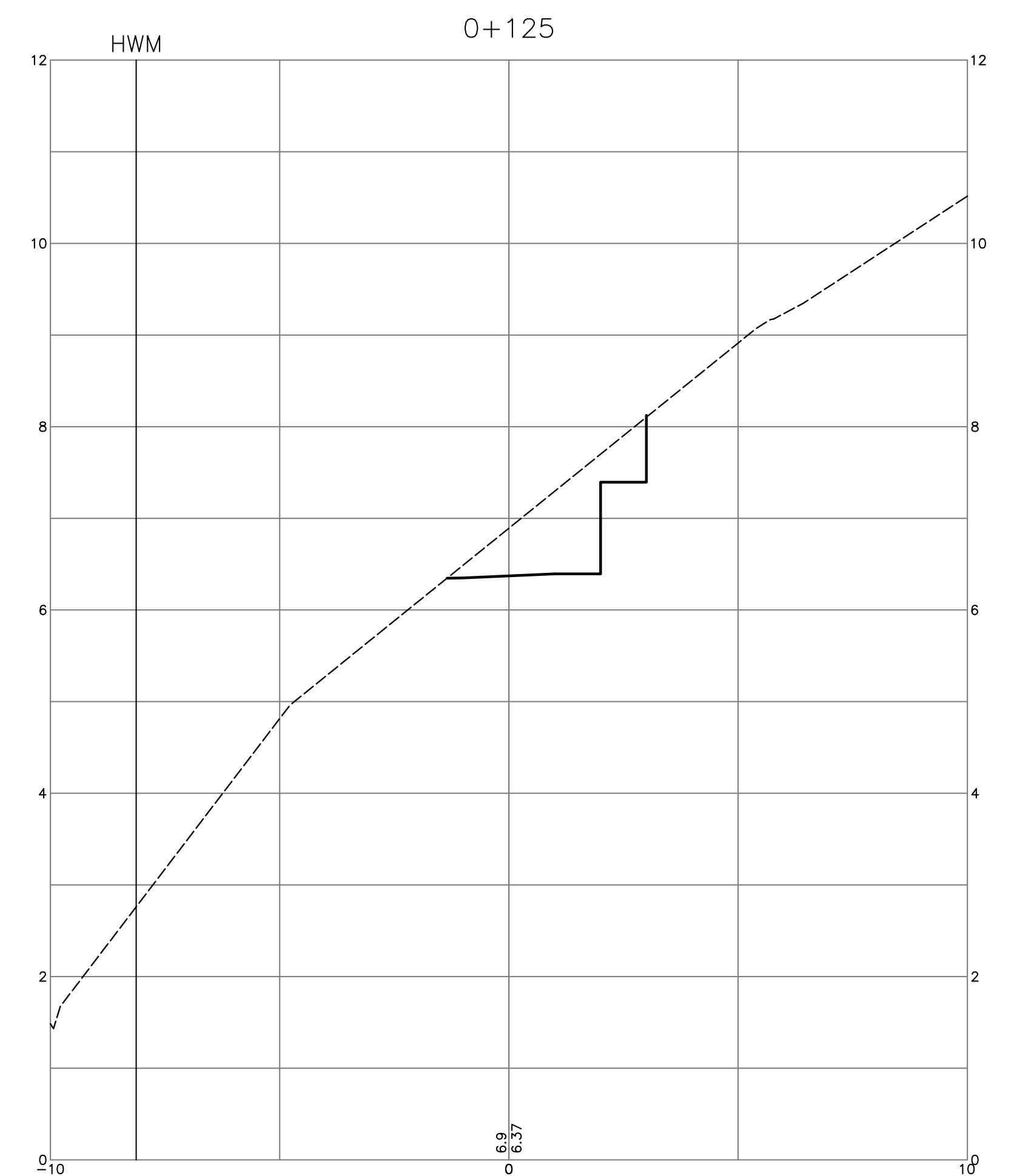
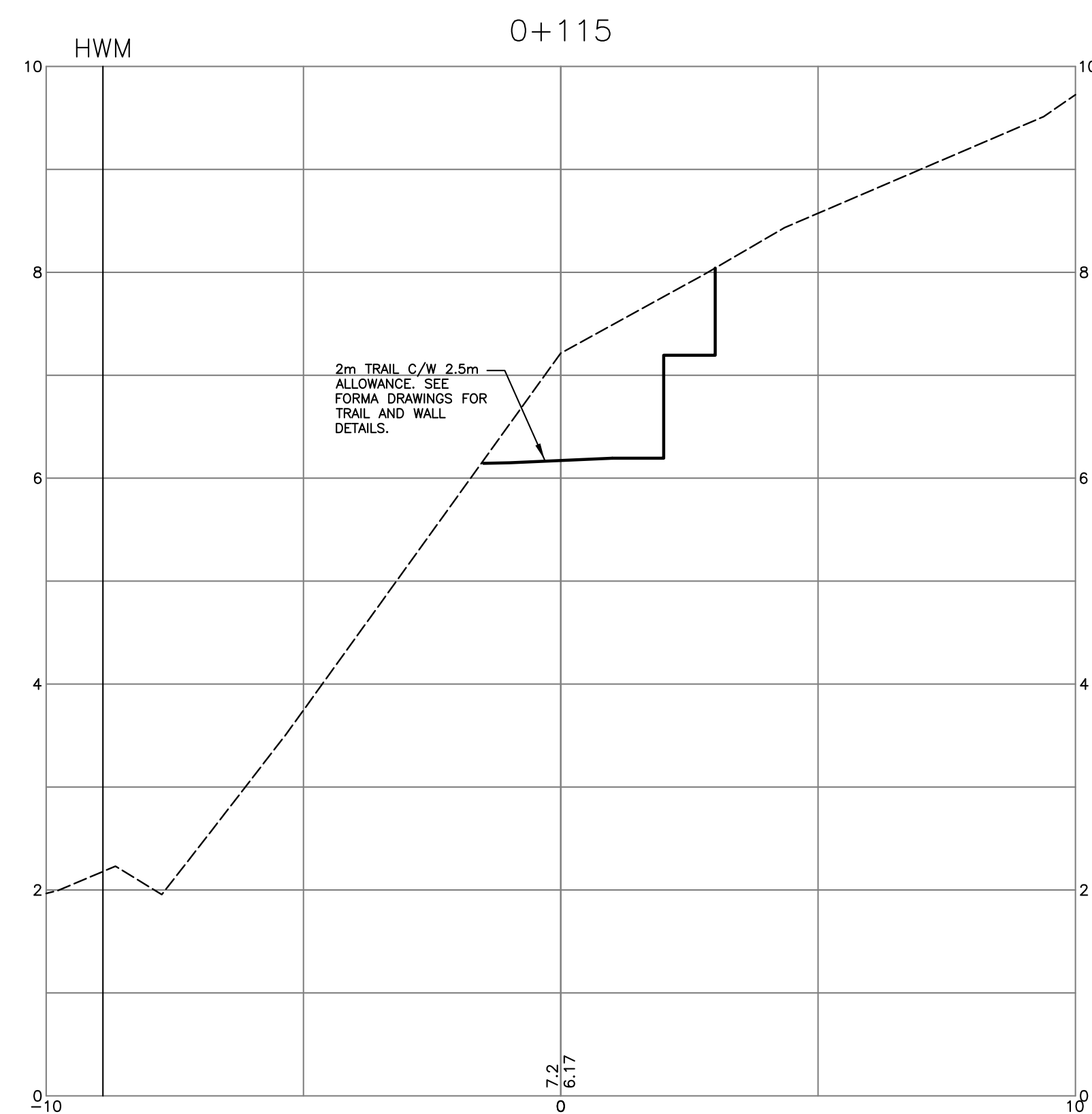
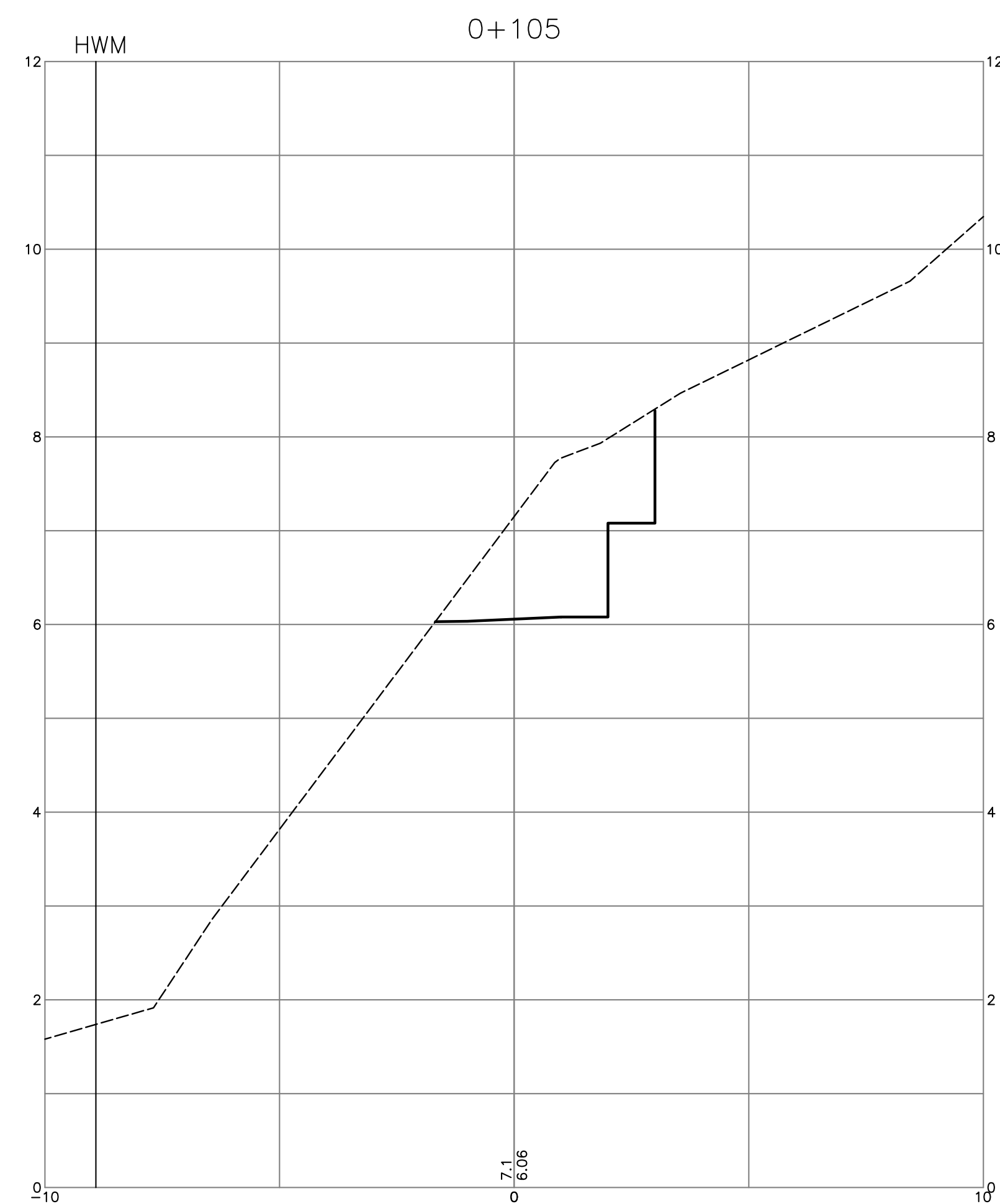
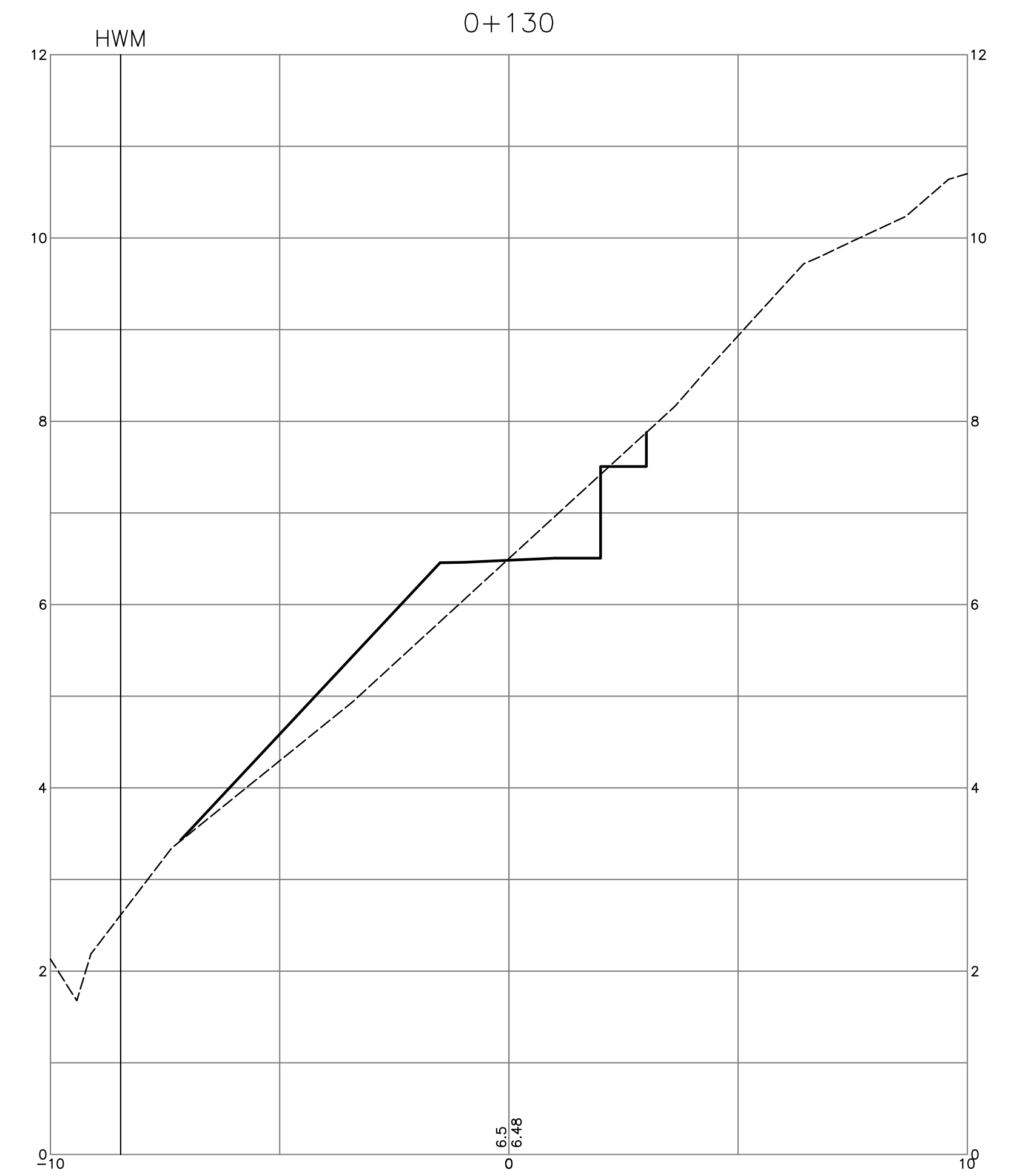
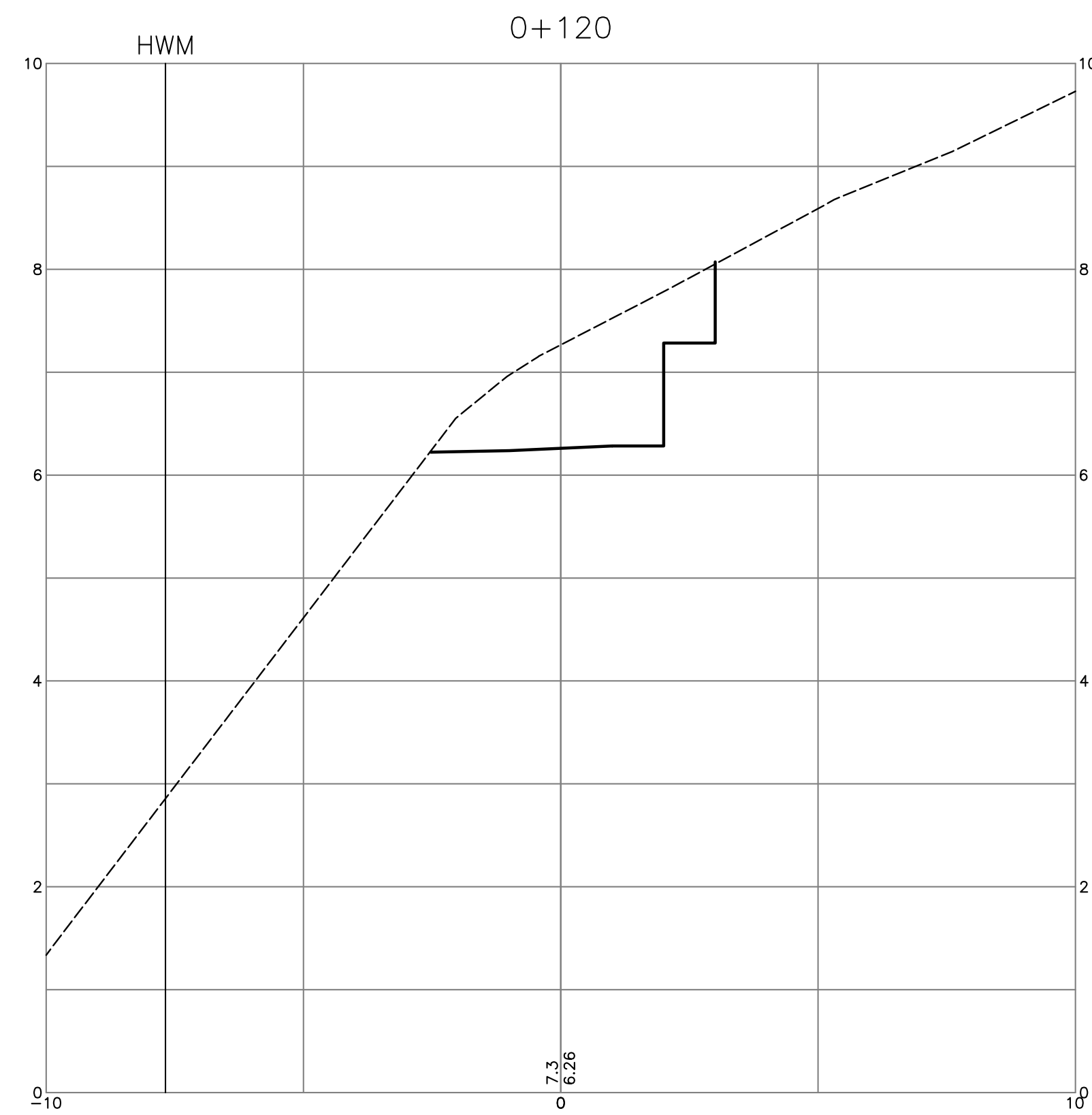
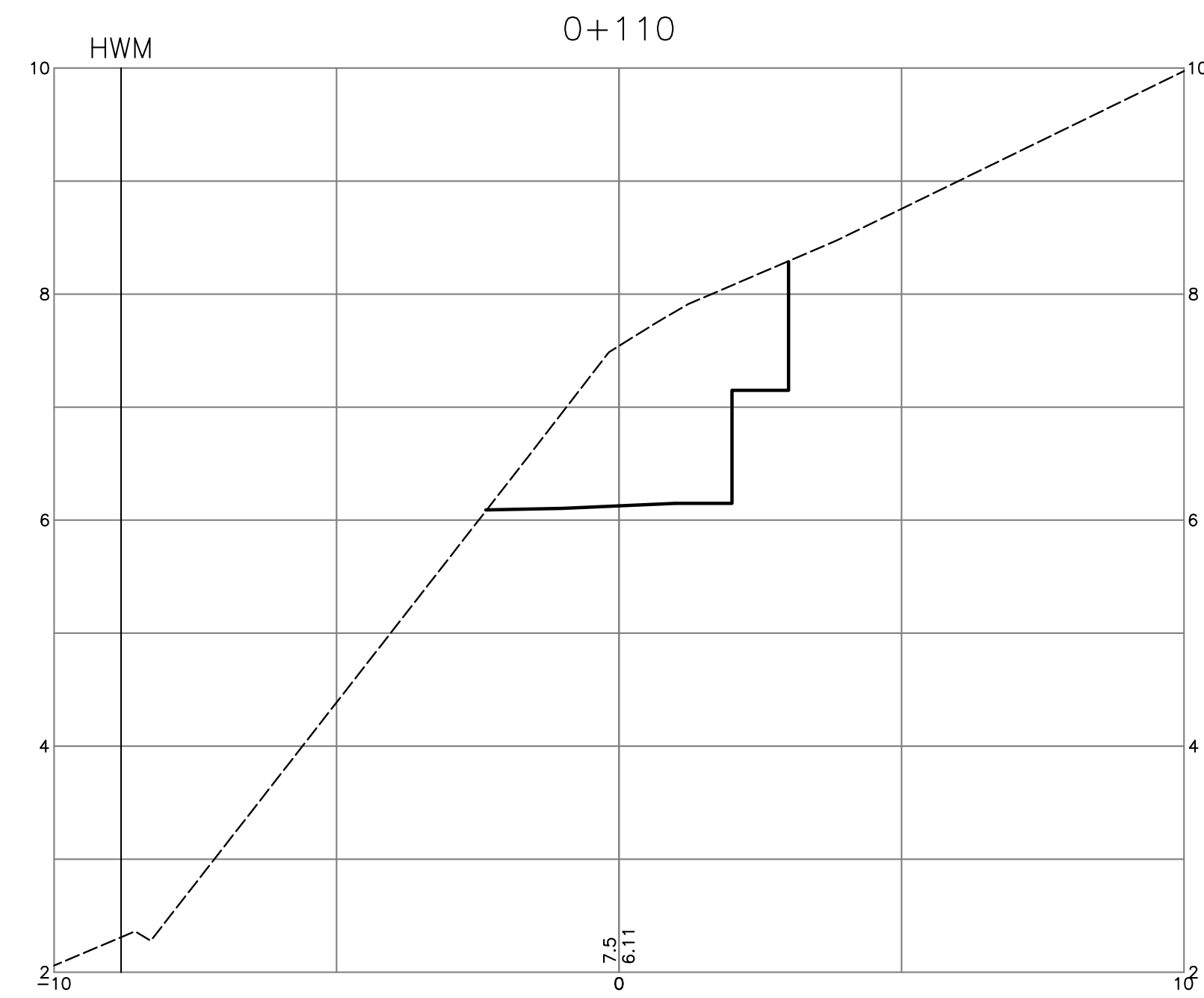
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 LAND DEVELOPMENT CONSULTANTS

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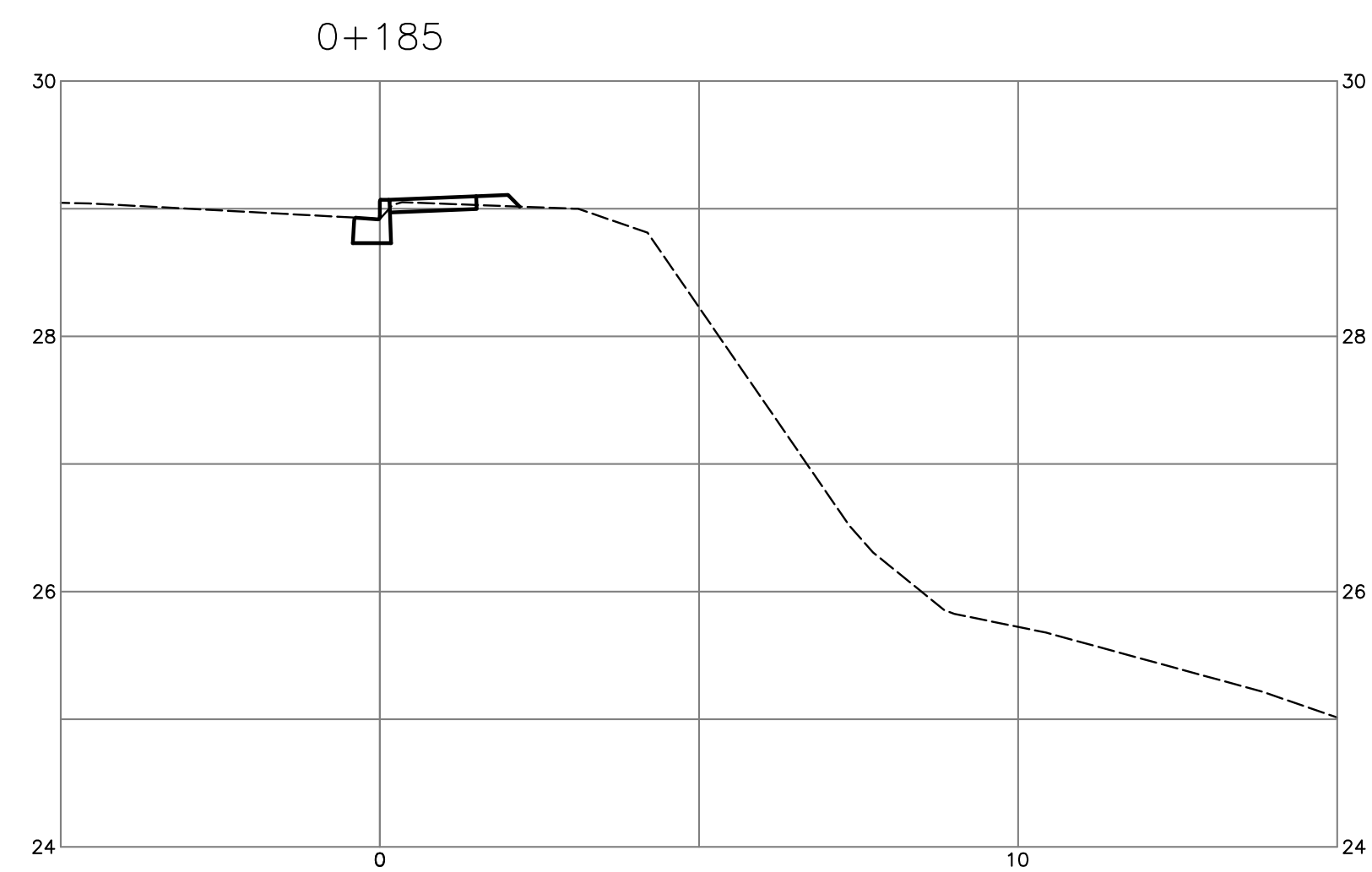
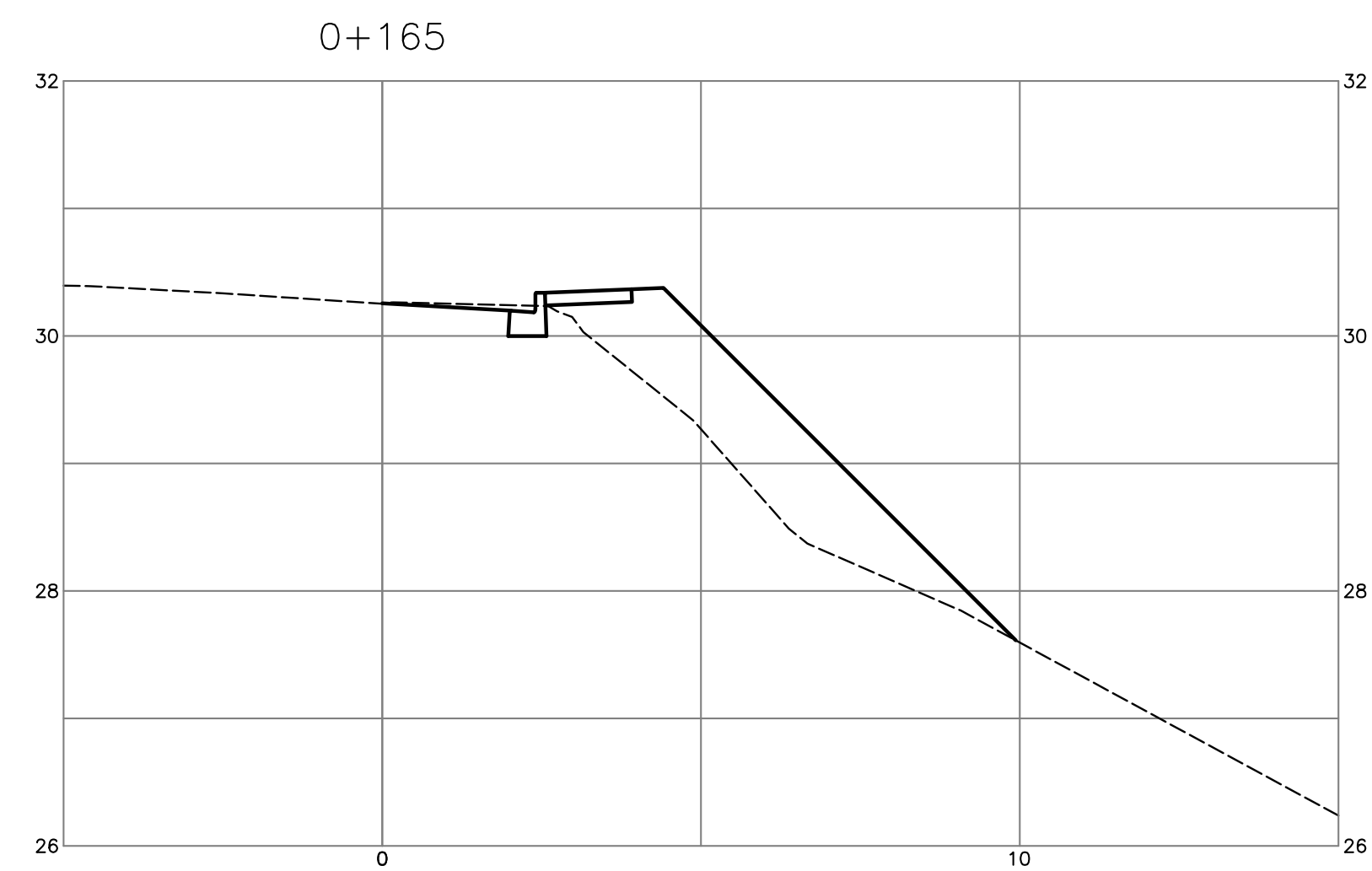
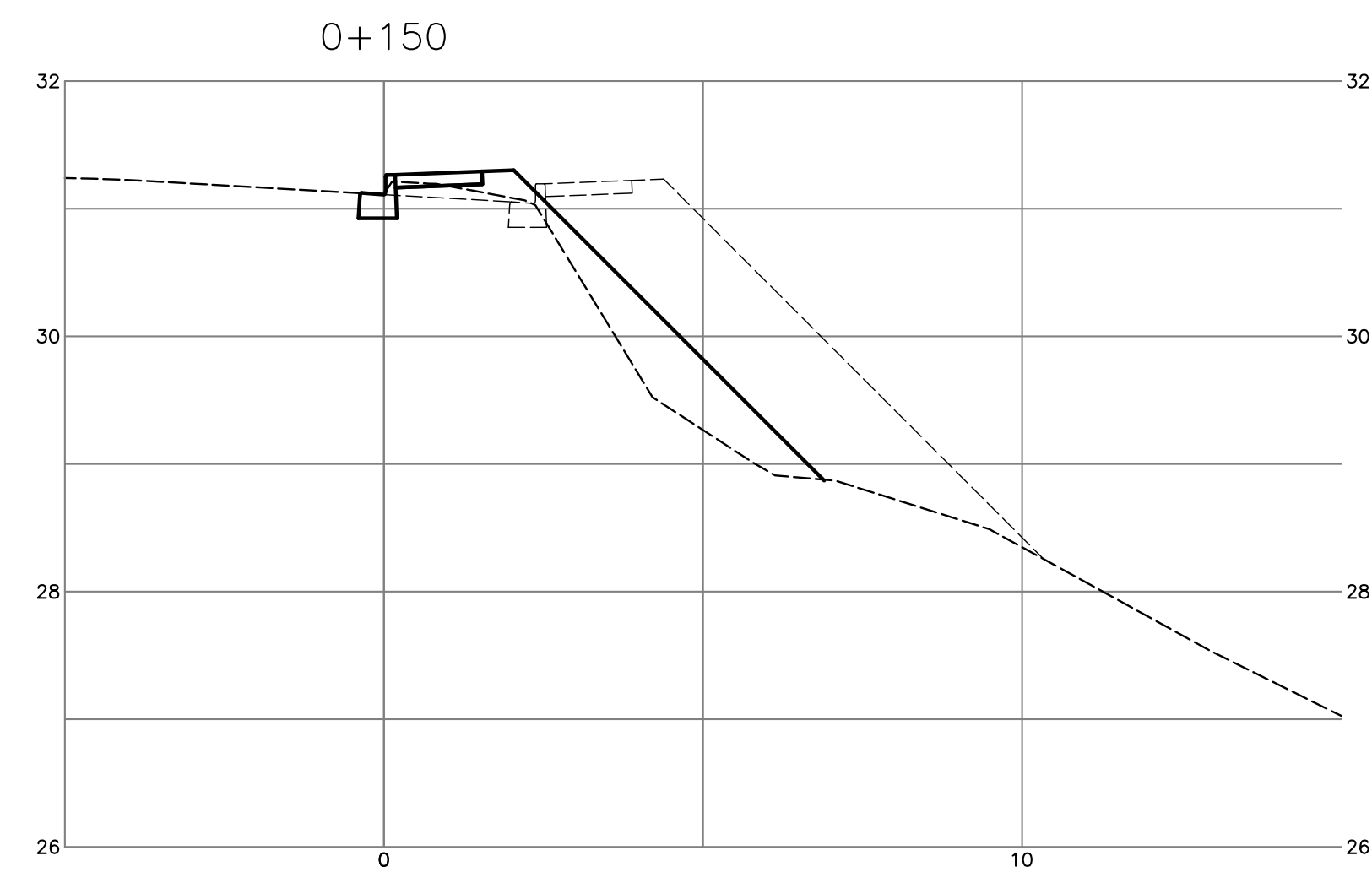
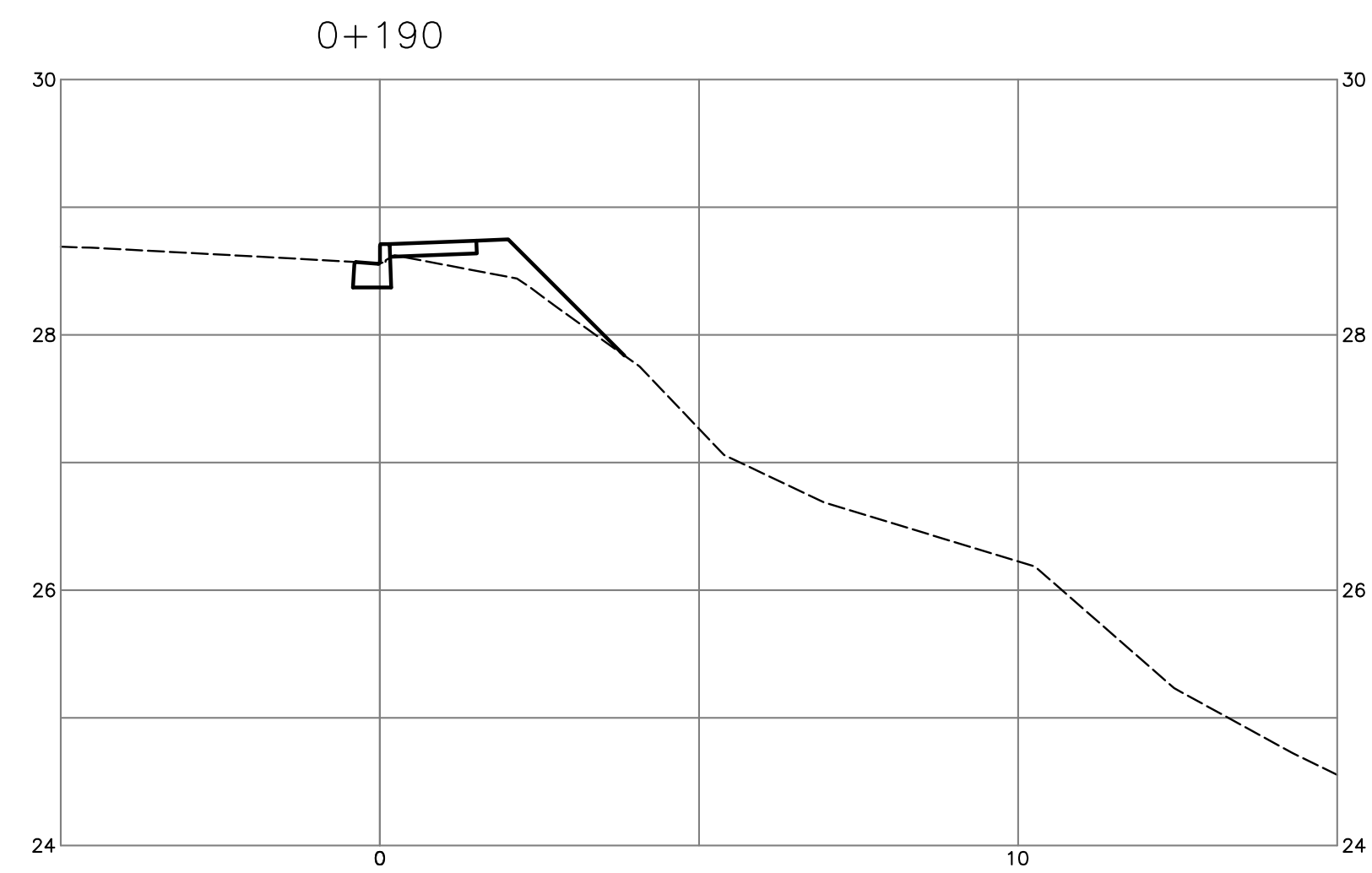
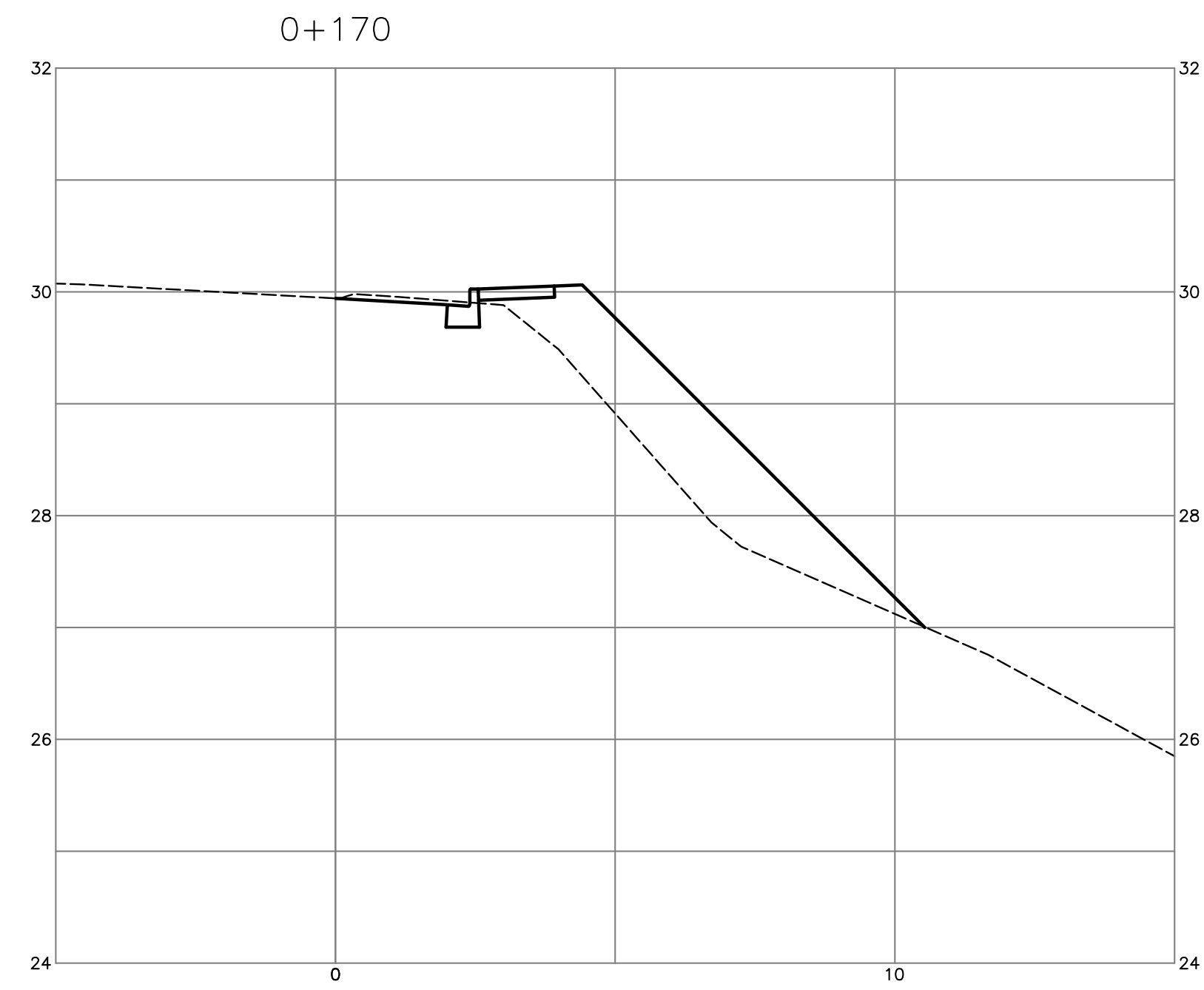
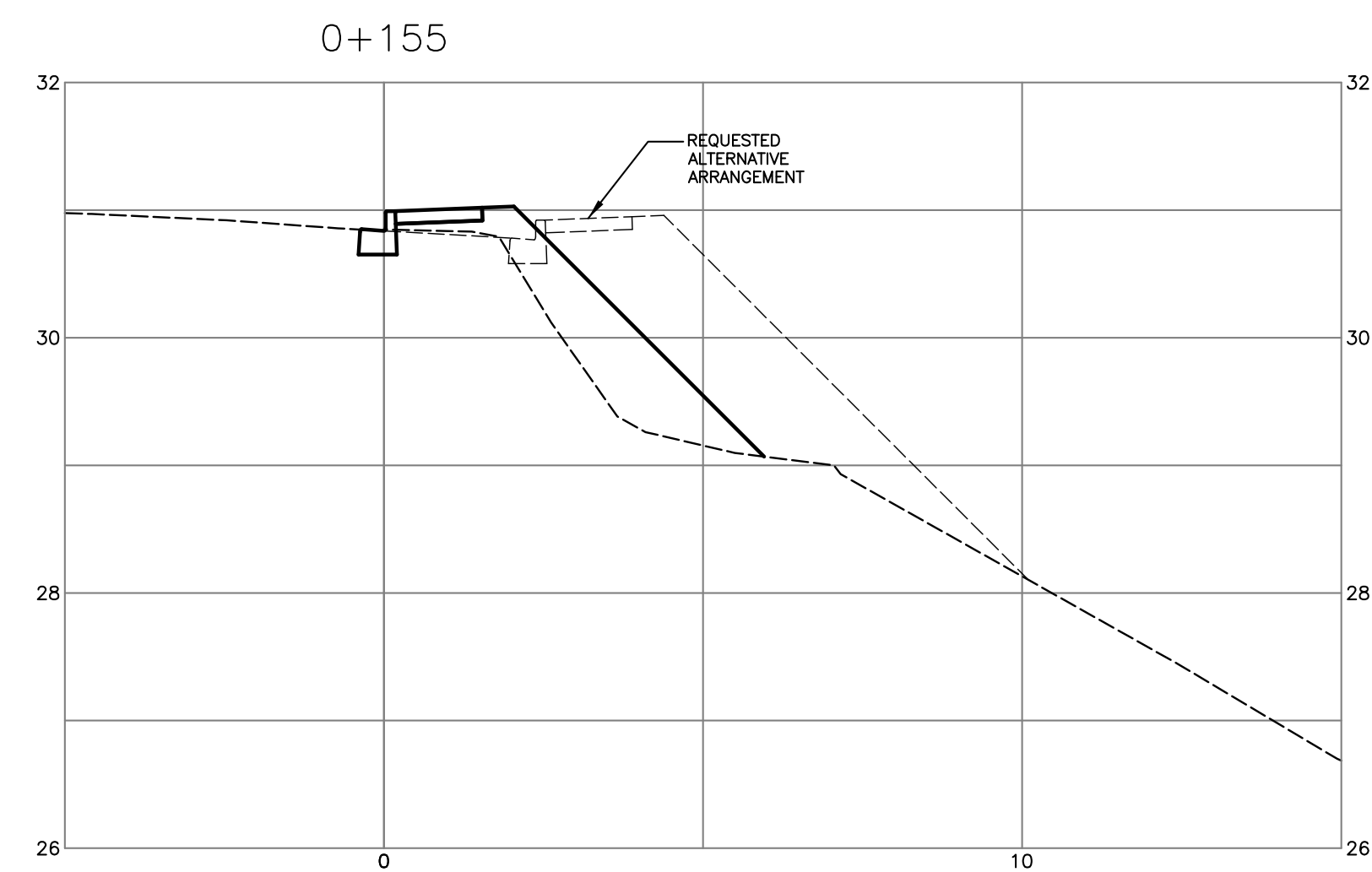
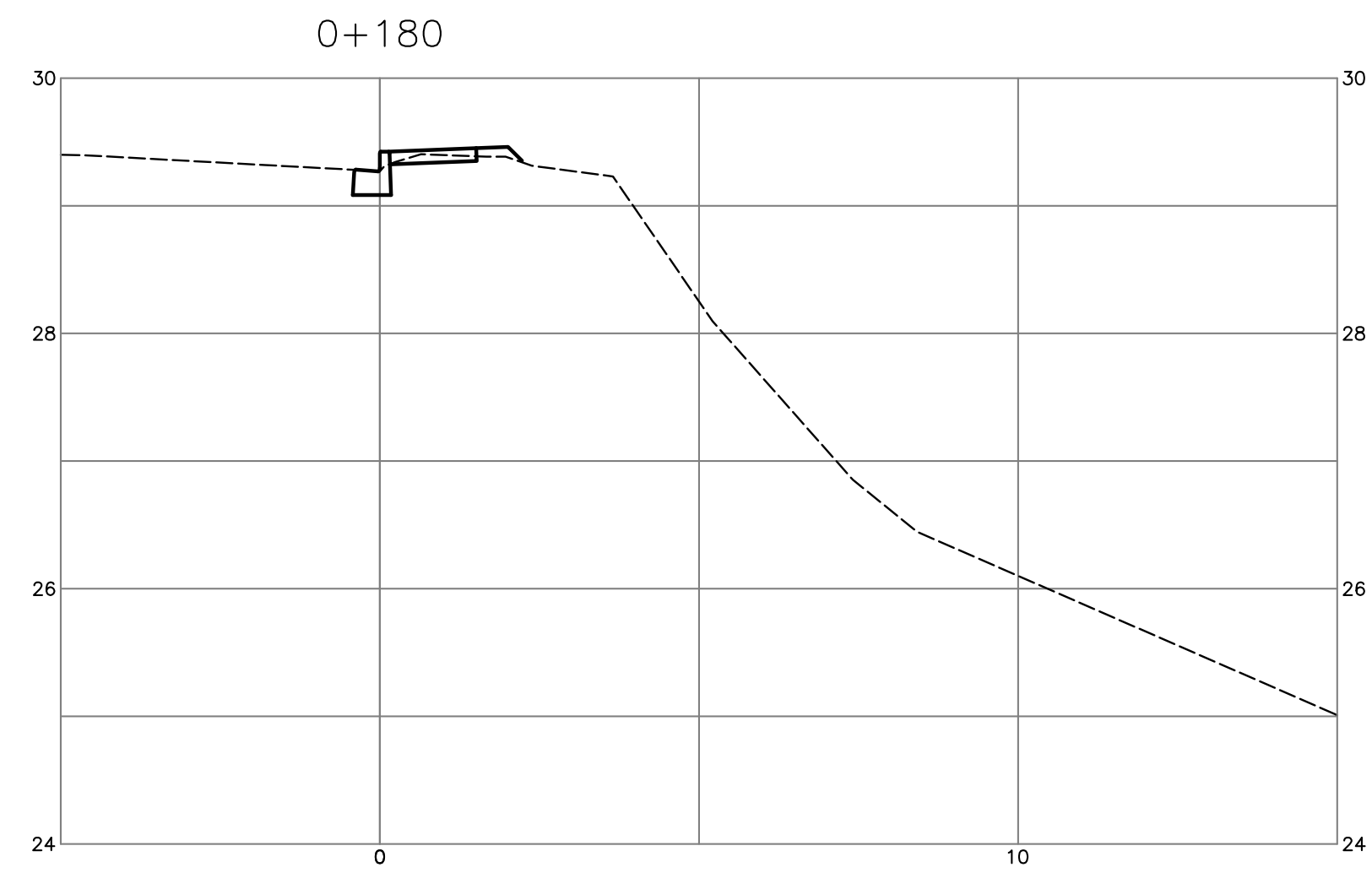
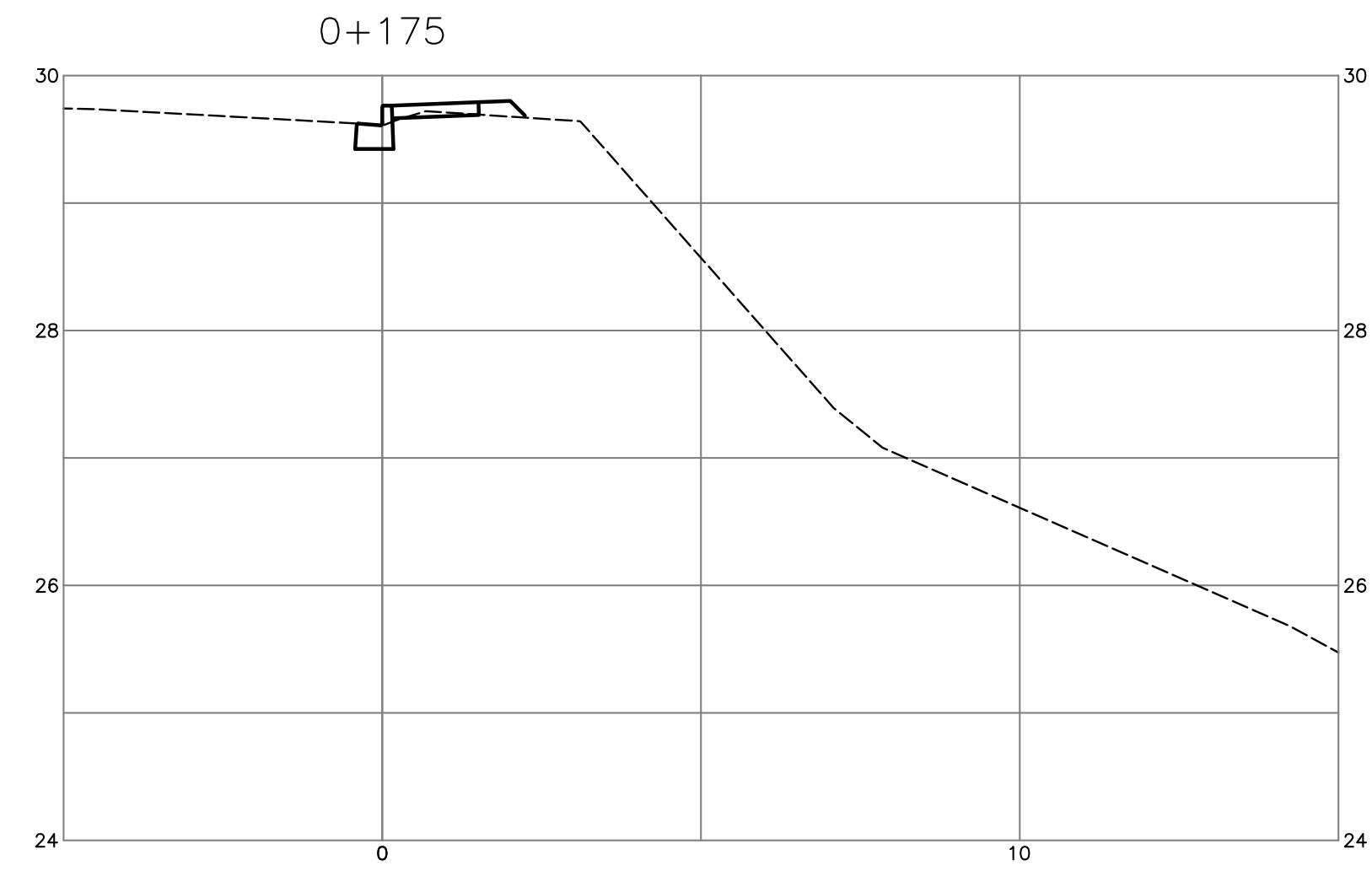
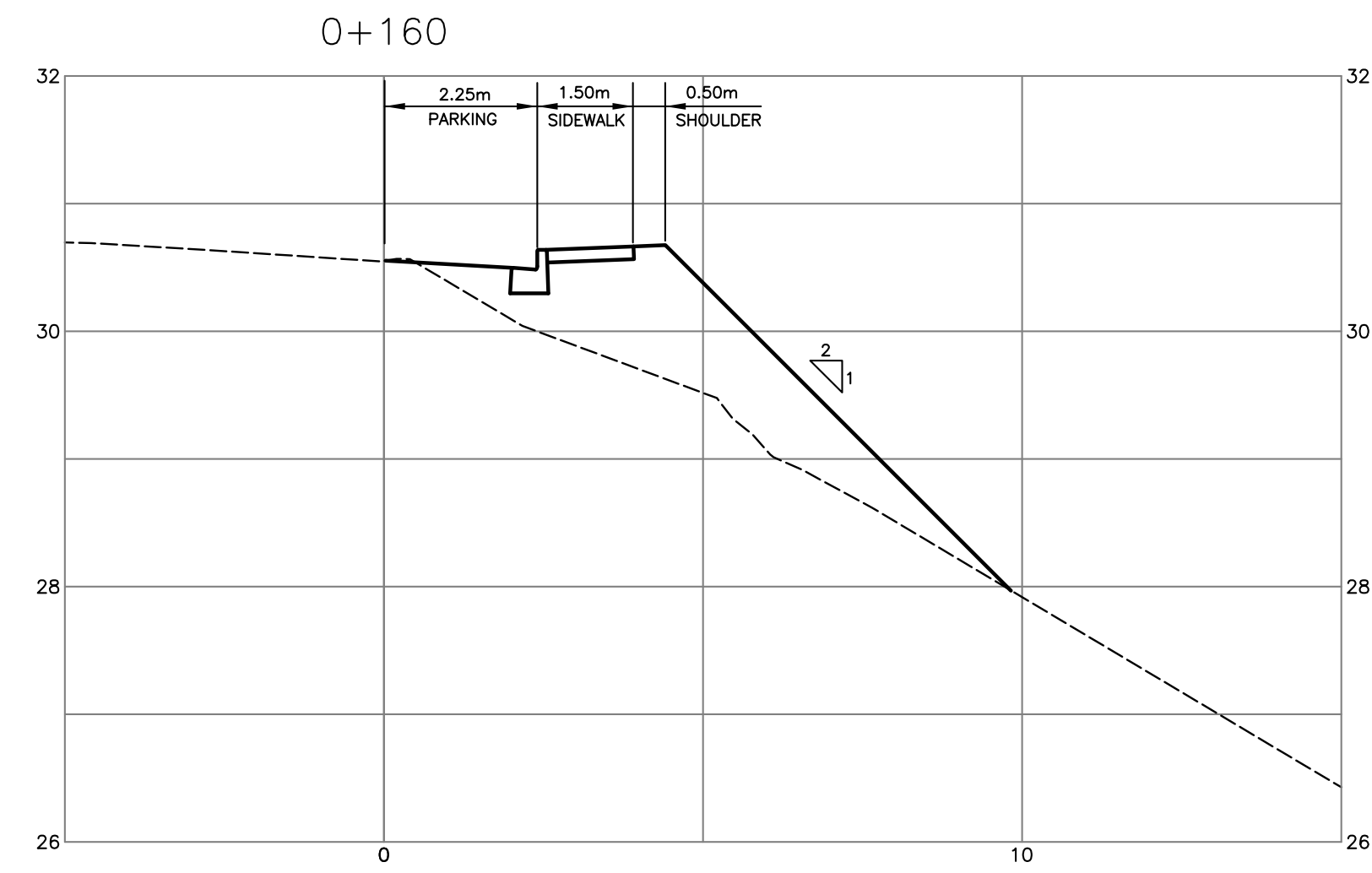
client	NICK EBRAHIM
project	3707 DOLLARTON HIGHWAY NORTH VANCOUVER, BRITISH COLUMBIA

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designed by	DKD
drawn by	DKD
checked by	FMC
date	JUN.01.08

title	CROSS-SECTIONS TRAIL
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scales	hor: 1:100 vert: 1:50
file no.	3186
drawing no.	X-4
rev.	3



no.	date	revision	chk'd	no.	date	revision	chk'd
3	JAN.05.09	ISSUED FOR APPROVAL	DKD				
2	OCT.16.08	ISSUED TO METRO VANCOUVER	DKD				
1	JUN.04.08	ISSUED FOR APPROVAL	DKD				

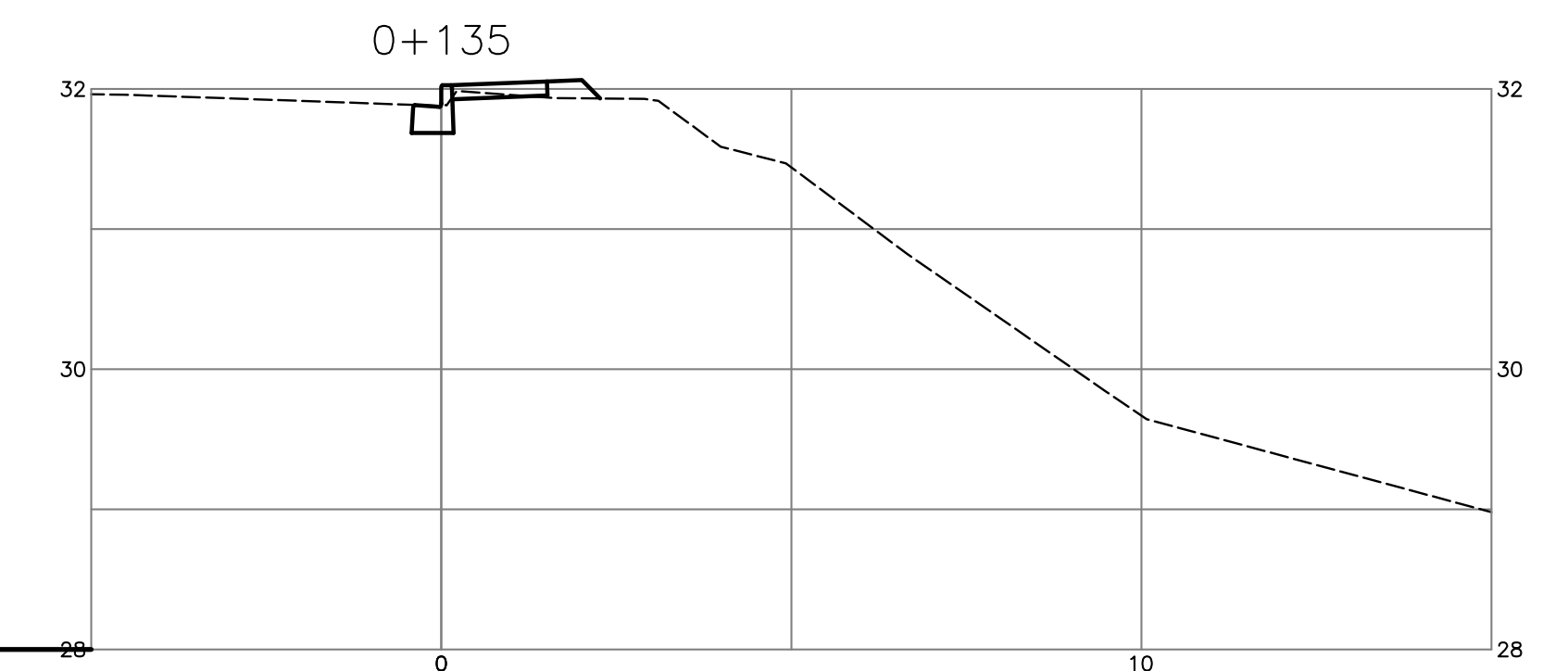
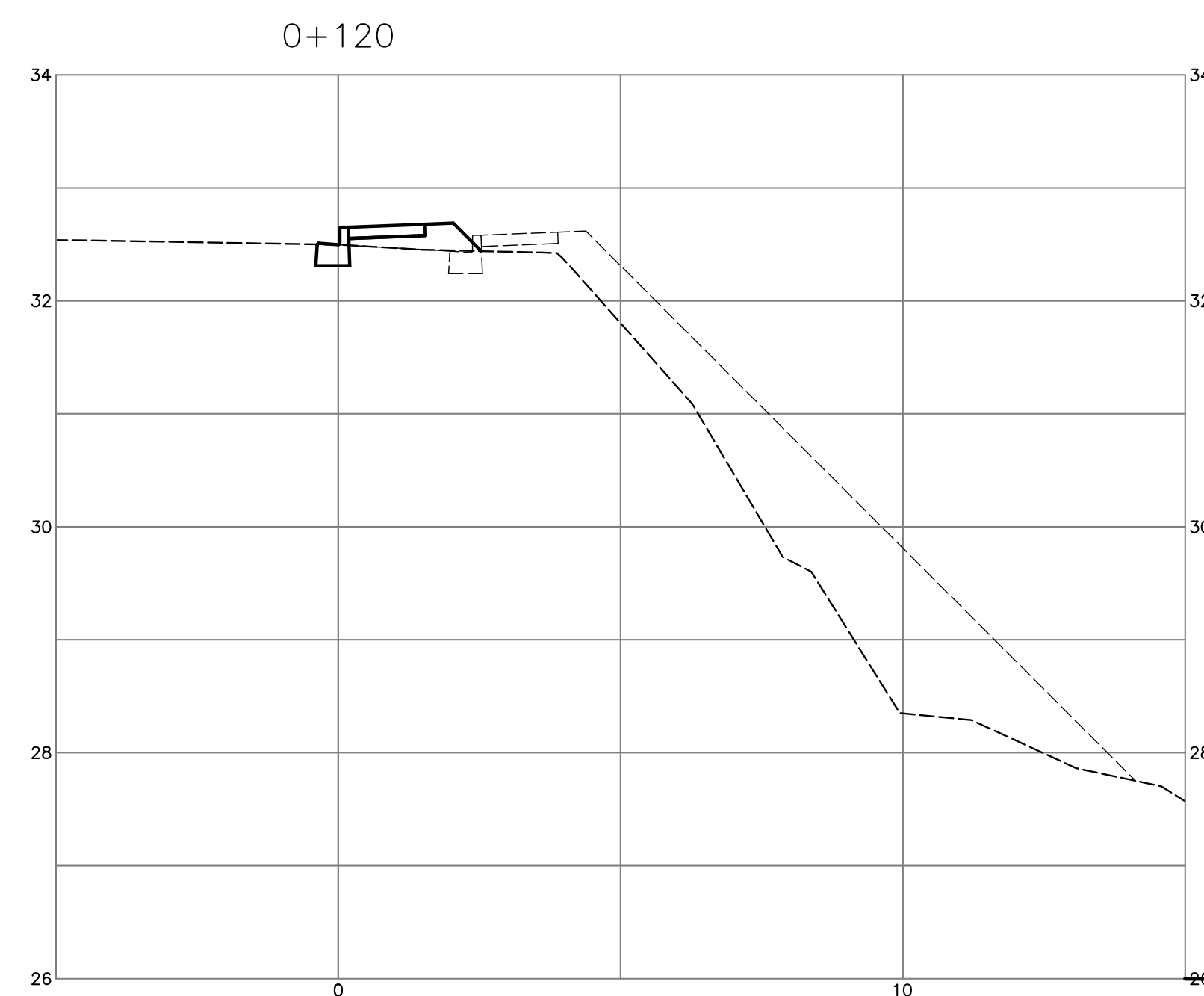
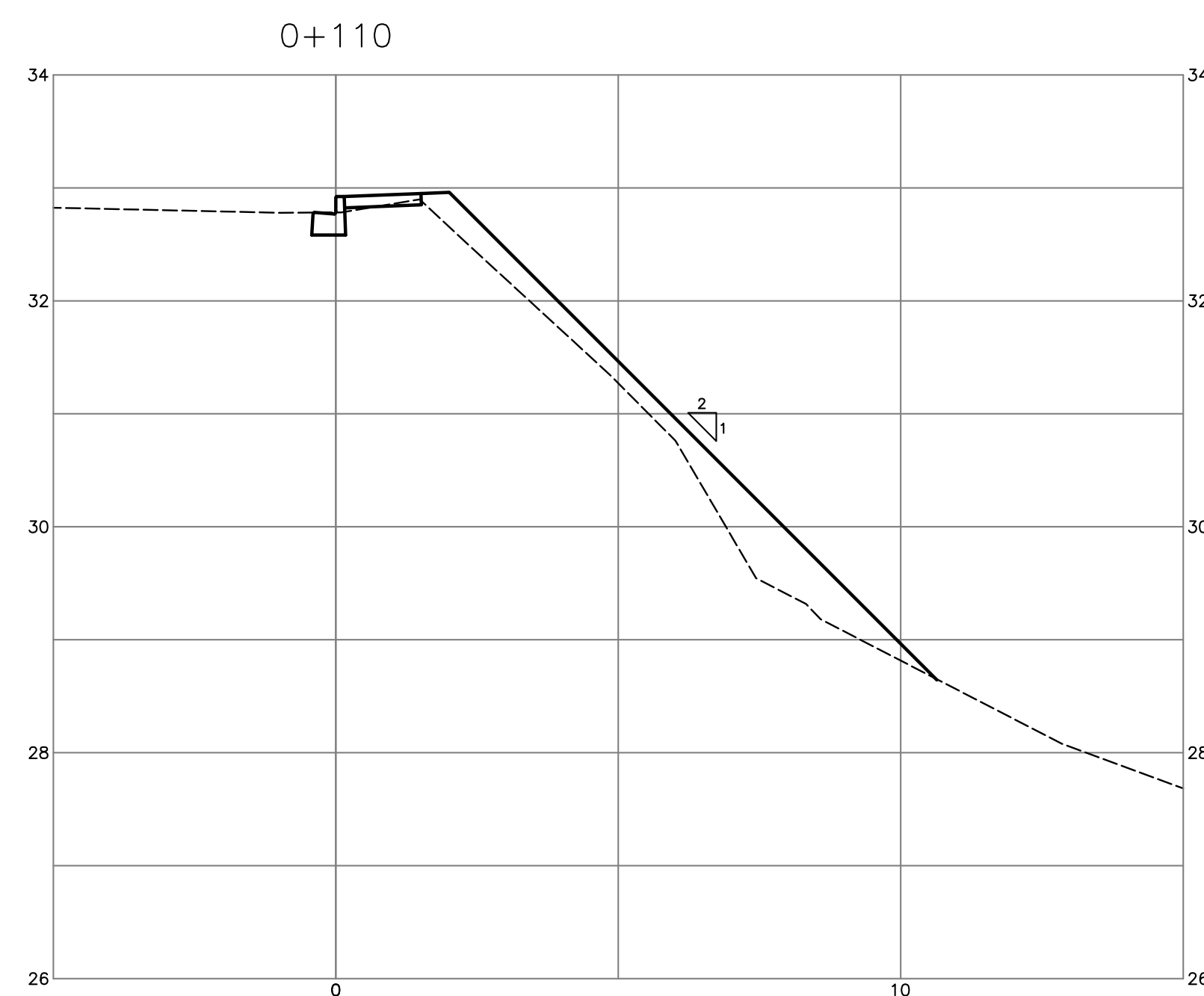
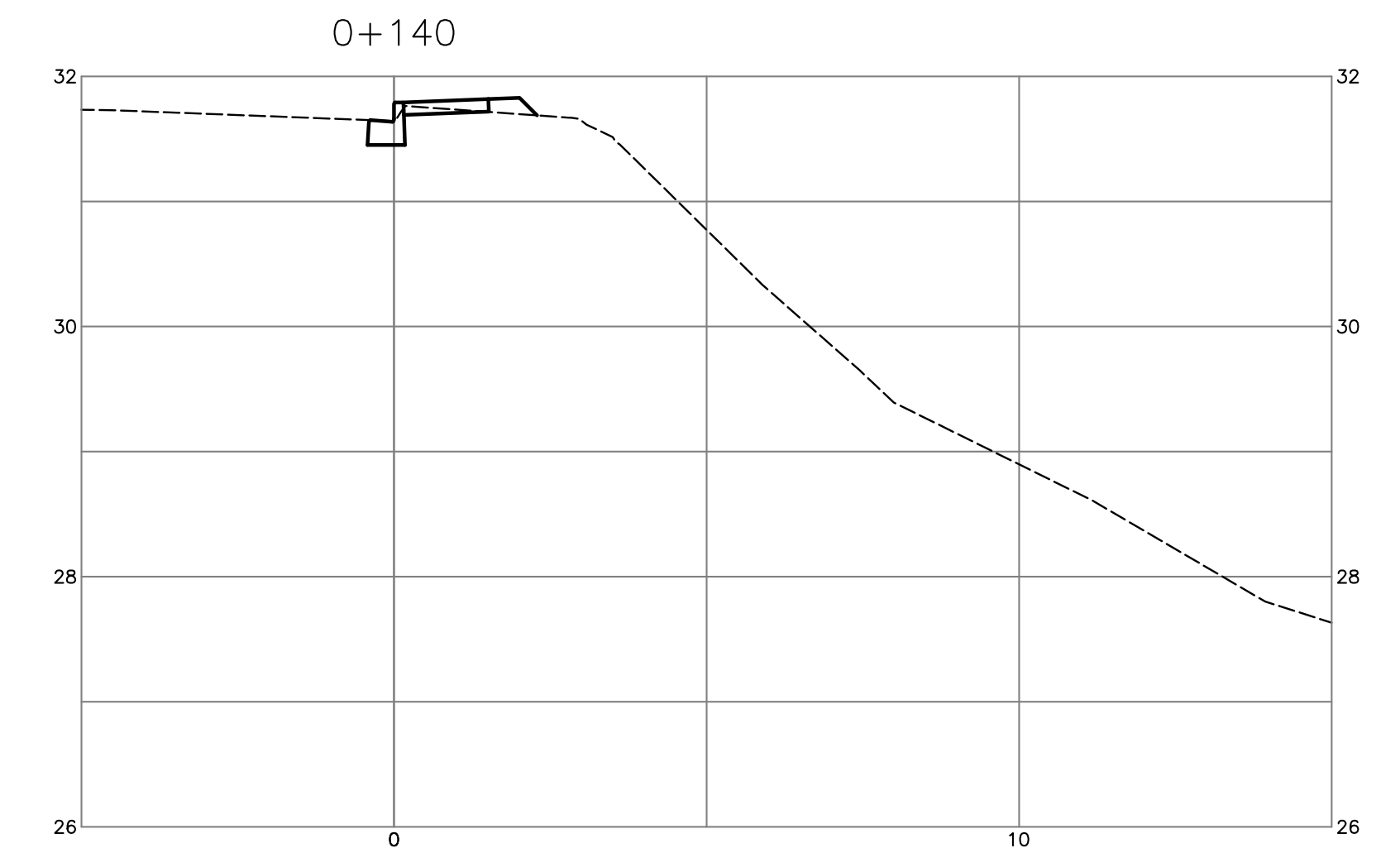
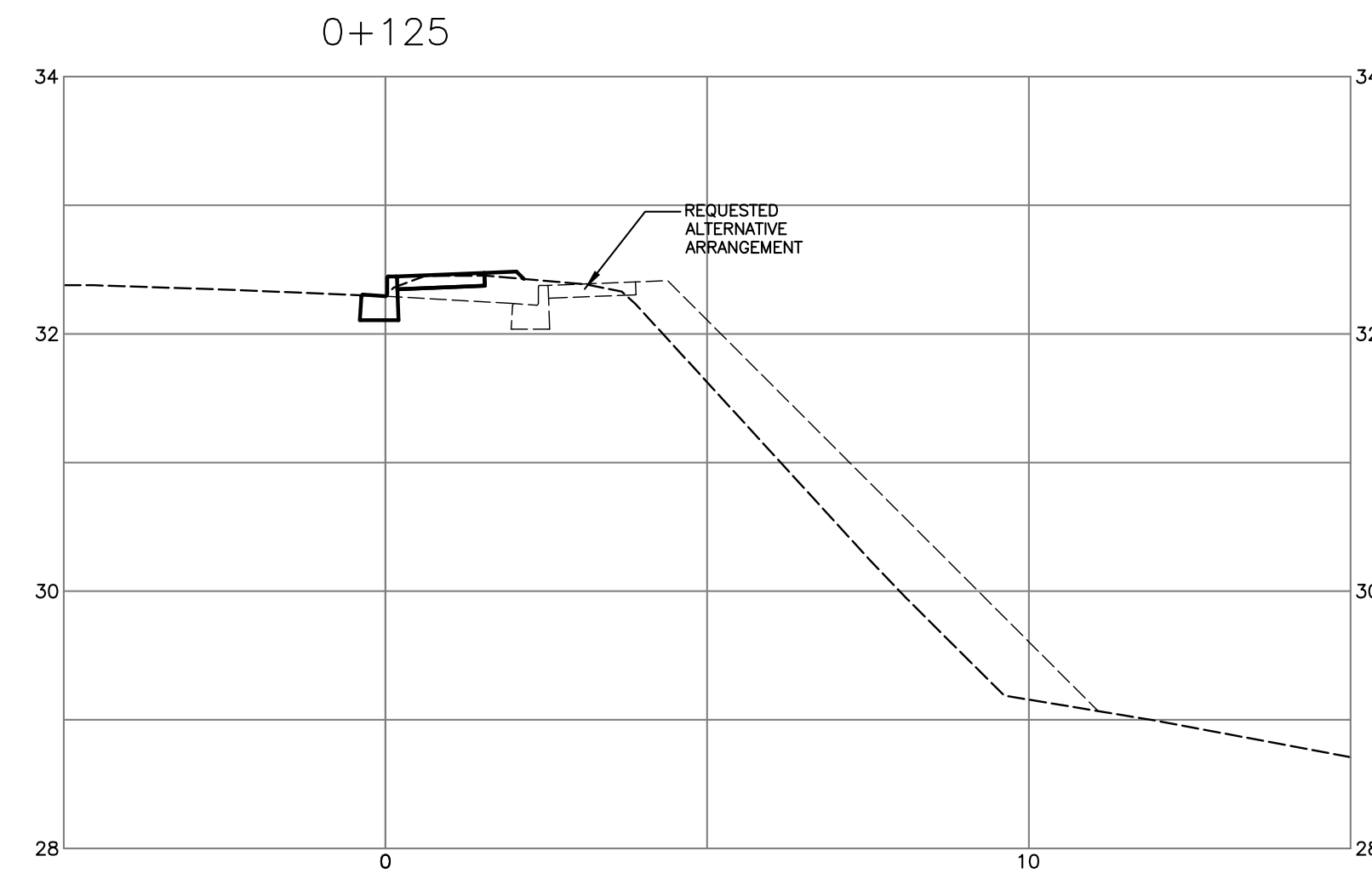
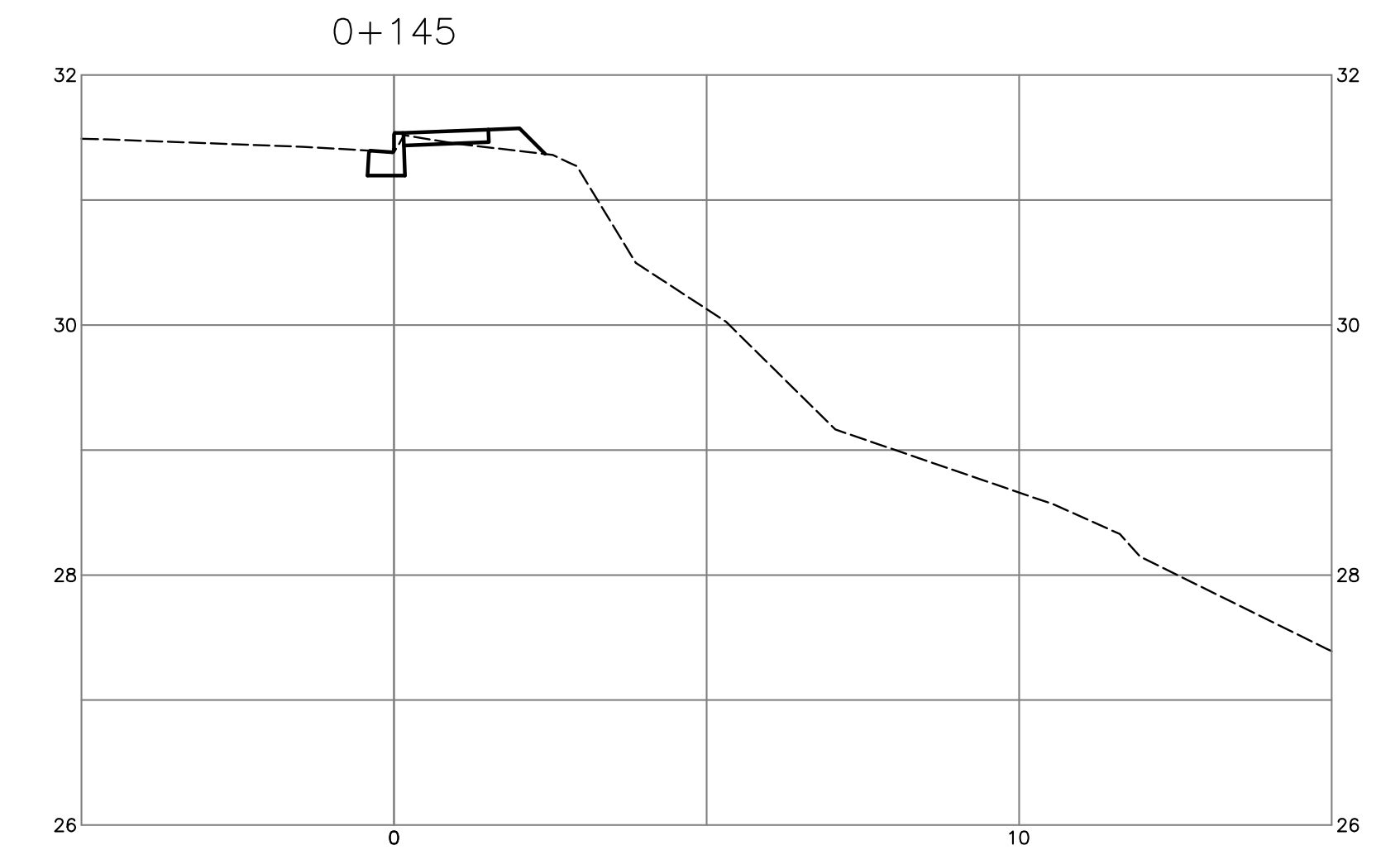
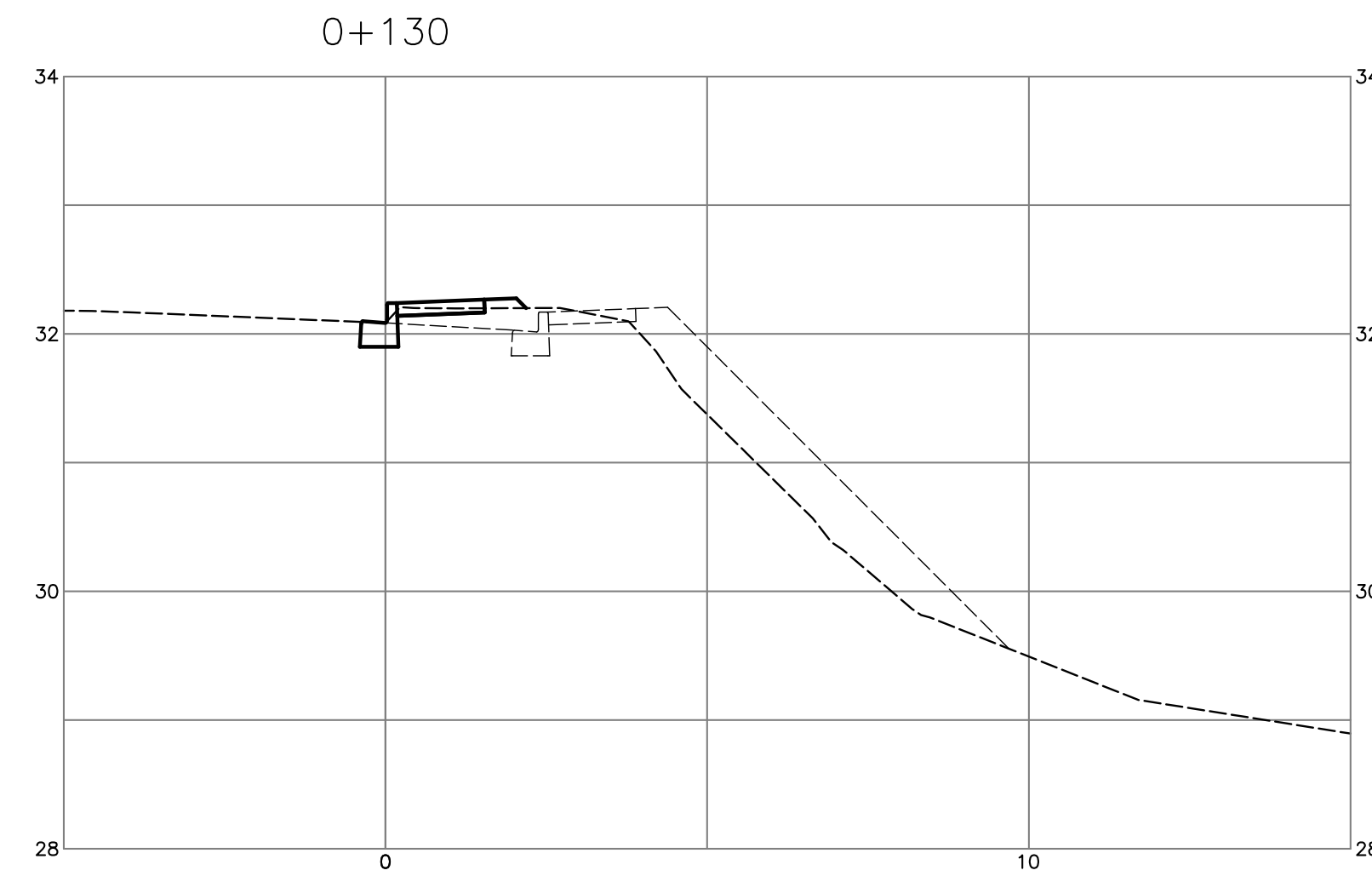
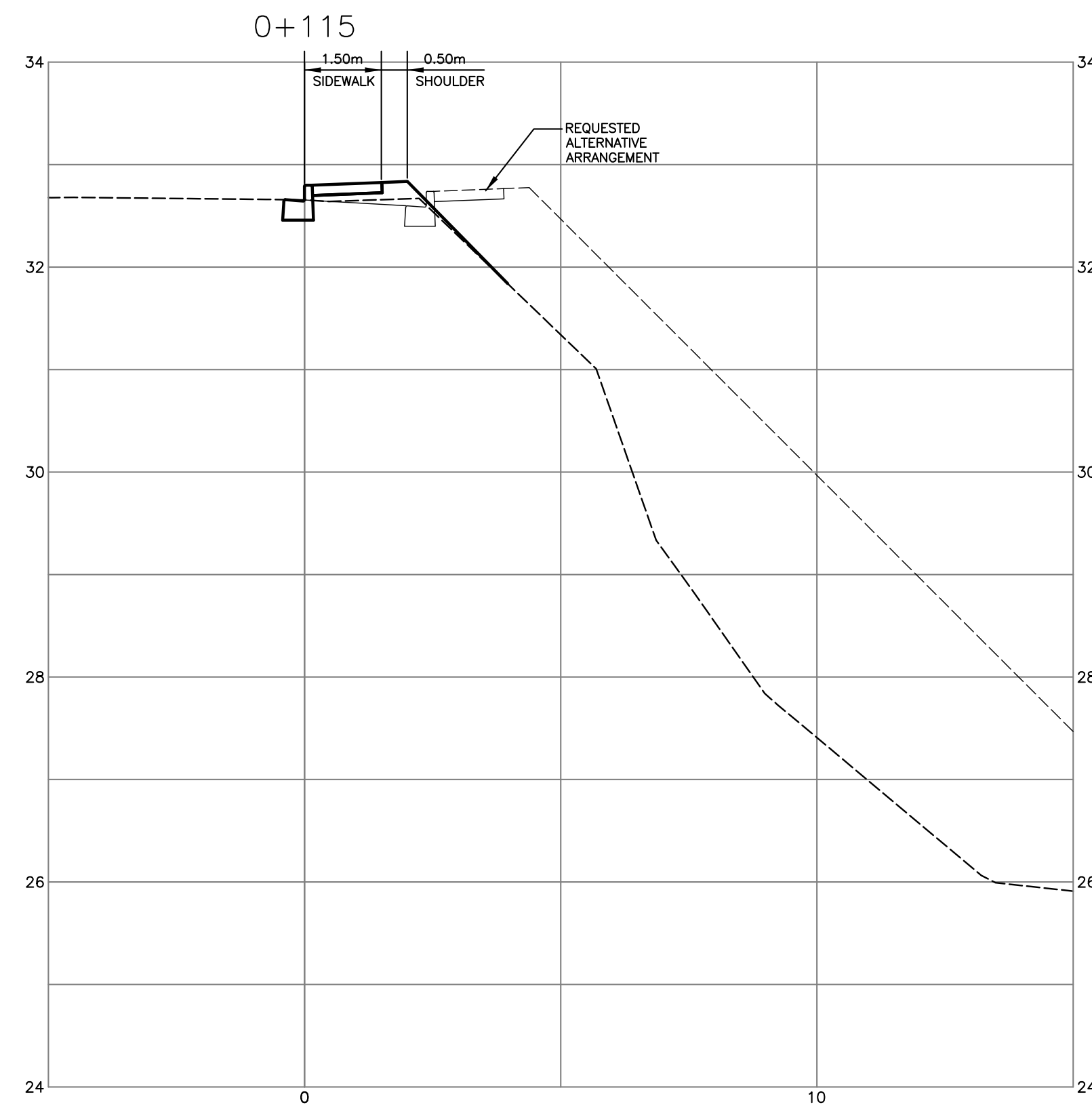
client  
**NICK EBRAHIM**

project  
**3707 DOLLARTON HIGHWAY  
NORTH VANCOUVER, BRITISH COLUMBIA**

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	drawn by	DKD	<b>CROSS-SECTIONS DOLLARTON</b>
	checked by	FMC	
	date	MAY.28.08	

scales	hor: 1:100	vert: 1:50
file no.	<b>3186</b>	
drawing no.	X-3	rev. <b>3</b>



no.	date	revision	chk'd	no.	date	revision	chk'd
3	JAN.05.09	ISSUED FOR APPROVAL	DKD				
2	OCT.16.08	ISSUED TO METRO VANCOUVER	DKD				
1	JUN.04.08	ISSUED FOR APPROVAL	DKD				

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**NICK EBRAHIM**

project  
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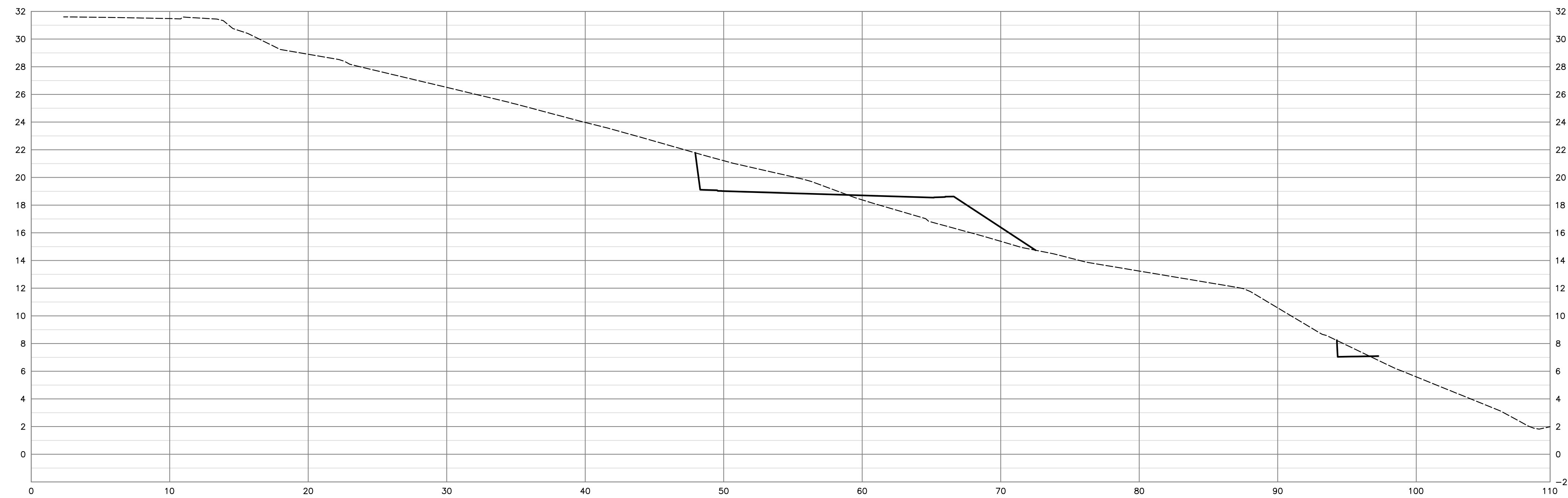
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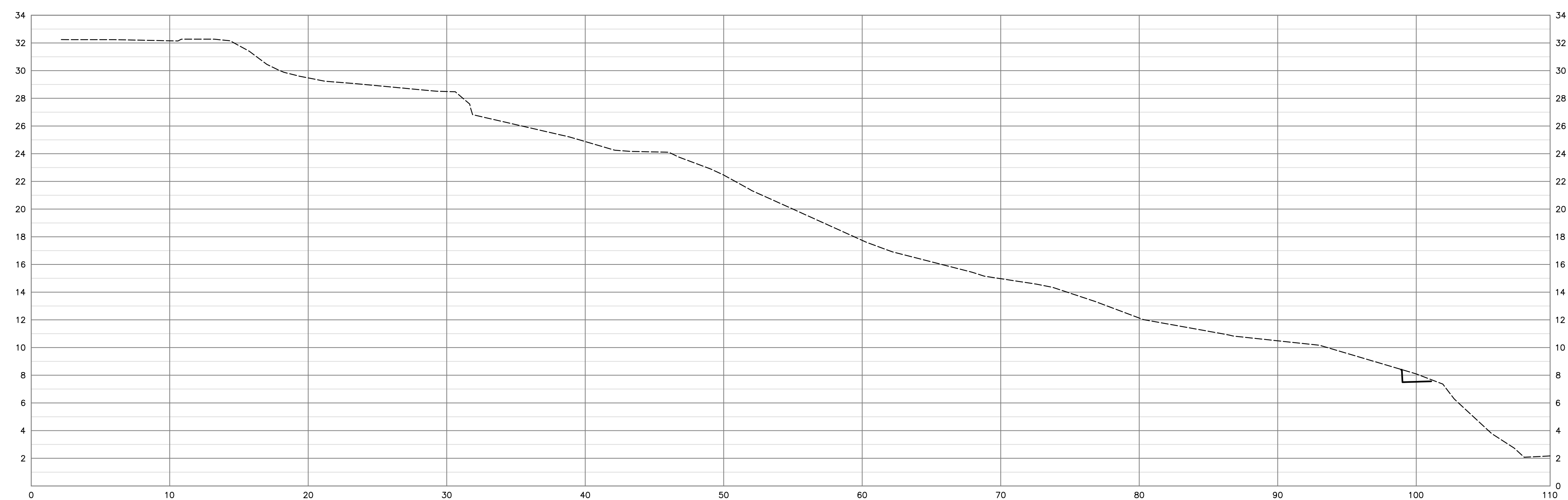
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DOLLARTON**

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drawing no. **X-2** rev. **3**

SECT D-D



SECT E-E



no.	date	revision	chk'd	no.	date	revision	chk'd
1	JAN.05.09	ISSUED FOR APPROVAL	DKD				

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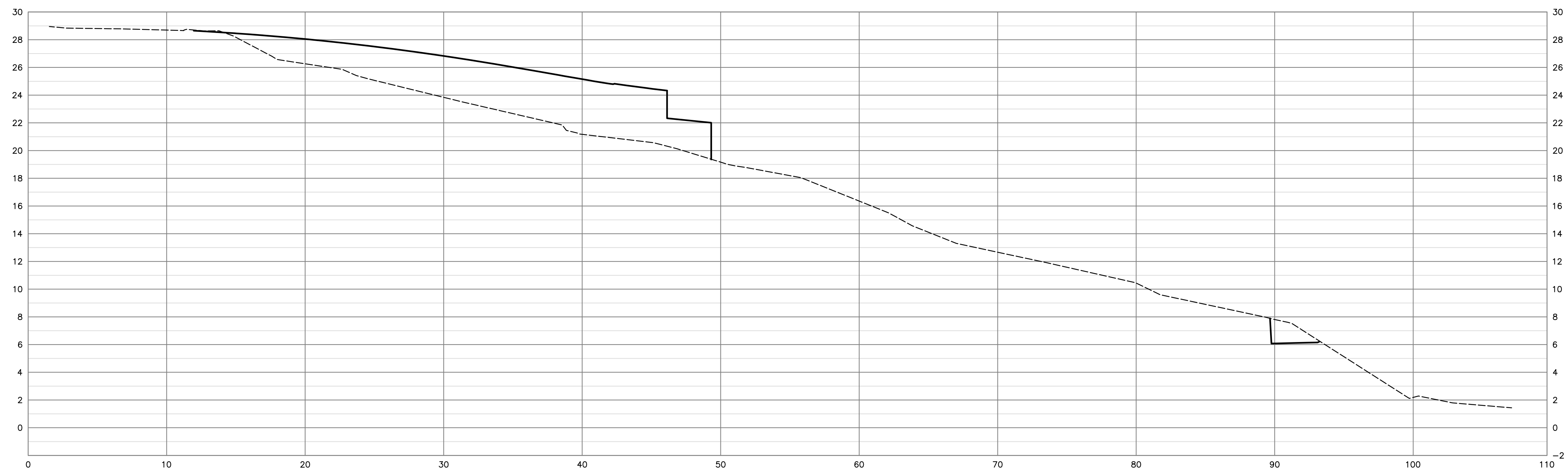
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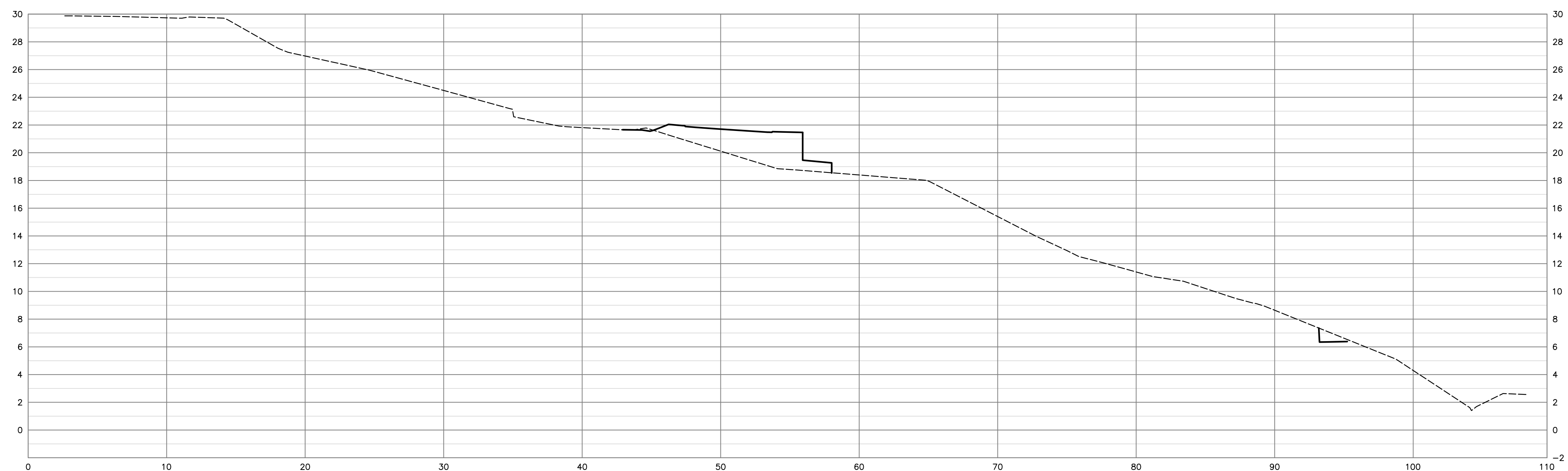
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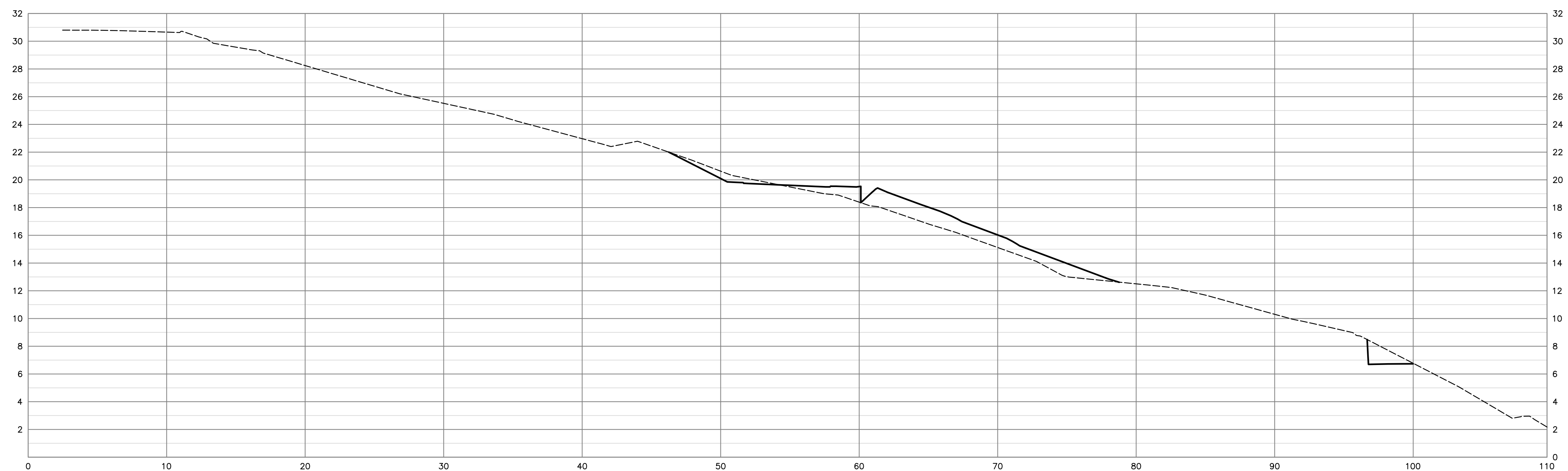
SECT A-A



SECT B-B



SECT C-C



no.	date	revision	chk'd	no.	date	revision	chk'd
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SITE SECTIONS	
drawing no.	X-7
rev.	1

scales	hor: 1:100    vert: 1:50
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