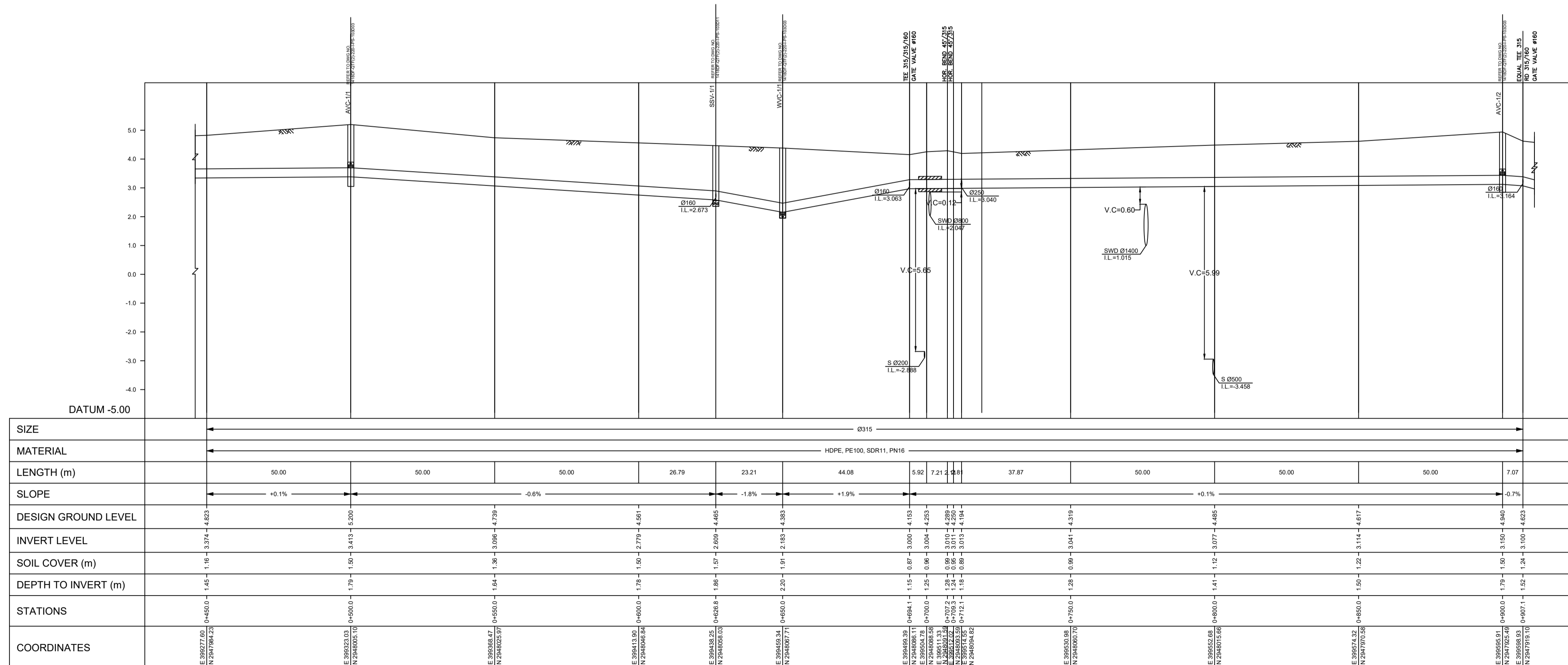


LINE (1) (PART 1/4)



LINE (1) (PART 2/4)

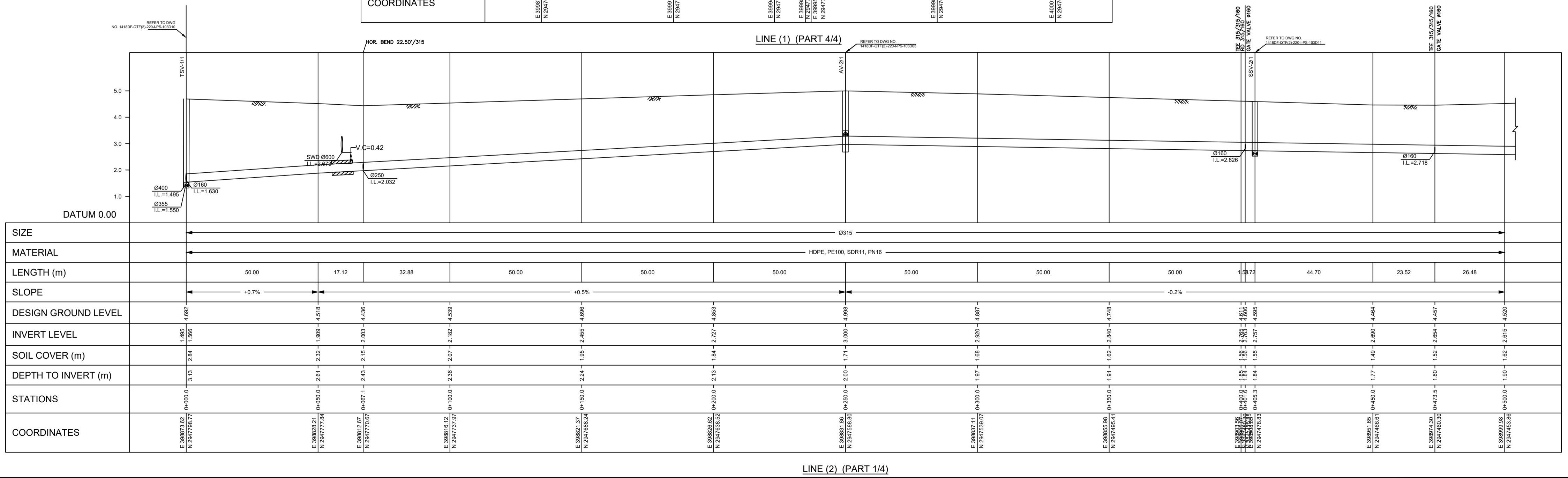
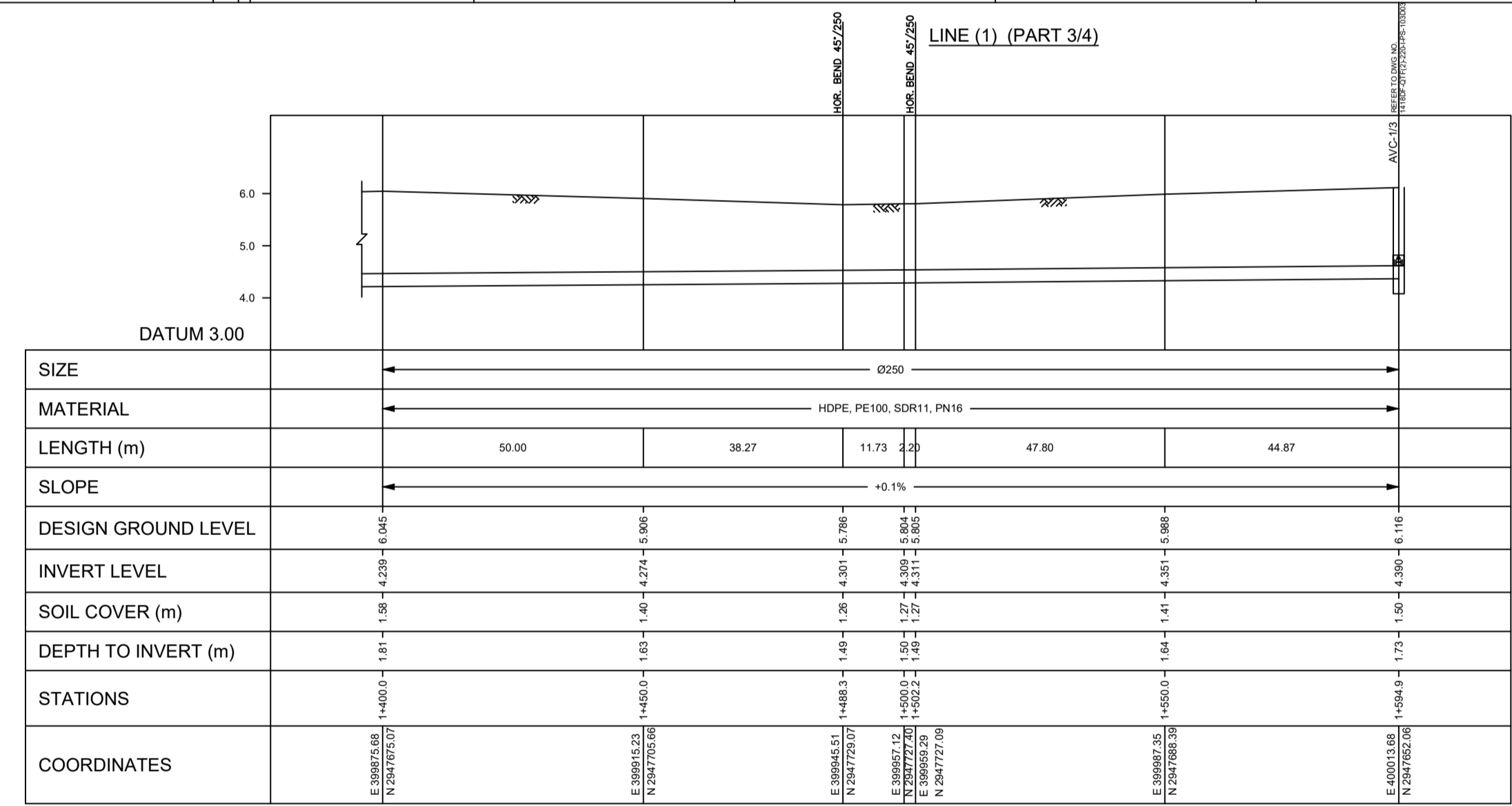
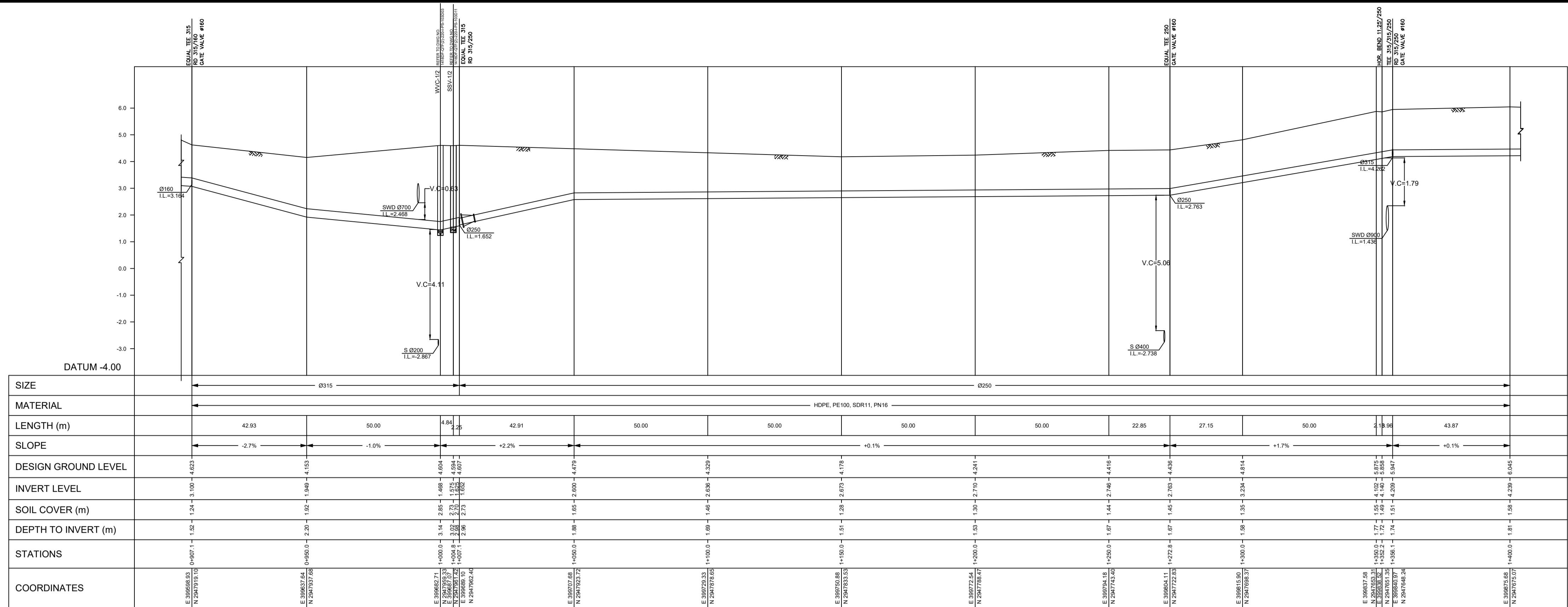
LEGEND:-

- FINISH GROUND LEVEL
- IL INVERT LEVEL
- Ø315 PIPE DIAMETER
- HDPE HIGH DENSITY POLYETHYLENE
- SWD STORM DRAINAGE PIPE CROSSING
- S SEWER PIPE CROSSING
- V.C VERTICAL CLEARANCE
- CONCRETE ENCASMENT
- AIR VALVE CHAMBER
- WASH OUT VALVE CHAMBER
- SHUTOFF VALVE CHAMBER
- REDUCER

NOTES:-

- 1- USE TYPE "A" BEDDING EXCEPT FOR THE FOLLOWING CASES USE BEDDING TYPE "B".
  - a- DEPTH OF COVER IS LESS THAN 1.00m.
  - b- UNDER STREET LIGHTING POLES.
  - c- AT SEWER LINE / WATER LINE CROSSING. WHERE THE VERTICAL DISTANCE IS LESS THAN 0.5m, THE SEWER PIPE SHALL BE ENCASED FOR A DISTANCE OF AT LEAST 4.0m FROM EACH SIDE OF WATER PIPE.

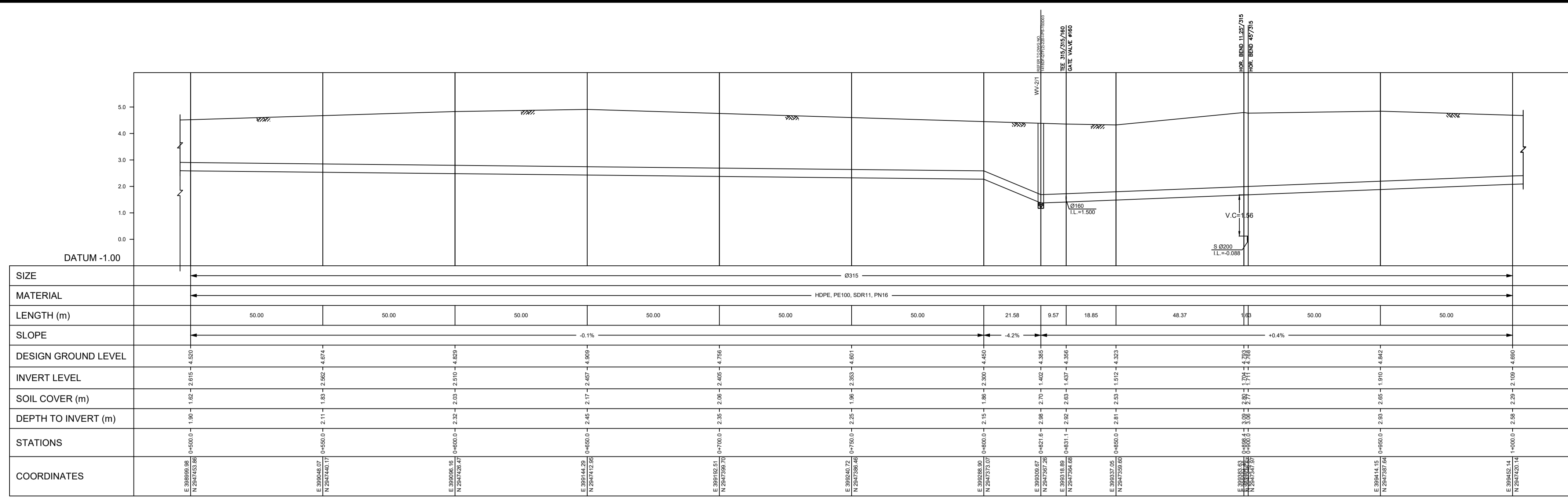
00	ISSUE FOR APPROVAL / SHOPDRAWING	10/2023
من قبل	صادرة من أجل المراجعة	اليوم
By	ISSUED FOR / REVISION	DATE
PROJECT TITLE		
<b>GRANT LANDS PROJECT</b>		
CLIENT	مات المشروع	
CONSULTANT	مستشار المشروع	
PO Box 261170 Riyadh, Saudi Arabia. 11591	Tel: +966112060099 Fax: +966112060099	
ENGINEERING CONTRACTOR:	مكاتب المشروع	
DESIGN ITEM	العنوان	
<b>INFRASTRUCTURE</b>		
DRAWING TITLE	منوان المخطط	
<b>QATIF SITE 2</b>		
<b>POTABLE WATER AND FIRE FIGHTING NETWORK</b>		
<b>LONGITUDINAL PROFILES ( 01 OF 15)</b>		
DRAWING NO.	رمان المخطط / رقم المخطط	
1418DF-QTF(2)-220-I-PS-102PR1	0.0	
PROJECT NO.	START DATE	SCALE
1418DF	OCT-2023	1:2=1/1000, 1/100
DRAWN BY	CHECKED BY	APPROVED
رسم من قبل	المراجعة	مصدق
SIGN:	SIGN:	SIGN:
التوقيع	التوقيع	التوقيع



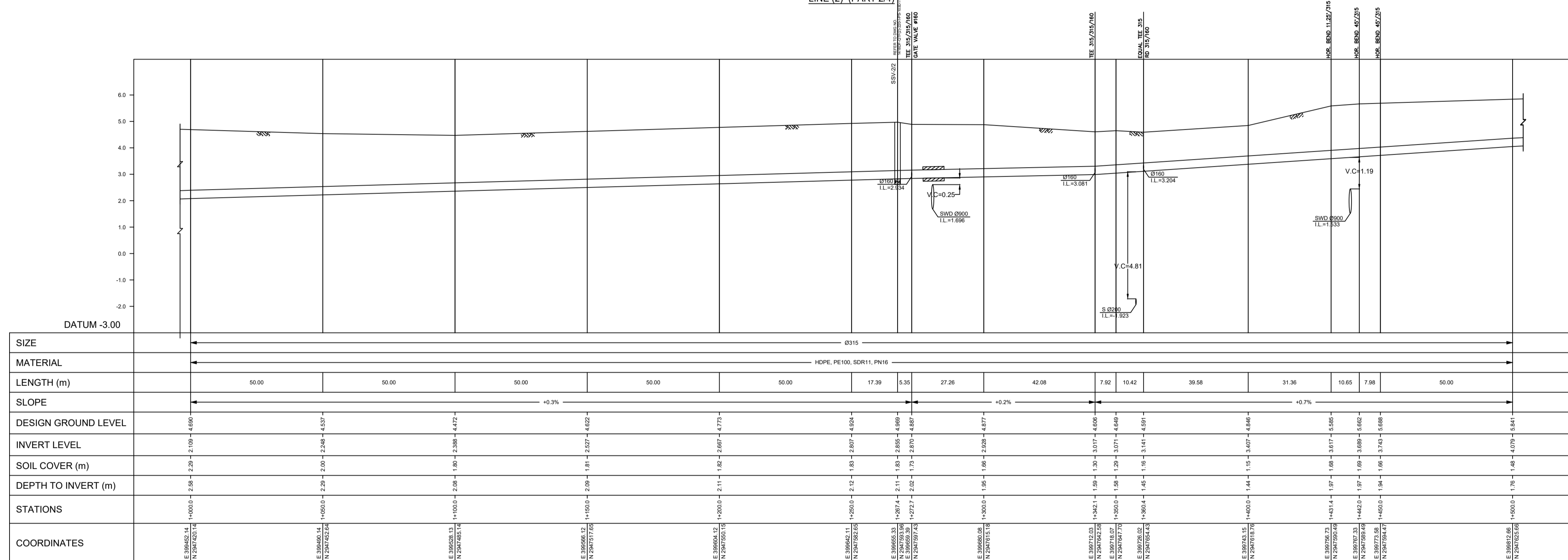
- LEGEND:-**
- FINISH GROUND LEVEL
  - IL INVERT LEVEL
  - Ø315 PIPE DIAMETER
  - HDPE HIGH DENSITY POLYETHYLENE
  - SWD STORM DRAINAGE PIPE CROSSING
  - S SEWER PIPE CROSSING
  - V.C VERTICAL CLEARANCE
  - CONCRETE ENCASMENT
  - AIR VALVE CHAMBER
  - WASH OUT VALVE CHAMBER
  - SHUTOFF VALVE CHAMBER
  - REDUCER

- NOTES:-**
- 1- USE TYPE "A" BEDDING EXCEPT FOR THE FOLLOWING CASES USE BEDDING TYPE "B".
    - a- DEPTH OF COVER IS LESS THAN 1.00m.
    - b- UNDER STREET LIGHTING POLES.
    - c- AT SEWER LINE / WATER LINE CROSSING. WHERE THE VERTICAL DISTANCE IS LESS THAN 0.5m, THE SEWER PIPE SHALL BE ENCASED FOR A DISTANCE OF AT LEAST 4.0m FROM EACH SIDE OF WATER PIPE.

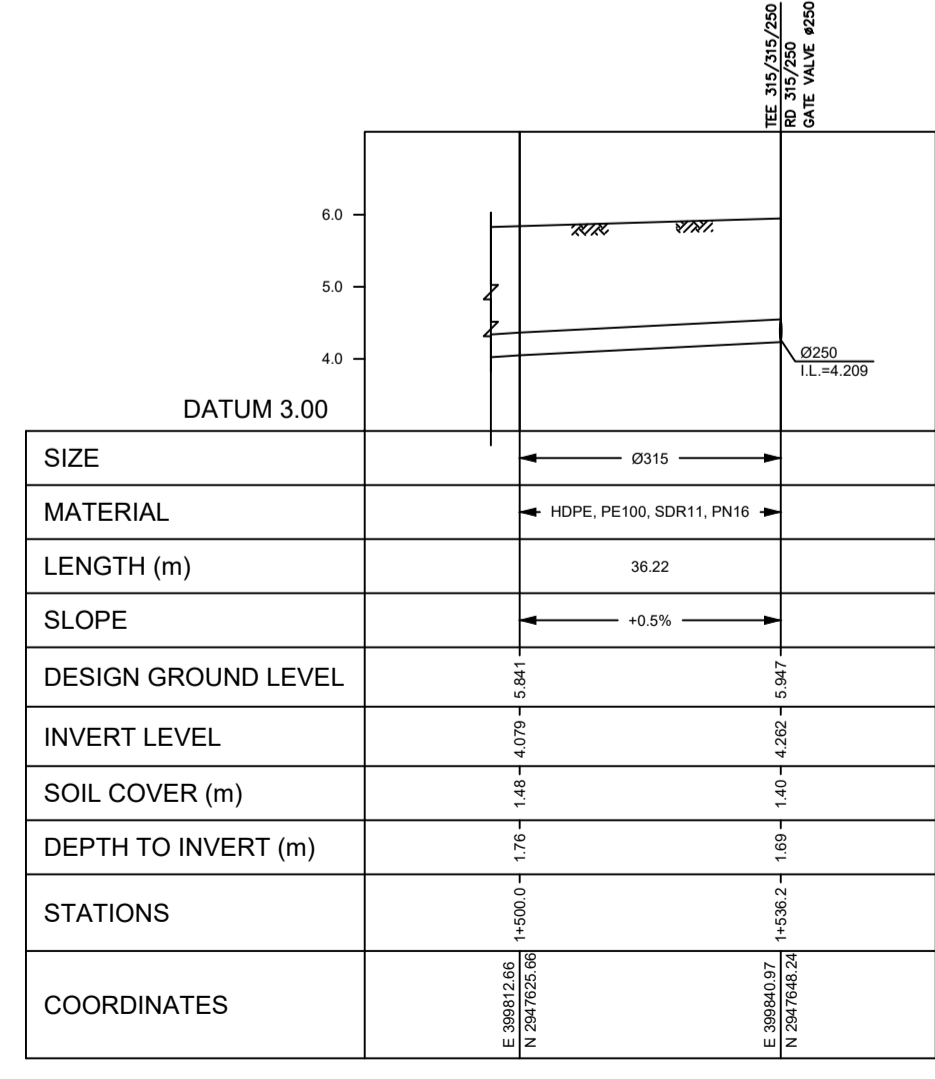
00	ISSUE FOR APPROVAL / SHOPDRAWING	10/2023
من قبل	صدر من اجل المراجعة	اليوم
BY	ISSUED FOR / REVISION	DATE
معاون المشرف		
<b>GRANT LANDS PROJECT</b>		
CLIENT	مات المشرف	
CONSULTANT	المشرف	
PO Box 261170 RIYADH, SAUDI ARABIA 11391		Tel: +966112060309 Fax: +966112060309
ENGINEERING CONTRACTOR:		
DESIGN ITEM	العنوان	
<b>INFRASTRUCTURE</b>		
DRAWING TITLE	معاون المشرف	
<b>QATIF SITE 2</b>		
<b>POTABLE WATER AND FIRE FIGHTING NETWORK</b>		
<b>LONGITUDINAL PROFILES ( 02 OF 15 )</b>		
DRAWING NO.	رقم المخطط	
1418DF-QTF(2)-220-1-PS-102PR2		
PROJECT NO.	مراجعة رقم / مخطط رقم	ISSUE NO / REV. NO.
1418DF-QTF(2)-220-1-PS-102PR2	مراجعة رقم / مخطط رقم	0.0
DATE	تاريخ المخطط	المرحلة / المراجعة
OCT 2023		PHASE
DRAWN BY	رسم من قبل	CHECKED BY
		الموافق
SIGN.	التوقيع	SIGN.
		التوقيع



LINE (2) (PART 2/4)



LINE (2) (PART 3/4)



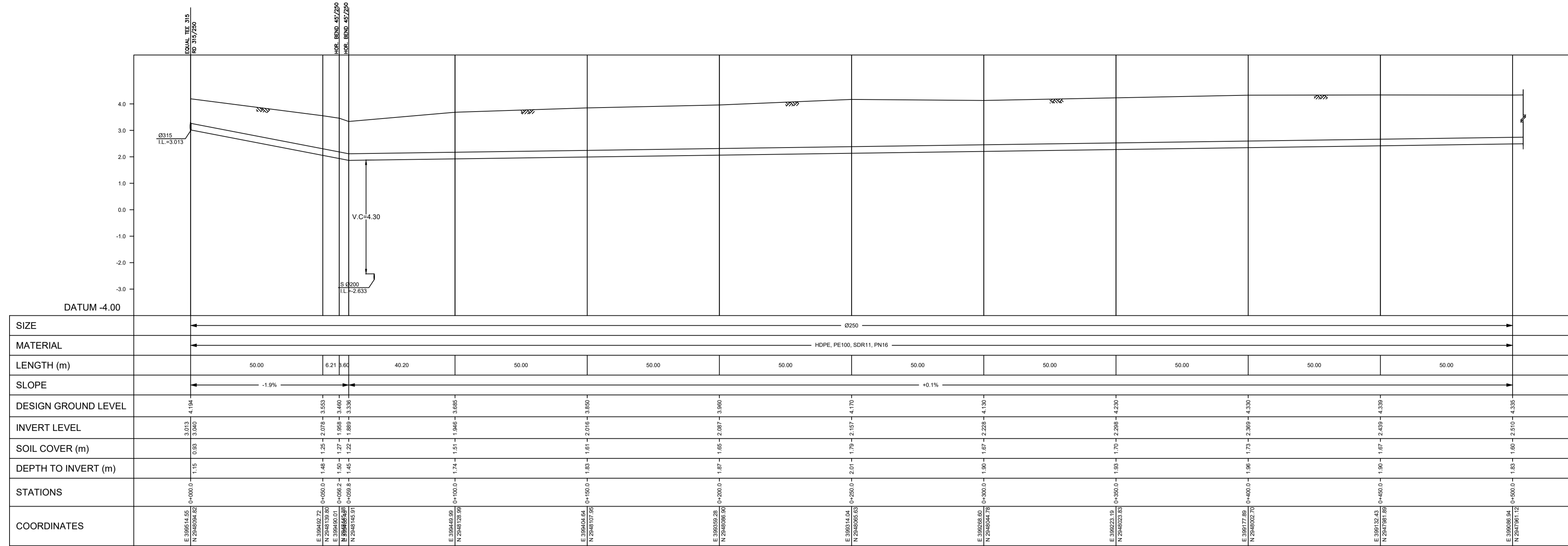
LINE (2) (PART 4/4)

- LEGEND:-**
- FINISH GROUND LEVEL
  - INVERT LEVEL
  - 0315 PIPE DIAMETER
  - HDPE HIGH DENSITY POLYETHYLENE
  - SWD STORM DRAINAGE PIPE CROSSING
  - S SEWER PIPE CROSSING
  - V.C VERTICAL CLEARANCE
  - CONCRETE ENCASMENT
  - AIR VALVE CHAMBER
  - WASH OUT VALVE CHAMBER
  - SHUTOFF VALVE CHAMBER
  - REDUCER

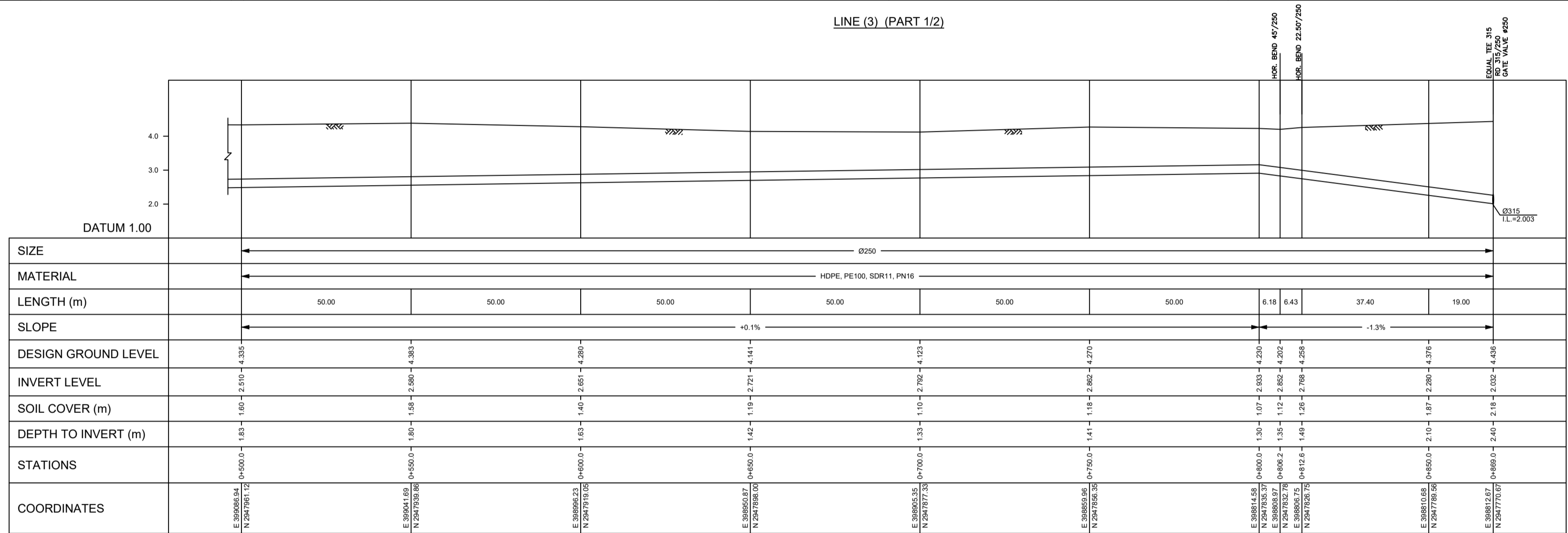
- NOTES:-**
- 1- USE TYPE "A" BEDDING EXCEPT FOR THE FOLLOWING CASES USE BEDDING TYPE "B".
    - a- DEPTH OF COVER IS LESS THAN 1.00m.
    - b- UNDER STREET LIGHTING POLES.
    - c- AT SEWER LINE / WATER LINE CROSSING. WHERE THE VERTICAL DISTANCE IS LESS THAN 0.5m, THE SEWER PIPE SHALL BE ENCASED FOR A DISTANCE OF AT LEAST 4.0m FROM EACH SIDE OF WATER PIPE.

00	ISSUE FOR APPROVAL / SHOPDRAWING	10/2023
00	صدرت من اجل المراجعة ISSUED FOR / REVISION	من قبل DATE
PROJECT TITLE		
<b>GRANT LANDS PROJECT</b>		
CLIENT	مكتب المشروع	
CONSULTANT	مكتب المشروع	
PO Box 261170 RIYADH, SAUDI ARABIA 11391	Tel: +966112600099 Fax: +966112600099	
ENGINEERING CONTRACTOR	مكاتب المشروع	
DESIGN ITEM	البنية التحتية	
<b>INFRASTRUCTURE</b>		
DRAWING TITLE	موقع المشروع	
<b>QATIF SITE 2 POTABLE WATER AND FIRE FIGHTING NETWORK LONGITUDINAL PROFILES ( 03 OF 15 )</b>		
DRAWING NO.	مراجعة رقم / صانعة رقم / رقم المخطط ISSUE NO / REV NO.	
1418DF-QTF(2)-220-I-PS-102PR3	0.0	
PROJECT NO.	START DATE	SCALE
1418DF	OCT 2023	H2: 1/1000, L1: 1/1000, AT: 1/500
DRAWN BY	CHECKED BY	APPROVED BY
رسم من قبل	المراجعة	مصدق
SIGN	SIGN	SIGN
التوقيع	التوقيع	التوقيع

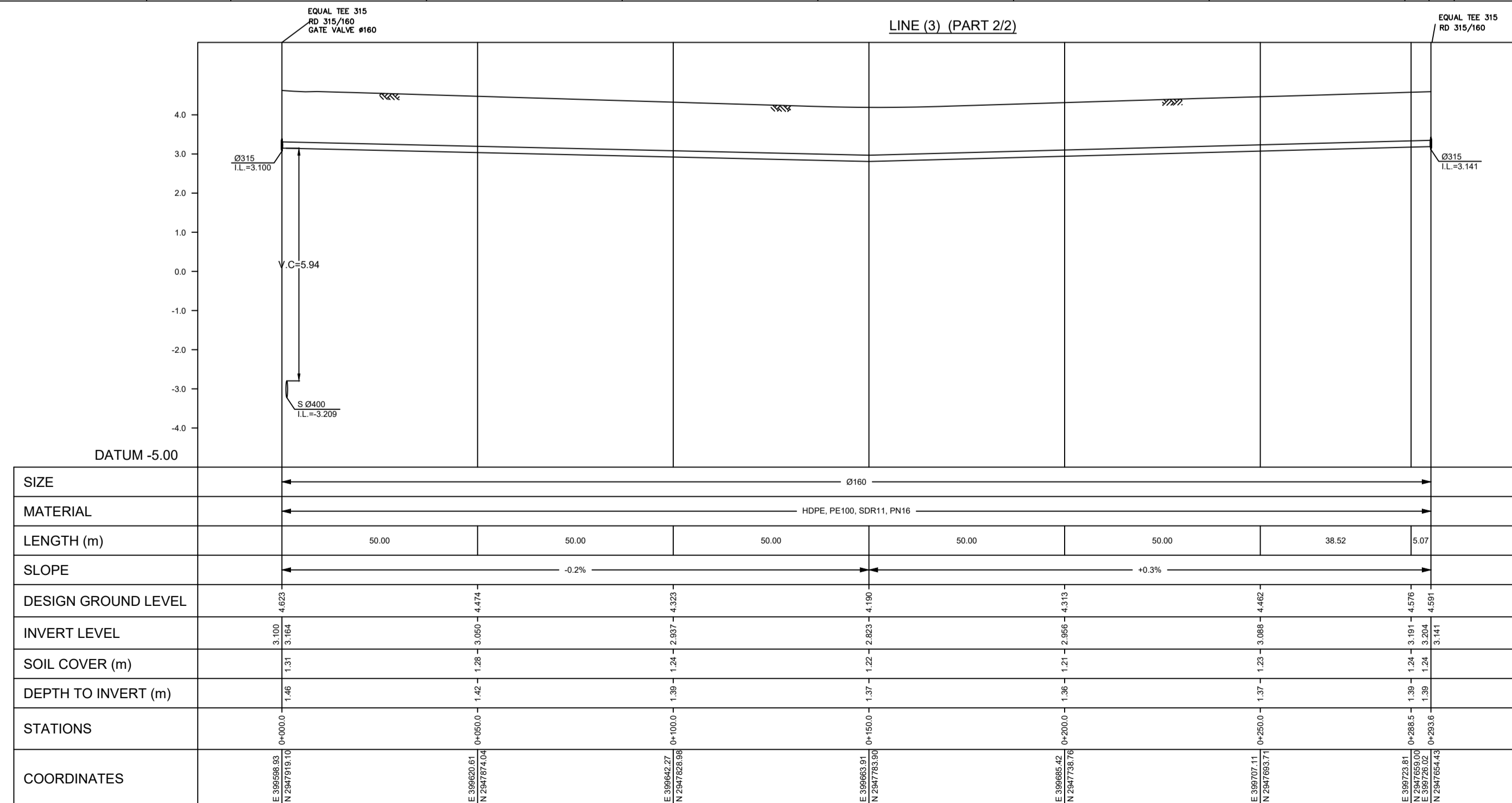




LINE (3) (PART 1/2)



LINE (3) (PART 2/2)



LINE (4)

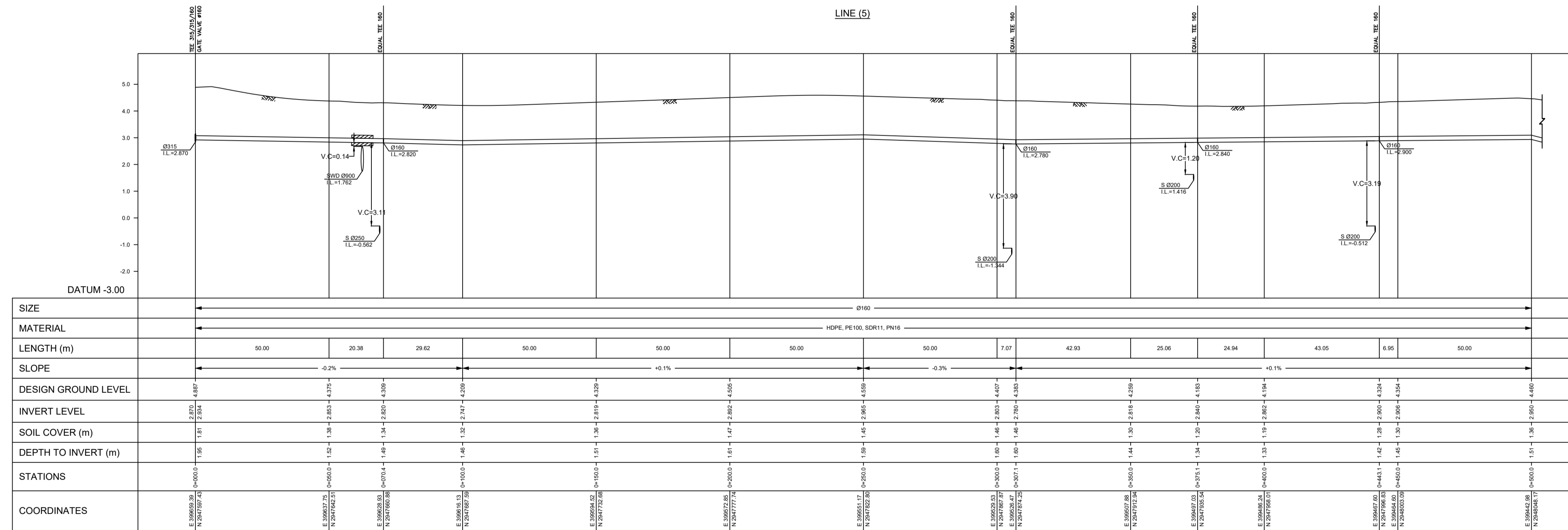
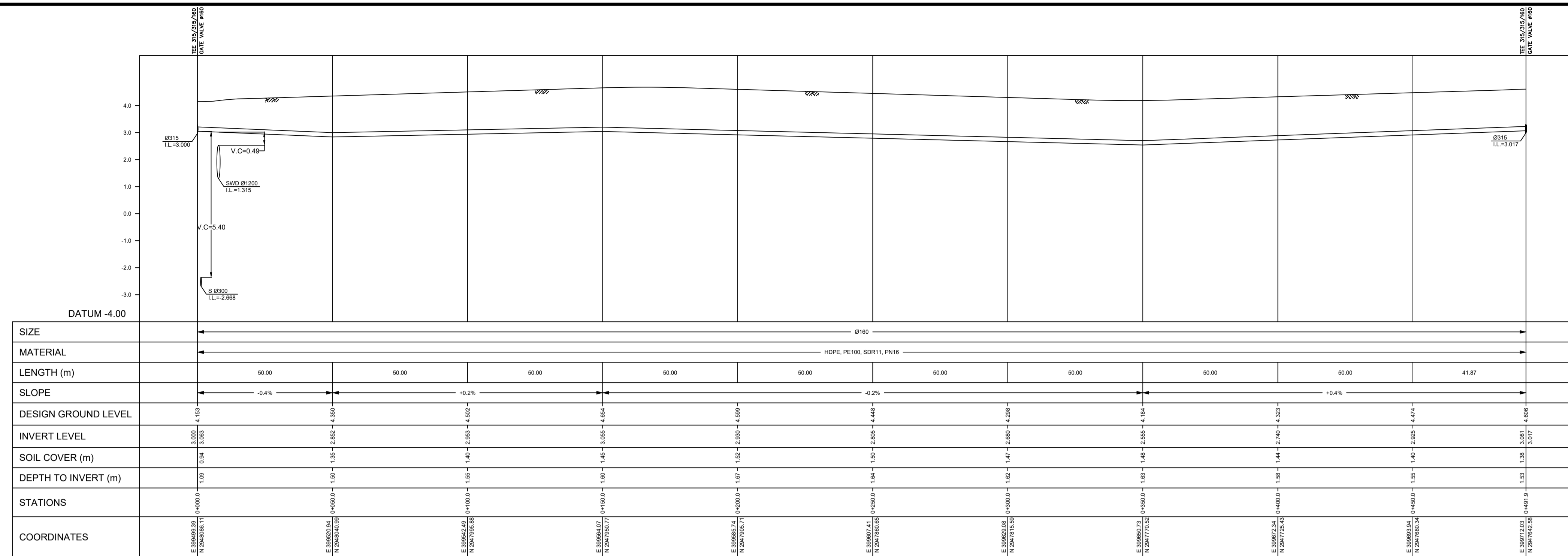
LEGEND:-

- FINISH GROUND LEVEL
- INVERT LEVEL
- Ø315 PIPE DIAMETER
- HDPE HIGH DENSITY POLYETHYLENE
- SWD STORM DRAINAGE PIPE CROSSING
- S SEWER PIPE CROSSING
- V.C VERTICAL CLEARANCE
- CONCRETE ENCASMENT
- AIR VALVE CHAMBER
- WASH OUT VALVE CHAMBER
- SHUTOFF VALVE CHAMBER
- REDUCER

NOTES:-

- 1- USE TYPE "A" BEDDING EXCEPT FOR THE FOLLOWING CASES USE BEDDING TYPE "B".
  - a- DEPTH OF COVER IS LESS THAN 1.00m.
  - b- UNDER STREET LIGHTING POLES.
  - c- AT SEWER LINE / WATER LINE CROSSING. WHERE THE VERTICAL DISTANCE IS LESS THAN 0.5m, THE SEWER PIPE SHALL BE ENCASED FOR A DISTANCE OF AT LEAST 4.0m FROM EACH SIDE OF WATER PIPE.

00	ISSUE FOR APPROVAL / SHOPDRAWING	10/2023	من قبل
	صدرت من اجل المراجعة	DATE	BY
	ISSUED FOR / REVISION	DATE	BY
PROJECT TITLE			
<b>GRANT LANDS PROJECT</b>			
CLIENT			
CONSULTANT			
ENGINEERING CONTRACTOR			
DESIGN ITEM	<b>INFRASTRUCTURE</b>		
DRAWING TITLE	<b>QATIF SITE 2</b>		
DRAWING NO.	<b>1418DF-QTF(2)-220-I-PS-102PR4</b>		
PROJECT NO.	START DATE	SCALE	PHASE
1418DF	OCT-2023	H2:1/1000	AT
DRAWN BY	CHECKED BY	CERTIFIED BY	APPROVED
SIGN:	SIGN:	SIGN:	SIGN:



LINE (6) (PART 1/2)

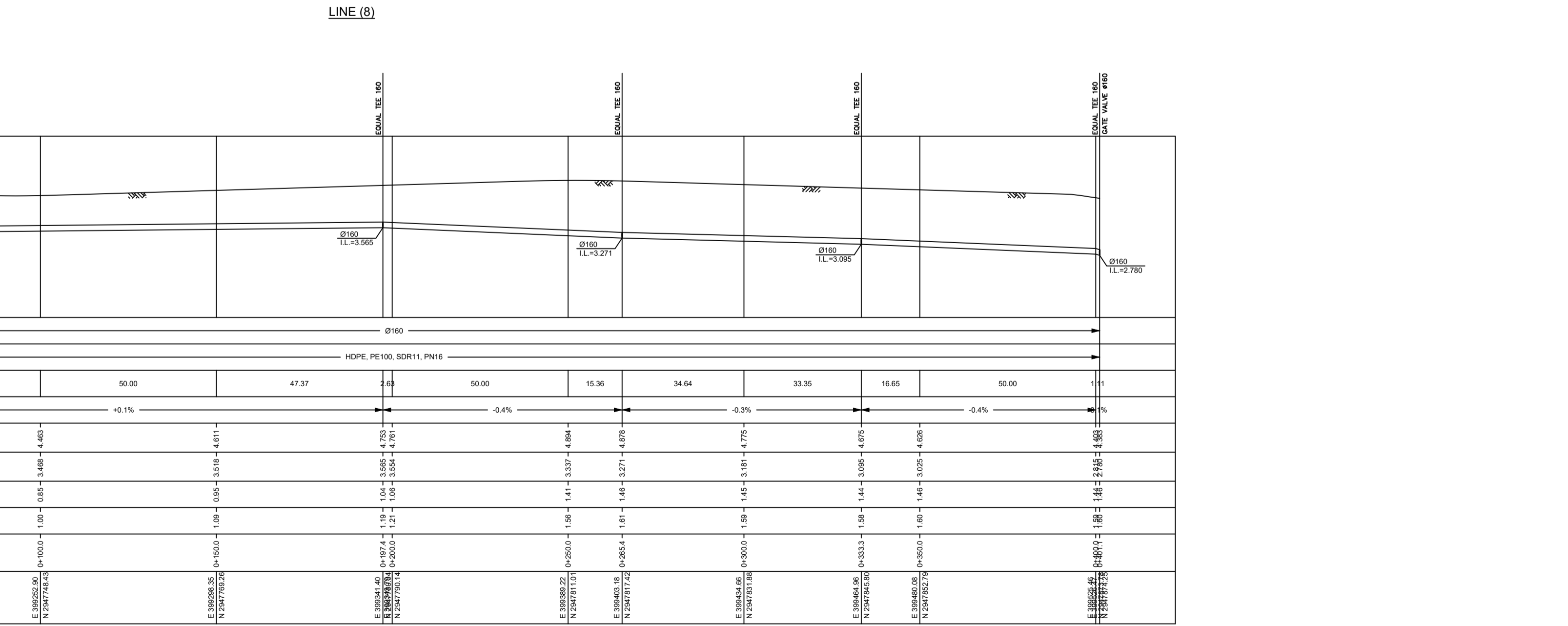
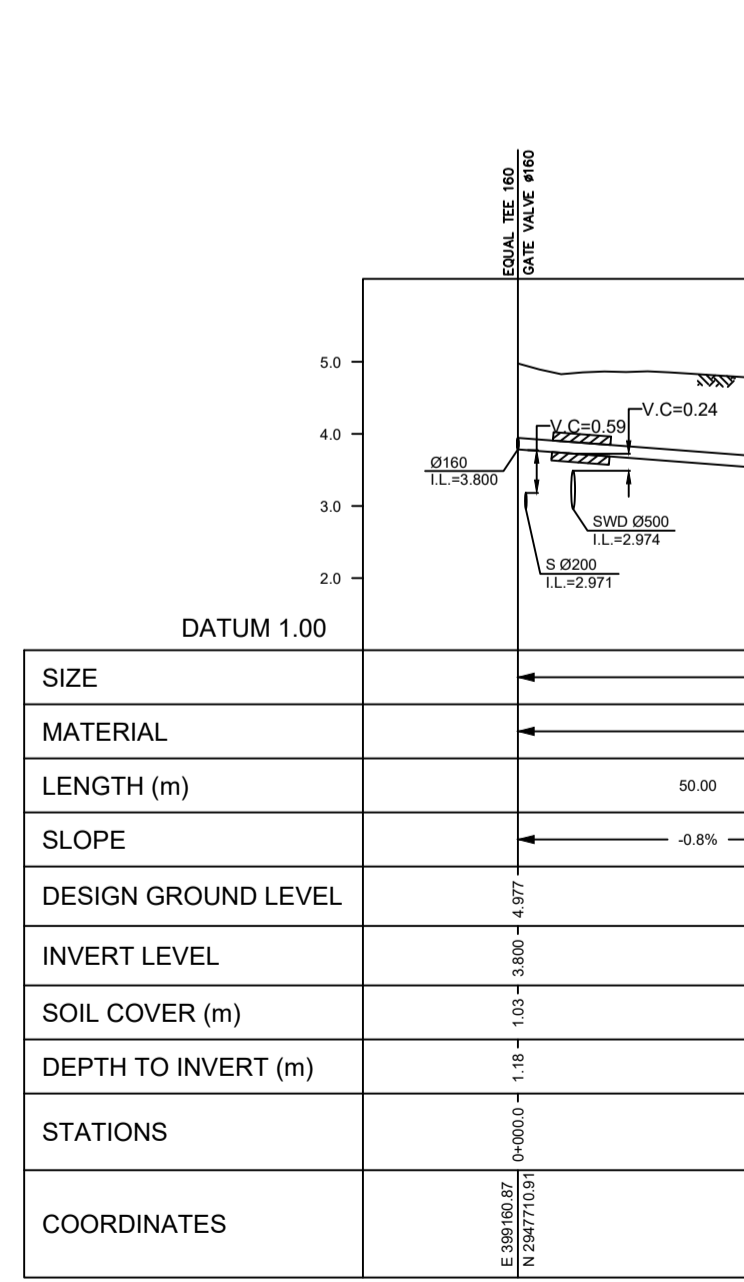
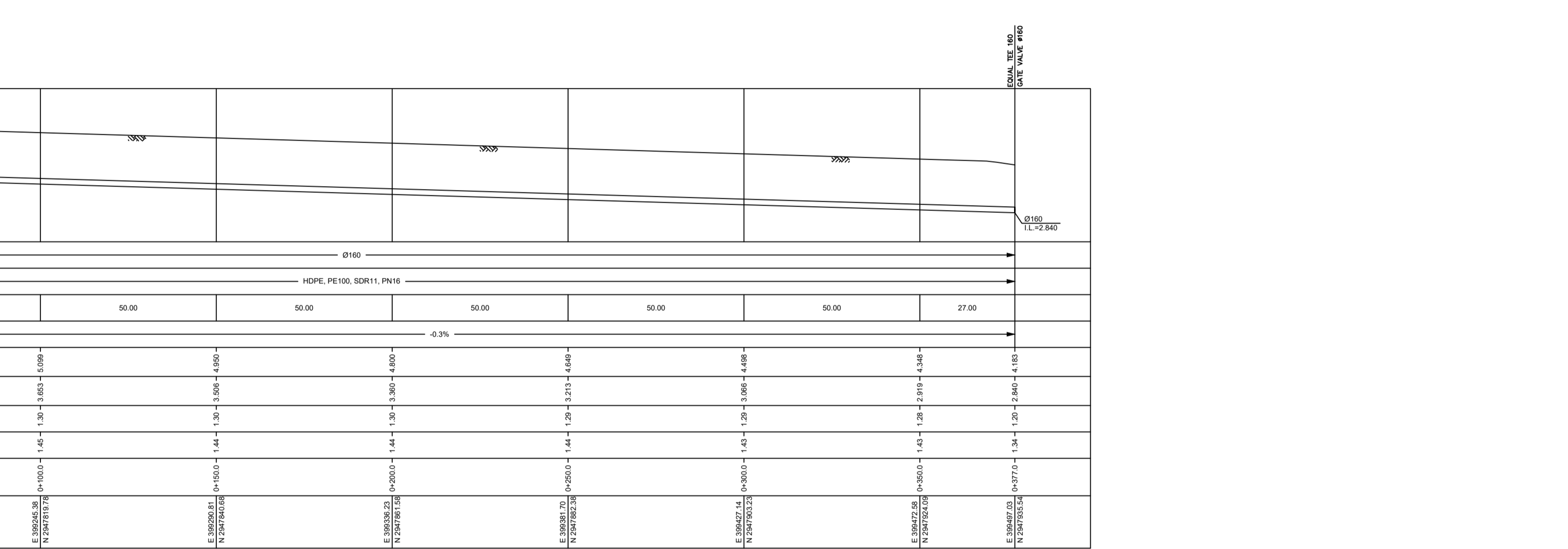
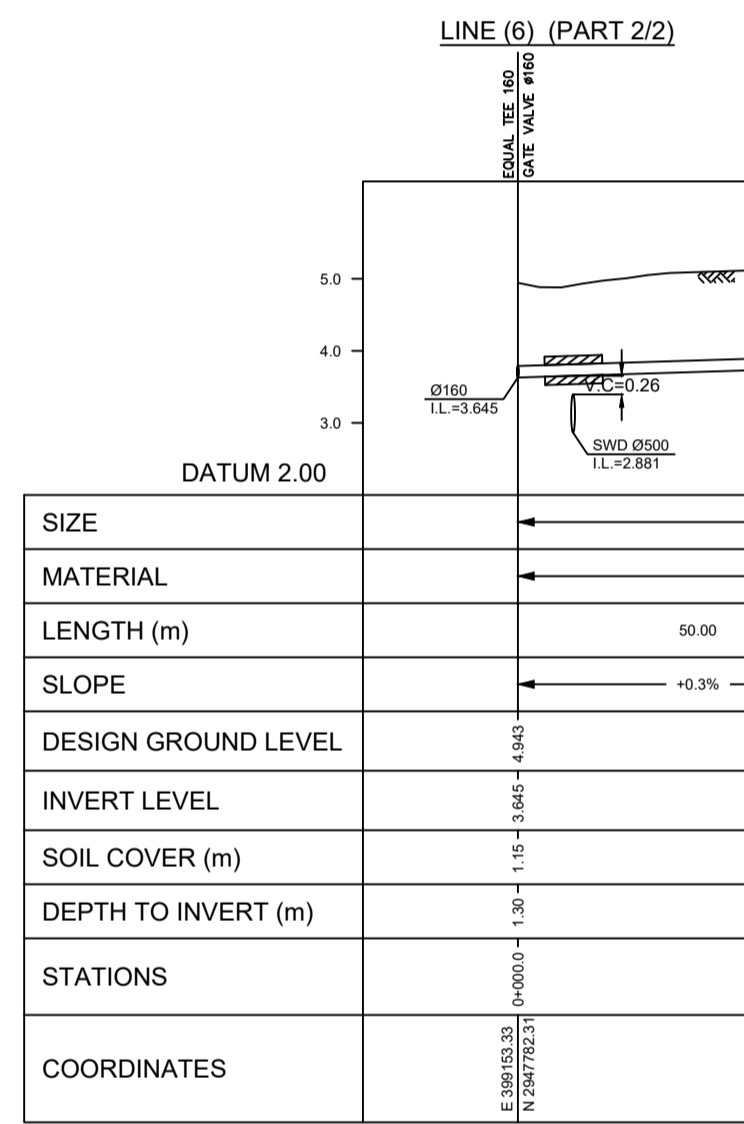
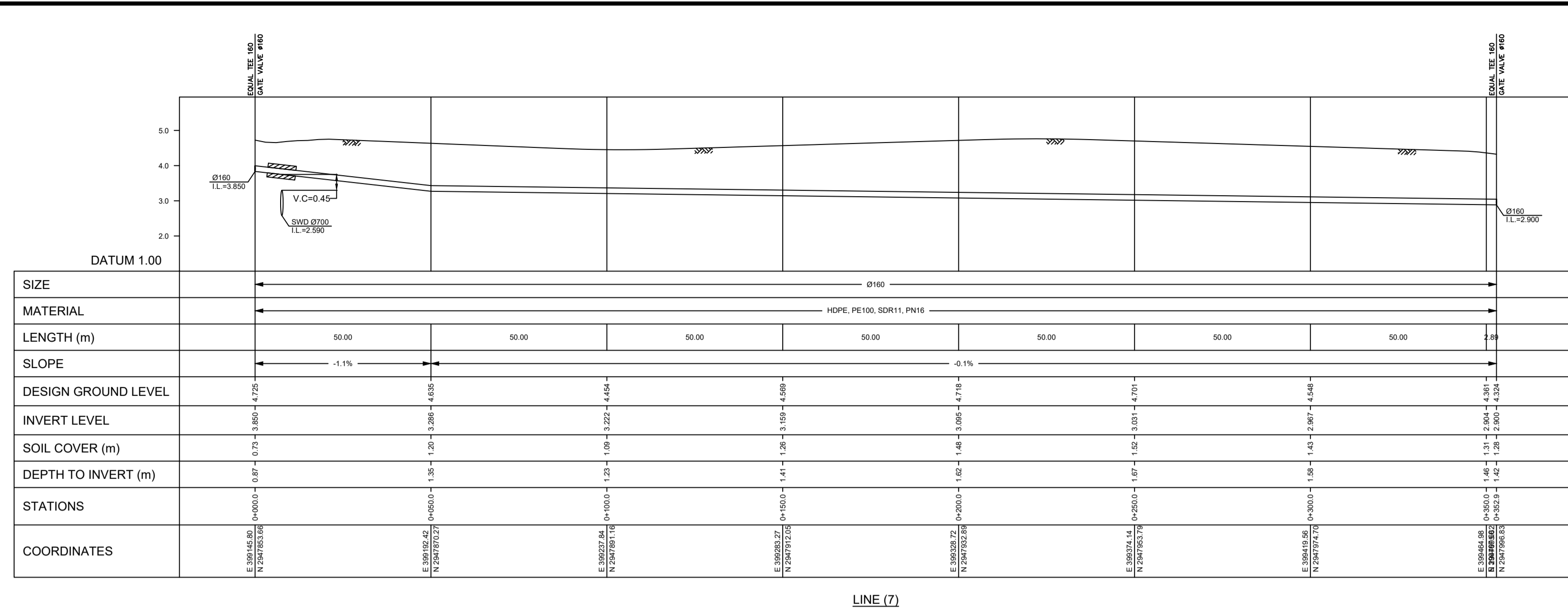
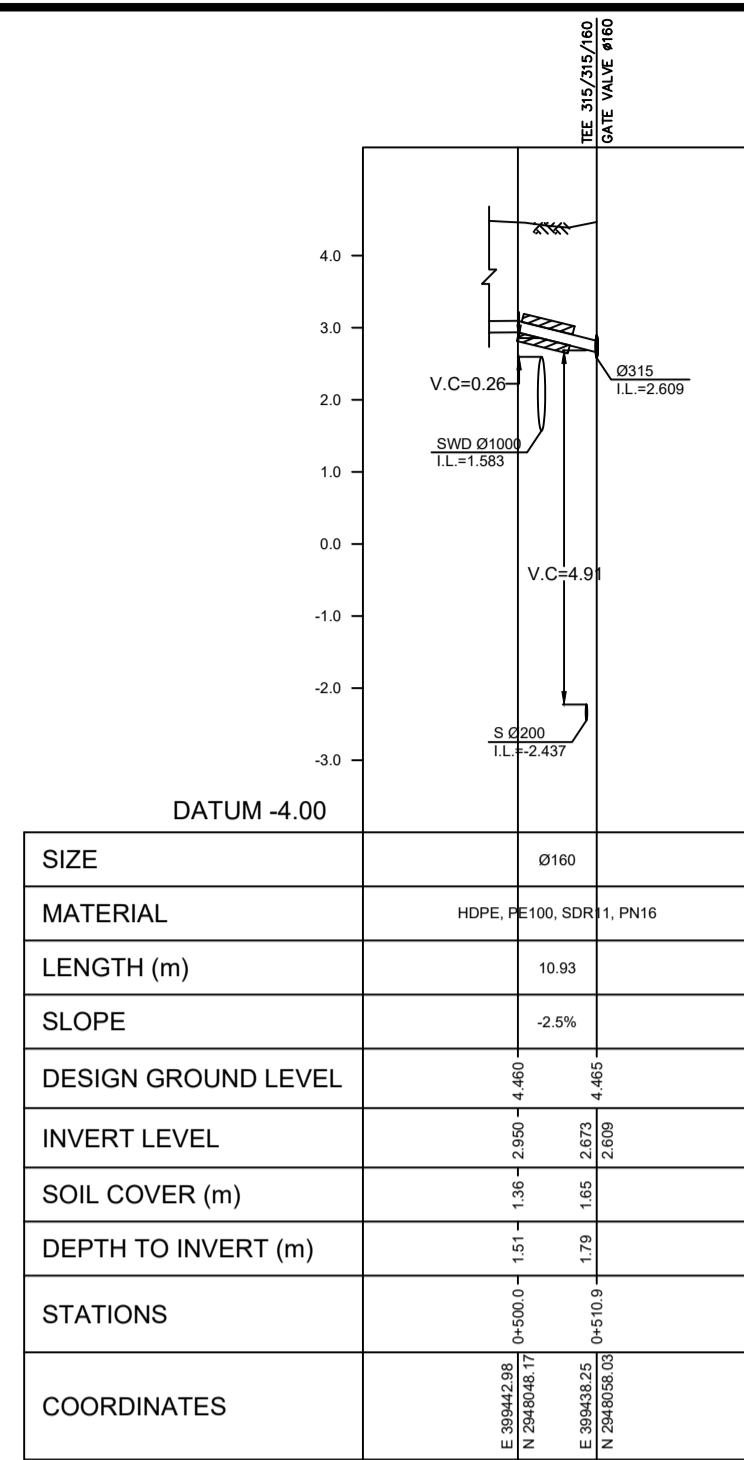
LEGEND:-

- FINISH GROUND LEVEL
- INVERT LEVEL
- Ø315 PIPE DIAMETER
- HDPE HIGH DENSITY POLYETHYLENE
- SWD STORM DRAINAGE PIPE CROSSING
- S SEWER PIPE CROSSING
- V.C VERTICAL CLEARANCE
- CONCRETE ENCASMENT
- AIR VALVE CHAMBER
- WASH OUT VALVE CHAMBER
- SHUTOFF VALVE CHAMBER
- REDUCER

NOTES:-

- 1- USE TYPE "A" BEDDING EXCEPT FOR THE FOLLOWING CASES USE BEDDING TYPE "B".
  - a- DEPTH OF COVER IS LESS THAN 1.00m.
  - b- UNDER STREET LIGHTING POLES.
  - c- AT SEWER LINE / WATER LINE CROSSING. WHERE THE VERTICAL DISTANCE IS LESS THAN 0.5m, THE SEWER PIPE SHALL BE ENCASED FOR A DISTANCE OF AT LEAST 4.0m FROM EACH SIDE OF WATER PIPE.

00	ISSUE FOR APPROVAL / SHOPDRAWING	10/2023
من قبل	صادرة من أجل المراجعة	اليوم
BY	ISSUED FOR / REVISION	DATE
PROJECT TITLE		
<b>GRANT LANDS PROJECT</b>		
CLIENT		
CONSULTANT		
ENGINEERING CONTRACTOR		
DESIGN ITEM	INFRASTRUCTURE	
DRAWING TITLE	QATIF SITE 2	
POTABLE WATER AND FIRE FIGHTING NETWORK		
LONGITUDINAL PROFILES (05 OF 15)		
DRAWING NO.	رقم المخطط	1418DF-QTF(2)-220-I-PS-102PR5
PROJECT NO.	رقم المشروع	1418DF
START DATE	تاريخ البدء	OCT-2023
SCALE	مقياس الرسم	1:200
PHASE	المرحلة	AT
DESIGNED BY	صمم من قبل	SD
CHECKED BY	التحقق	SD
CERTIFIED BY	الموافق	SD
APPROVED	الموافق	SD
SIGN	التوقيع	SIGN



- LEGEND:-**
- FINISH GROUND LEVEL
  - INVERT LEVEL
  - Ø315 PIPE DIAMETER
  - HDPE HIGH DENSITY POLYETHYLENE
  - SWD STORM DRAINAGE PIPE CROSSING
  - S SEWER PIPE CROSSING
  - V.C. VERTICAL CLEARANCE
  - CONCRETE ENCASMENT
  - AIR VALVE CHAMBER
  - WASH OUT VALVE CHAMBER
  - SHUTOFF VALVE CHAMBER
  - REDUCER

- NOTES:-**
- 1- USE TYPE "A" BEDDING EXCEPT FOR THE FOLLOWING CASES USE BEDDING TYPE "B".
    - a- DEPTH OF COVER IS LESS THAN 1.00m.
    - b- UNDER STREET LIGHTING POLES.
    - c- AT SEWER LINE / WATER LINE CROSSING. WHERE THE VERTICAL DISTANCE IS LESS THAN 0.5m, THE SEWER PIPE SHALL BE ENCASED FOR A DISTANCE OF AT LEAST 4.0m FROM EACH SIDE OF WATER PIPE.

00	ISSUE FOR APPROVAL / SHOPDRAWING	10/2023
01	صدرت من اجل المراجعة / ISSUED FOR REVISION	
02	صدرت من اجل المراجعة / ISSUED FOR REVISION	
03	صدرت من اجل المراجعة / ISSUED FOR REVISION	
04	صدرت من اجل المراجعة / ISSUED FOR REVISION	
05	صدرت من اجل المراجعة / ISSUED FOR REVISION	
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99	صدرت من اجل المراجعة / ISSUED FOR REVISION	
100	صدرت من اجل المراجعة / ISSUED FOR REVISION	

**GRANT LANDS PROJECT**

CLIENT:

CONSULTANT:

ENGINEERING CONTRACTOR:

DESIGN ITEM: **INFRASTRUCTURE**

DRAWING TITLE: **QATIF SITE 2 POTABLE WATER AND FIRE FIGHTING NETWORK LONGITUDINAL PROFILES ( 06 OF 15 )**

DRAWING NO: 1418DF-QTF(2)-220-I-PS-102PR6

PROJECT NO: 1418DF-QTF(2)-220-I-PS-102PR6

START DATE: OCT-2023

SCALE: 1:200

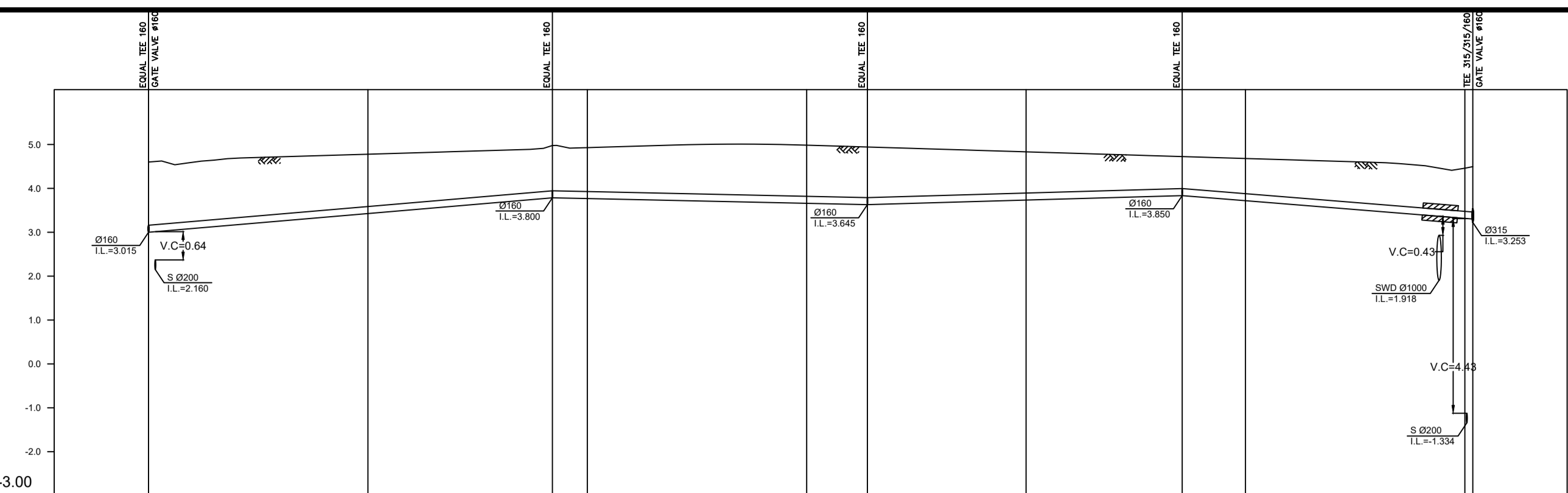
PHASE: 0.0

DESIGNER:

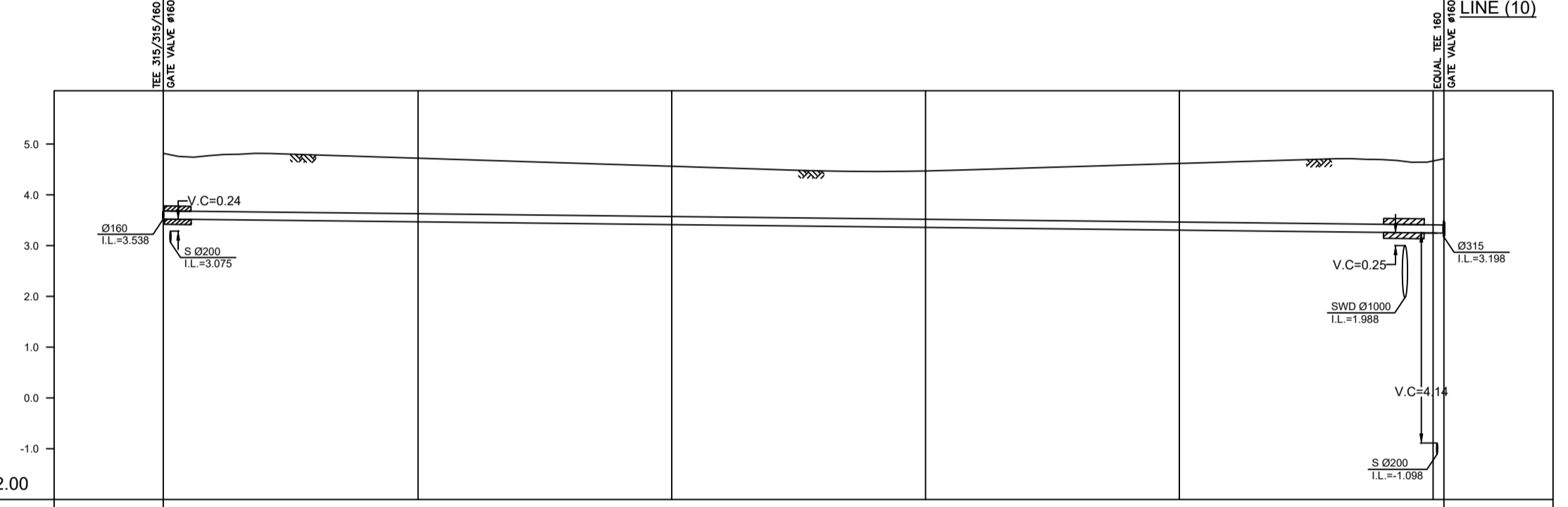
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APPROVED BY:

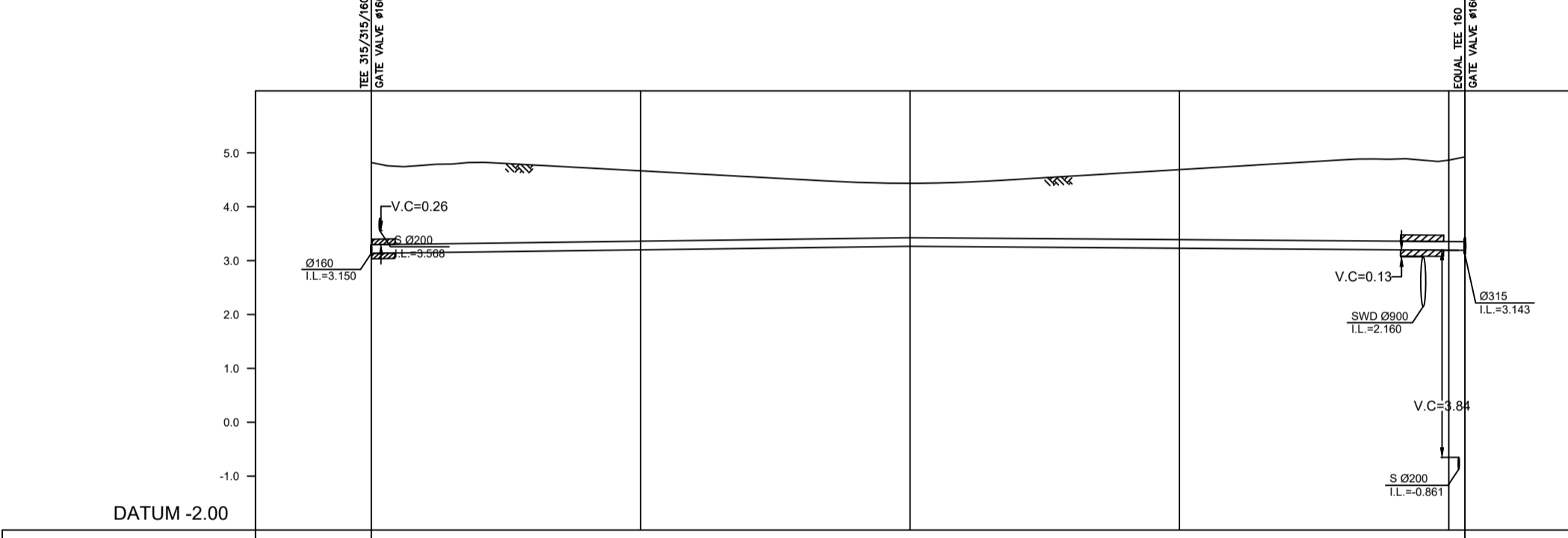




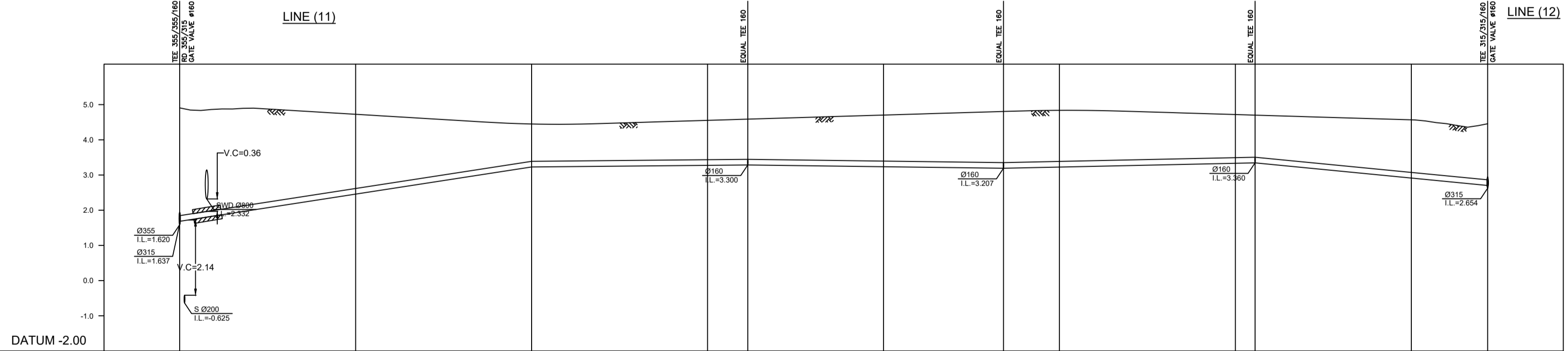
SIZE	Ø160									
MATERIAL	HDPE, PE100, SDR11, PN16									
LENGTH (m)	50.00	42.05	7.95	50.00	13.84	36.16	35.59	14.41	50.00	
SLOPE	-0.9%									
DESIGN GROUND LEVEL	4.000	4.778	4.987	4.983	4.883	4.735	4.691	4.683	4.583	4.583
INVERT LEVEL	3.015	3.441	3.980	3.980	3.980	3.704	3.704	3.704	3.234	3.234
SOIL COVER (m)	0.985	1.337	1.007	1.003	0.903	1.031	0.987	0.979	1.349	1.349
DEPTH TO INVERT (m)	1.59	1.34	1.18	1.18	1.17	1.18	1.18	1.18	1.18	1.18
STATIONS	0+000.0	0+050.0	0+100.0	0+150.0	0+200.0	0+250.0	0+300.0	0+350.0	0+400.0	0+450.0
COORDINATES	E: 390045.54 N: 294770.97	E: 390045.54 N: 294770.97	E: 390045.54 N: 294770.97	E: 390045.54 N: 294770.97	E: 390045.54 N: 294770.97	E: 390045.54 N: 294770.97	E: 390045.54 N: 294770.97	E: 390045.54 N: 294770.97	E: 390045.54 N: 294770.97	E: 390045.54 N: 294770.97



SIZE	Ø160									
MATERIAL	HDPE, PE100, SDR11, PN16									
LENGTH (m)	50.19	50.00	50.00	50.00	2.19					
SLOPE	-0.1%									
DESIGN GROUND LEVEL	4.617	4.722	4.800	4.819	4.819	4.819	4.819	4.819	4.819	4.819
INVERT LEVEL	3.534	3.483	3.424	3.424	3.424	3.424	3.424	3.424	3.424	3.424
SOIL COVER (m)	1.083	1.239	1.376	1.395	1.395	1.395	1.395	1.395	1.395	1.395
DEPTH TO INVERT (m)	1.083	1.239	1.376	1.395	1.395	1.395	1.395	1.395	1.395	1.395
STATIONS	0+000.0	0+050.2	0+100.2	0+150.2	0+200.2	0+250.2	0+300.2	0+350.2	0+400.2	0+450.2
COORDINATES	E: 390045.54 N: 294770.97	E: 390045.54 N: 294770.97	E: 390045.54 N: 294770.97	E: 390045.54 N: 294770.97	E: 390045.54 N: 294770.97	E: 390045.54 N: 294770.97	E: 390045.54 N: 294770.97	E: 390045.54 N: 294770.97	E: 390045.54 N: 294770.97	E: 390045.54 N: 294770.97



SIZE	Ø160									
MATERIAL	HDPE, PE100, SDR11, PN16									
LENGTH (m)	50.00	50.00	50.00	50.00	2.99					
SLOPE	-0.1%									
DESIGN GROUND LEVEL	4.830	4.697	4.697	4.697	4.697	4.697	4.697	4.697	4.697	4.697
INVERT LEVEL	3.150	3.215	3.215	3.215	3.215	3.215	3.215	3.215	3.215	3.215
SOIL COVER (m)	1.680	1.482	1.482	1.482	1.482	1.482	1.482	1.482	1.482	1.482
DEPTH TO INVERT (m)	1.680	1.482	1.482	1.482	1.482	1.482	1.482	1.482	1.482	1.482
STATIONS	0+000.0	0+050.0	0+100.0	0+150.0	0+200.0	0+250.0	0+300.0	0+350.0	0+400.0	0+450.0
COORDINATES	E: 390045.54 N: 294770.97	E: 390045.54 N: 294770.97	E: 390045.54 N: 294770.97	E: 390045.54 N: 294770.97	E: 390045.54 N: 294770.97	E: 390045.54 N: 294770.97	E: 390045.54 N: 294770.97	E: 390045.54 N: 294770.97	E: 390045.54 N: 294770.97	E: 390045.54 N: 294770.97

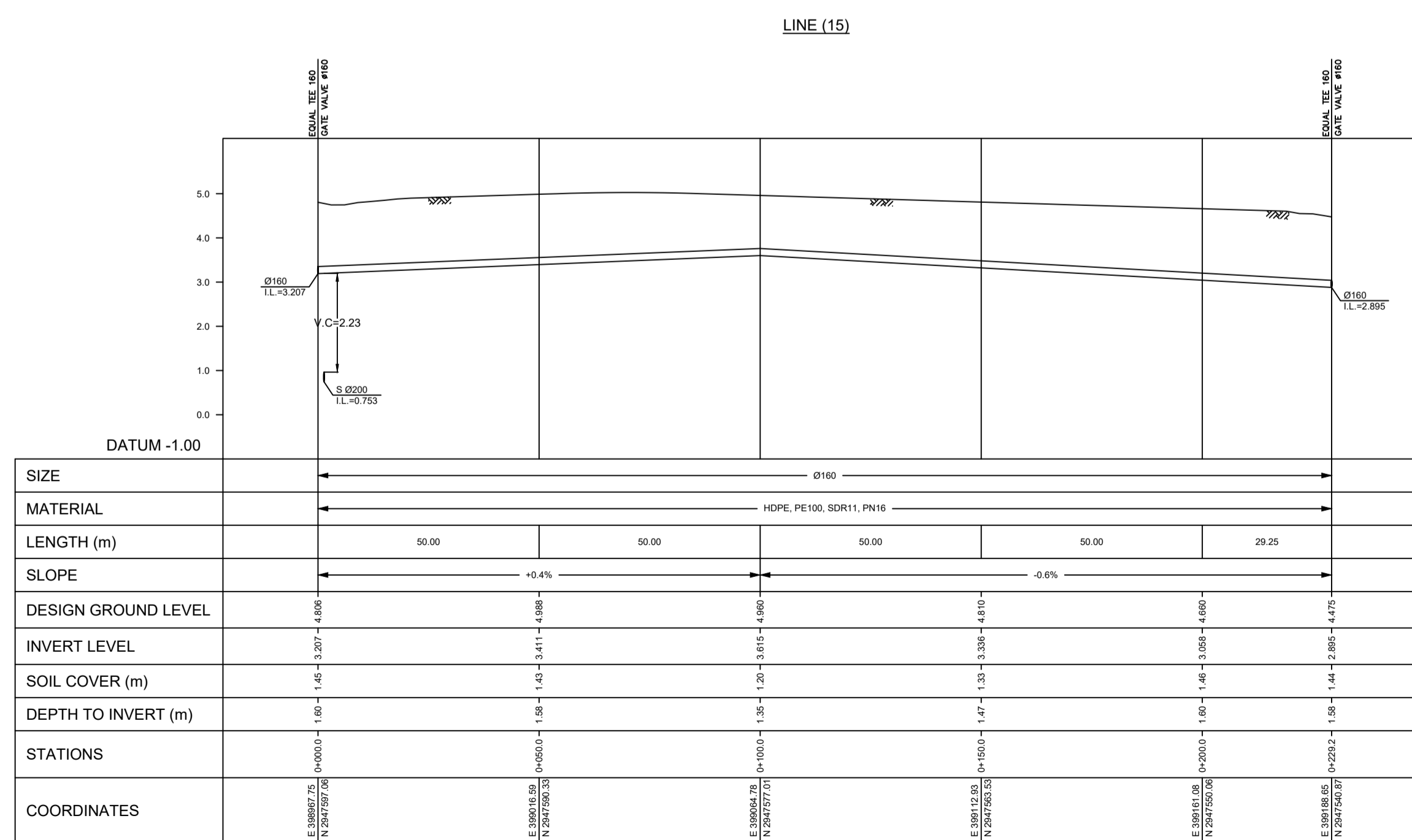
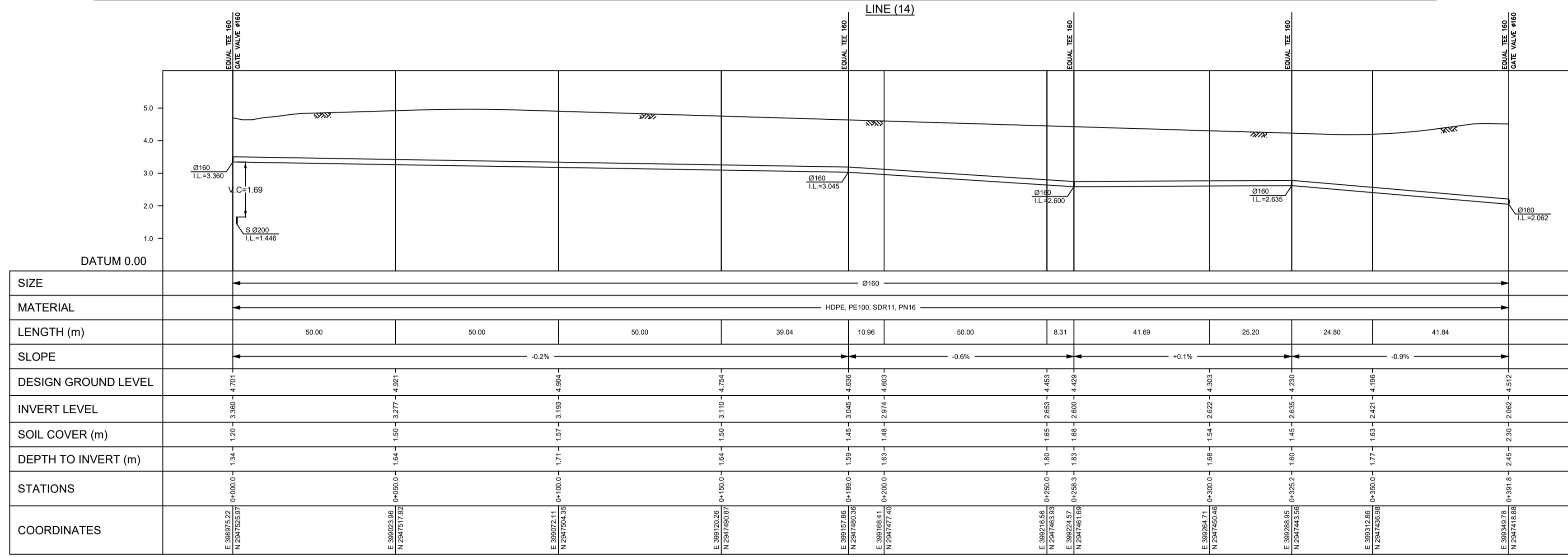
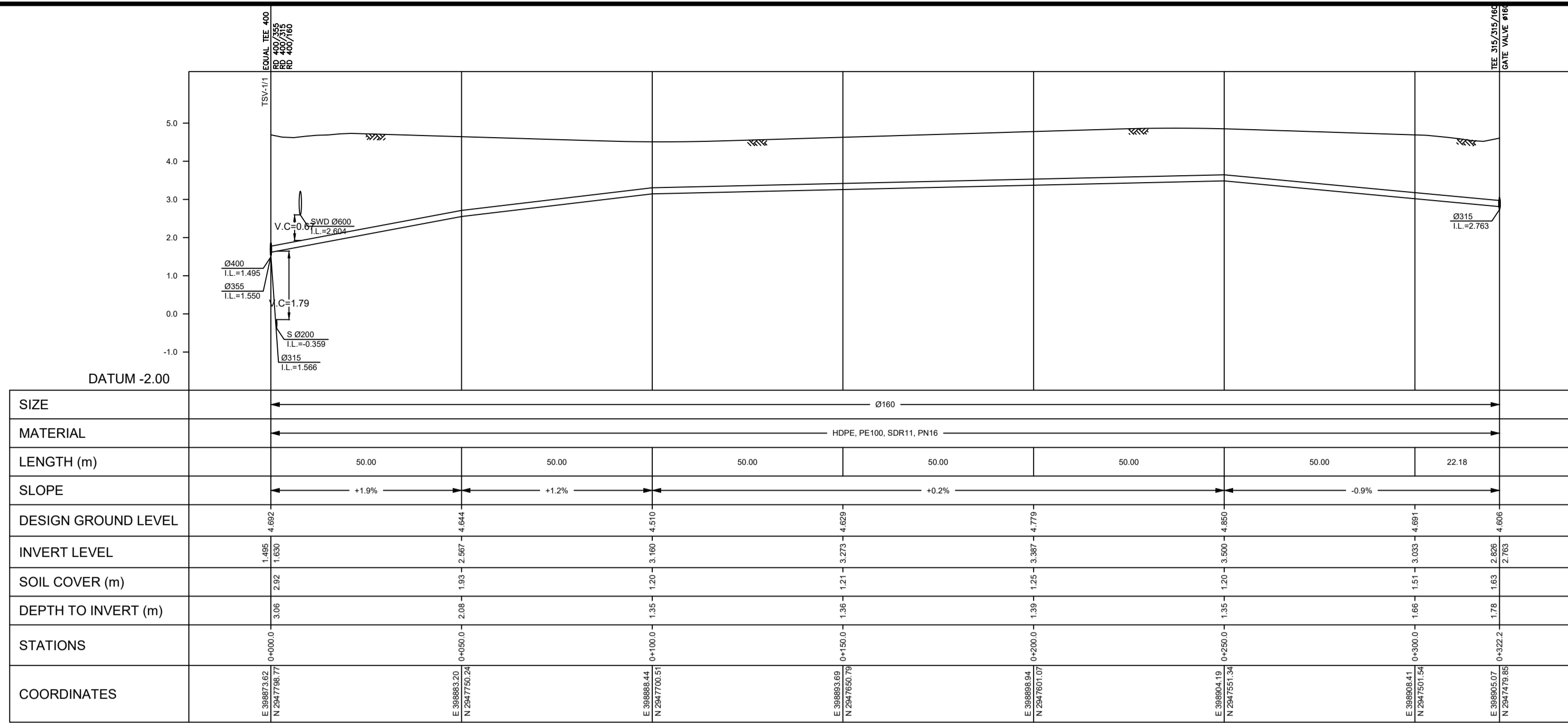


SIZE	Ø160									
MATERIAL	HDPE, PE100, SDR11, PN16									
LENGTH (m)	50.00	50.00	50.00	11.44	38.56	34.10	15.90	50.00	5.59	44.41
SLOPE	-1.5%									
DESIGN GROUND LEVEL	4.987	4.725	4.665	4.665	4.665	4.703	4.703	4.703	4.665	4.665
INVERT LEVEL	1.620	1.700	1.745	1.745	1.745	1.745	1.745	1.745	1.745	1.745
SOIL COVER (m)	3.367	3.025	2.920	2.920	2.920	2.958	2.958	2.958	2.920	2.920
DEPTH TO INVERT (m)	3.367	3.025	2.920	2.920	2.920	2.958	2.958	2.958	2.920	2.920
STATIONS	0+000.0	0+050.0	0+100.0	0+111.44	0+150.0	0+188.56	0+222.66	0+257.76	0+307.76	0+352.17
COORDINATES	E: 390045.54 N: 294770.97	E: 390045.54 N: 294770.97	E: 390045.54 N: 294770.97	E: 390045.54 N: 294770.97	E: 390045.54 N: 294770.97	E: 390045.54 N: 294770.97	E: 390045.54 N: 294770.97	E: 390045.54 N: 294770.97	E: 390045.54 N: 294770.97	E: 390045.54 N: 294770.97

- LEGEND:-**
- FINISH GROUND LEVEL
  - INVERT LEVEL
  - Ø315 PIPE DIAMETER
  - HDPE HIGH DENSITY POLYETHYLENE
  - SWD STORM DRAINAGE PIPE CROSSING
  - S SEWER PIPE CROSSING
  - V.C VERTICAL CLEARANCE
  - CONCRETE ENCASMENT
  - AIR VALVE CHAMBER
  - WASH OUT VALVE CHAMBER
  - SHUTOFF VALVE CHAMBER
  - REDUCER

- NOTES:-**
- 1- USE TYPE "A" BEDDING EXCEPT FOR THE FOLLOWING CASES USE BEDDING TYPE "B".
    - a- DEPTH OF COVER IS LESS THAN 1.00m.
    - b- UNDER STREET LIGHTING POLES.
    - c- AT SEWER LINE / WATER LINE CROSSING. WHERE THE VERTICAL DISTANCE IS LESS THAN 0.5m, THE SEWER PIPE SHALL BE ENCASED FOR A DISTANCE OF AT LEAST 4.0m FROM EACH SIDE OF WATER PIPE.

00	ISSUE FOR APPROVAL / SHOPDRAWING	10/2023	من قبل
	صدرت من اجل المراجعة		اليوم
	ISSUED FOR / REVISION	DATE	BY
PROJECT TITLE			
<b>GRANT LANDS PROJECT</b>			
CLIENT	مكتب المشروع		
CONSULTANT	مكتب المشروع		
PO Box 261170 RIYADH, SAUDI ARABIA. 11391	Tel: +966112060009 Fax: +966112060009		
ENGINEERING CONTRACTOR:	مكاتب المشروع		
DESIGN ITEM	البنية التحتية		
<b>INFRASTRUCTURE</b>			
DRAWING TITLE	موقع الخط		
<b>QATIF SITE 2</b>			
<b>POTABLE WATER AND FIRE FIGHTING NETWORK</b>			
<b>LONGITUDINAL PROFILES ( 07 OF 15 )</b>			
DRAWING NO.	رقم المخطط		
1418DF-QTF(2)-220-1-PS-102PR7	مراجعة رقم / صادر رقم / رقم الترخيص		
ISSUE NO / REV. NO.	0.0		
PROJECT NO.	1418DF-QTF	START DATE	10/2023
SCALE	1:200	DATE	10/2023
PHASE	AT	APPROVED	
DESIGNED BY	مهندس	CHECKED BY	مهندس
DRAWN BY	مهندس	CERTIFIED BY	مهندس
APPROVED		APPROVED	
SIGN:	التوقيع	SIGN:	التوقيع

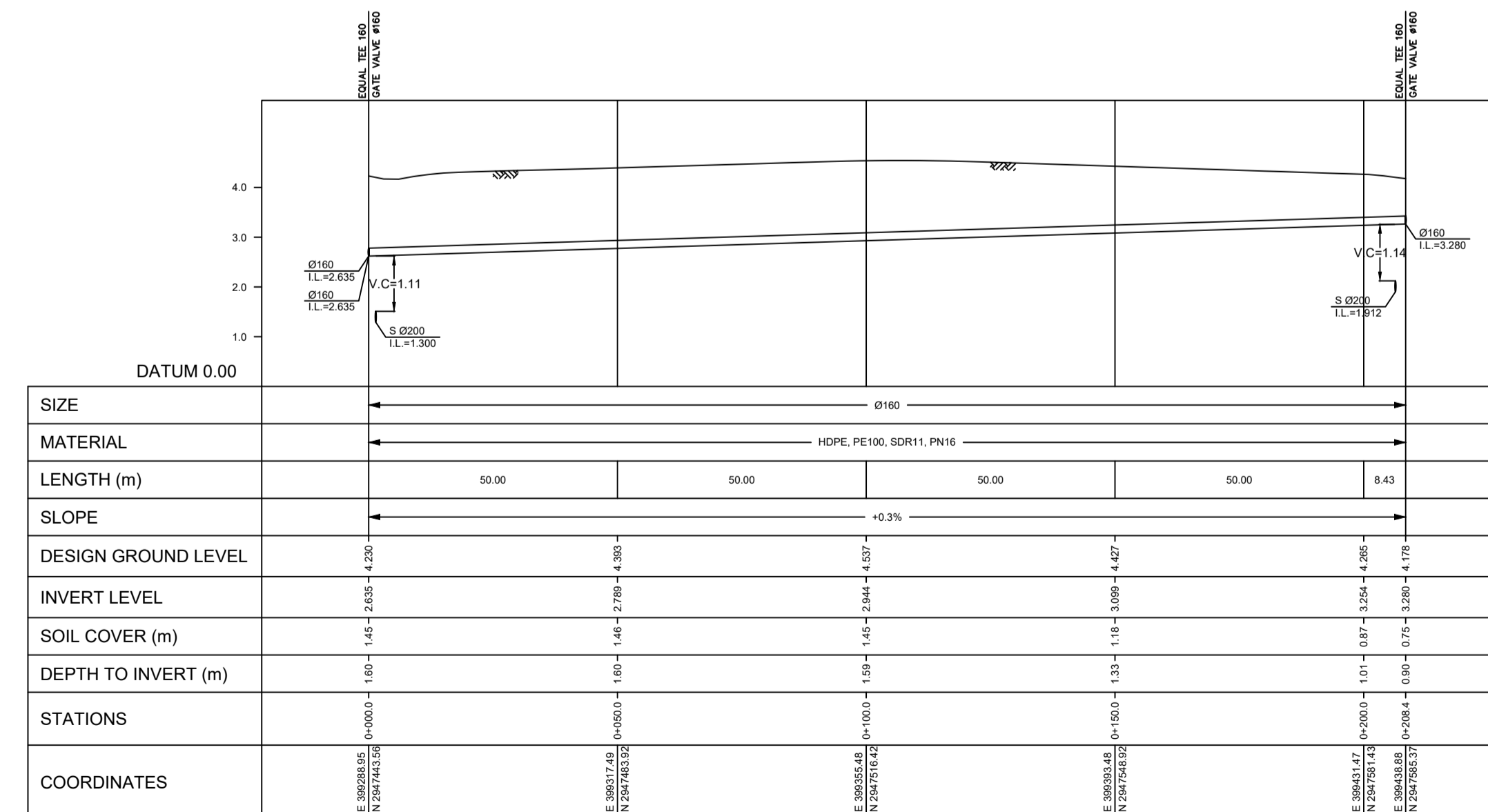
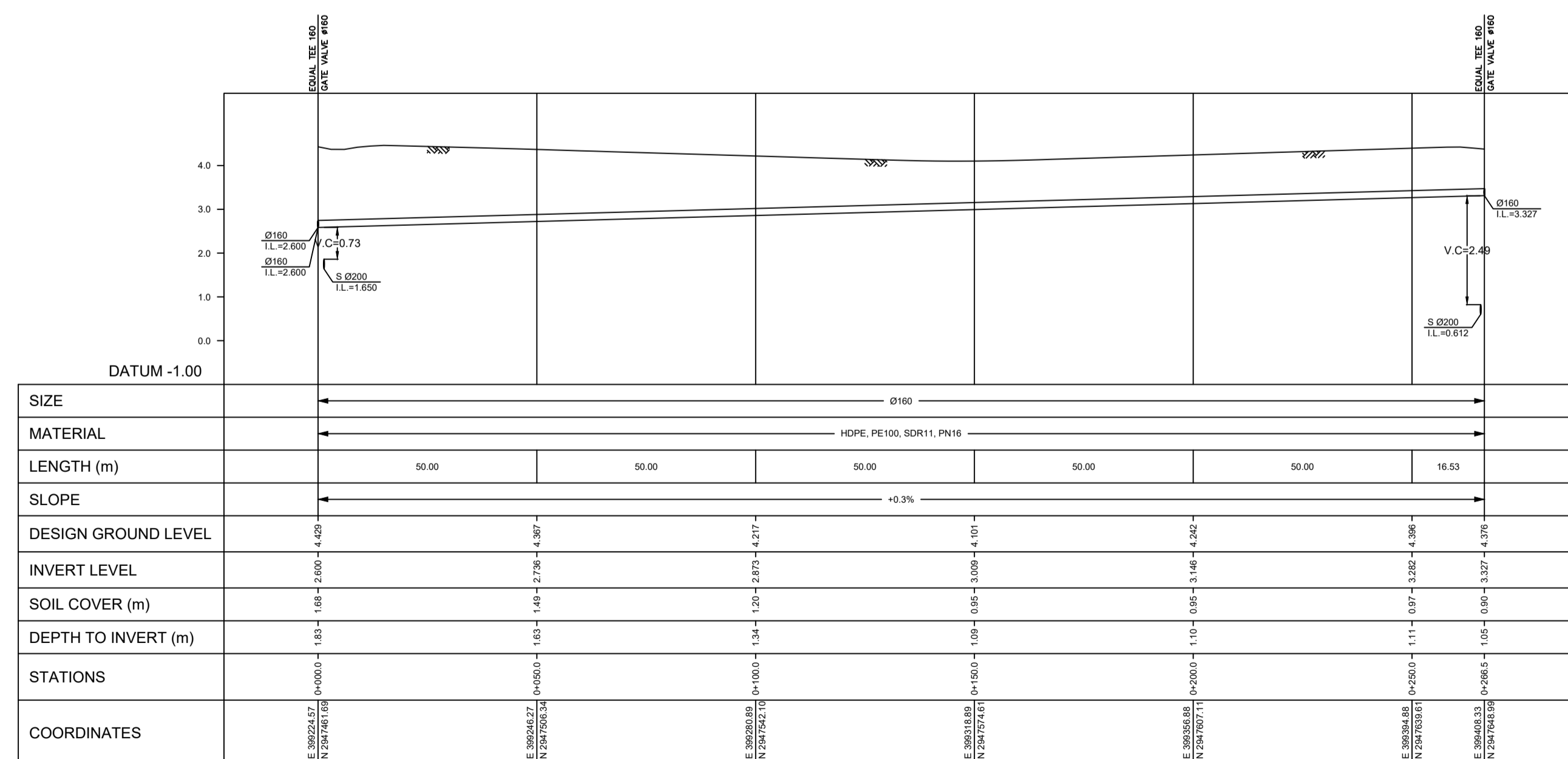
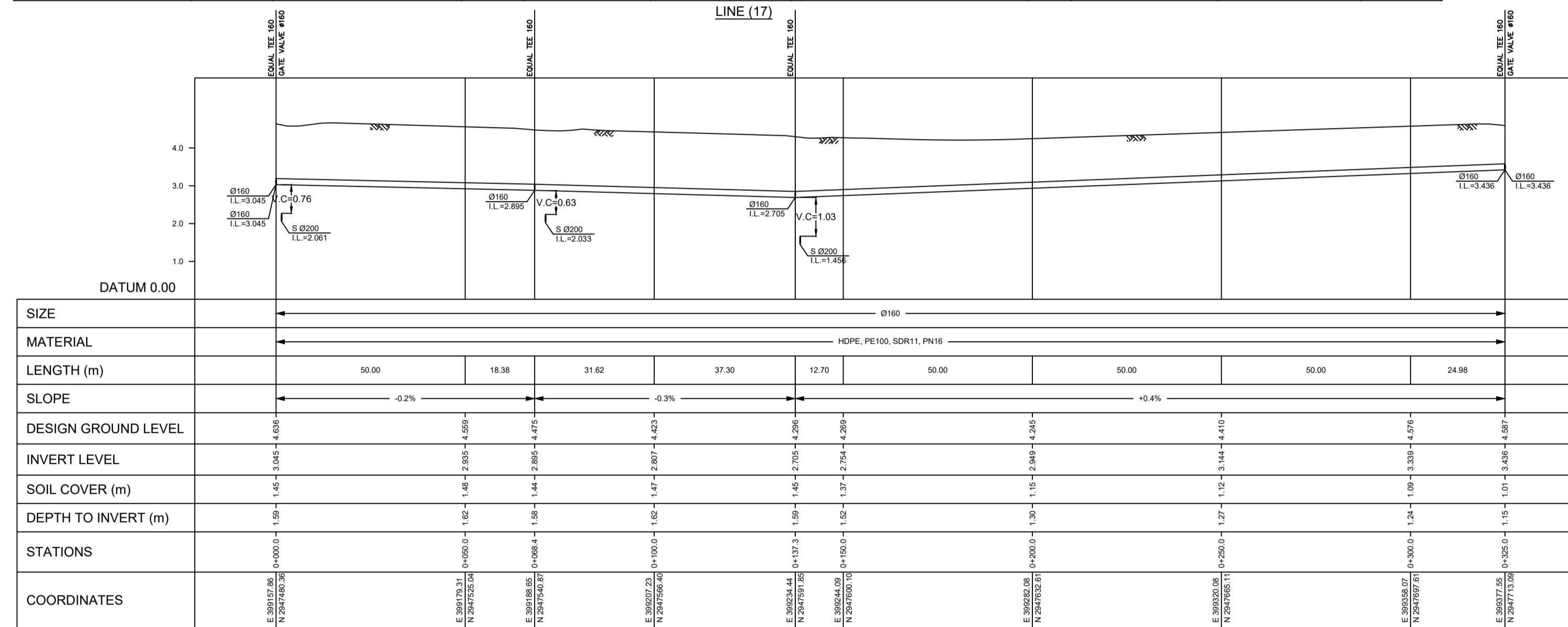
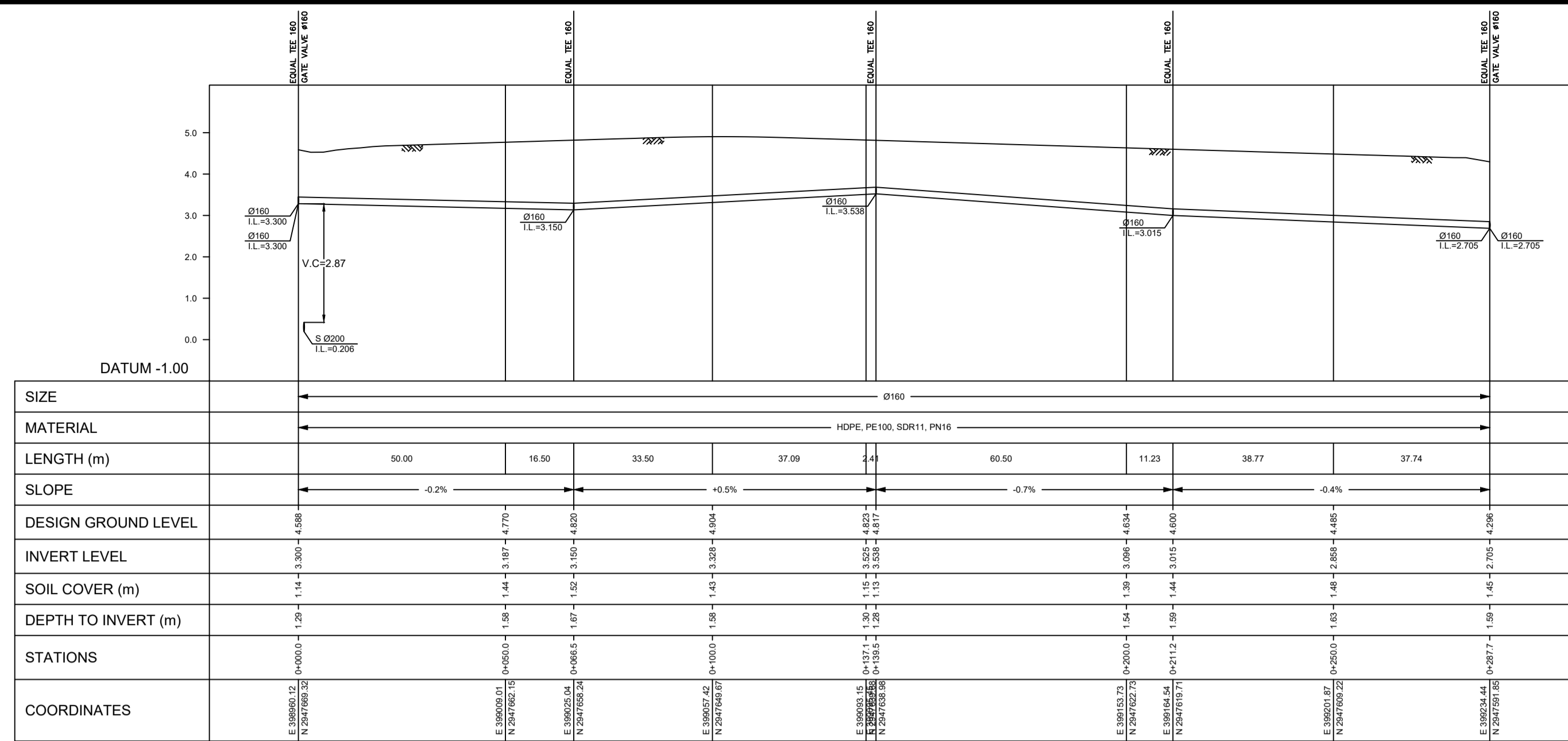


- LEGEND:-**
- FINISH GROUND LEVEL
  - IL INVERT LEVEL
  - Ø315 PIPE DIAMETER
  - HDPE HIGH DENSITY POLYETHYLENE
  - SWD STORM DRAINAGE PIPE CROSSING
  - S SEWER PIPE CROSSING
  - V.C VERTICAL CLEARANCE
  - CONCRETE ENCASMENT
  - AIR VALVE CHAMBER
  - WASH OUT VALVE CHAMBER
  - SHUTOFF VALVE CHAMBER
  - REDUCER

- NOTES:-**
- 1- USE TYPE "A" BEDDING EXCEPT FOR THE FOLLOWING CASES USE BEDDING TYPE "B".
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    - c- AT SEWER LINE / WATER LINE CROSSING. WHERE THE VERTICAL DISTANCE IS LESS THAN 0.5m, THE SEWER PIPE SHALL BE ENCASED FOR A DISTANCE OF AT LEAST 4.0m FROM EACH SIDE OF WATER PIPE.

00	ISSUE FOR APPROVAL / SHOPDRAWING	10/2023
من قبل	مراجعة من اجل المراجعة	اليوم
BY	ISSUED FOR / REVISION	DATE
معاون المشرف	PROJECT TITLE	
<b>GRANT LANDS PROJECT</b>		
CLIENT		
مالك المشروع		
CONSULTANT		
مستشار المشروع		
PO Box 261170 RIYADH, SAUDI ARABIA. 11391	Tel: +966112060009 Fax: +966112060099	
ENGINEERING CONTRACTOR:		
مكاتب الهندسة		
DESIGN ITEM	INFRASTRUCTURE	
معاون المخطط		
DRAWING TITLE	QATIF SITE 2	
POTABLE WATER AND FIRE FIGHTING NETWORK		
LONGITUDINAL PROFILES ( 08 OF 15 )		
DRAWING NO.	رقم المخطط	1418DF-QTF(2)-220-I-PS-102PR8
PROJECT NO.	رقم المشروع	1418DF
START DATE	تاريخ البدء	OCT-2023
SCALE	مقياس الرسم	1:200
PHASE	المرحلة	SD
DRAWN BY	رسم من قبل	
CHECKED BY	مراجعة	
CERTIFIED BY	مصدق	
APPROVED	موافق	
SIGN:	التوقيع	

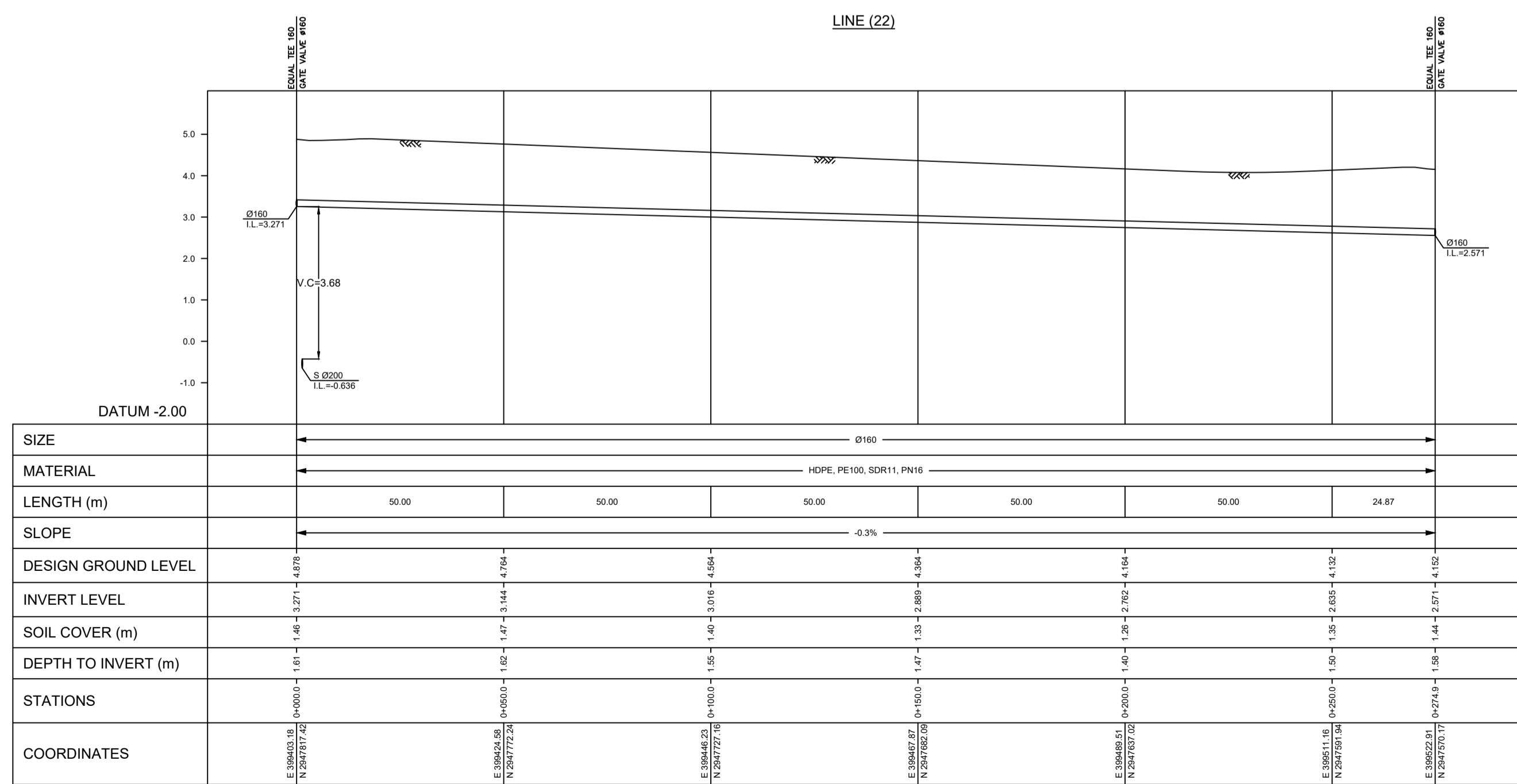
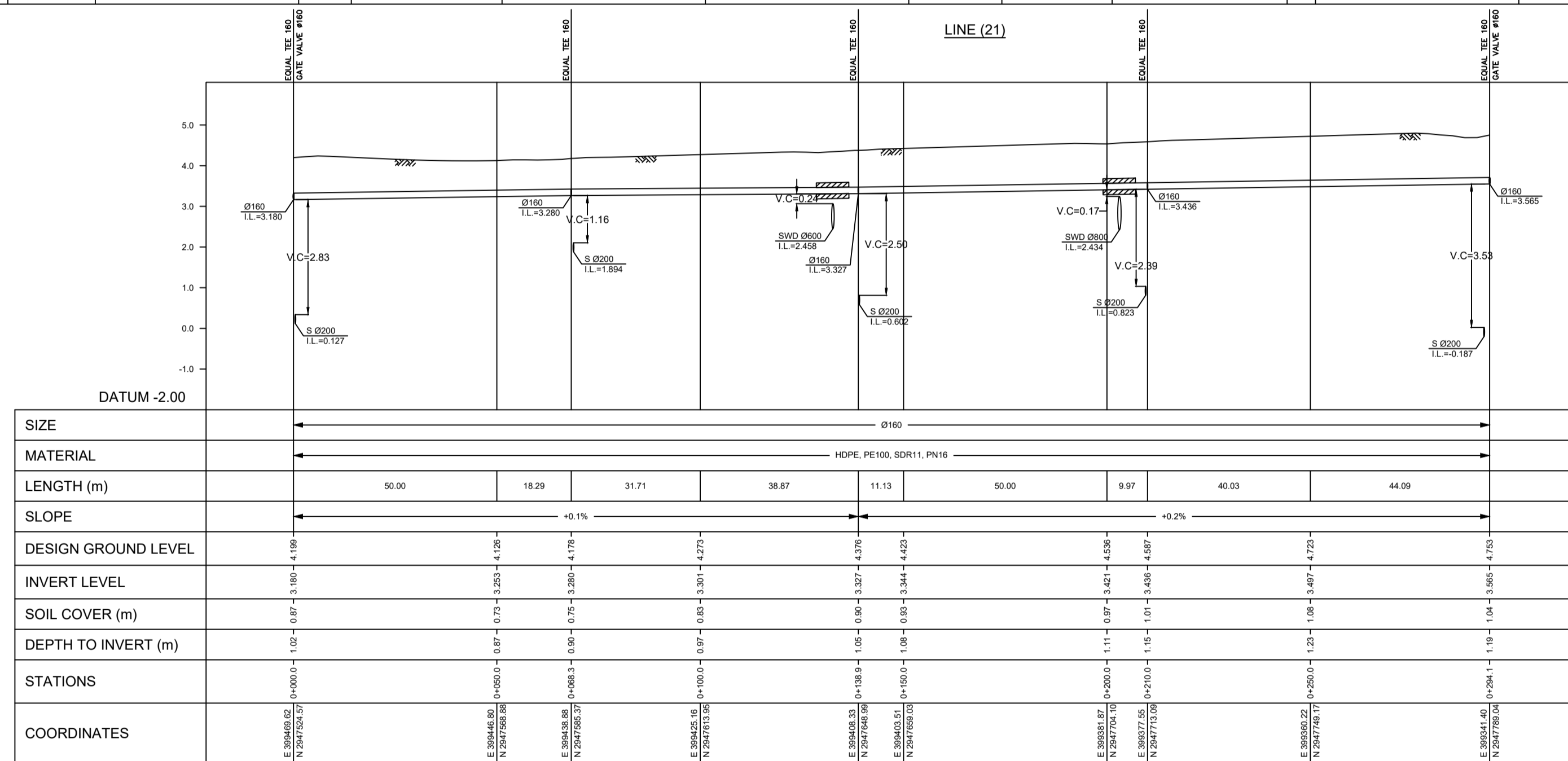
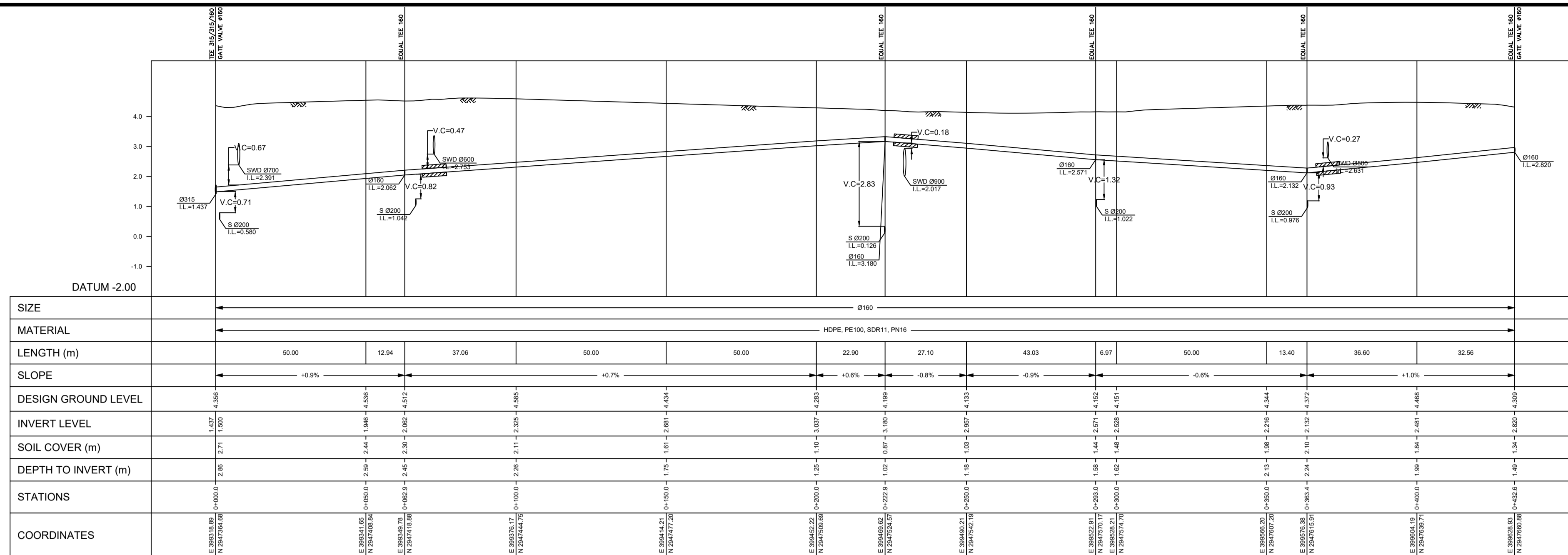




- LEGEND:-**
- FINISH GROUND LEVEL
  - INVERT LEVEL
  - Ø315 PIPE DIAMETER
  - HDPE HIGH DENSITY POLYETHYLENE
  - SWD STORM DRAINAGE PIPE CROSSING
  - S SEWER PIPE CROSSING
  - V.C VERTICAL CLEARANCE
  - CONCRETE ENCASMENT
  - AIR VALVE CHAMBER
  - WASH OUT VALVE CHAMBER
  - SHUTOFF VALVE CHAMBER
  - REDUCER

- NOTES:-**
- 1- USE TYPE "A" BEDDING EXCEPT FOR THE FOLLOWING CASES USE BEDDING TYPE "B".
    - a- DEPTH OF COVER IS LESS THAN 1.00m.
    - b- UNDER STREET LIGHTING POLES.
    - c- AT SEWER LINE / WATER LINE CROSSING. WHERE THE VERTICAL DISTANCE IS LESS THAN 0.5m, THE SEWER PIPE SHALL BE ENCASED FOR A DISTANCE OF AT LEAST 4.0m FROM EACH SIDE OF WATER PIPE.

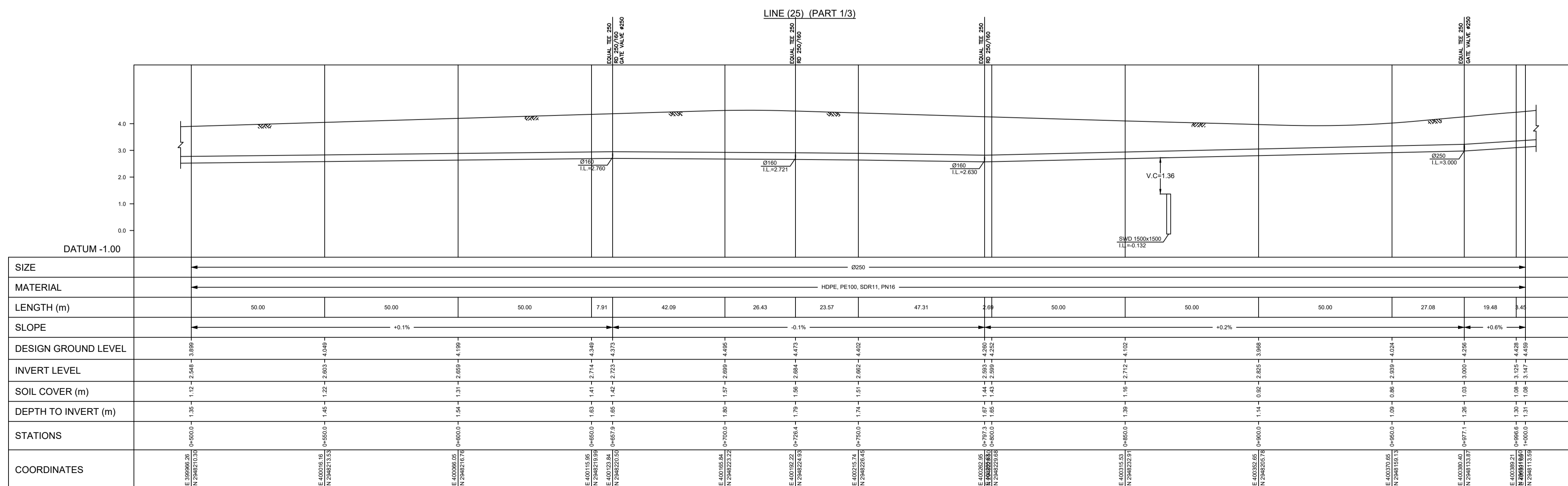
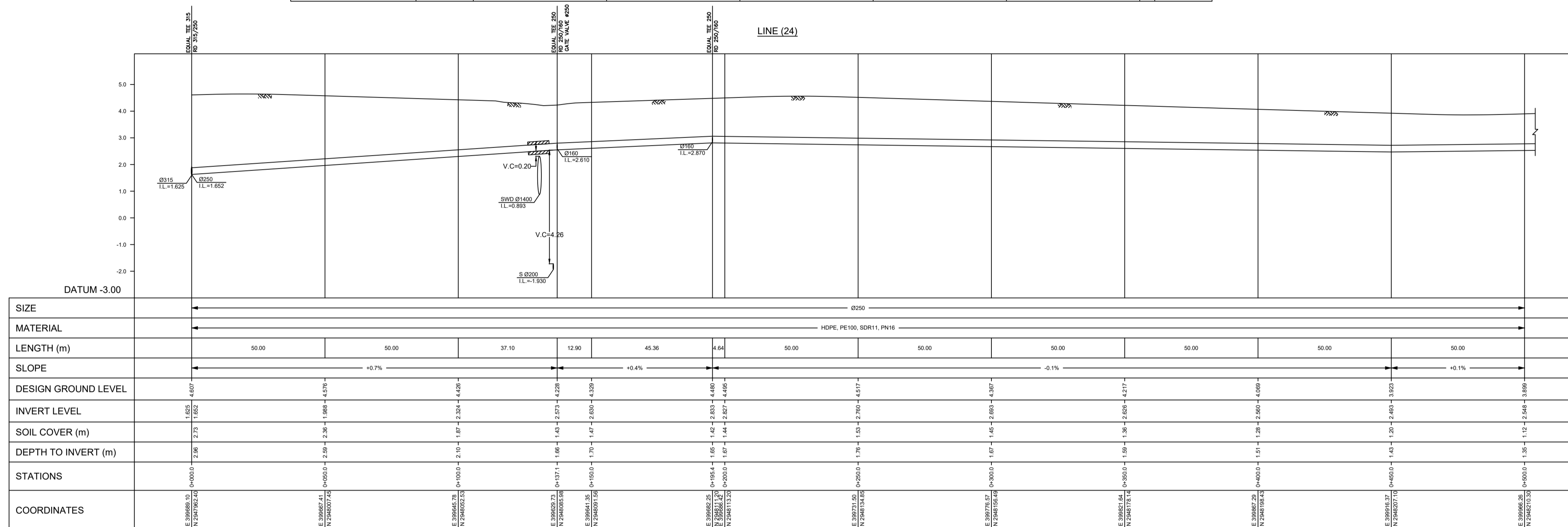
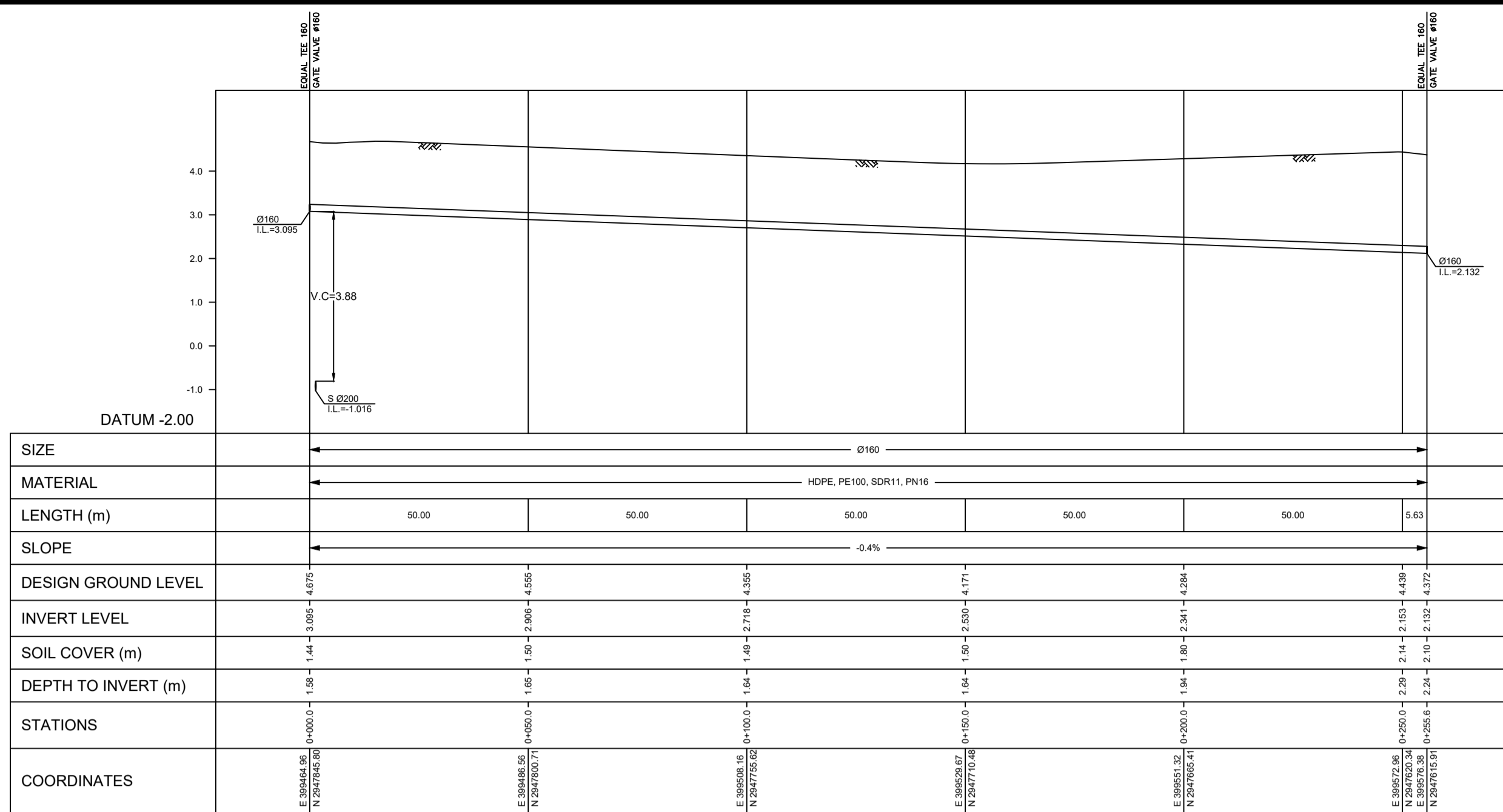
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	صادرة من اجل المراجعة	DATE	BY
	ISSUED FOR / REVISION	DATE	BY
PROJECT TITLE			
<b>GRANT LANDS PROJECT</b>			
CLIENT			مالك المشروع
CONSULTANT			المشاور
			دار الرياض Dar Al Riyadh ENGINEERING & CONSTRUCTION MANAGEMENT SERVICES
ENGINEERING CONTRACTOR			مكشور المشروع
			الرواف للمشروعات Al-Rouaf for Landscaping
DESIGN ITEM			
<b>INFRASTRUCTURE</b>			
DRAWING TITLE			موانع المخطط
<b>QATIF SITE 2</b>			
<b>POTABLE WATER AND FIRE FIGHTING NETWORK</b>			
<b>LONGITUDINAL PROFILES ( 09 OF 15 )</b>			
DRAWING NO. رقم المخطط / رقم المشروع / رقم رقم / رقم			
<b>1418DF-QTF(2)-220-I-PS-102PR9</b>			
PROJECT NO. رقم المشروع	START DATE تاريخ البدء	SCALE مقياس الرسم	PHASE المرحلة
1418DF	OCT-2023	H2-11000/L-11000	AT SD
DRAWN BY	CHECKED BY	APPROVED	المصمم
رسم من قبل	المراجعة	مصدق	المصمم
SIGN.	التوقيع	SIGN.	التوقيع
SIGN.	التوقيع	SIGN.	التوقيع
SIGN.	التوقيع	SIGN.	التوقيع



- LEGEND:-**
- FINISH GROUND LEVEL
  - IL INVERT LEVEL
  - Ø315 PIPE DIAMETER
  - HDPE HIGH DENSITY POLYETHYLENE
  - SWD STORM DRAINAGE PIPE CROSSING
  - S SEWER PIPE CROSSING
  - V.C. VERTICAL CLEARANCE
  - CONCRETE ENCASMENT
  - AIR VALVE CHAMBER
  - WASH OUT VALVE CHAMBER
  - SHUTOFF VALVE CHAMBER
  - REDUCER

- NOTES:-**
- 1- USE TYPE "A" BEDDING EXCEPT FOR THE FOLLOWING CASES USE BEDDING TYPE "B".
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00	ISSUE FOR APPROVAL / SHOPDRAWING	10/2023	من قبل
	صدرت من اجل المراجعة		اليوم
	ISSUED FOR / REVISION		DATE
PROJECT TITLE		معاون المشروع	
<b>GRANT LANDS PROJECT</b>			
CLIENT	مالك المشروع		
CONSULTANT	مستشار المشروع		
PO Box 261170 RIYADH, SAUDI ARABIA. 11391	T: +966112960009 F: +966112960099		معاون المشروع
DESIGN ITEM	البنية التحتية		
<b>INFRASTRUCTURE</b>			
DRAWING TITLE	معاون المشروع		
<b>QATIF SITE 2 POTABLE WATER AND FIRE FIGHTING NETWORK LONGITUDINAL PROFILES ( 10 OF 15)</b>			
DRAWING NO.	رقم المخطط		
1418DF-QTF(2)-220-I-PS-102PR10	مراجعة رقم / صادر رقم / رقم المخطط		
PROJECT NO.	START DATE	تاريخ البدء	SCALE
1418DF	OCT-2023		H2=1/1000L/1/100L AT
DRAWN BY	CHECKED BY	مراجعة	CERTIFIED BY
رسم من قبل	مراجعة	مراجعة	مراجعة
DESIGNED BY	CHECKED BY	مراجعة	CERTIFIED BY
التصميم	مراجعة	مراجعة	مراجعة
SIGN.	التوقيع	SIGN.	التوقيع



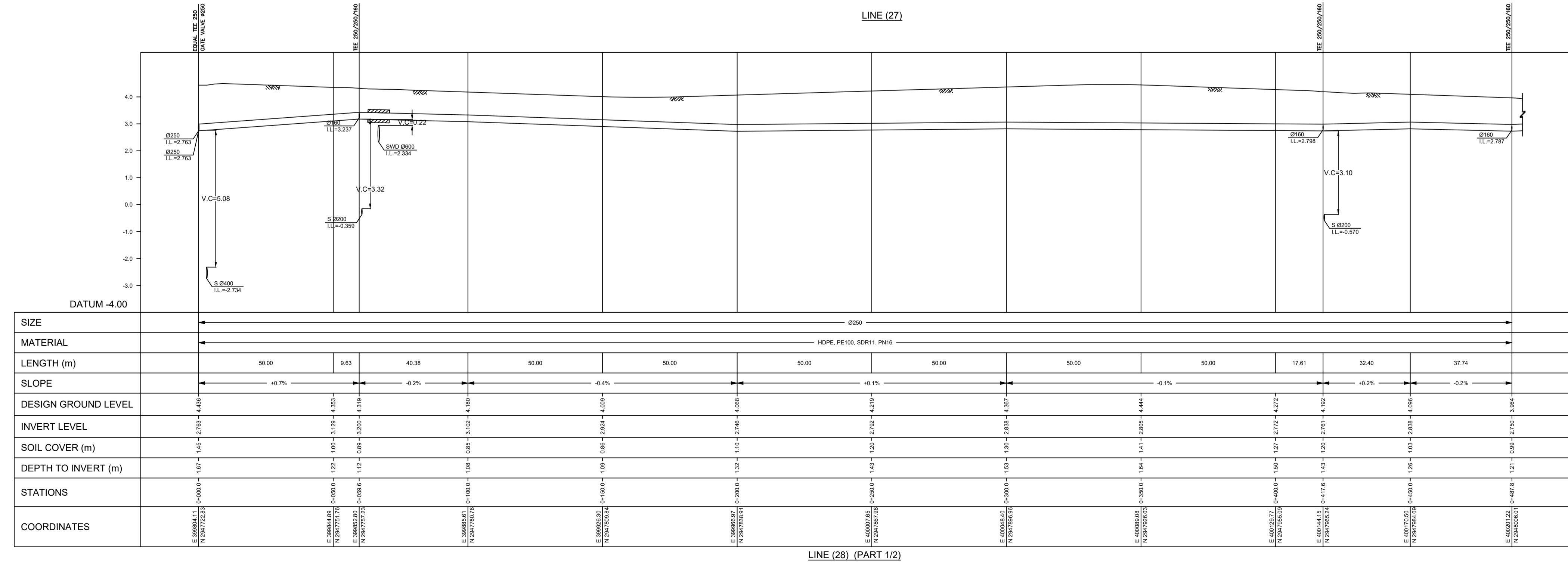
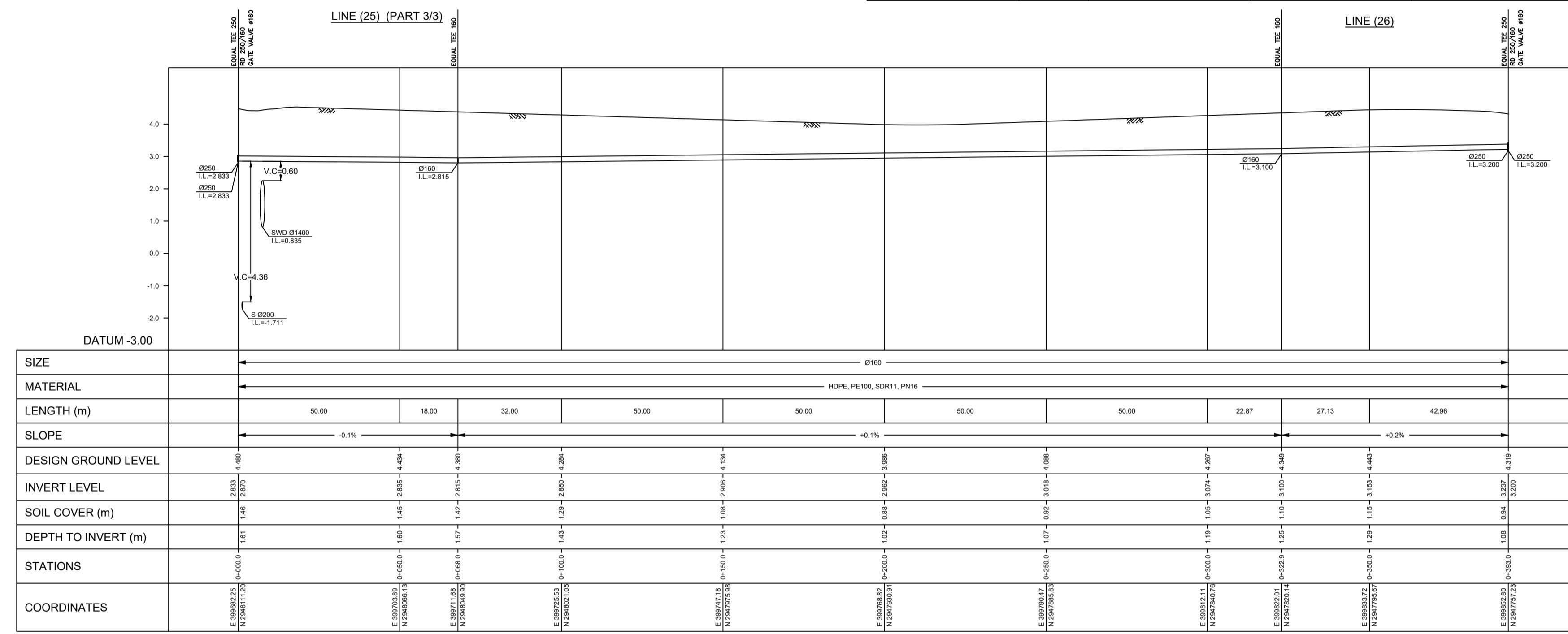
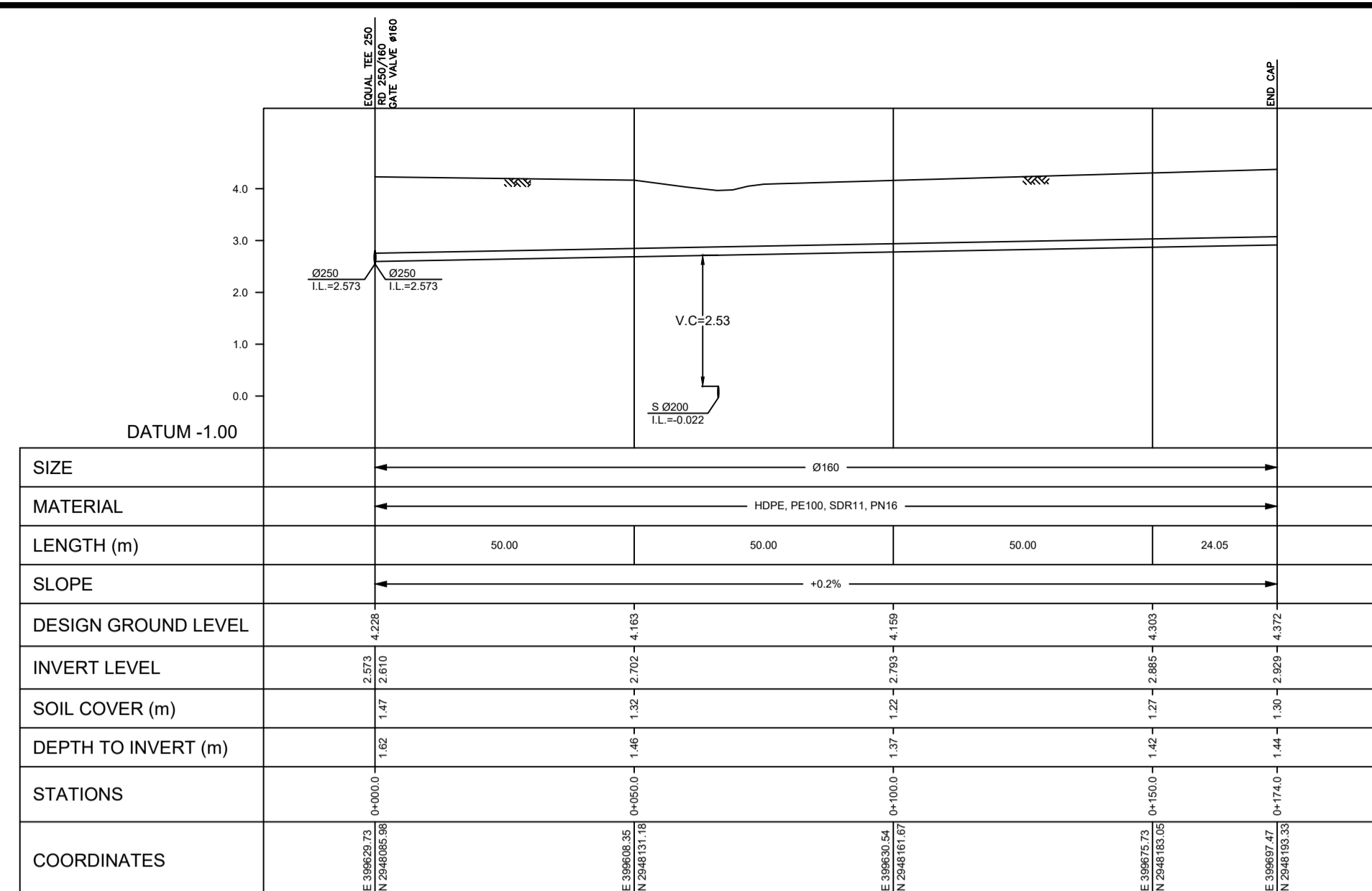
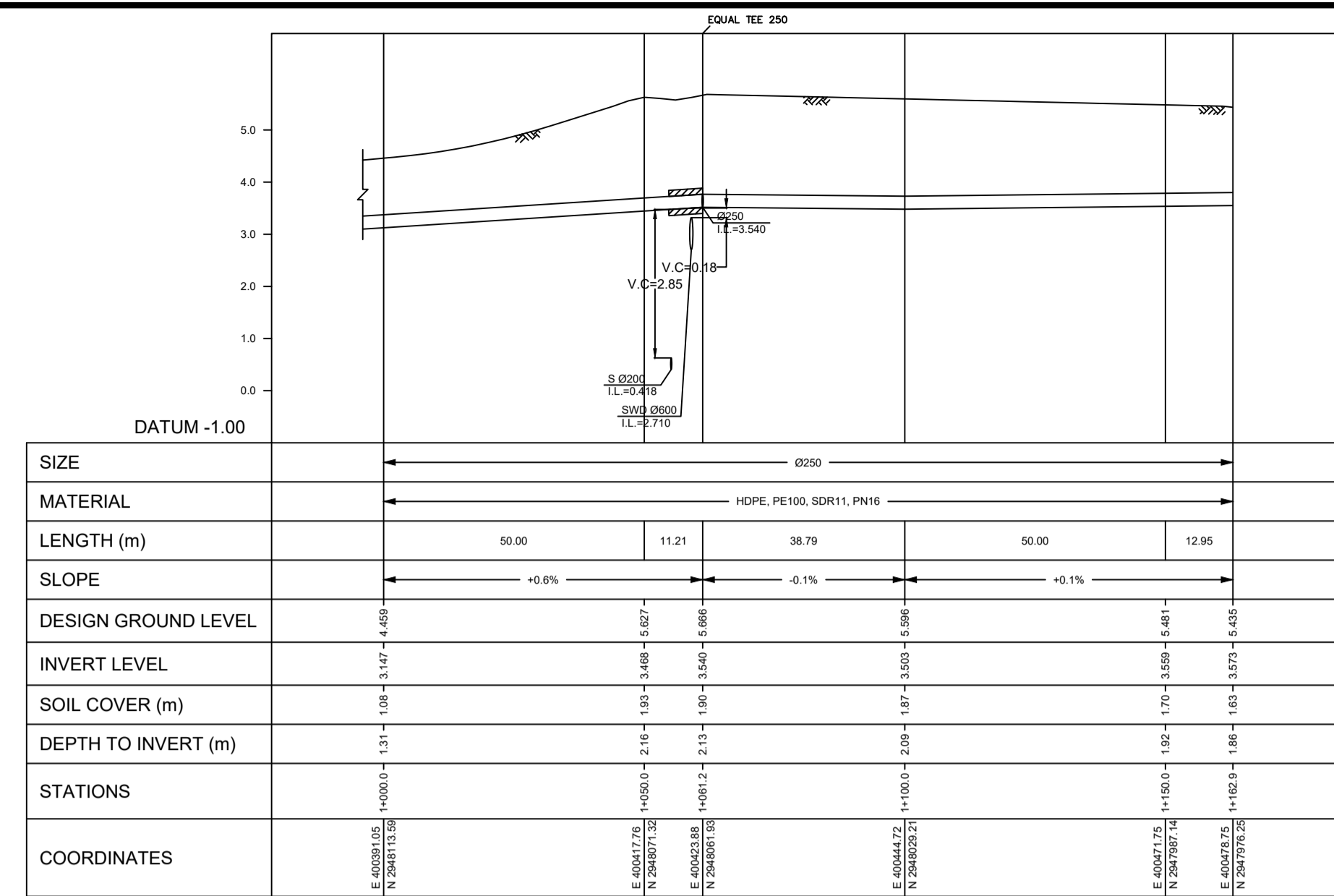
LINE (25) (PART 2/3)

- LEGEND:-**
- FINISH GROUND LEVEL
  - INVERT LEVEL
  - Ø315 PIPE DIAMETER
  - HDPE HIGH DENSITY POLYETHYLENE
  - SWD STORM DRAINAGE PIPE CROSSING
  - S SEWER PIPE CROSSING
  - V.C VERTICAL CLEARANCE
  - CONCRETE ENCASMENT
  - AIR VALVE CHAMBER
  - WASH OUT VALVE CHAMBER
  - SHUTOFF VALVE CHAMBER
  - REDUCER

- NOTES:-**
- 1- USE TYPE "A" BEDDING EXCEPT FOR THE FOLLOWING CASES USE BEDDING TYPE "B".
    - a- DEPTH OF COVER IS LESS THAN 1.00m.
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00	ISSUE FOR APPROVAL / SHOPDRAWING	10/2023
من قبل	مراجعة من اجل المراجعة	اليوم
BY	ISSUED FOR / REVISION	DATE
PROJECT TITLE		
<b>GRANT LANDS PROJECT</b>		
CLIENT		
CONSULTANT		
ENGINEERING CONTRACTOR		
DESIGN ITEM		
<b>INFRASTRUCTURE</b>		
DRAWING TITLE		
<b>QATIF SITE 2</b>		
<b>POTABLE WATER AND FIRE FIGHTING NETWORK</b>		
<b>LONGITUDINAL PROFILES ( 11 OF 15 )</b>		
DRAWING NO.	رقم المخطط	ISSUE NO / REV. NO.
1418DF-QTF(2)-220-I-PS-102PR11		0.0
PROJECT NO.	رقم المشروع	START DATE
1418DF		OCT 2023
DRAWN BY	رسم من قبل	CHECKED BY
SCALE	مقياس الرسم	PHASE
1:200		SD
APPROVED	مراجعة	CERTIFIED BY
SIGN.	التوقيع	SIGN.

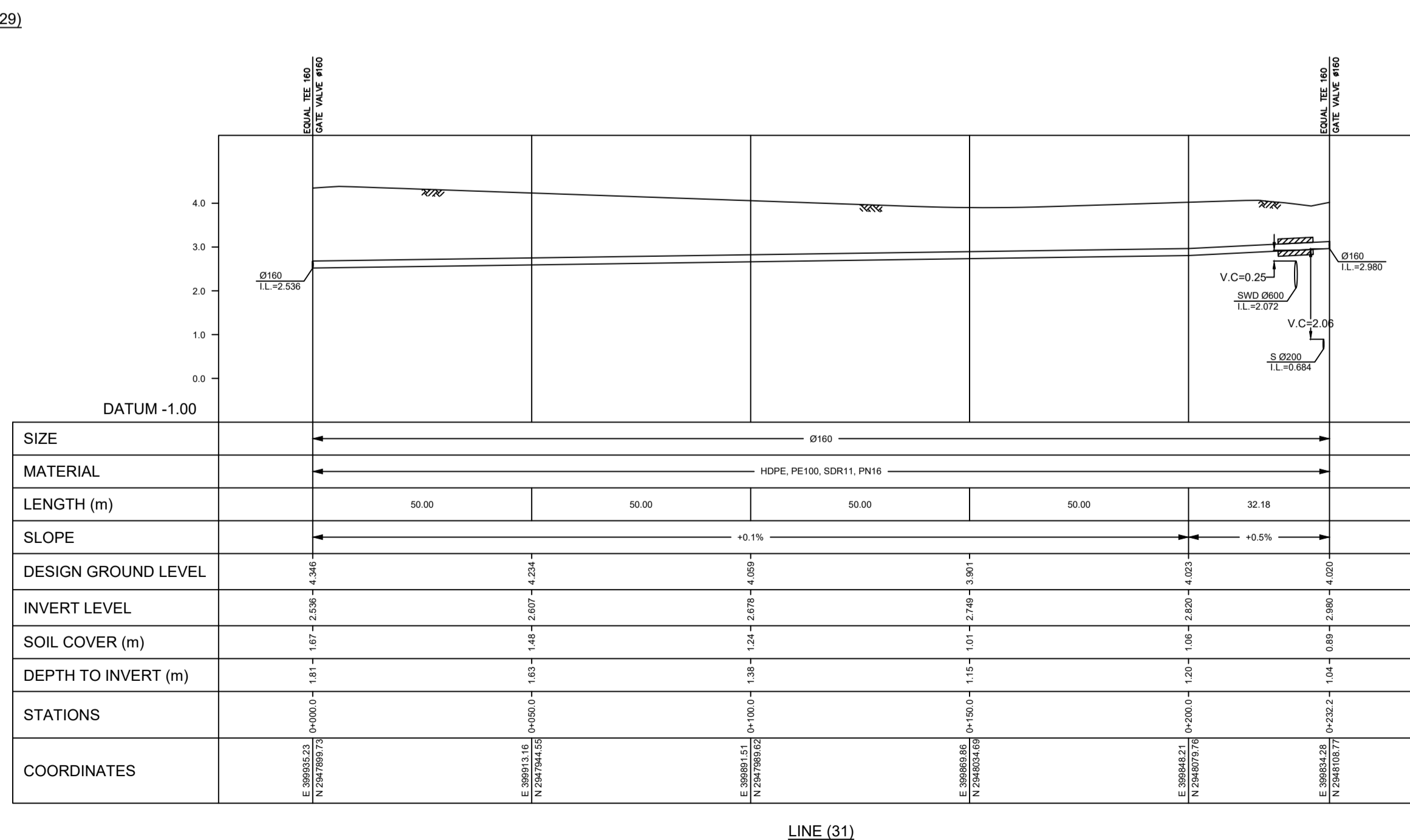
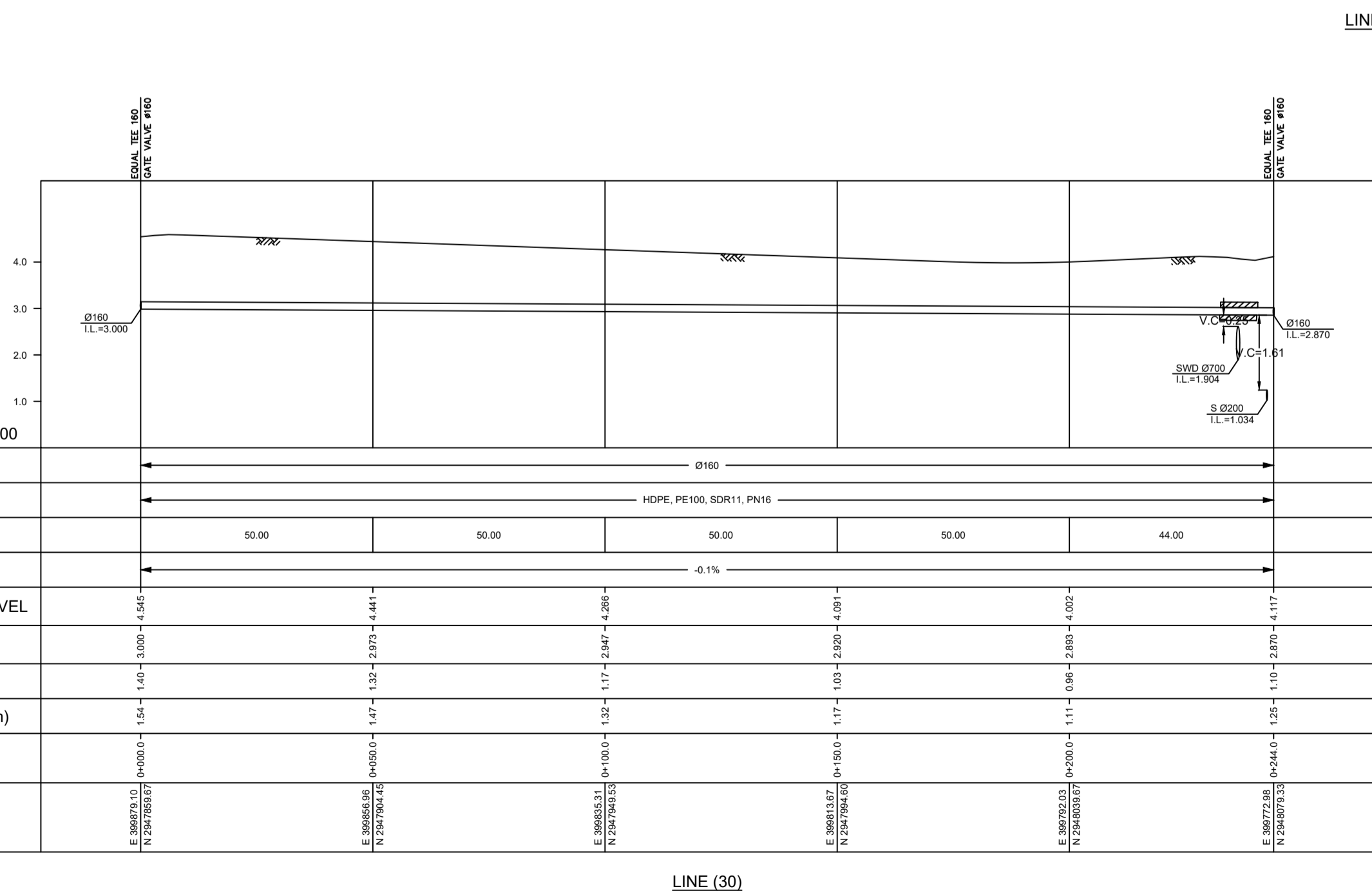
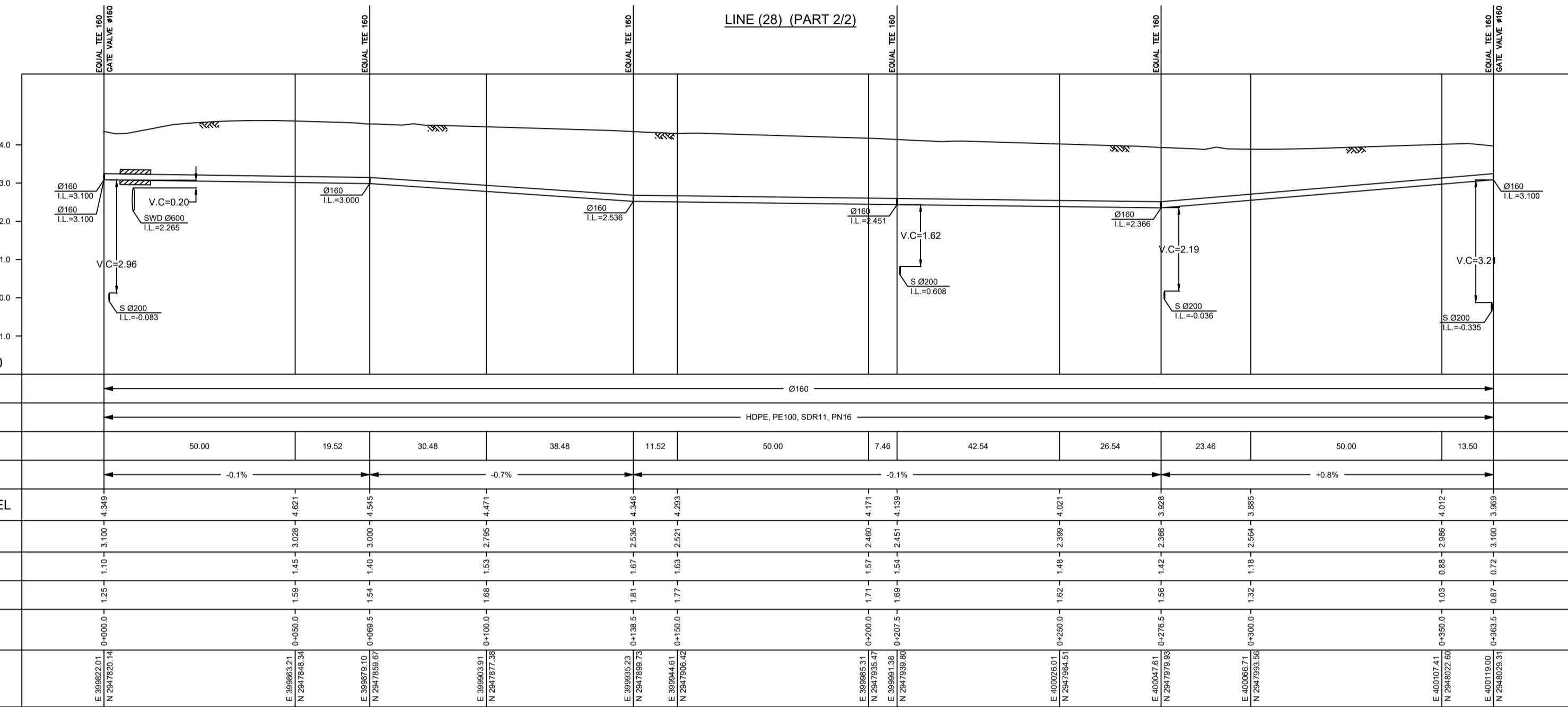
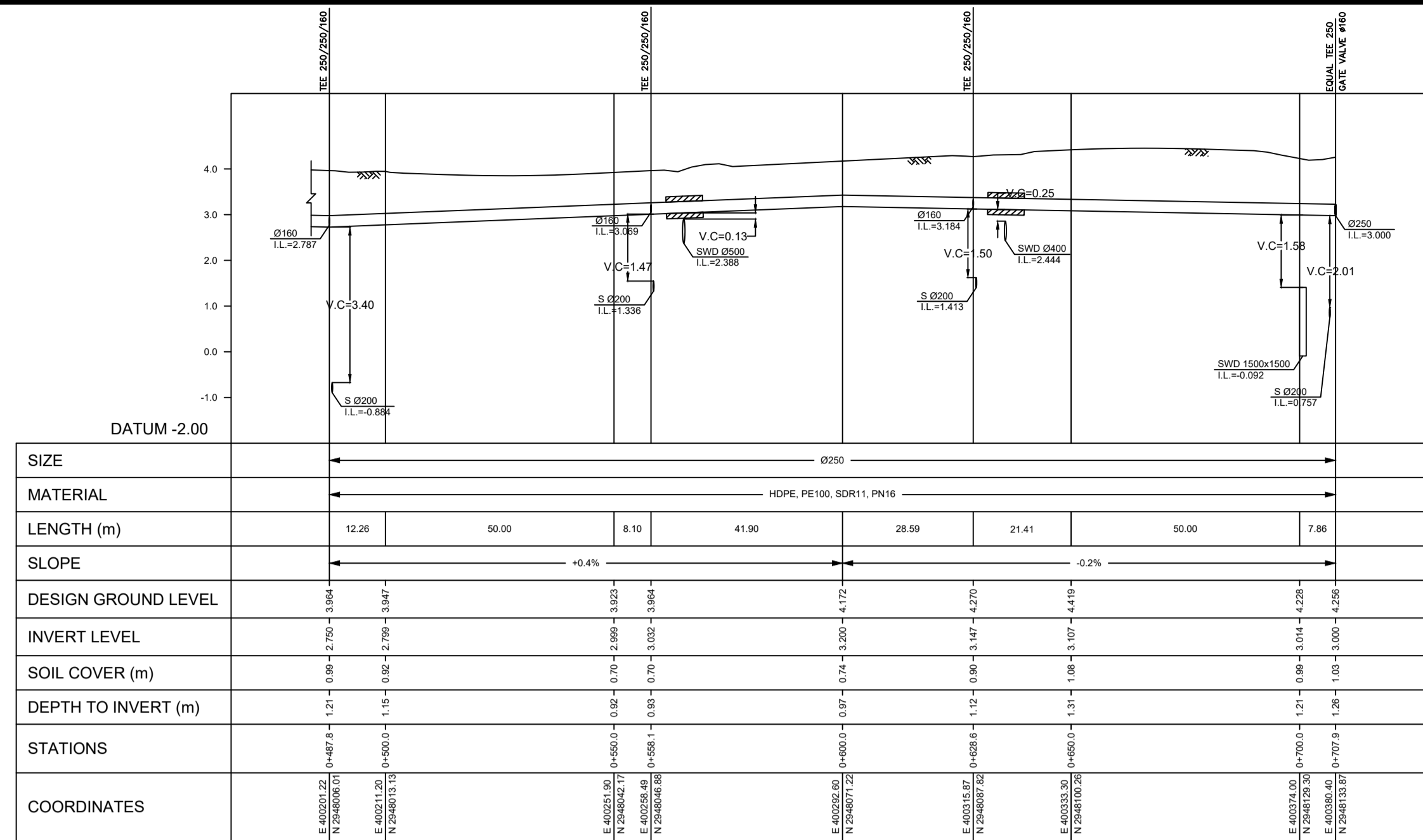




- LEGEND:-**
- FINISH GROUND LEVEL
  - INVERT LEVEL
  - Ø315 PIPE DIAMETER
  - HDPE HIGH DENSITY POLYETHYLENE
  - SWD STORM DRAINAGE PIPE CROSSING
  - S SEWER PIPE CROSSING
  - V.C. VERTICAL CLEARANCE
  - CONCRETE ENCASMENT
  - AIR VALVE CHAMBER
  - WASH OUT VALVE CHAMBER
  - SHUTOFF VALVE CHAMBER
  - REDUCER

- NOTES:-**
- 1- USE TYPE "A" BEDDING EXCEPT FOR THE FOLLOWING CASES USE BEDDING TYPE "B".
    - a- DEPTH OF COVER IS LESS THAN 1.00m.
    - b- UNDER STREET LIGHTING POLES.
    - c- AT SEWER LINE / WATER LINE CROSSING. WHERE THE VERTICAL DISTANCE IS LESS THAN 0.5m, THE SEWER PIPE SHALL BE ENCASED FOR A DISTANCE OF AT LEAST 4.0m FROM EACH SIDE OF WATER PIPE.

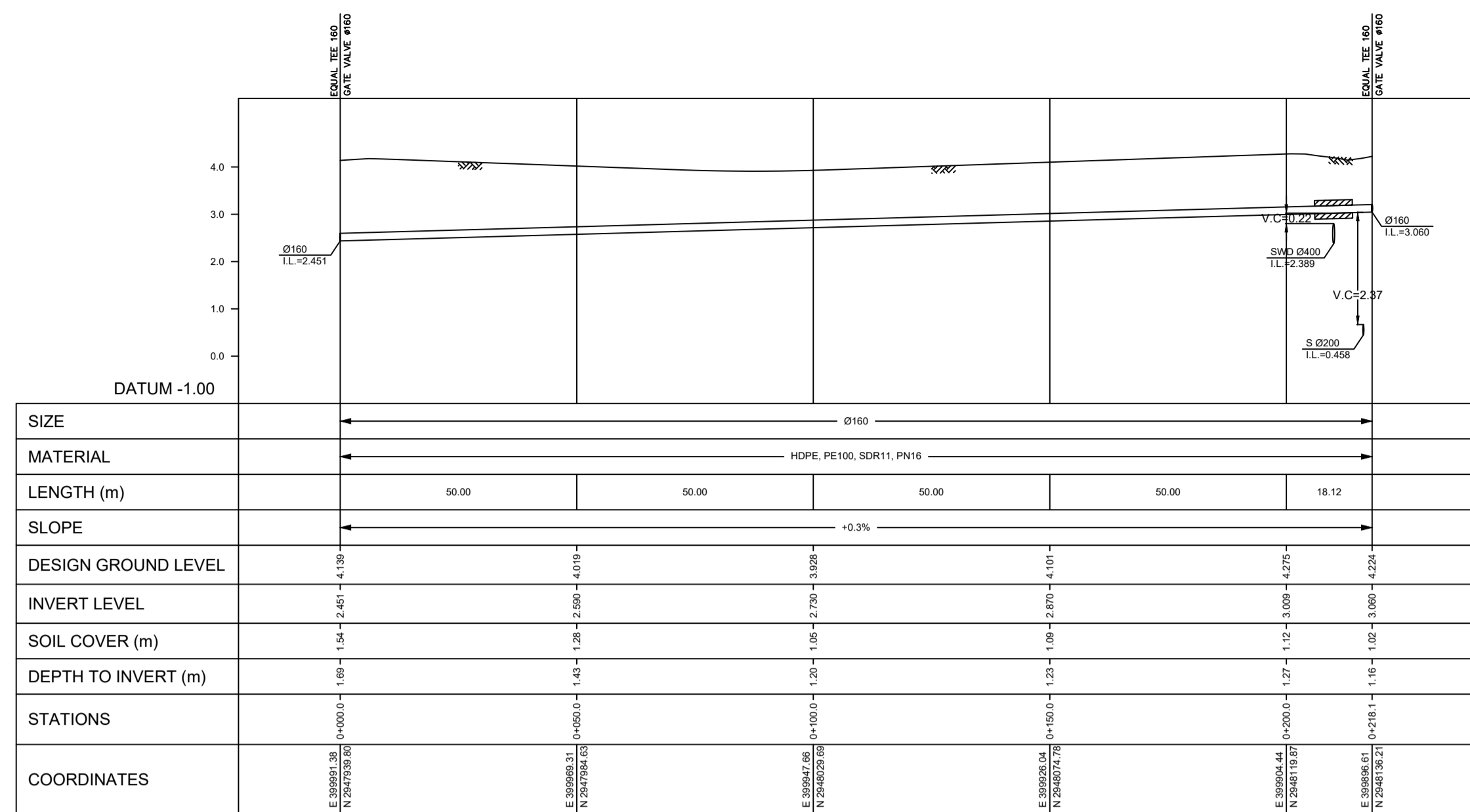
00	ISSUE FOR APPROVAL / SHOPDRAWING	10/2023	من قبل
	صدرت من اجل المراجعة	DATE	BY
	ISSUED FOR / REVISION	DATE	BY
PROJECT TITLE			
<b>GRANT LANDS PROJECT</b>			
CLIENT			مالك المشروع
			المشروع
CONSULTANT			مستشار المشروع
			المشروع
PO Box 261170 RIYADH, SAUDI ARABIA 11391			Tel: +966112060309 Fax: +966112060909
ENGINEERING CONTRACTOR:			مكشور المشروع
			المشروع
DESIGN ITEM			البنية التحتية
<b>INFRASTRUCTURE</b>			
DRAWING TITLE			موقع المشروع
<b>QATIF SITE 2</b>			
<b>POTABLE WATER AND FIRE FIGHTING NETWORK</b>			
<b>LONGITUDINAL PROFILES ( 12 OF 15 )</b>			
DRAWING NO.			مراجعة رقم / مكالمة رقم / رقم المشروع
<b>1418DF-QTF-(2)-(220)-IP-S-102PR12</b>			ISSUE NO / REV NO. 0.0
PROJECT NO.	START DATE	تاريخ البدء	مراجعة رقم / مكالمة رقم / رقم المشروع
1418DF	OCT-2023	14/10/2023	0.0
DRAWN BY	CHECKED BY	مراجعة	مراجعة
		مراجعة	مراجعة
		مراجعة	مراجعة
		مراجعة	مراجعة
		مراجعة	مراجعة



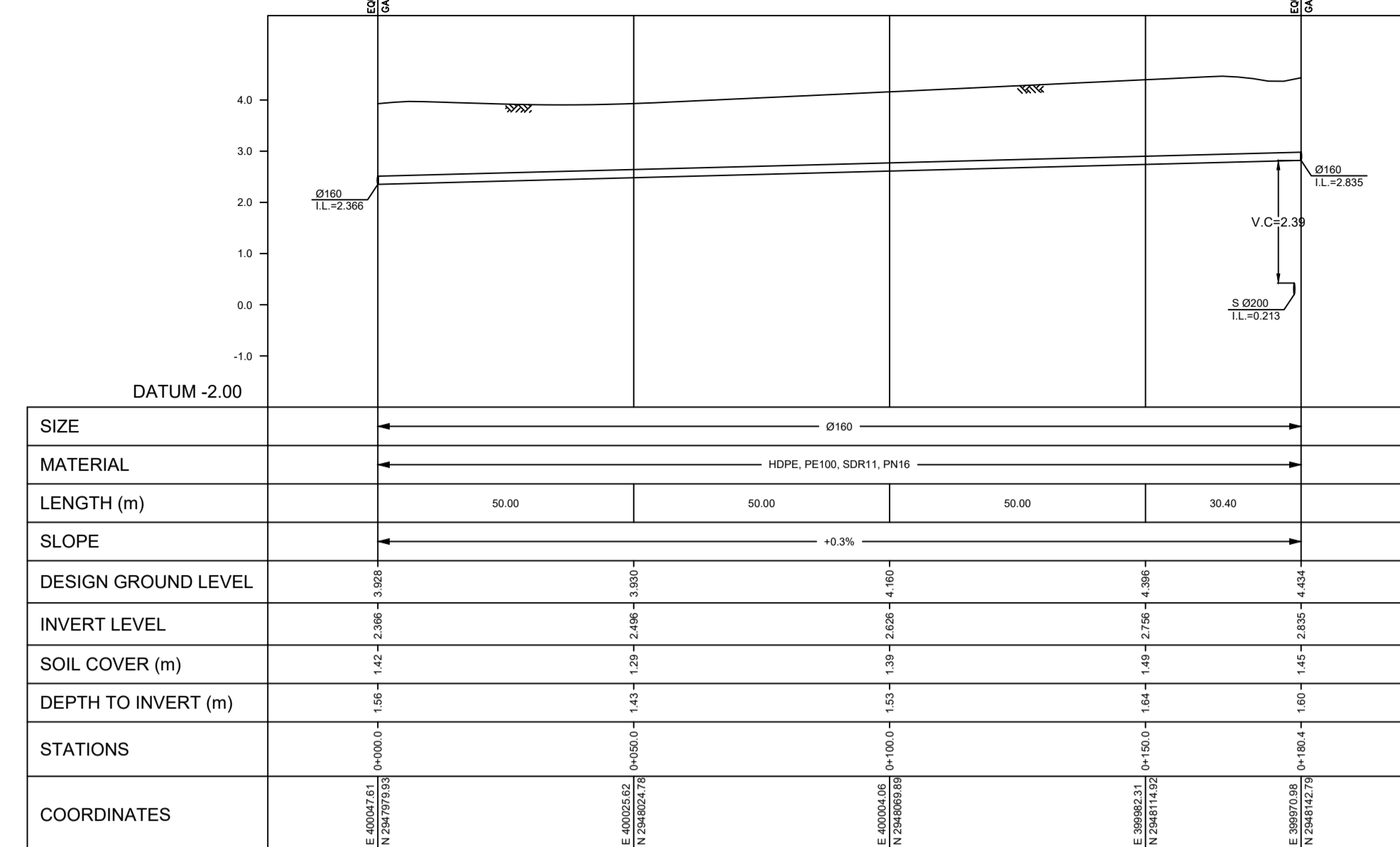
- LEGEND:-**
- FINISH GROUND LEVEL
  - INVERT LEVEL
  - Ø315 PIPE DIAMETER
  - HDPE HIGH DENSITY POLYETHYLENE
  - SWD STORM DRAINAGE PIPE CROSSING
  - S SEWER PIPE CROSSING
  - V.C VERTICAL CLEARANCE
  - CONCRETE ENCASMENT
  - AIR VALVE CHAMBER
  - WASH OUT VALVE CHAMBER
  - SHUTOFF VALVE CHAMBER
  - REDUCER

- NOTES:-**
- 1- USE TYPE "A" BEDDING EXCEPT FOR THE FOLLOWING CASES USE BEDDING TYPE "B".
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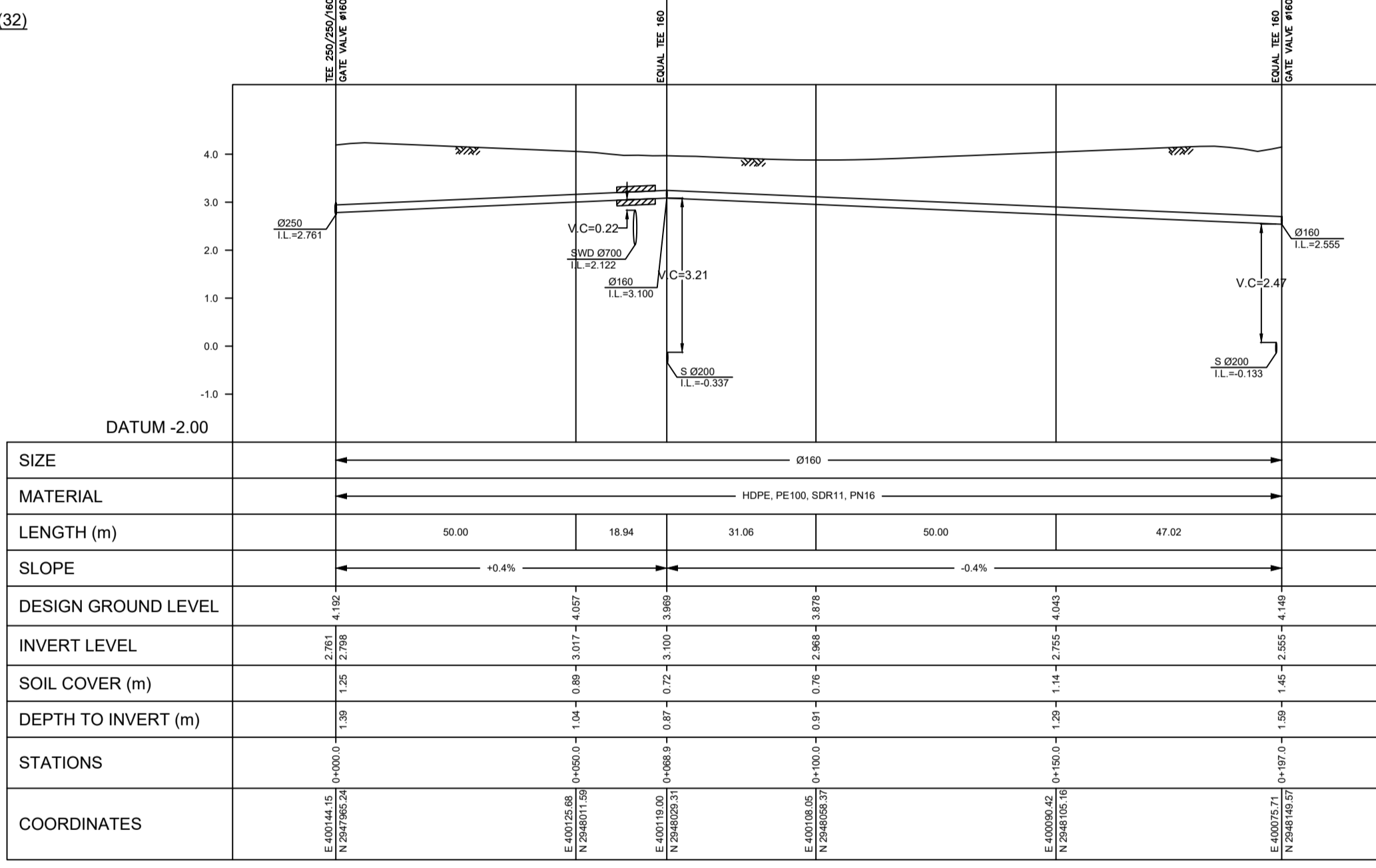
00	ISSUE FOR APPROVAL / SHOPDRAWING	10/2023	من قبل
	صدرت من اجل المراجعة	اليوم	BY
	ISSUED FOR / REVISION	DATE	
PROJECT TITLE			
<b>GRANT LANDS PROJECT</b>			
CLIENT	ماتك الشرف		
CONSULTANT	 دار الرياض DAR AL RIYADH DESIGN & CONSTRUCTION MANAGEMENT SERVICES		
PO Box 261170 RIYADH, SAUDI ARABIA. 11391	Tel: +966112060099 Fax: +966112060099		
ENGINEERING CONTRACTOR:	 الرواف للمقاولات		
DESIGN ITEM	البنية التحتية		
<b>INFRASTRUCTURE</b>			
DRAWING TITLE	ماتك الشرف		
<b>QATIF SITE 2</b>			
<b>POTABLE WATER AND FIRE FIGHTING NETWORK</b>			
<b>LONGITUDINAL PROFILES ( 13 OF 15 )</b>			
DRAWING NO.	مراجعة رقم / ساتر رقم / رقم المخطط		
1418DF-QTF(2)-220-I-PS-102PR13	0.0		
PROJECT NO.	START DATE	تاريخ البدء	SCALE
1418DF	OCT-2023	1:2	1:1000 (1:100) AT
DRAWN BY	CHECKED BY	مراجعة	CERTIFIED BY
رسم من قبل	مراجعة	مراجعة	مراجعة
DESIGNED BY	CHECKED BY	مراجعة	CERTIFIED BY
مخطط	مراجعة	مراجعة	مراجعة
SIGN:	التوقيع	SIGN:	التوقيع
SIGN:	التوقيع	SIGN:	التوقيع
SIGN:	التوقيع	SIGN:	التوقيع
SIGN:	التوقيع	SIGN:	التوقيع



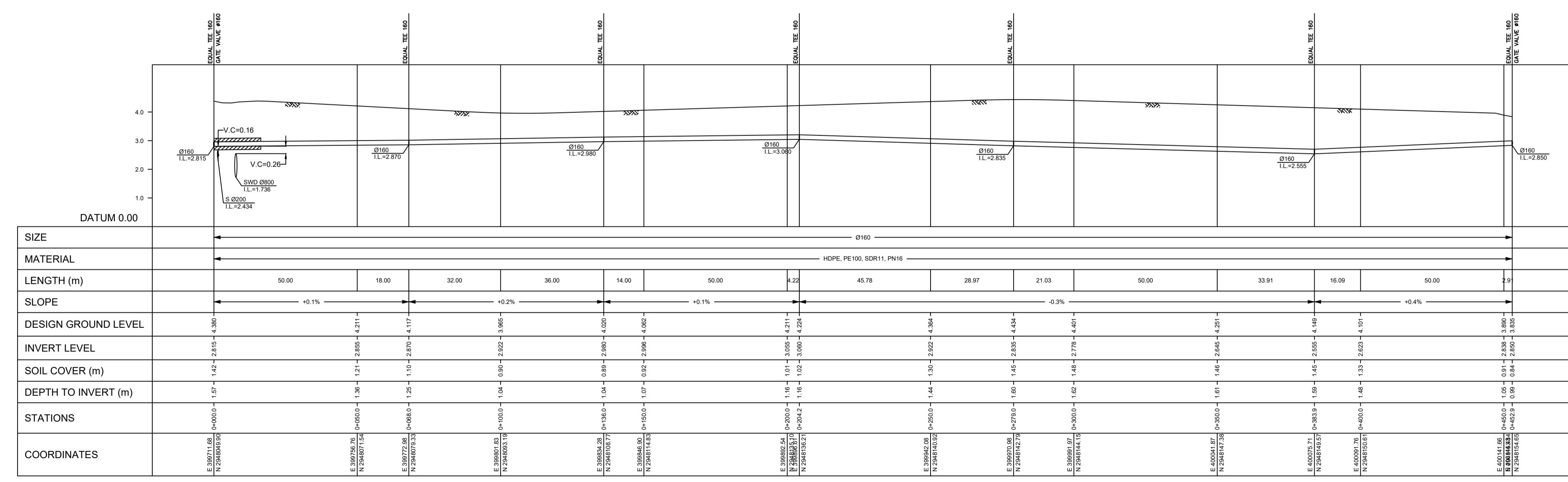
LINE (32)



LINE (33)



LINE (34)



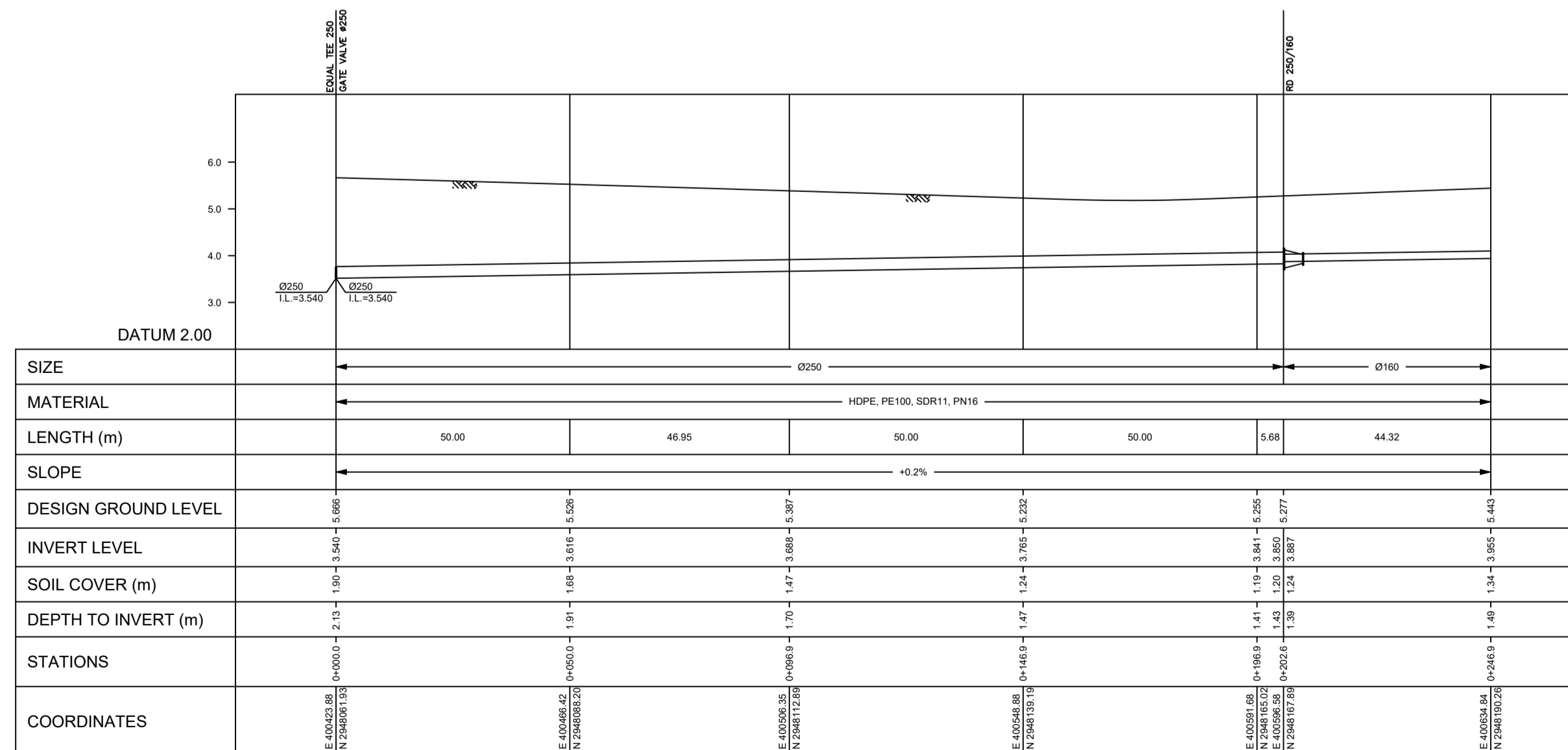
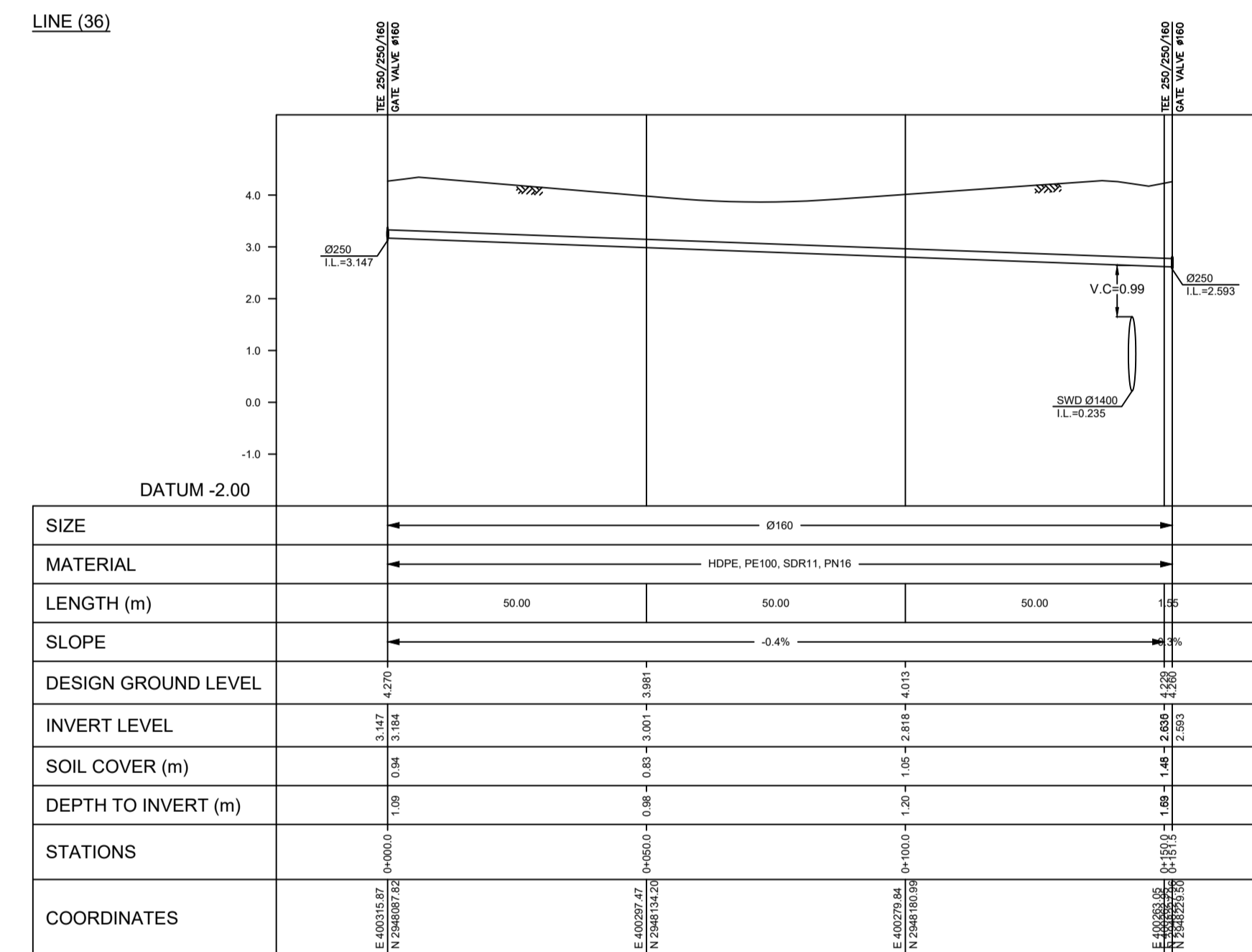
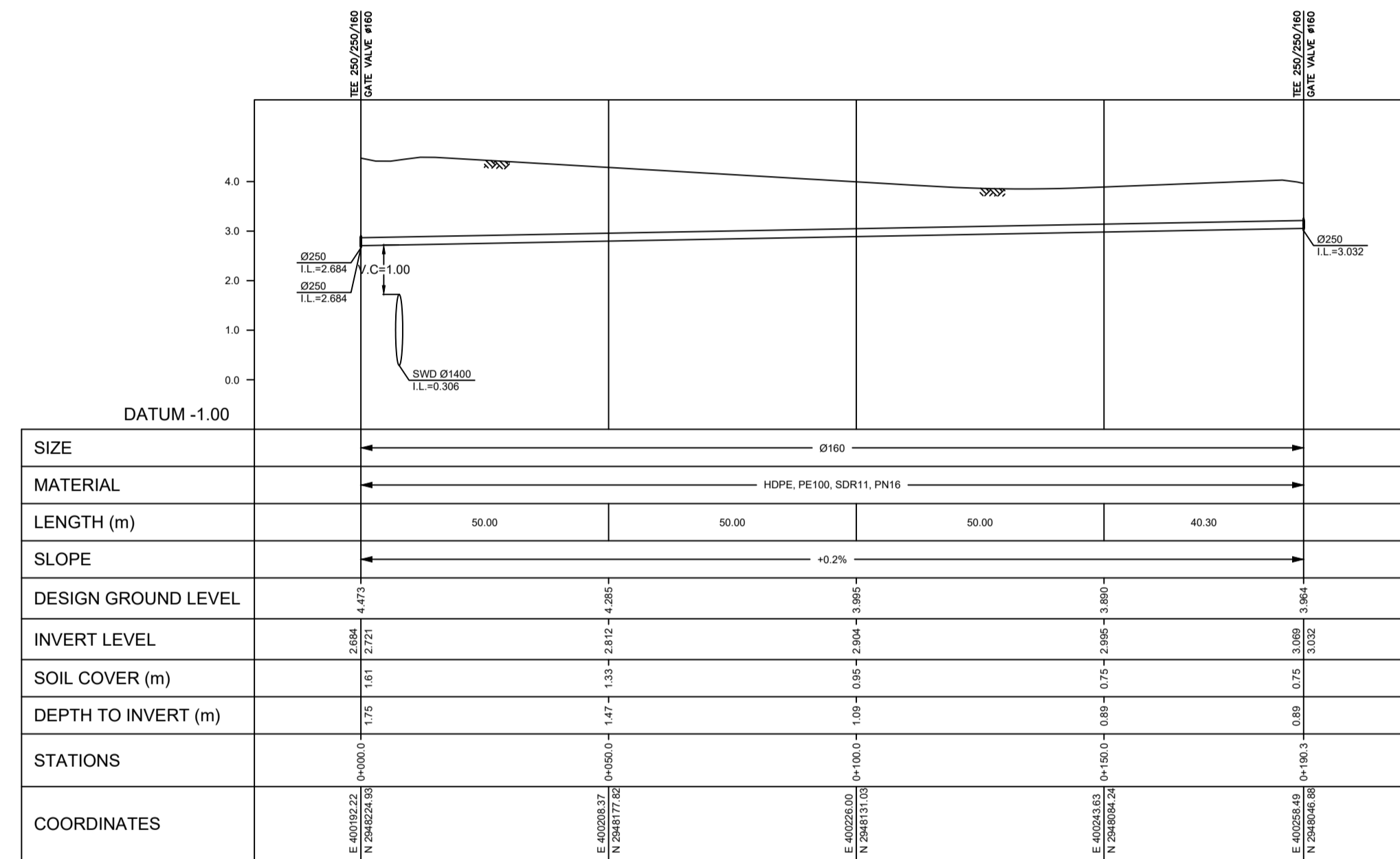
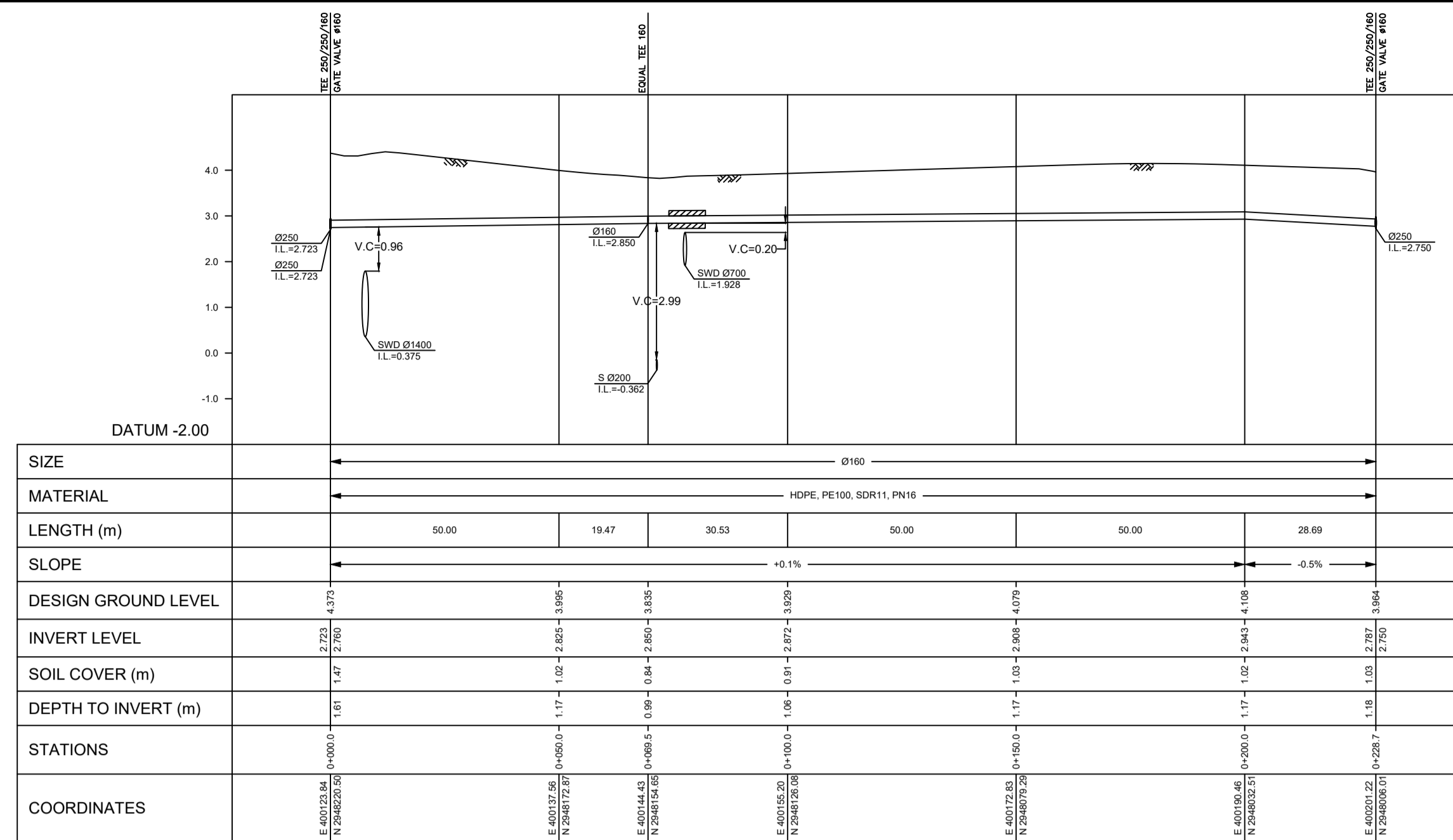
LINE (35)

- LEGEND:-**
- FINISH GROUND LEVEL
  - IL INVERT LEVEL
  - Ø315 PIPE DIAMETER
  - HDPE HIGH DENSITY POLYETHYLENE
  - SWD STORM DRAINAGE PIPE CROSSING
  - S SEWER PIPE CROSSING
  - V.C. VERTICAL CLEARANCE
  - CONCRETE ENCASMENT
  - AIR VALVE CHAMBER
  - WASH OUT VALVE CHAMBER
  - SHUTOFF VALVE CHAMBER
  - REDUCER

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00	ISSUE FOR APPROVAL / SHOPDRAWING	10/2023
من قبل	صدرت من اجل المراجعة	اليوم
BY	ISSUED FOR / REVISION	DATE
معاون المشرف	PROJECT TITLE	
	<b>GRANT LANDS PROJECT</b>	
مالك المشروع		
المشرف		
PO Box 26170 RIYADH, SAUDI ARABIA. 11391		Tel: +966112060099 Fax: +966112060099
معاون المشرف		
المالك		
	<b>INFRASTRUCTURE</b>	
معاون المشرف		
	<b>QATIF SITE 2</b>	
	<b>POTABLE WATER AND FIRE FIGHTING NETWORK</b>	
	<b>LONGITUDINAL PROFILES ( 14 OF 15 )</b>	
مراجعة رقم / مدير رقم / رقم المخطط		
1418DF-QTF(2)-220-I-PS-102PR14		
PROJECT NO.	START DATE	SCALE
1418DF	OCT 2023	H2=1/1000, L1=1/1000, AT
DRAWN BY	CHECKED BY	APPROVED
رسم من قبل	المراجعة	مصدق
SIGN	SIGN	SIGN





LINE (39)

- LEGEND:-**
- FINISH GROUND LEVEL
  - IL INVERT LEVEL
  - Ø315 PIPE DIAMETER
  - HDPE HIGH DENSITY POLYETHYLENE
  - SWD STORM DRAINAGE PIPE CROSSING
  - S SEWER PIPE CROSSING
  - V.C VERTICAL CLEARANCE
  - CONCRETE ENCASMENT

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- REDUCER

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من قبل	مصدره من اجل المراجعة	اليوم
BY	ISSUED FOR / REVISION	DATE
معاون المشرف	PROJECT TITLE	
<b>GRANT LANDS PROJECT</b>		
CLIENT		
المشرف		
CONULTANT		
PO Box 261710 RIYADH, SAUDI ARABIA. 11391	Tel: +966112560309 Fax: +966112560309	
ENGINEERING CONTRACTOR:		
DESIGN ITEM	<b>الرواف للمناطق</b>	
DRAWING TITLE	<b>INFRASTRUCTURE</b>	
DRAWING NO.	<b>QATIF SITE 2</b>	
PROJECT NO.	<b>POTABLE WATER AND FIRE FIGHTING NETWORK</b>	
1418DF	<b>LONGITUDINAL PROFILES ( 15 OF 15 )</b>	
DRAWN BY	START DATE	SCALE
1418DF	OCT-2023	H2=1/1000, 1/100
رسم من قبل	تاريخ البدء	مقياس الرسم
CHECKED BY	المراجعة	PHASE
AT	CERTIFIED BY	SD
الموافق	APPROVED	المرحلة
SIGN:	التوقيع	SIGN:
التوقيع	SIGN:	التوقيع
SIGN:	التوقيع	SIGN: