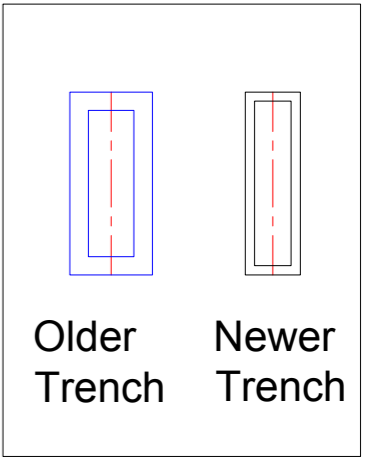


- NOTES**
- UNLESS OTHERWISE NOTED ALL DIMENSION AND COORDINATES ARE IN MILLIMETERS. ALL ELEVATIONS ARE IN METERS.
  - GL.±0 EL.+8,000 M.S.L.+8,000
  - CONCRETE STRENGTH  
 $f_c$ =CYLINDER COMPRESSIVE STRENGTH AT 28 DAYS  
 1) LEAN CONCRETE:  $f_c=14MPa$   
 2) REINFORCED CONCRETE:  $f_c=24MPa$
  - REINFORCING BAR STRENGTH  
 1) MESH REINFORCEMENT  
 $f_y=500MPa$  (TCVN 1651-2:2008 GRADE CB500-V OR JIS 3112 GRADE SD490)  
 2) DEFORMED BARS  
 $f_y=400MPa$  (TCVN 1651-2:2008 GRADE CB400-V OR JIS 3112 GRADE SD390)
  - CEMENT  
 TYPE I CEMENT MIXED WITH FLY ASH OR EQUIVALENT CEMENT
  - BITUMINOUS PAINTING SHALL BE APPLIED TO THE CONCRETE SURFACE IN CONTACT WITH SOILS.



No.	Name	Qty	Note
4	Back Fill	68 square meter	
3	Heavy-duty Grating	6 pcs	500x500x50 (WxLxH)
2	Newer Trench	~63 meter	
1	Older Trench		

TT-01 Layout

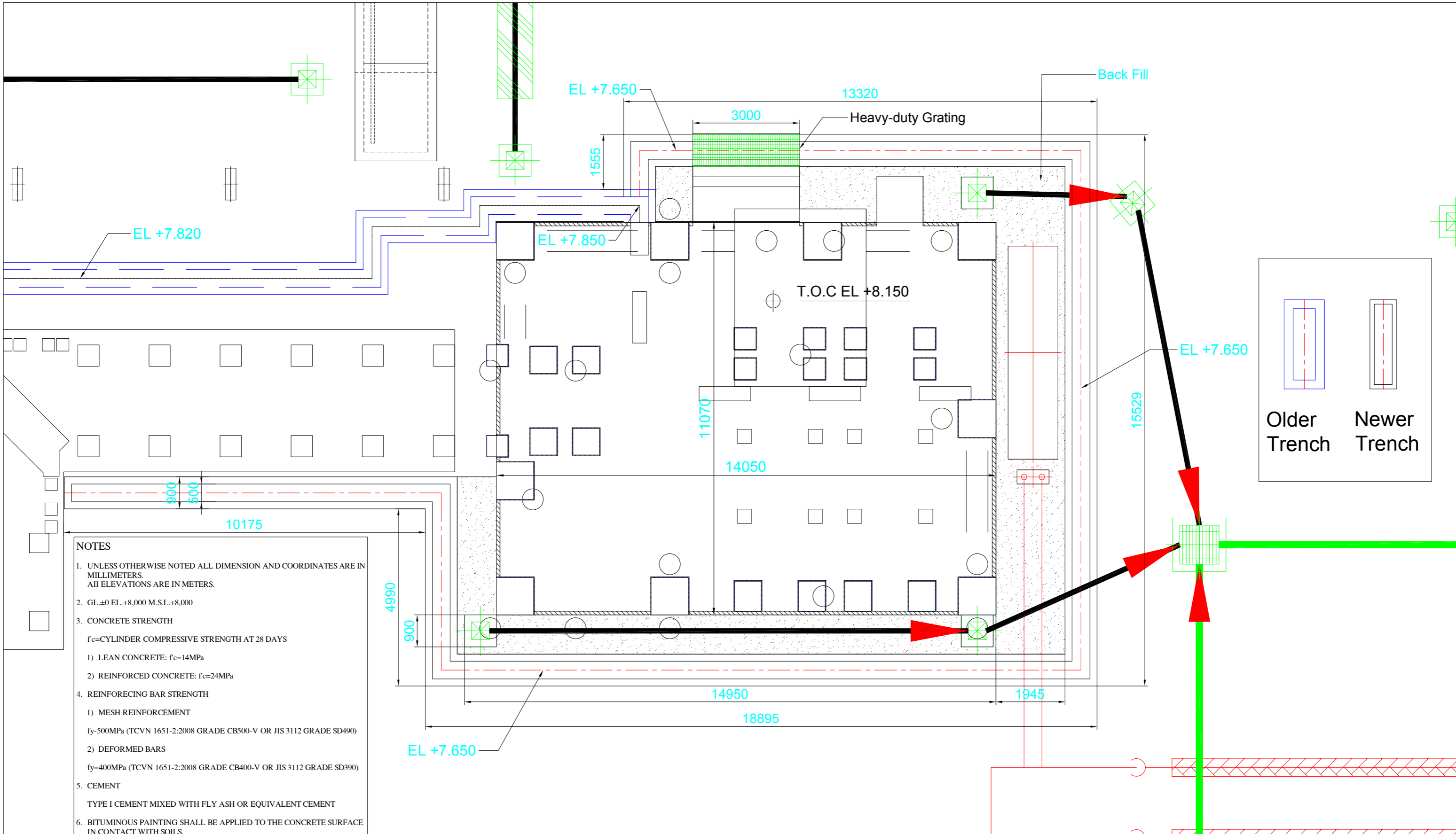
DO NOT SCALE		Name	Date	Signature
	Designed by	PHAN DUC DUONG	25/11/2025	
	Checked by	TRAN VAN TUAN		
SCALE:	Approved by	KIM TAE YOUNG		
	Authorized by			
MATERIAL:	QUANTITY:	WEIGHT:		

**KOE POWER SERVICES COMPANY LIMITED**

**Trench Drain System**

DRAWING CODE:

TOTAL SHEET: SHEET NO: SHEET SIZE:

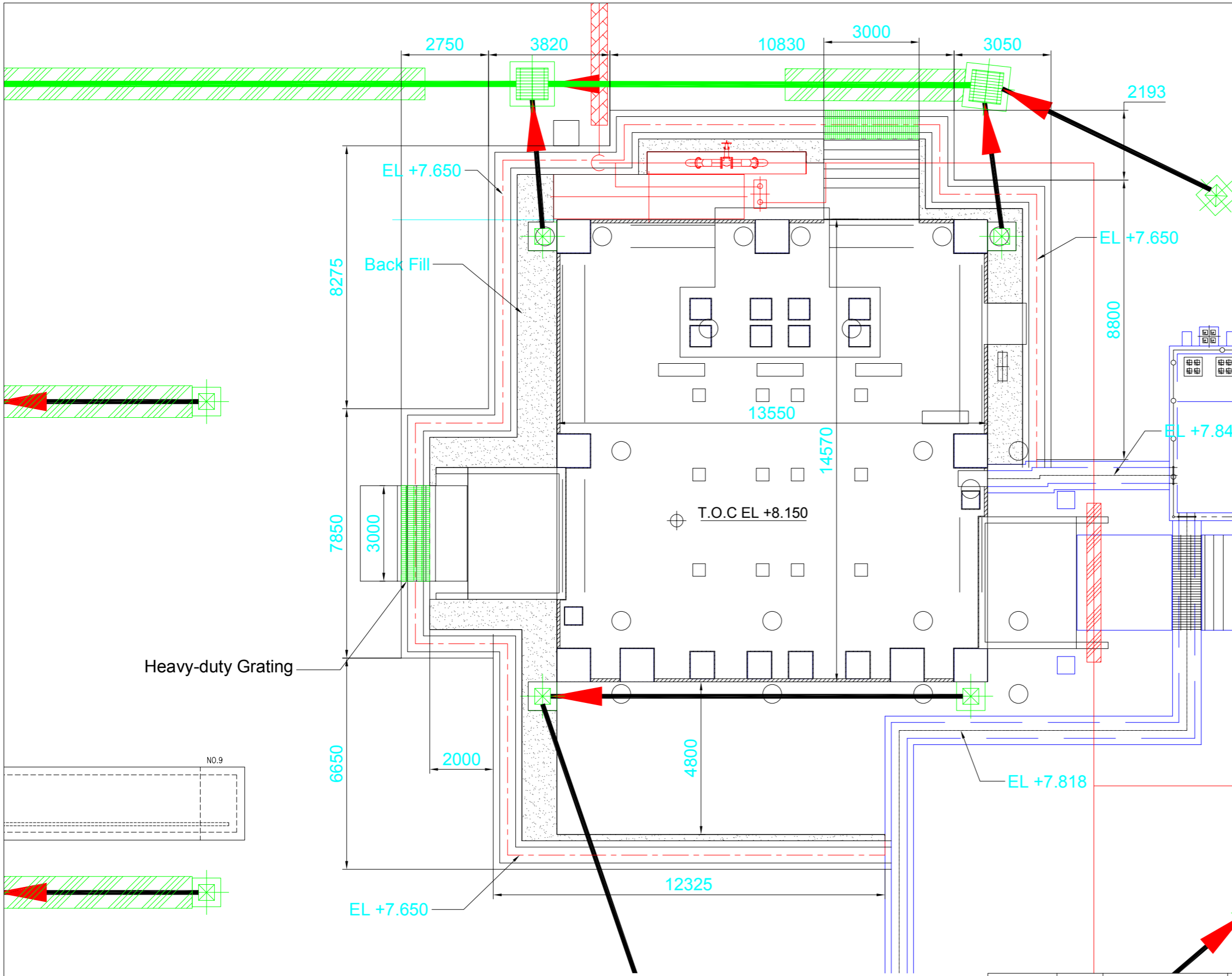


- NOTES**
- UNLESS OTHERWISE NOTED ALL DIMENSION AND COORDINATES ARE IN MILLIMETERS. ALL ELEVATIONS ARE IN METERS.
  - GL.±0 EL.+8,000 M.S.L.+8,000
  - CONCRETE STRENGTH  
 $f_c$ =CYLINDER COMPRESSIVE STRENGTH AT 28 DAYS  
 1) LEAN CONCRETE:  $f_c=14\text{MPa}$   
 2) REINFORCED CONCRETE:  $f_c=24\text{MPa}$
  - REINFORCING BAR STRENGTH  
 1) MESH REINFORCEMENT  
 $f_y=500\text{MPa}$  (TCVN 1651-2:2008 GRADE CB500-V OR JIS 3112 GRADE SD490)  
 2) DEFORMED BARS  
 $f_y=400\text{MPa}$  (TCVN 1651-2:2008 GRADE CB400-V OR JIS 3112 GRADE SD390)
  - CEMENT  
 TYPE I CEMENT MIXED WITH FLY ASH OR EQUIVALENT CEMENT
  - BITUMINOUS PAINTING SHALL BE APPLIED TO THE CONCRETE SURFACE IN CONTACT WITH SOILS.

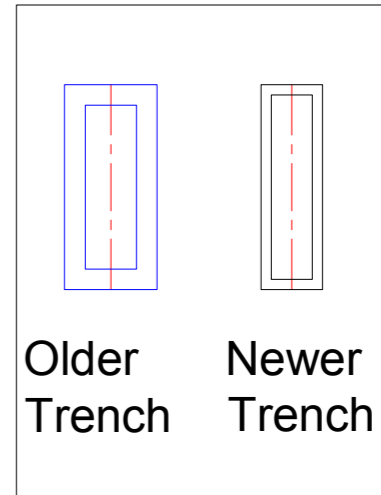
4	Back Fill	54 square meter	
3	Heavy-duty Grating	6 pcs	500x500x50 (WxLxH)
2	Newer Trench	~65 meter	
1	Older Trench		
No.	Name	Qty	Note

TT-02 Layout

DO NOT SCALE		Name	Date	Signature	KOE POWER SERVICES COMPANY LIMITED
	Designed by	PHAN DUC DUONG	25/11/2025		
	Checked by	TRAN VAN TUAN			
SCALE:	Approved by	KIM TAE YOUNG			Trench Drain System
Scale	Authorized by				
MATERIAL:	QUANTITY:	WEIGHT:	DRAWING CODE:		
			TOTAL SHEET:	SHEET NO:	SHEET SIZE:



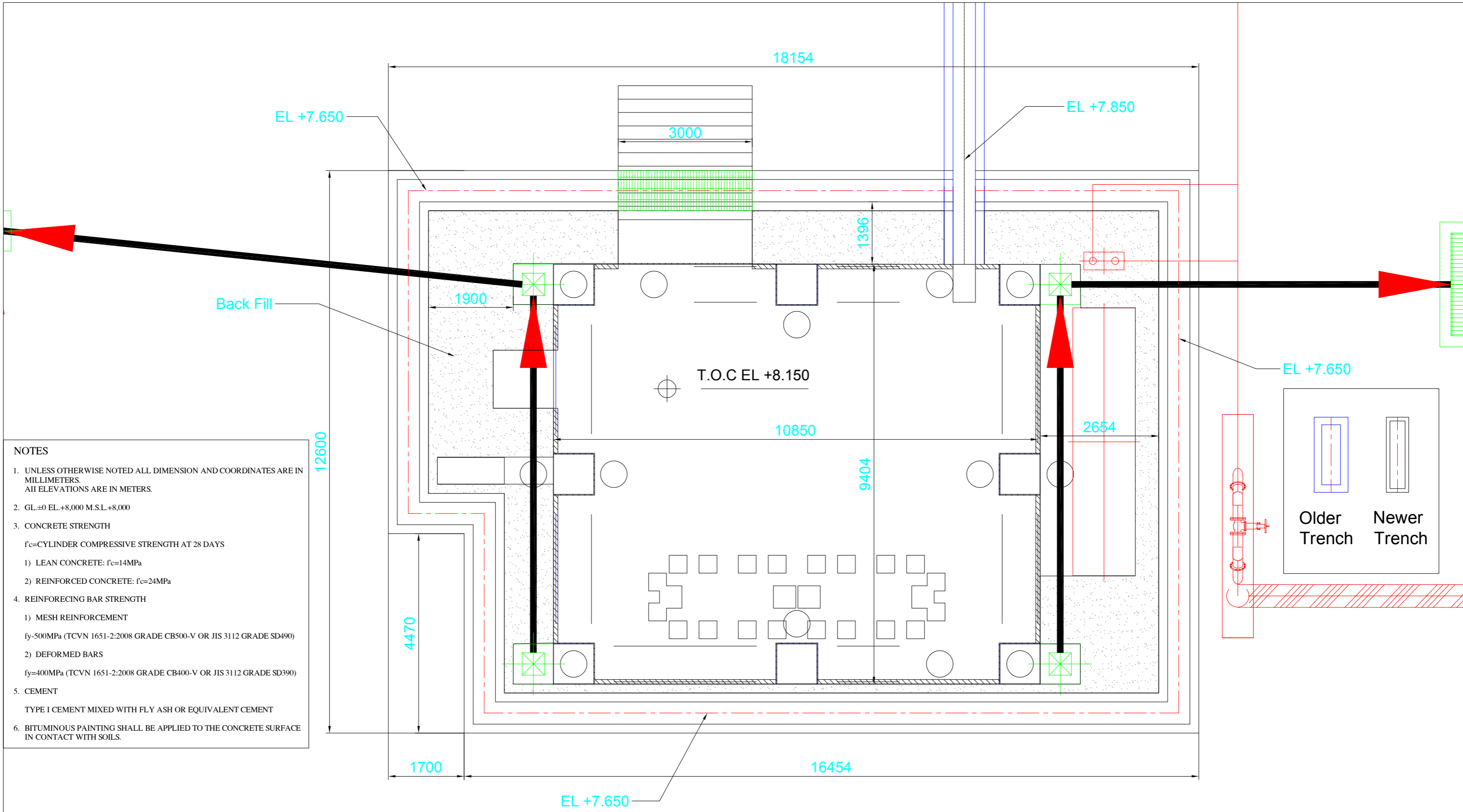
- NOTES**
- UNLESS OTHERWISE NOTED ALL DIMENSION AND COORDINATES ARE IN MILLIMETERS  
ALL ELEVATIONS ARE IN METERS.
  - GL<sub>±0</sub> EL.+8,000 M.S.L.+8,000
  - CONCRETE STRENGTH  
f<sub>c</sub>=CYLINDER COMPRESSIVE STRENGTH AT 28 DAYS  
1) LEAN CONCRETE: f<sub>c</sub>=14MPa  
2) REINFORCED CONCRETE: f<sub>c</sub>=24MPa
  - REINFORCING BAR STRENGTH  
1) MESH REINFORCEMENT  
f<sub>y</sub>=500MPa (TCVN 1651-2:2008 GRADE CB500-V OR JIS 3112 GRADE SD490)  
2) DEFORMED BARS  
f<sub>y</sub>=400MPa (TCVN 1651-2:2008 GRADE CB400-V OR JIS 3112 GRADE SD390)
  - CEMENT  
TYPE I CEMENT MIXED WITH FLY ASH OR EQUIVALENT CEMENT
  - BITUMINOUS PAINTING SHALL BE APPLIED TO THE CONCRETE SURFACE IN CONTACT WITH SOILS.



4	Back Fill	~33 square meter	
3	Heavy-duty Grating	12 pcs	500x500x50 (WxLxH)
2	Newer Trench	~68 meter	
1	Older Trench		
No.	Name	Qty	Note

TT-03 Layout

DO NOT SCALE		Name	Date	Signature	KOE POWER SERVICES COMPANY LIMITED
	Designed by	PHAN DUC DUONG	25/11/2025		
	Checked by	TRAN VAN TUAN			
	Approved by	KIM TAE YOUNG			
Scale	Authorized by				Trench Drain System
MATERIAL:	QUANTITY:	WEIGHT:	DRAWING CODE:		
				TOTAL SHEET:	
				SHEET NO:	
				SHEET SIZE:	

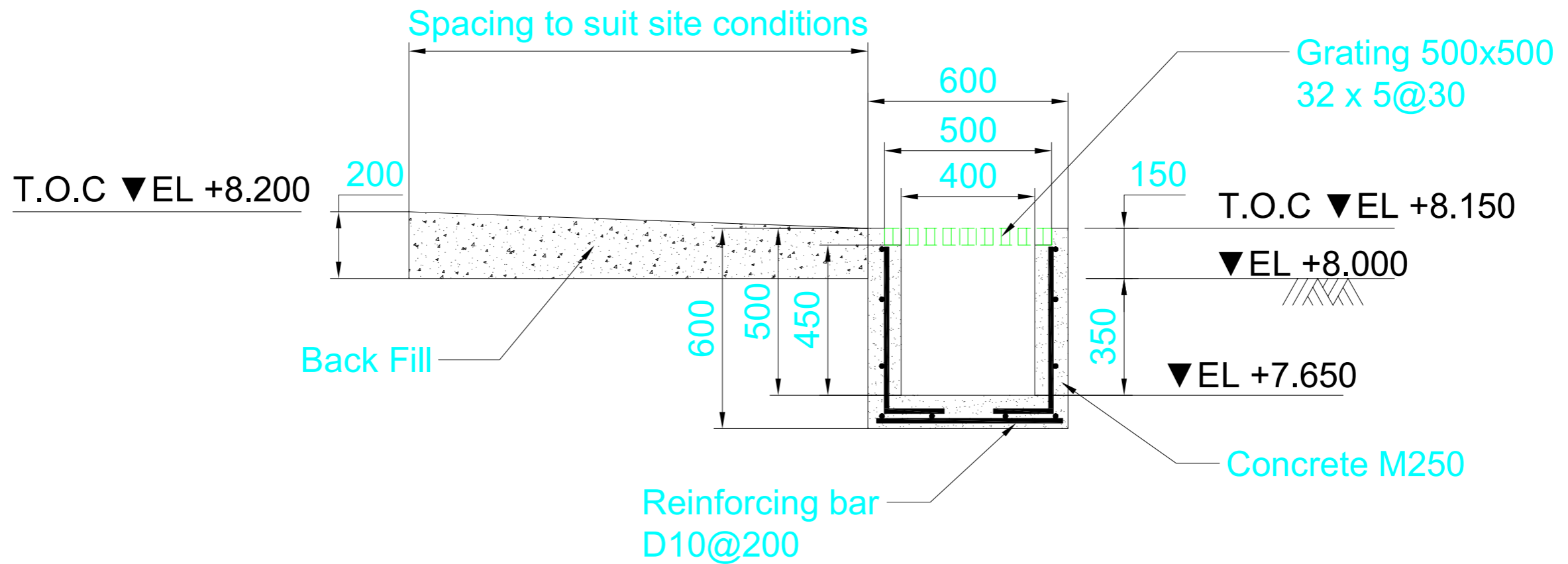


- NOTES**
- UNLESS OTHERWISE NOTED ALL DIMENSION AND COORDINATES ARE IN MILLIMETERS. ALL ELEVATIONS ARE IN METERS.
  - GL.±0 EL.+8,000 M.S.L.+8,000
  - CONCRETE STRENGTH  
 $f_c$ =CYLINDER COMPRESSIVE STRENGTH AT 28 DAYS  
 1) LEAN CONCRETE:  $f_c=14\text{MPa}$   
 2) REINFORCED CONCRETE:  $f_c=24\text{MPa}$
  - REINFORCING BAR STRENGTH  
 1) MESH REINFORCEMENT  
 $f_y=500\text{MPa}$  (TCVN 1651-2:2008 GRADE CB500-V OR JIS 3112 GRADE SD490)  
 2) DEFORMED BARS  
 $f_y=400\text{MPa}$  (TCVN 1651-2:2008 GRADE CB400-V OR JIS 3112 GRADE SD390)
  - CEMENT  
 TYPE I CEMENT MIXED WITH FLY ASH OR EQUIVALENT CEMENT
  - BITUMINOUS PAINTING SHALL BE APPLIED TO THE CONCRETE SURFACE IN CONTACT WITH SOILS.

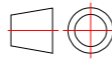

4	Back Fill	~43 square meter	
3	Heavy-duty Grating	6 pcs	500x500x50 (WxLxH)
2	Newer Trench	~65 meter	
1	Older Trench		
No.	Name	Qty	Note

Sampling House

DO NOT SCALE		Name	Date	Signature	<b>KOE POWER SERVICES COMPANY LIMITED</b>		
	Designed by	PHAN DUC DUONG	25/11/2025				
	Checked by	TRAN VAN TUAN					
SCALE:	Approved by	KIM TAE YOUNG				<b>Trench Drain System</b>	
	Authorized by						
MATERIAL:		QUANTITY:		WEIGHT:	DRAWING CODE:		
					TOTAL SHEET:	SHEET NO:	SHEET SIZE:



Typical Cross-Section

DO NOT SCALE		Name	Date	Signature	KOE POWER SERVICES COMPANY LIMITED		
	Designed by	PHAN DUC DUONG	25/11/2025				
	Checked by	TRAN VAN TUAN					
SCALE:	Approved by	KIM TAE YOUNG				Trench Drain System	
Scale	Authorized by						
MATERIAL:		QUANTITY:		WEIGHT:	DRAWING CODE:		
					TOTAL SHEET:	SHEET NO:	SHEET SIZE: