

Sama' Al-Madinah for Engineering Consulting

Do you have an industrial project?

Do you have any problems in construction stage?

Do you need foundation design for your Production Line?

Never hesitate to contact us

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24/16-2007

Mobiles: 00966560287569 / 00966500552138 / 00966503808745



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Substructures Design of Industrial Projects, Warehouses, & Production Line Foundations

Provide the 3th Party services for contractors



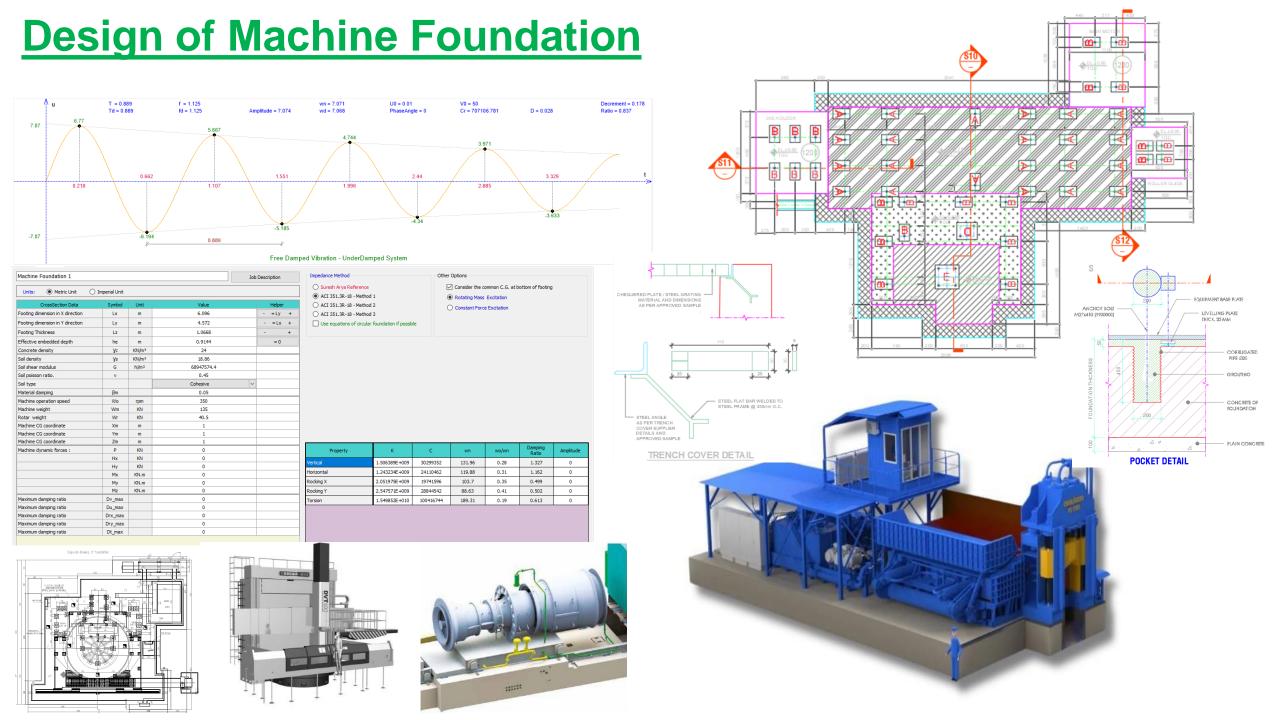
تقديم استشارات وحلول للمشاكل التي تواجه المقاولين أثناء مرحلة التنفيذ

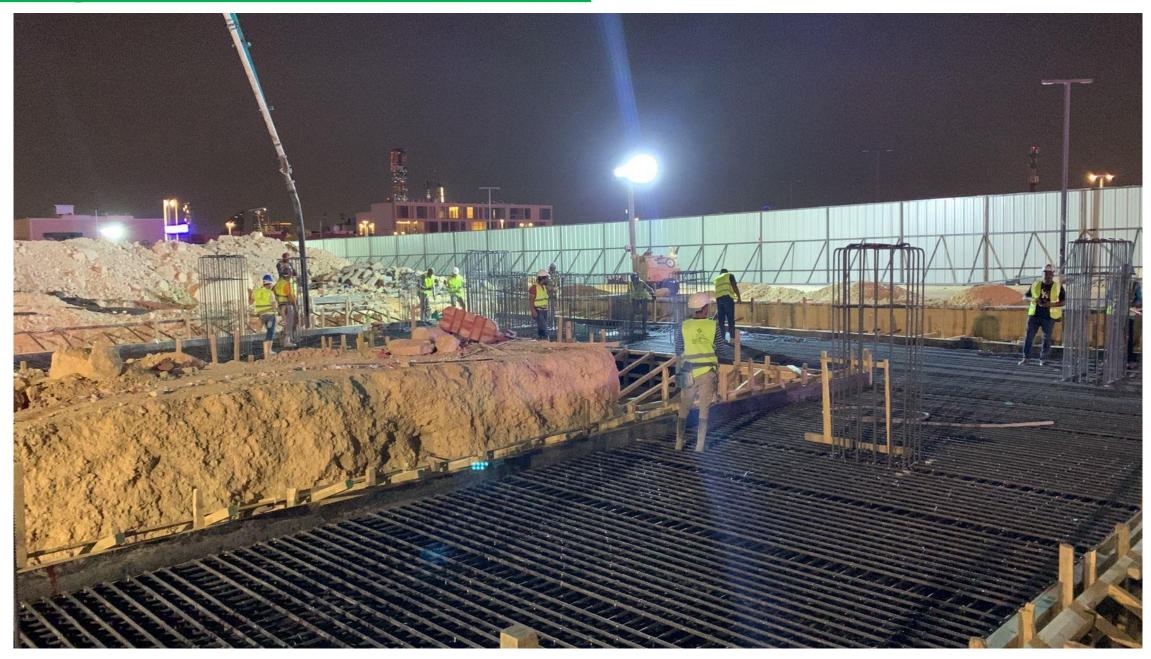
خدمات مميزة وسريعة في كل ما يخص المشاريع الصناعية من تصاميم إنشائية للبنية التحتية من الأساسات حتى خطوط الإنتاج

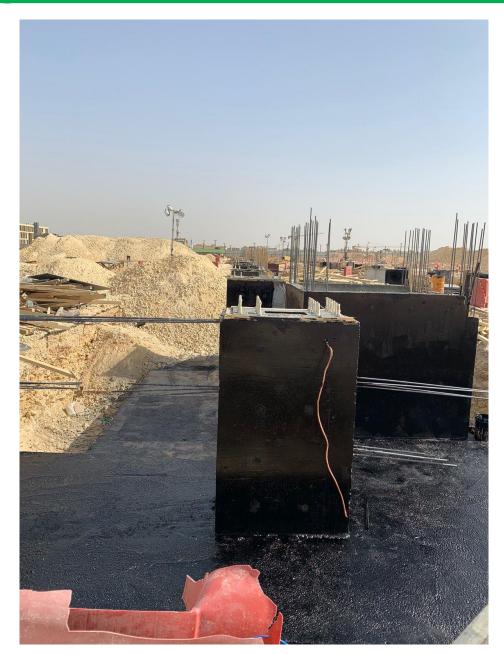
Development of specialized programs in this field that facilitate and accelerate the design process & enable value engineering for them.

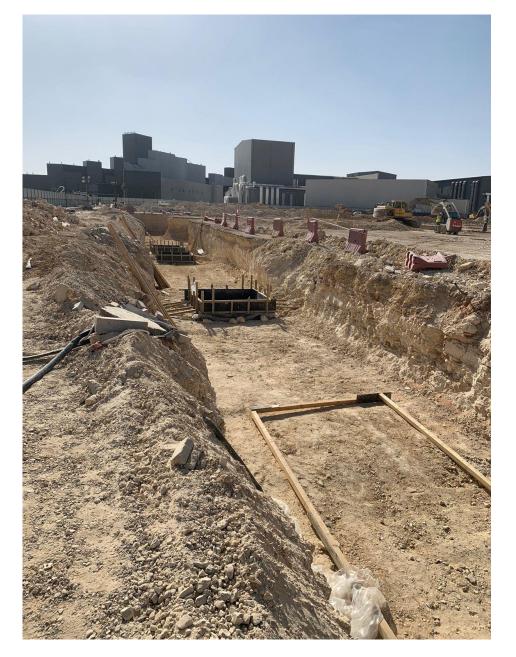




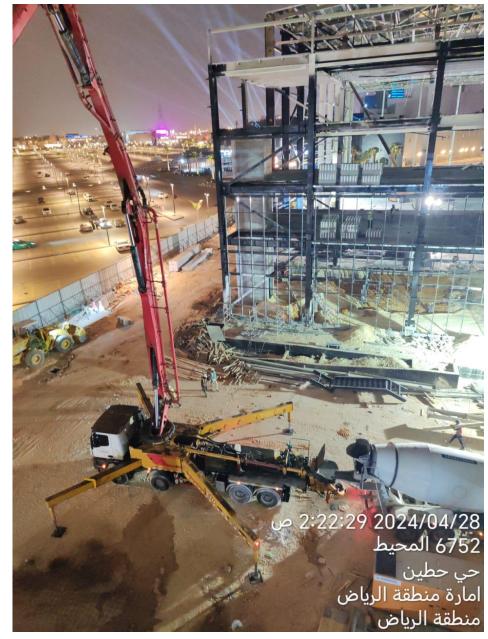




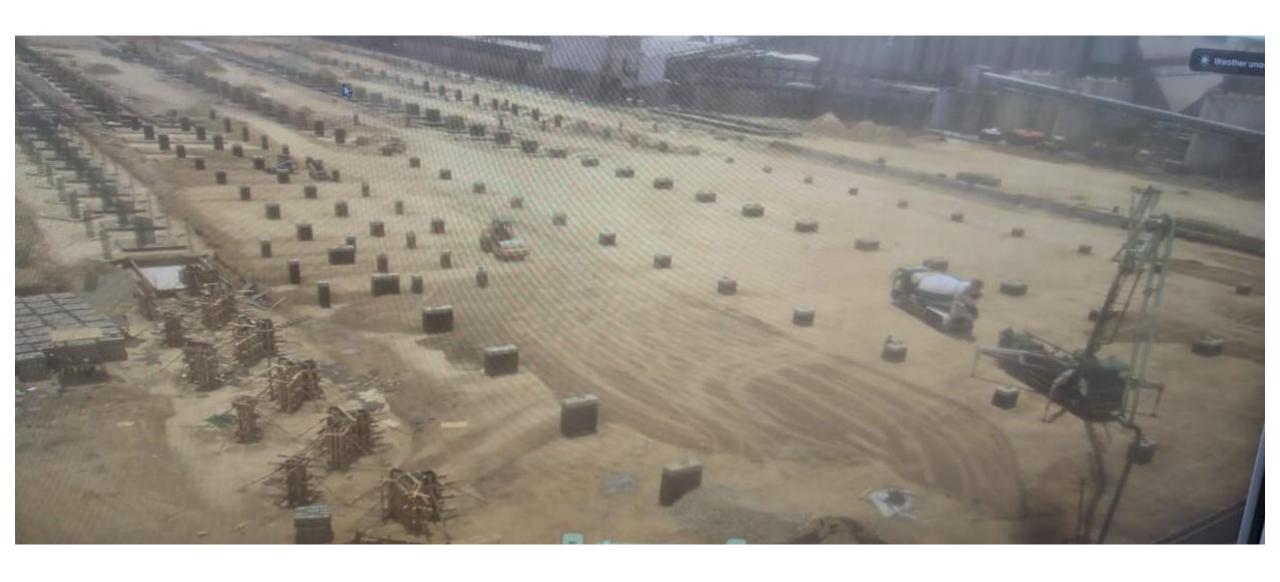






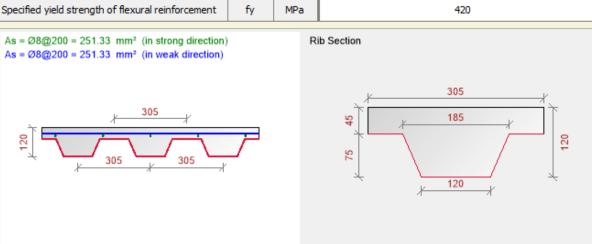


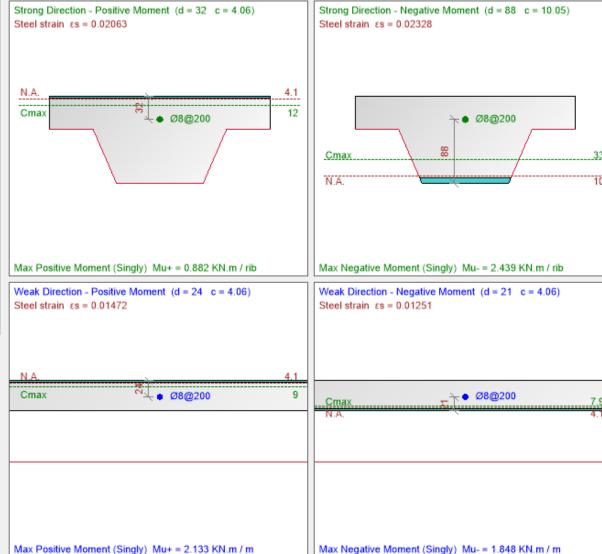




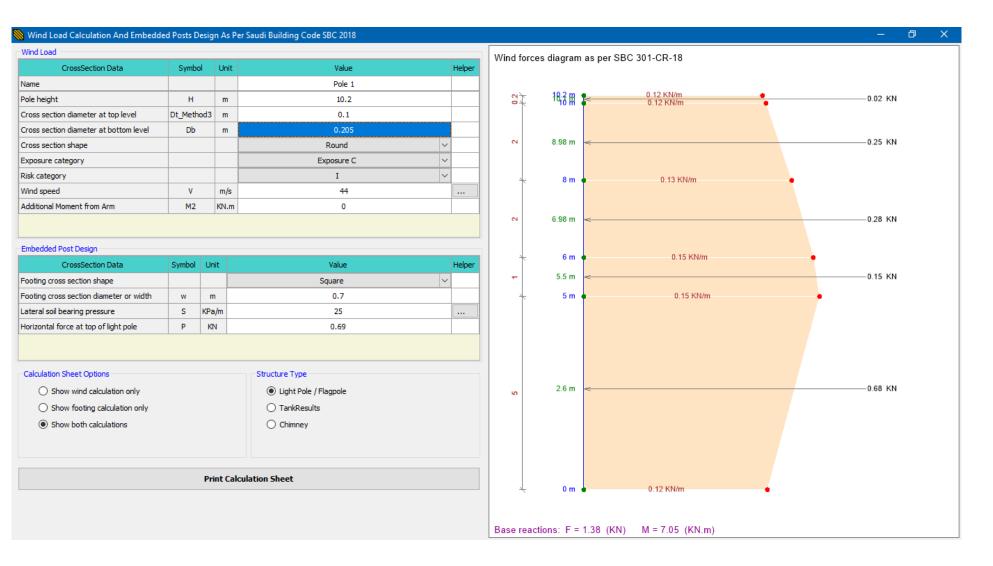
Design of Deck Slab Floor

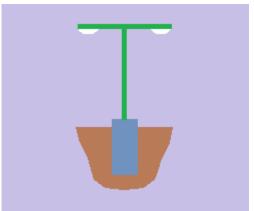
Property	Symbol	Unit	Value
Dick slab name			Deck_120
Total slab thickness	н	mm	120
Deck rib height	Hd	mm	75
Dick rib pitch	bf	mm	305
Rib width at bottom	bw1	mm	120
Rib width at top	bw2	mm	185
Diameter bars in strong direction	Ds	mm	8
Spacing of bars in strong direction	Ss	mm	200
Diameter bars in weak direction	Dw	mm	8
Spacing of bars in weak direction	Sw	mm	200
Clear cover of bars in weak direction	c'	mm	20
Specified compression Strength of Concrete	fc'	MPa	40
Specified yield strength of flexural reinforcement	fy	MPa	420

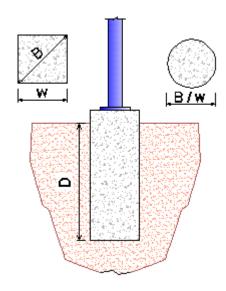




Design of Light Pole Foundation

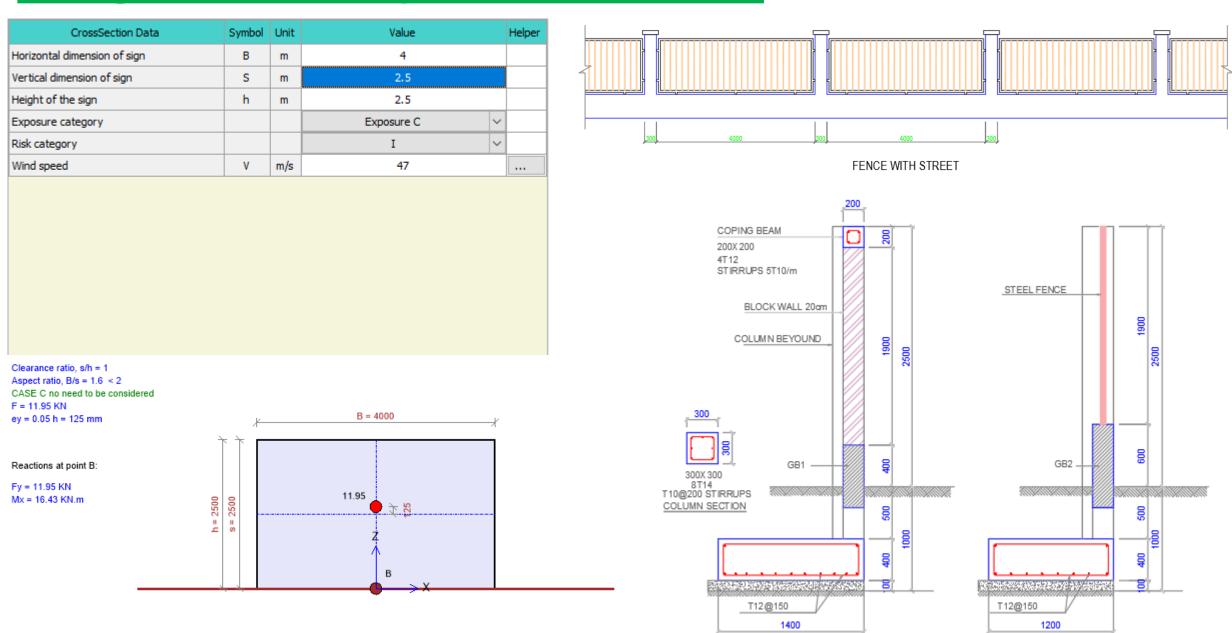




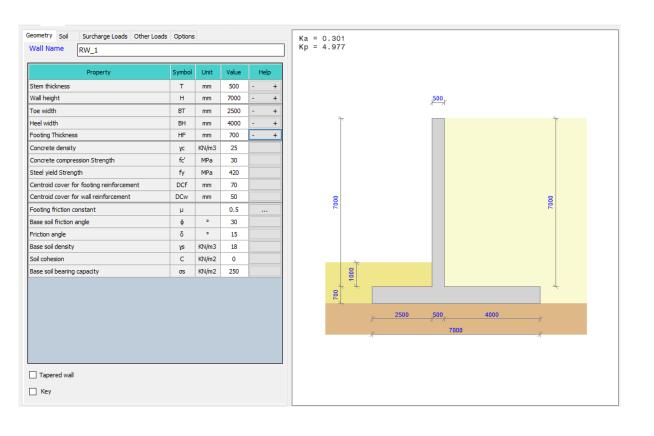


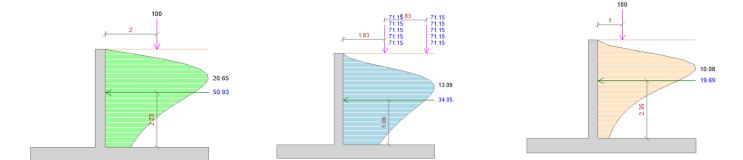
Design of Boundary Wall Foundation

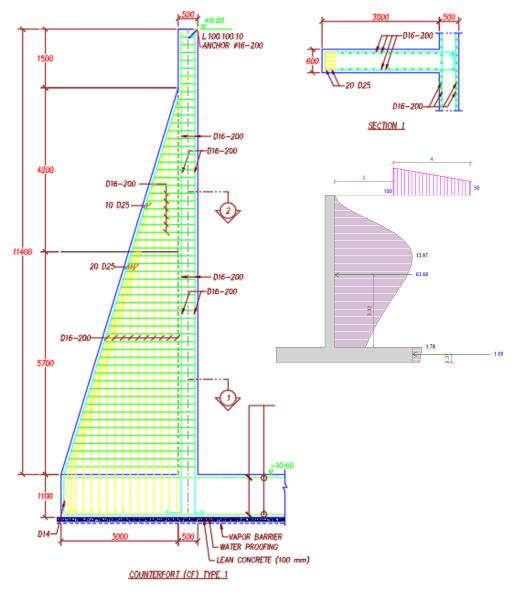
Wind Load CASE A



Design of Retaining Walls

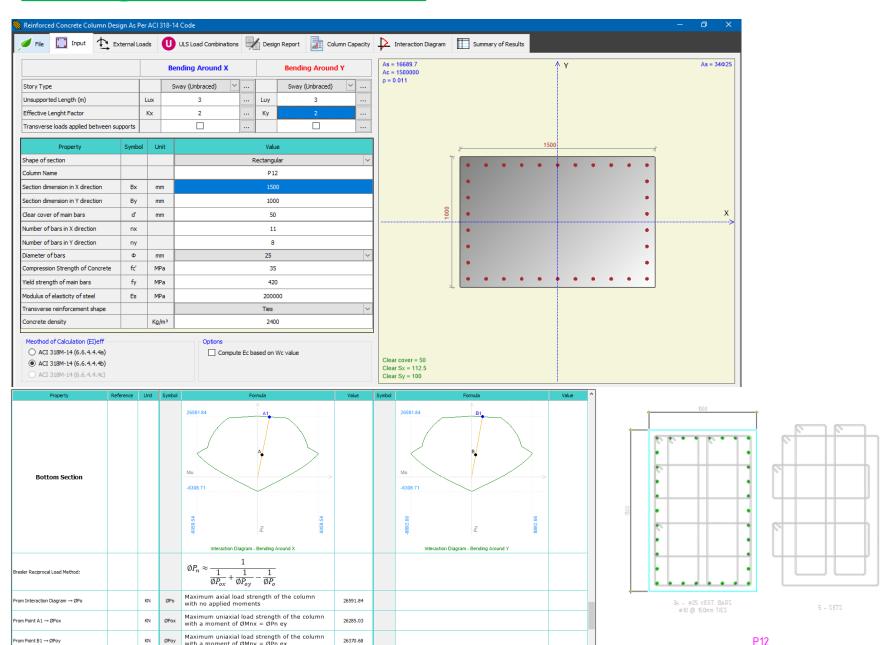


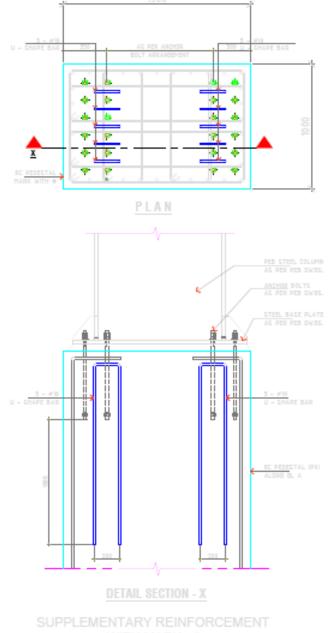




Design of Pedestals

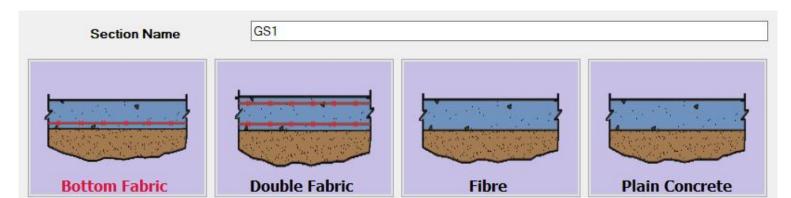
with a moment of ØMny = ØPn ex





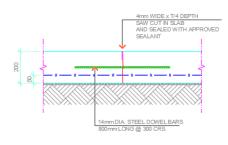
WITH MARK #

Design of Grade Slab as per TR34 4th Edition

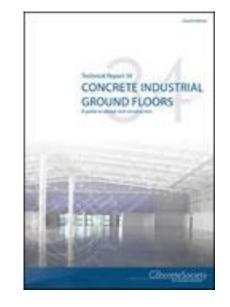


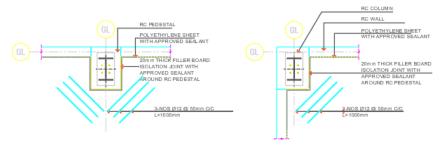


Property	Unit	Symbol	Value	
Design slab thickness	mm	Н	175	~
Characteristic compressive concrete cube strength at 28 days	MPa	fcu	40	~
Modulus of subgrade reaction	KN/m2/m	k	50000	~
Yield strength of reinforcement	MPa	fyk	500	~
Bottom Fabric reinforcement			A193	~
Bottom cover of reinforcement steel	mm	ф	50	~
Include the reinforcement in punching		?		





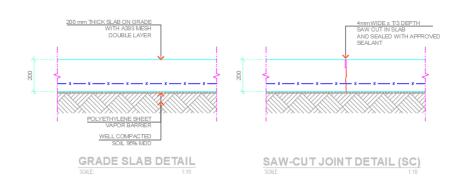




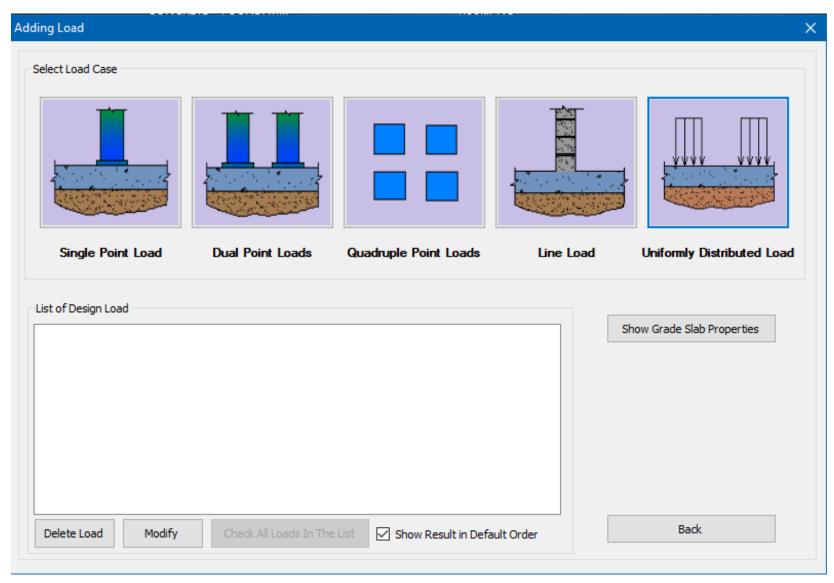
DETAIL AROUND EXTERNAL PEDESTAL DETAIL AROUND CORNER PEDESTAL

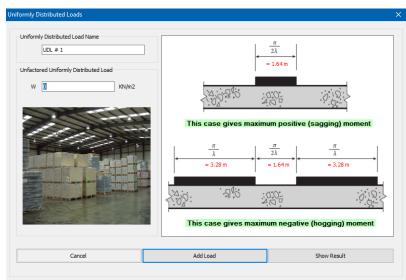
ADDITIONAL TOP REINFORCEMENT AROUND PEDESTAL

NRS
SOLE:



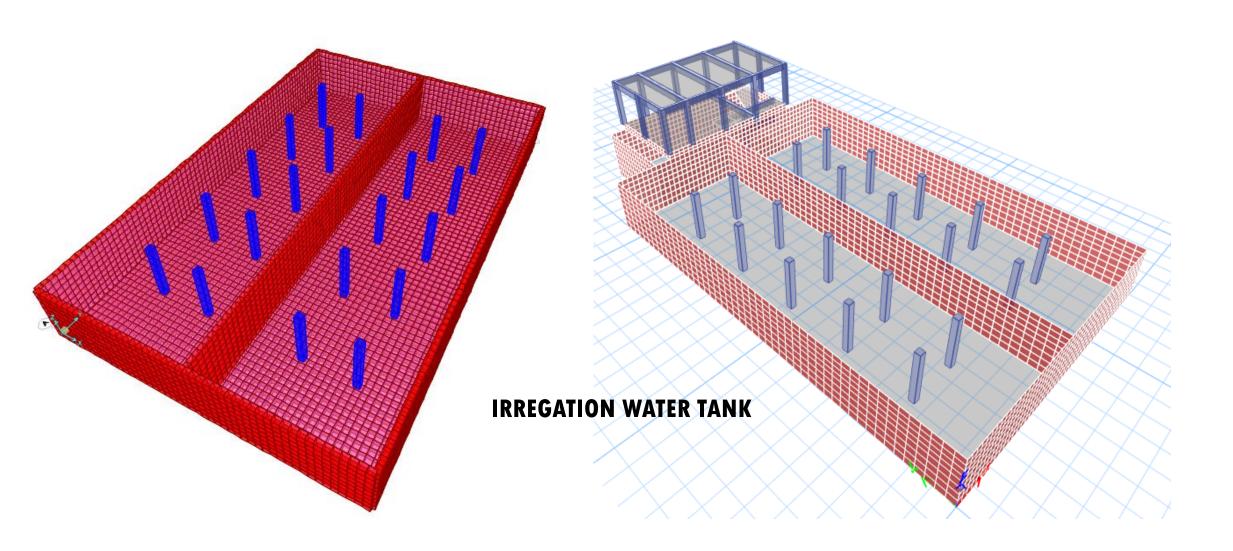
Design of Grade Slab as per TR34 4th Edition



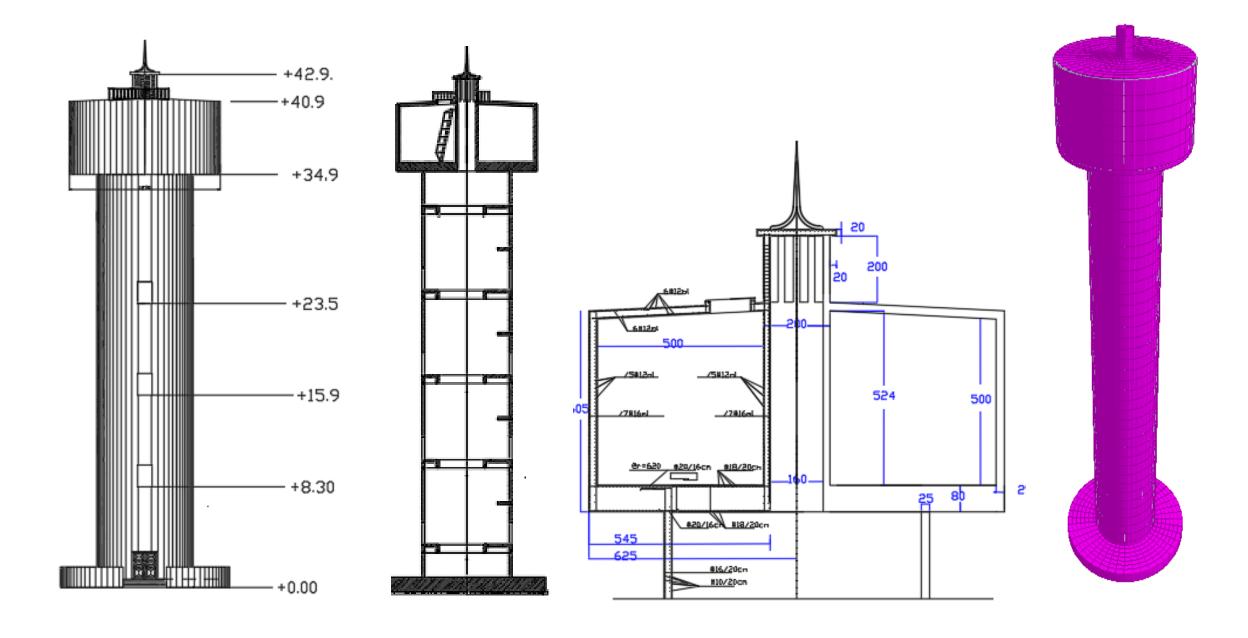


lual Point Loads Name				
DualLoad # 1				
ocation of Load Internal Near Edge Near Joint	У	Lx x	Effective	base plate dimensions x 100 mm y 125 mm Lx 300 mm
Racking Leg Mezzanine Column Other	Unfactored Racking leg loa		Errors Lis	st .
Cancel		Add Load		Show Result

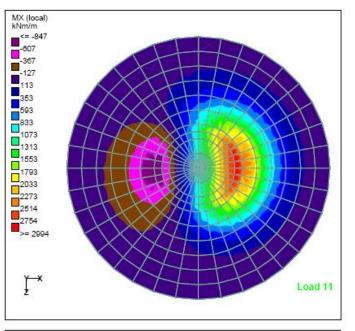
Design of Underground Water Tank



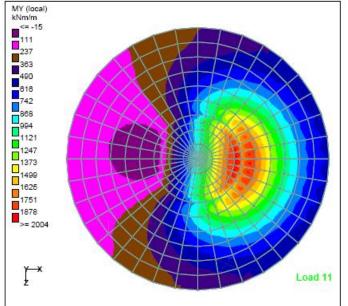
Design of Elevated Water Tank

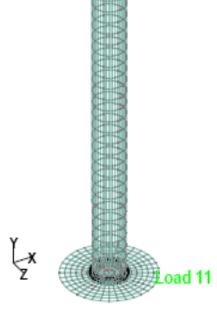


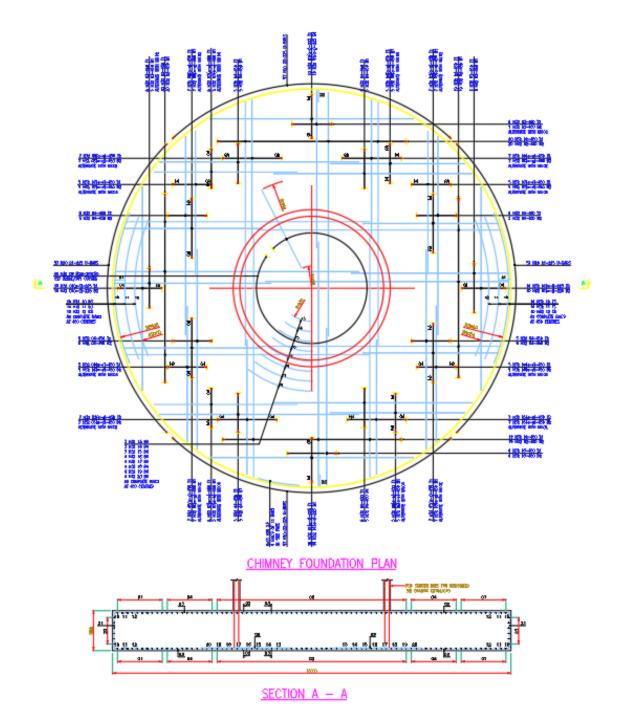
Design of Chimney Foundation



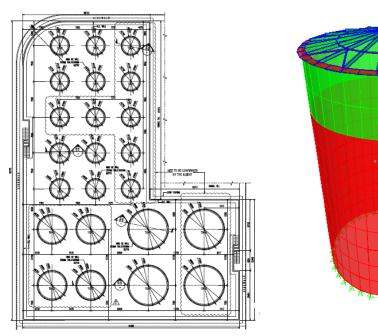


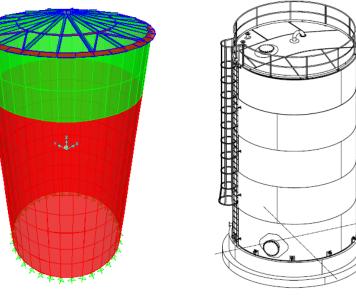


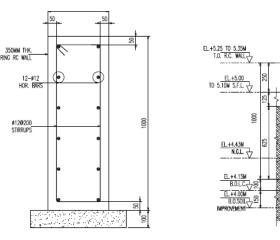




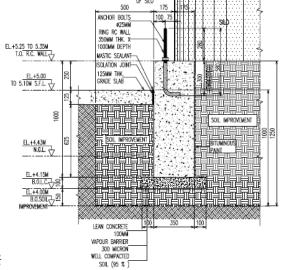
Design of Tank Farm Foundation





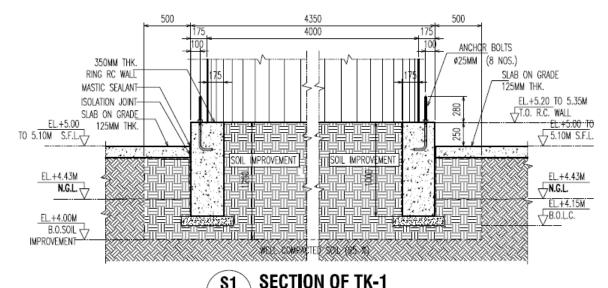


REINFORCEMENT DETAIL OF RING RC WALL



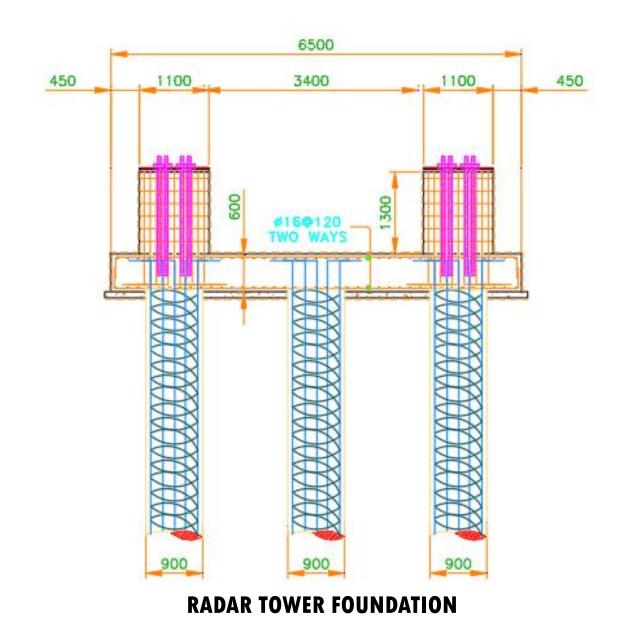
TYP.ENLARGE SECTION OF RING RC WALL

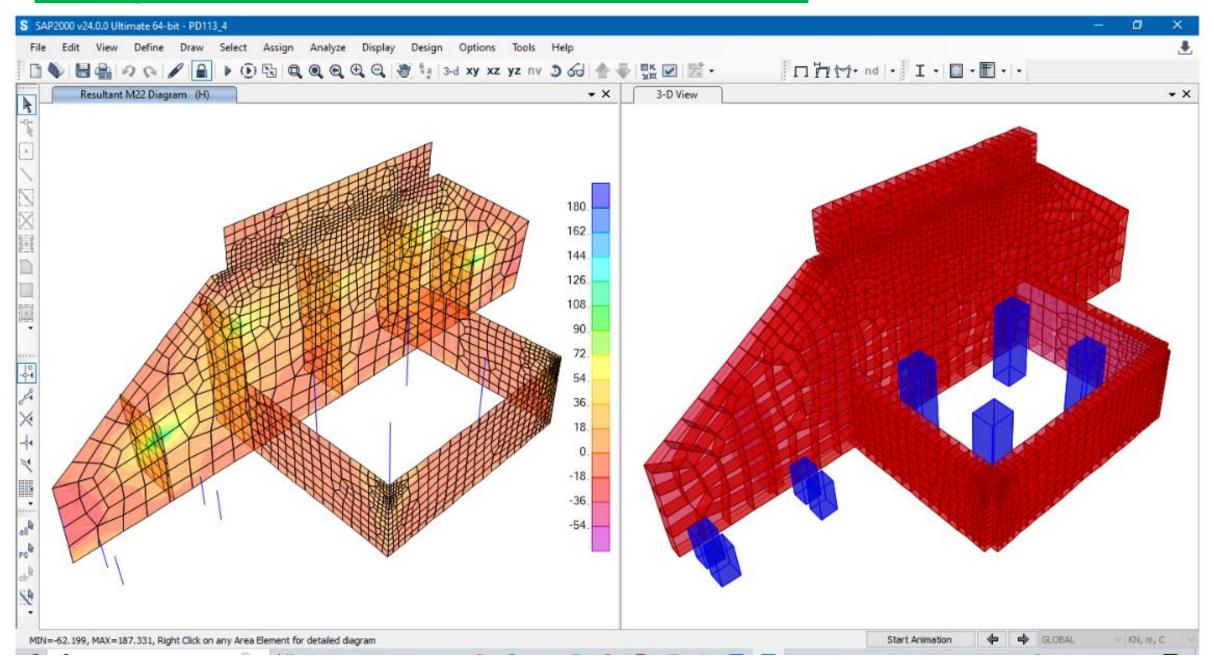
Tank Foundation Design as per API 650 - 2020 Fire Tank Steel Tank Input: Tank Dia Ringwall Input: Width of Ringwall Height of Ringwall 0.6 0.6 Projection Annular Strip Footing Input: Width of Annular Strip Footing 0.3 Thickness of Annular Strip Footing 0 Note: If there is no Strip Footing under Ringwall then put Bf = Brw and Tf = 0 Material Specifications Input: Reinforcement Steel Strength 420 MPa Concrete Strength Fc' 30 MPa Density of concrete 24.00 KN/m3 7 Courrels Density of Soil 7 18.00 KN/m³ Soil Properties Input: Angle of Internal Friction Coefficient of friction 0.40 Soil Bearing Capacity SBC 150 Bw Safty Factors: Minimum Safety Factor Against Overturning Minimum Safety Factor Against Sliding

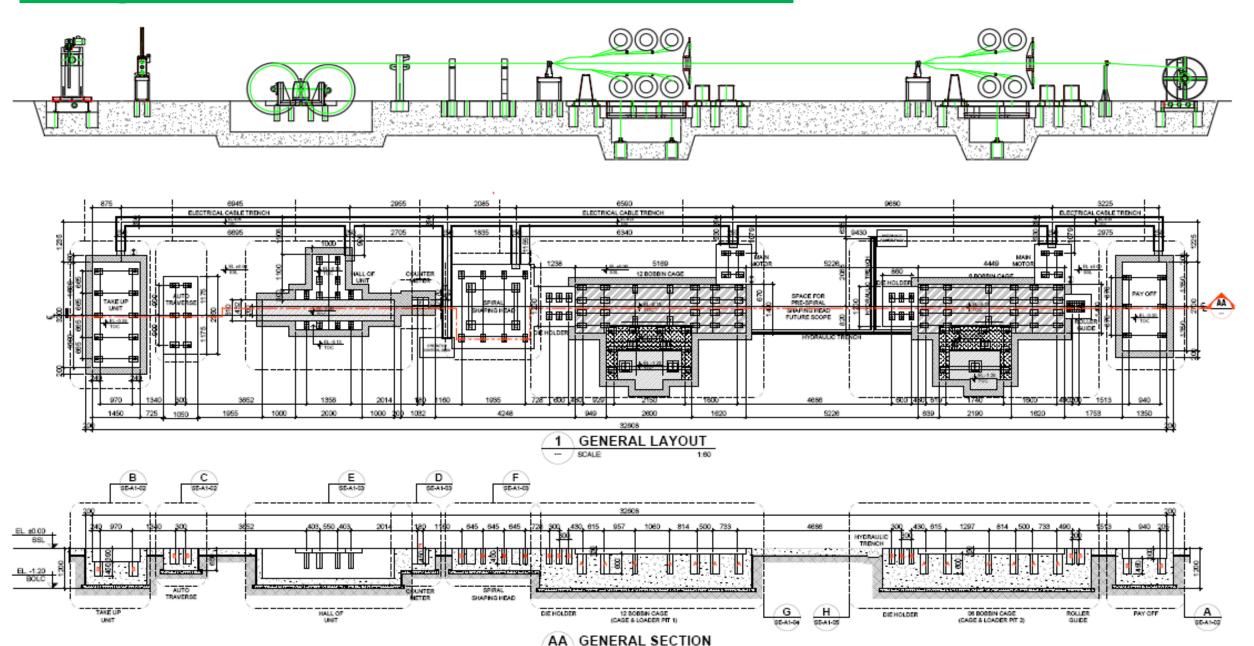


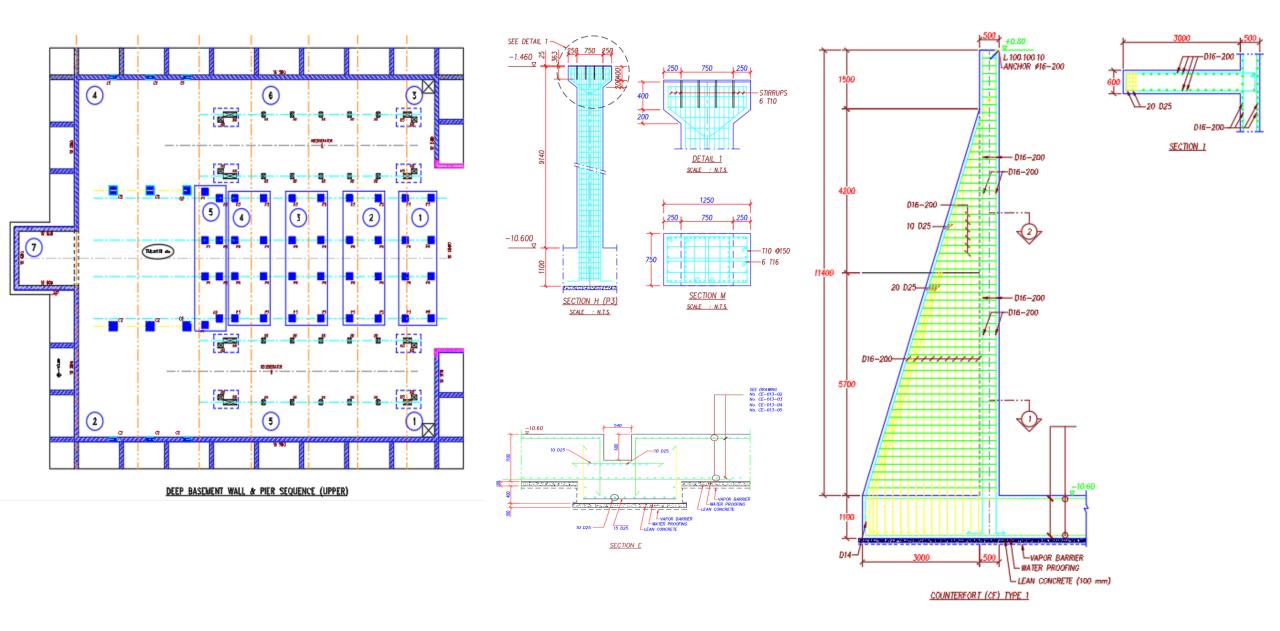
Design of Steel Tower Foundation

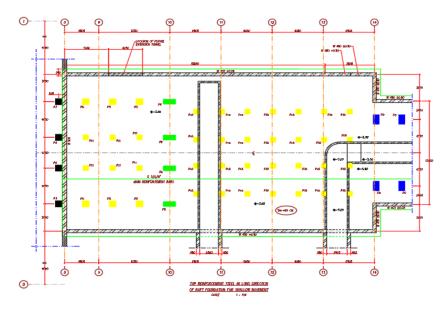


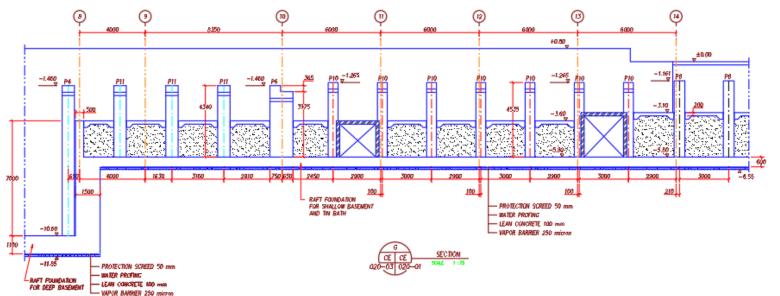


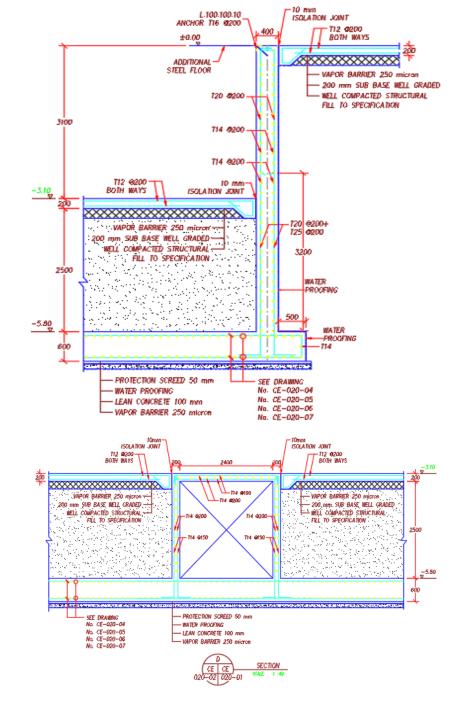


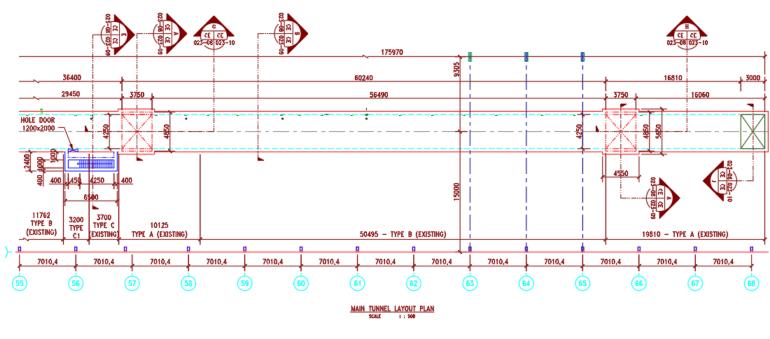


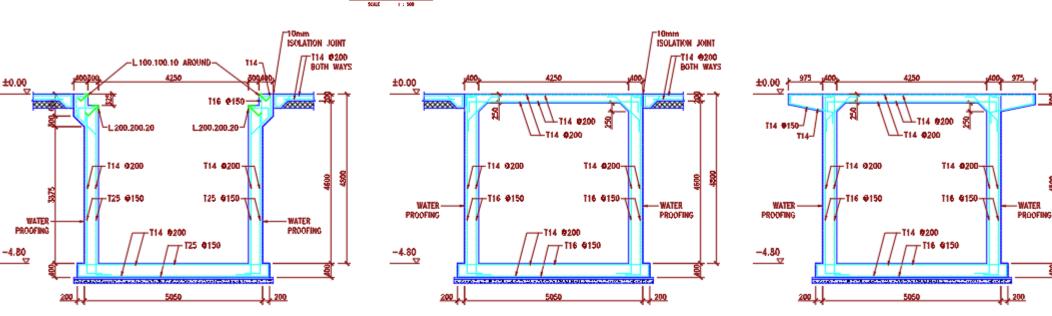


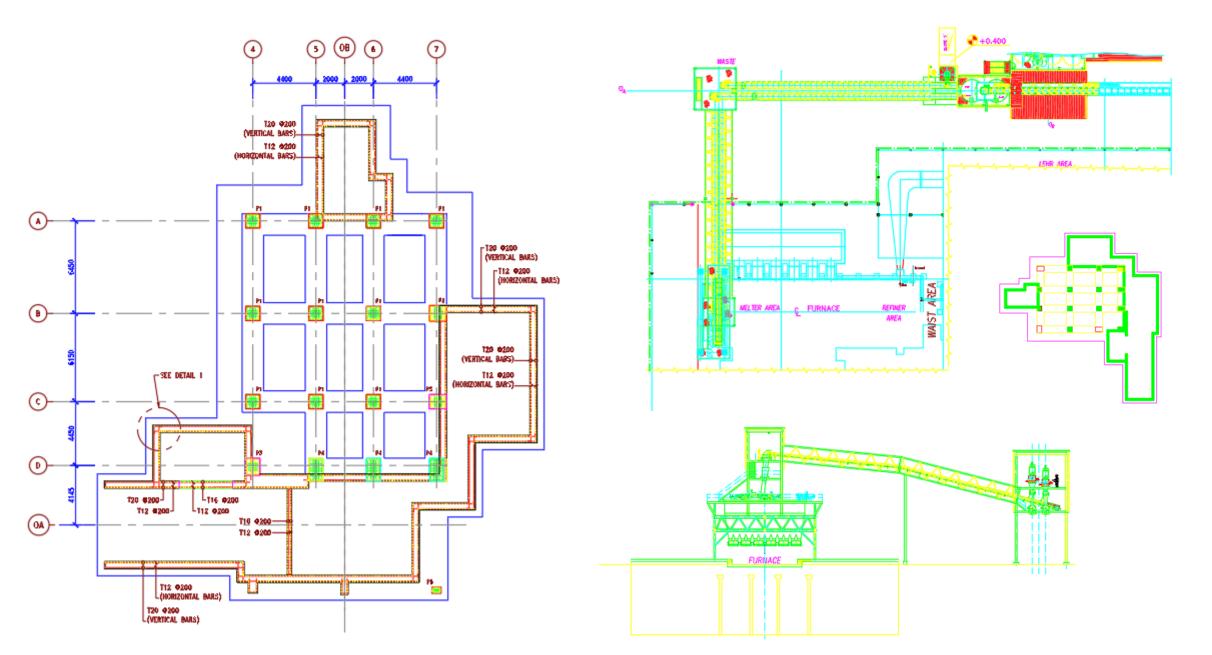


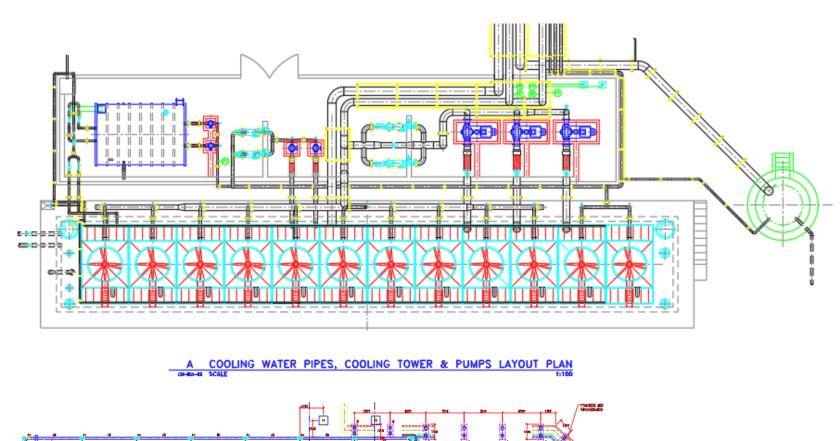


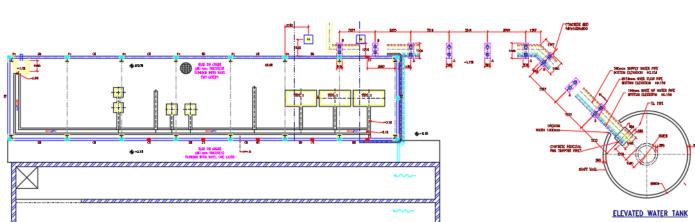


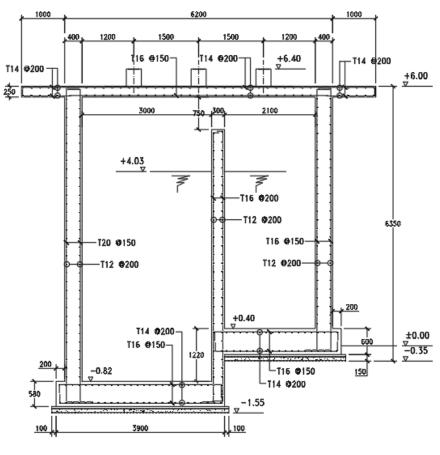


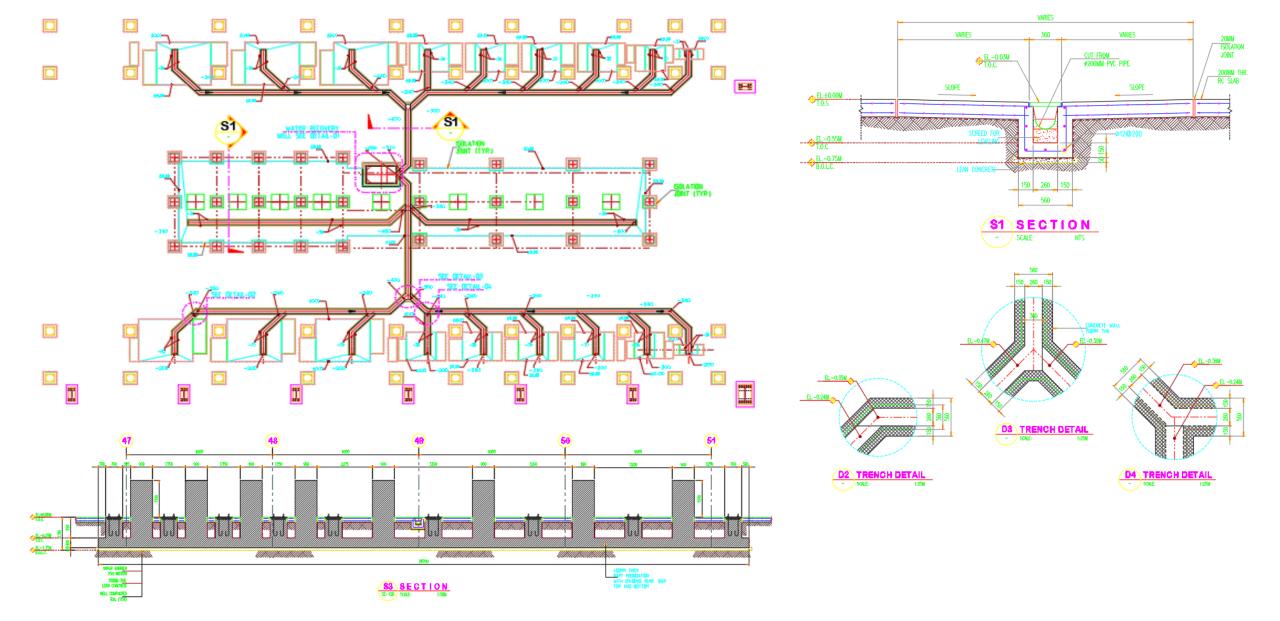


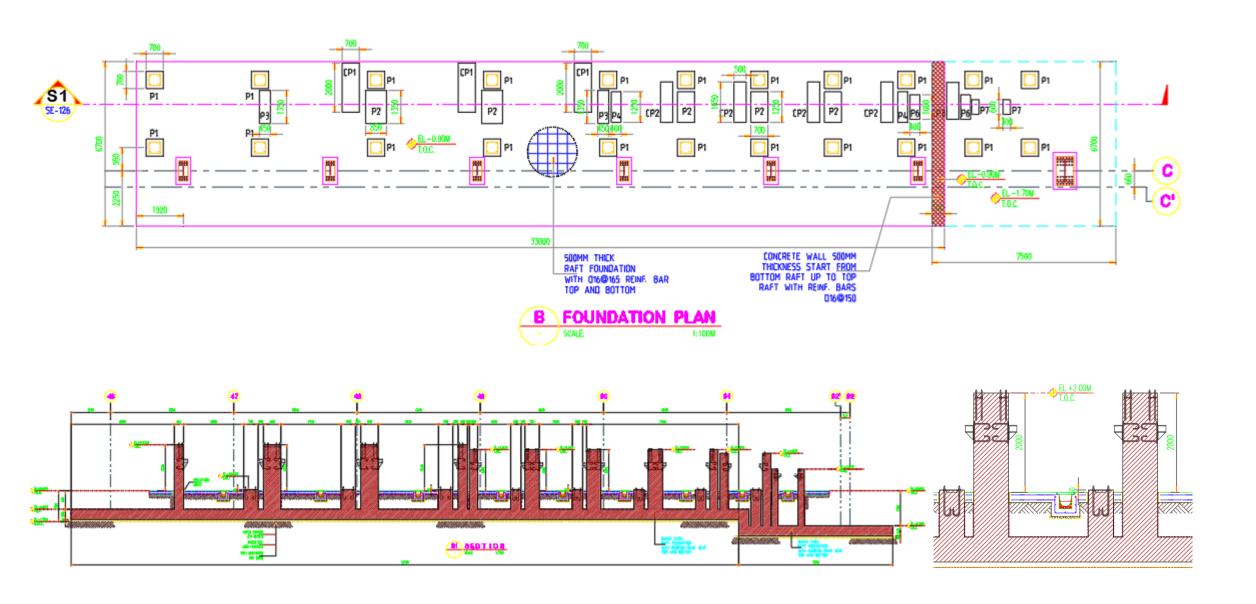


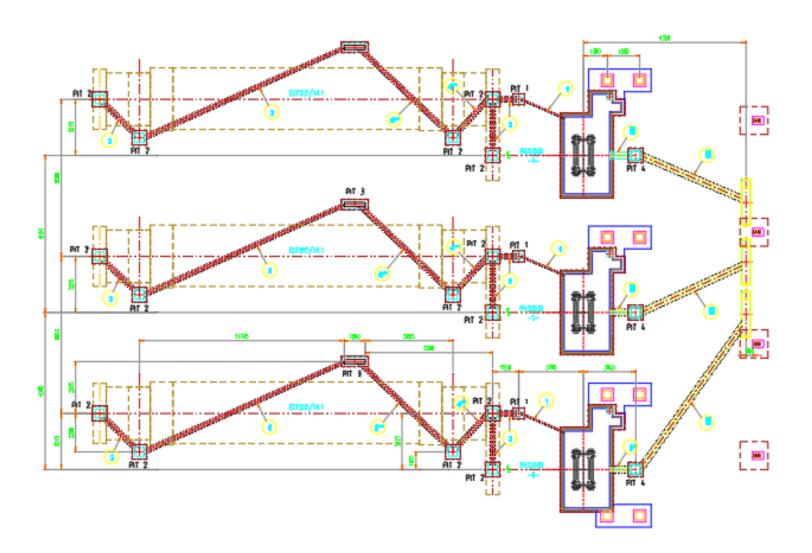


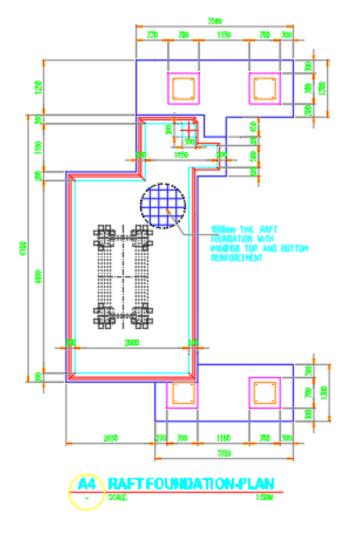


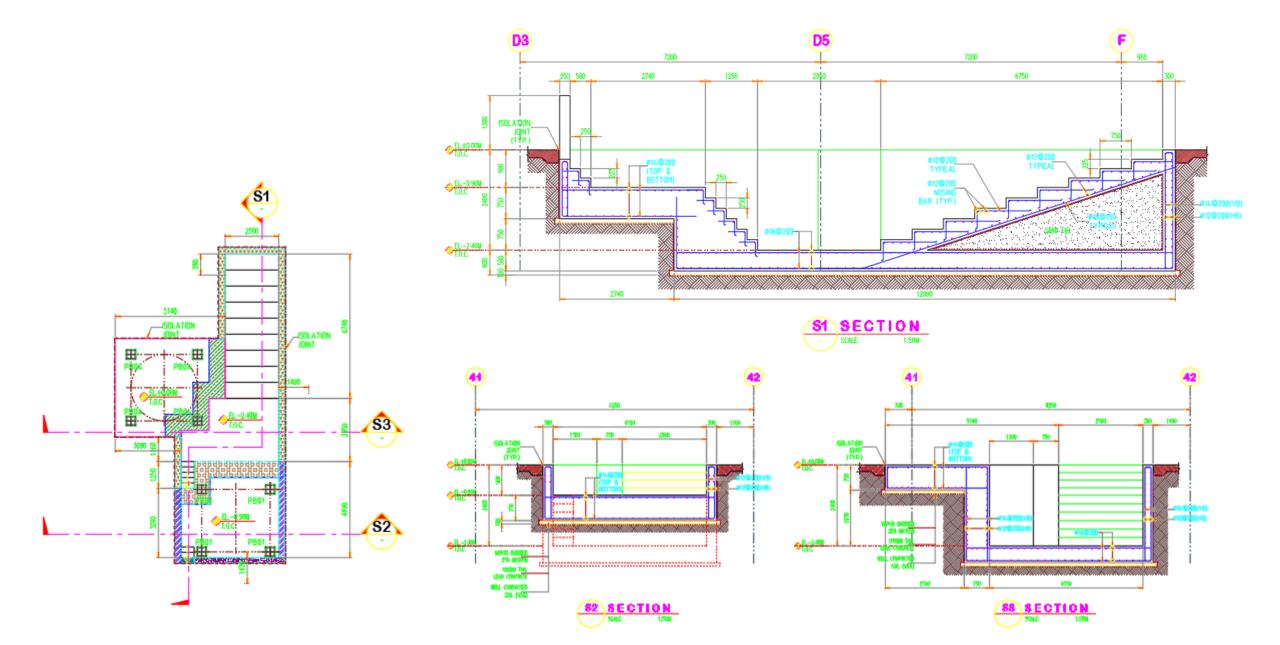


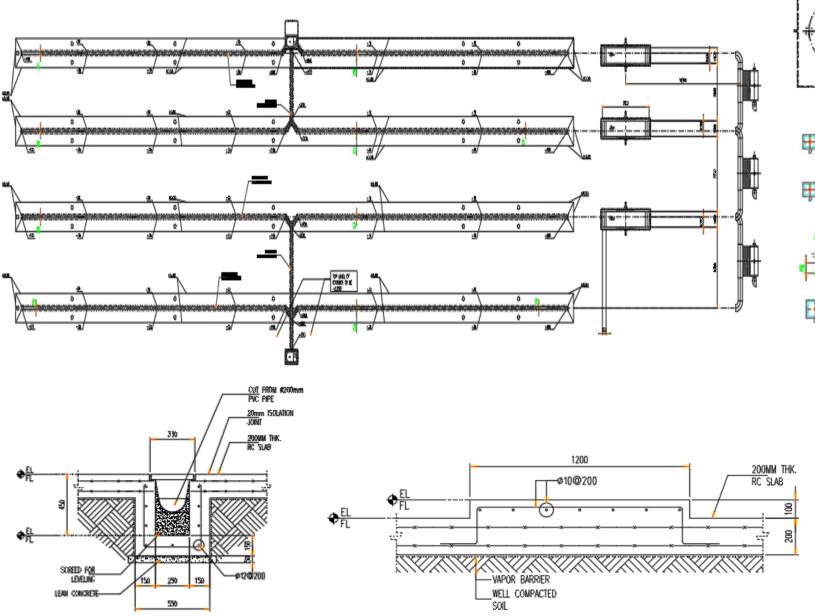


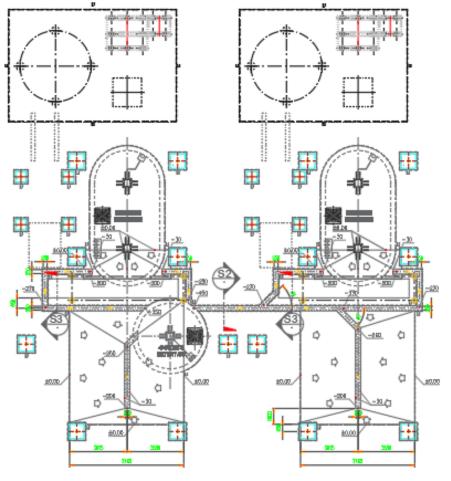


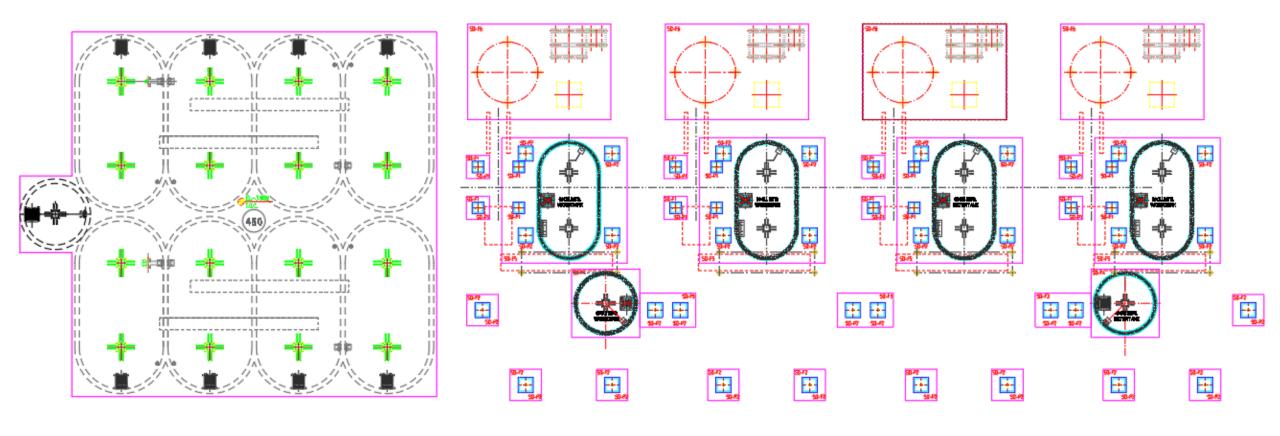


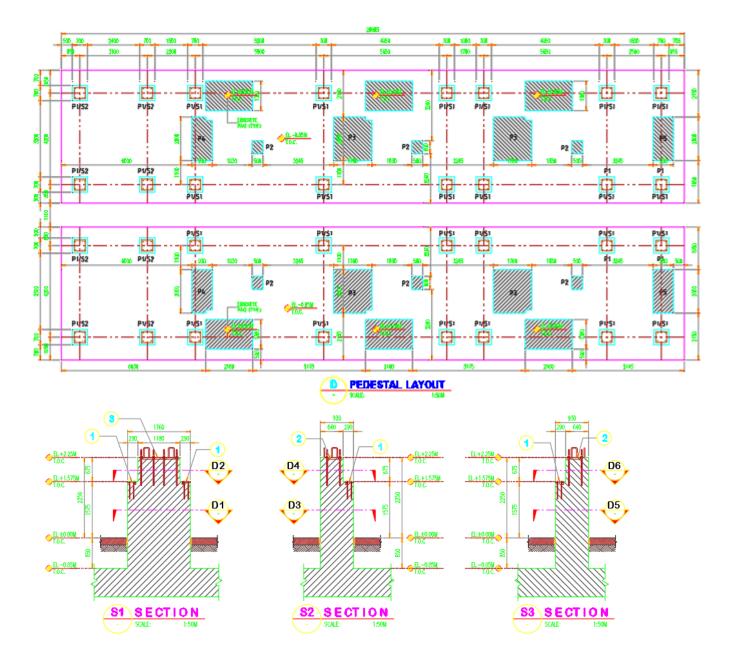


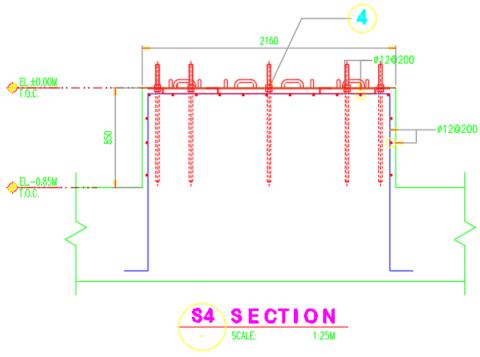


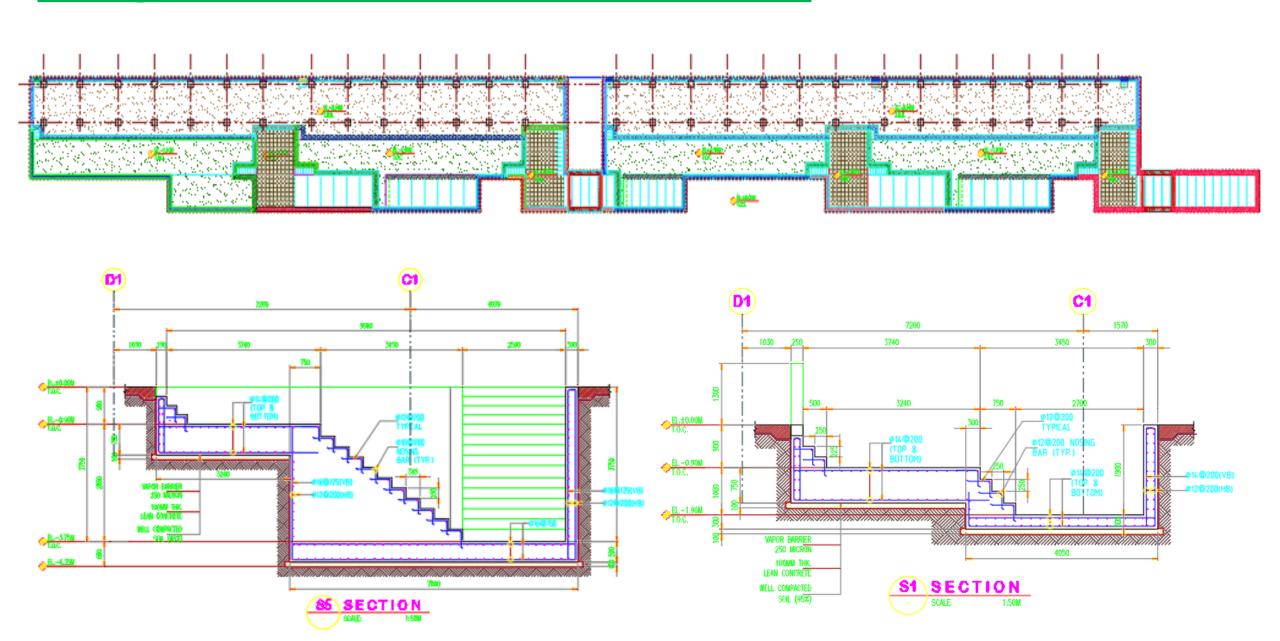


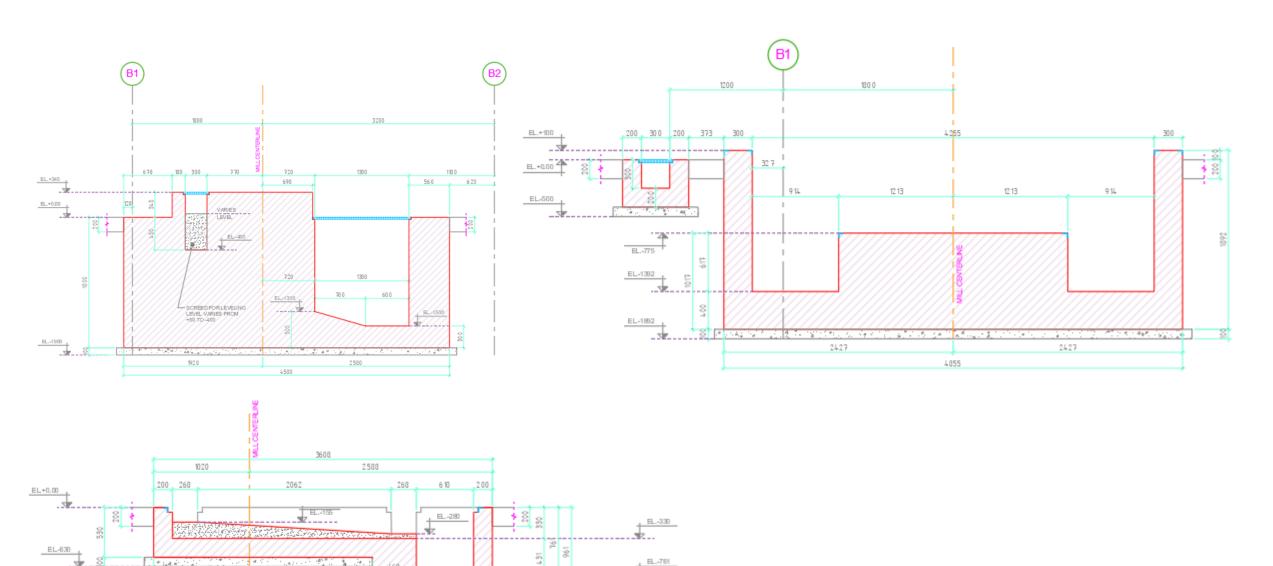


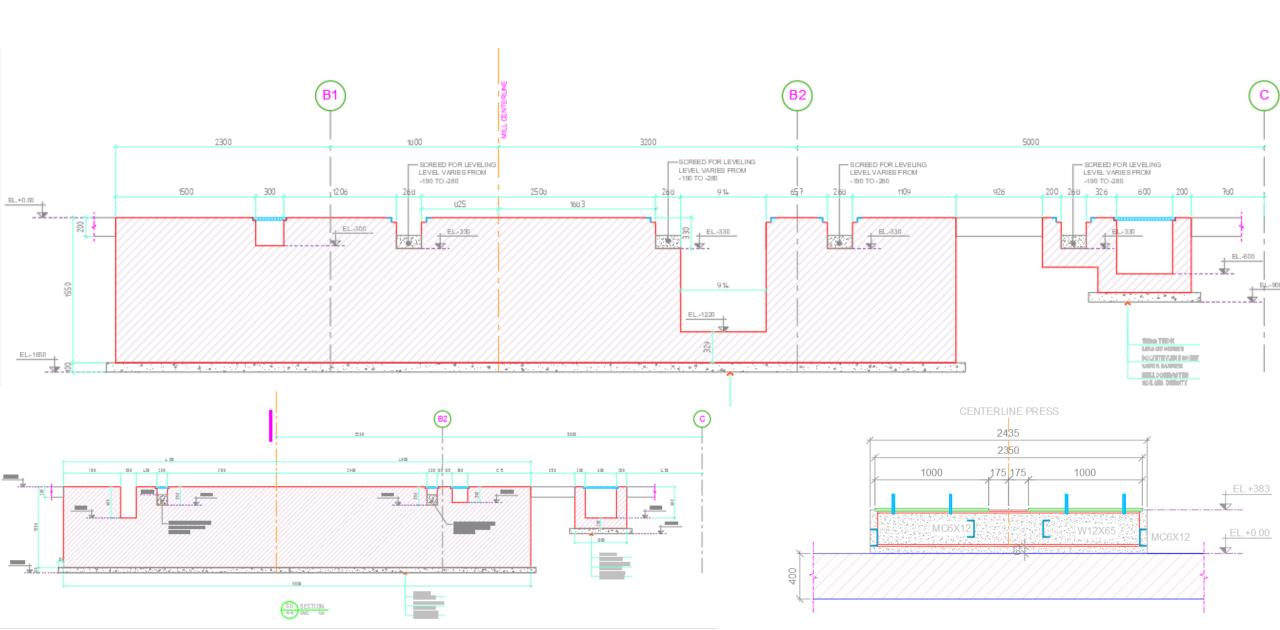


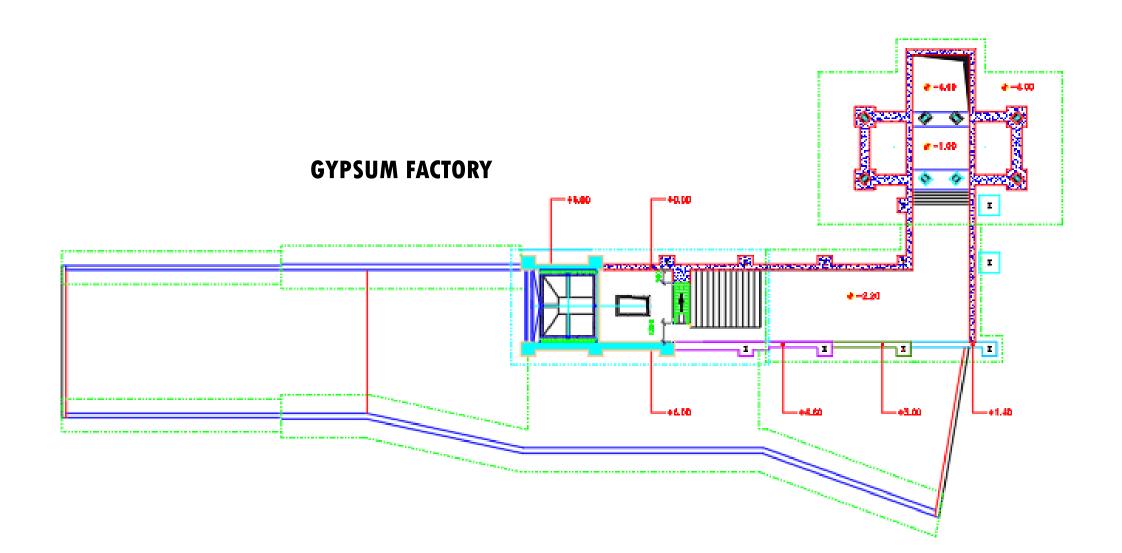


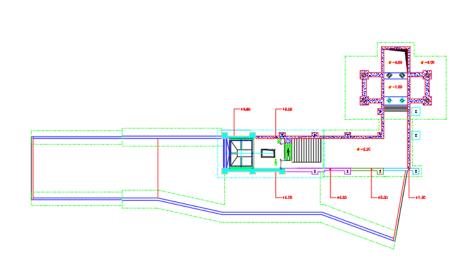




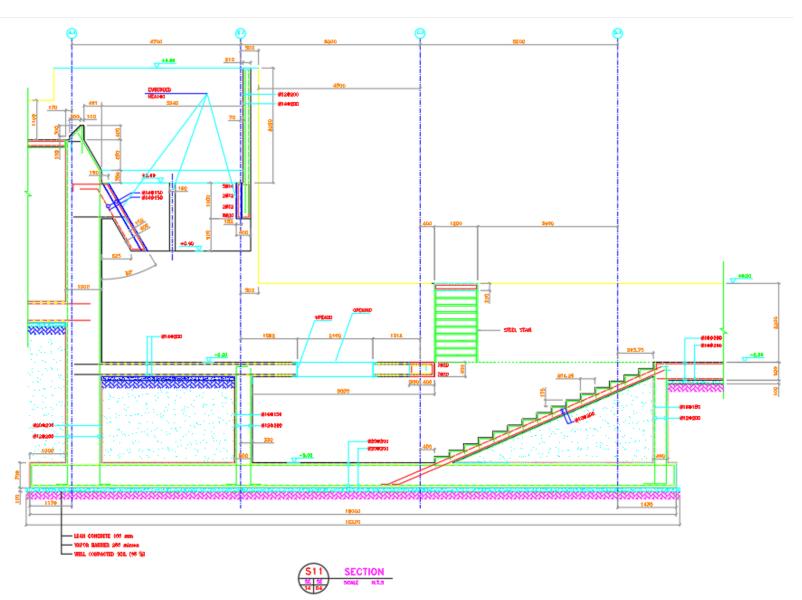


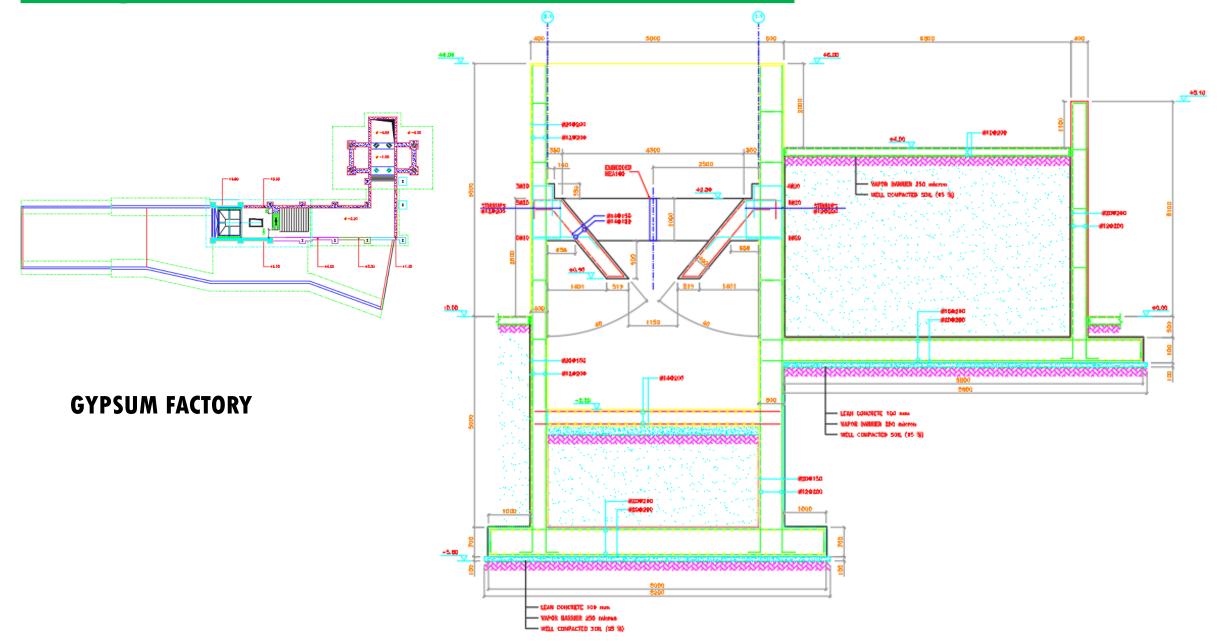




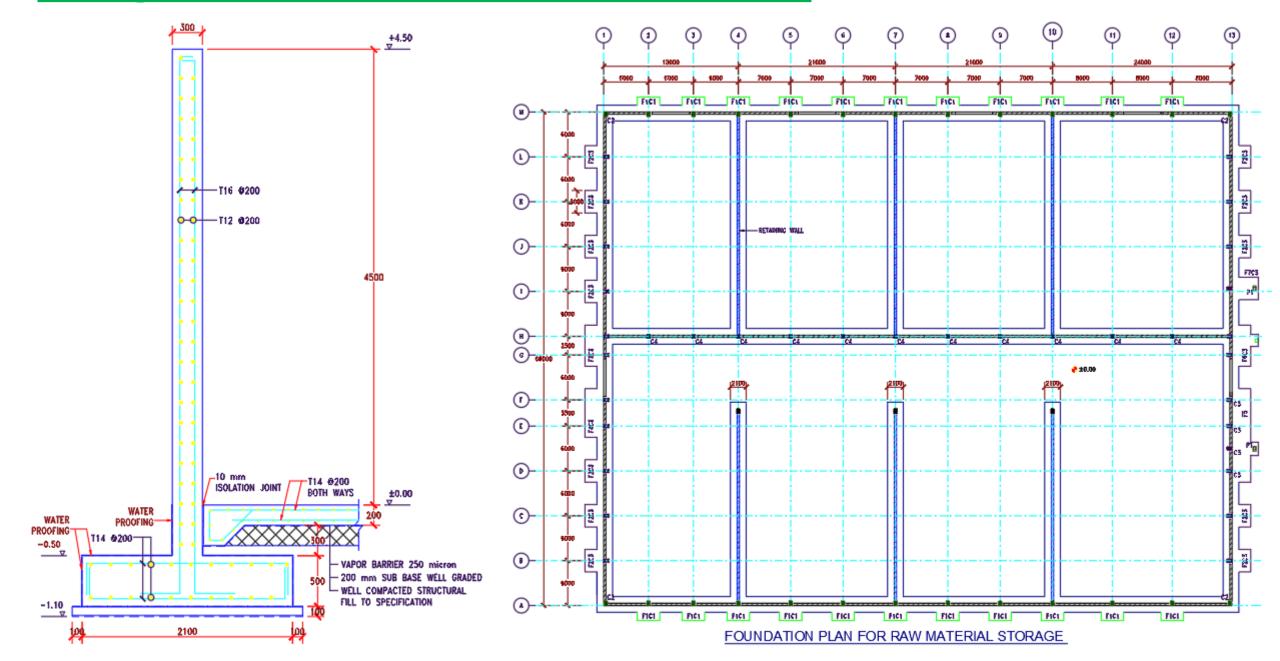


GYPSUM FACTORY





RAW MATEIAL



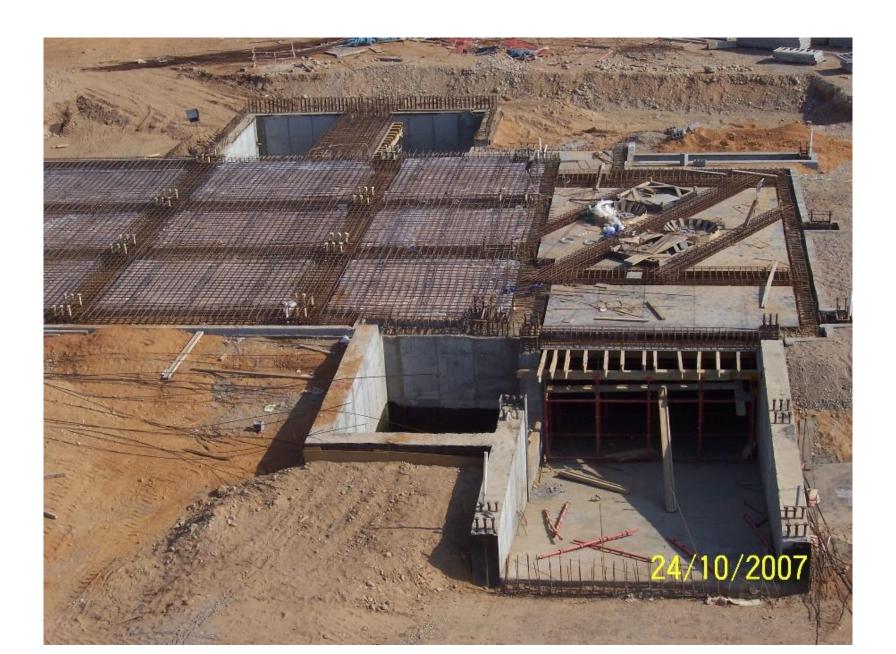










































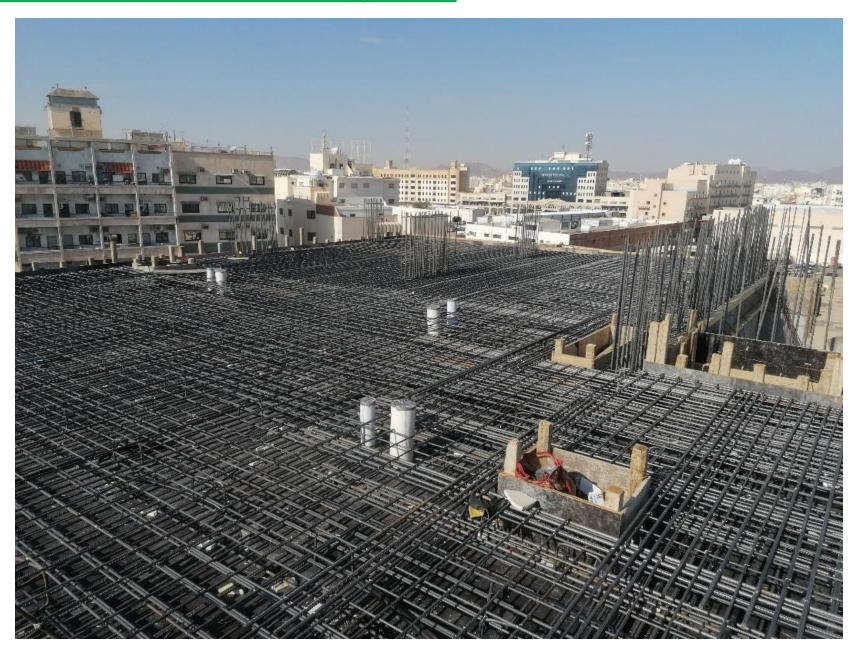














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24/16-2007

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