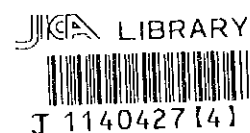


JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
PALESTINIAN INTERIM SELF-GOVERNMENT AUTHORITY
MINISTRY OF PLANNING AND INTERNATIONAL COOPERATION (MOPIC)

THE STUDY
ON
SEWERAGE DEVELOPMENT PLAN
IN THE AREA OF KHAN YUNIS
IN
PALESTINIAN INTERIM SELF-GOVERNMENT AUTHORITY
FINAL REPORT
DRAWINGS

DECEMBER 1997



PACIFIC CONSULTANTS INTERNATIONAL CO., LTD., TOKYO
NIHON SUIDO CONSULTANTS CO., LTD., TOKYO

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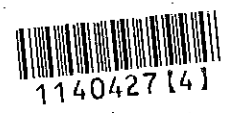
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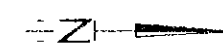
FIG 1

Regional Wastewater Management System Plan

THE STUDY
ON SEWERAGE DEVELOPMENT PLAN
IN THE AREA OF KHAN YUNIS
IN PALESTINIAN INTERIM
SELF-GOVERNMENT AUTHORITY



JAPAN INTERNATIONAL COOPERATION AGENCY
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- Study Area
- Market District Area
- Central District Area

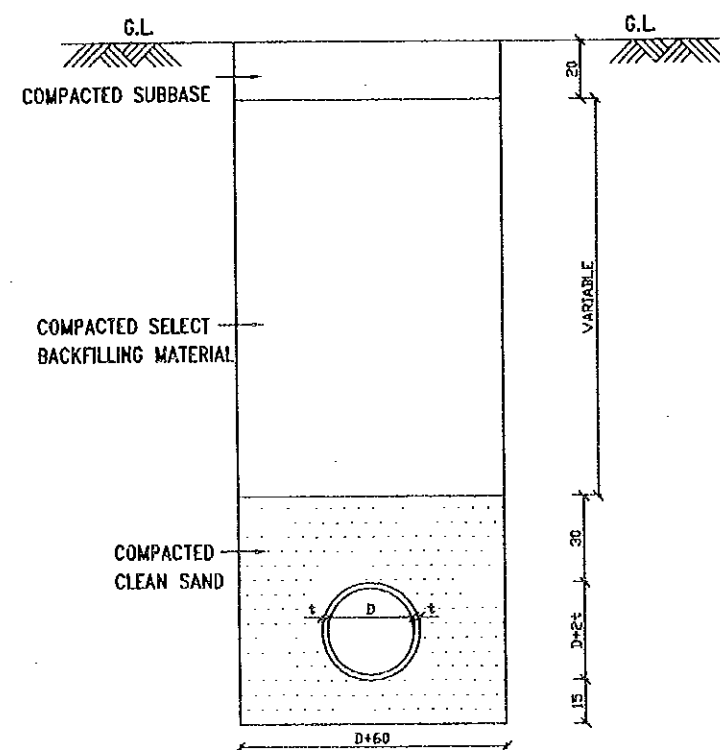
FIG 2

Regional Stormwater Management
System Plan

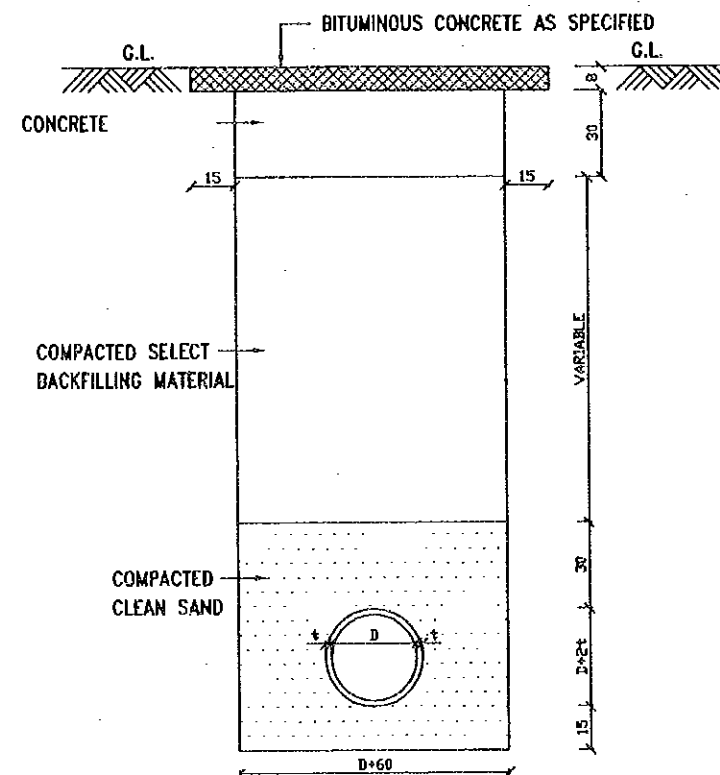
THE STUDY
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IN THE AREA OF KHAN YUNIS
IN PALESTINIAN INTERIM
SELF-GOVERNMENT AUTHORITY



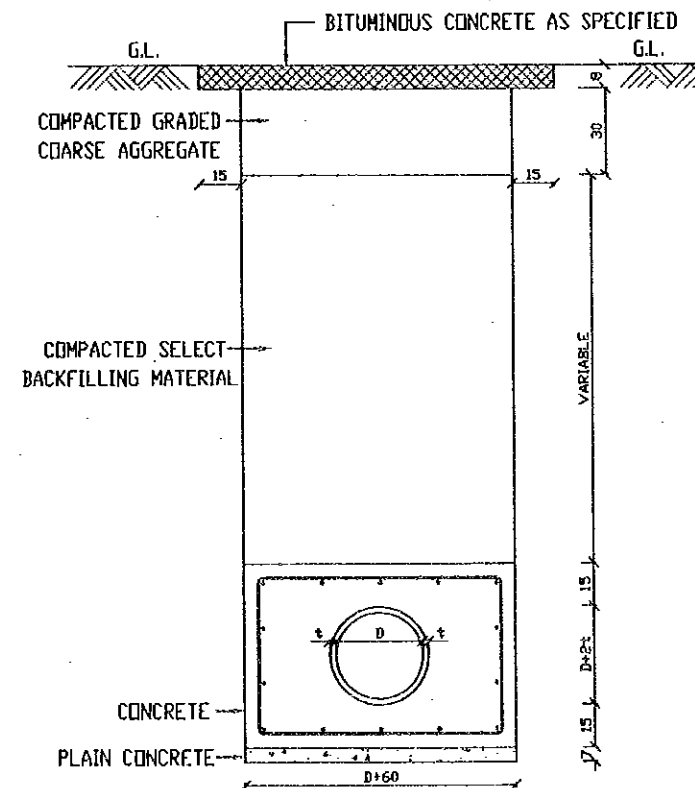
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TYPICAL TRENCH CROSS SECTION
(PIPE ALONG A DIRT ROAD)
NOT TO SCALE



TYPICAL TRENCH CROSS SECTION
(PIPE CROSSING A PAVED ROAD)
NOT TO SCALE



TYPICAL TRENCH CROSS SECTION
(PIPE ENCASED WITH CONCRETE)
NOT TO SCALE

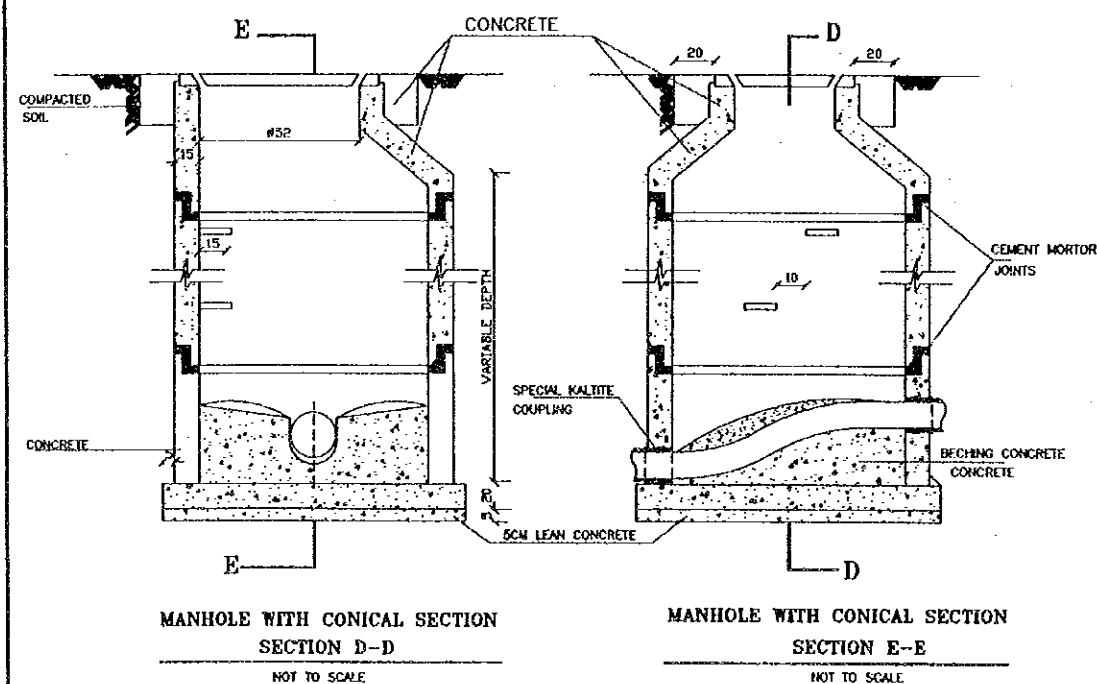
FIG 3

Types of Sewer Beddings

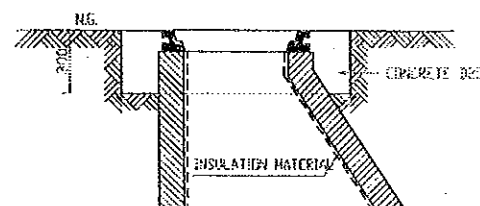
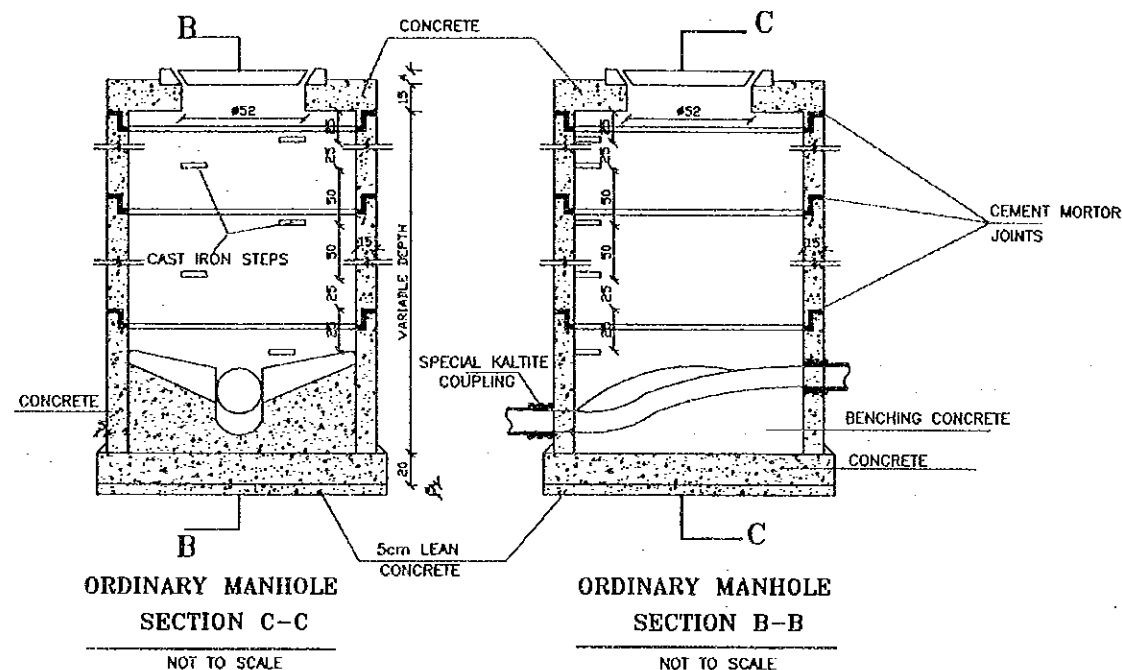
THE STUDY
ON SEWERAGE DEVELOPMENT PLAN
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IN PALESTINIAN INTERIM
SELF-GOVERNMENT AUTHORITY



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PRECAST MANHOLE
TYPE "1,2,3"
NOT TO SCALE



MANHOLE TYPE	PIPE DIAMETER (mm)	M.H. INTERNAL DIAMETER (cm)
TYPE1	< 600	100
TYPE2	< 900	125
TYPE3	<1200	150
TYPE4	<1500	180*150
TYPE5	<1800	210*210

DIMENSIONS FOR TYPE "1-5" MANHOLE

FIG 4

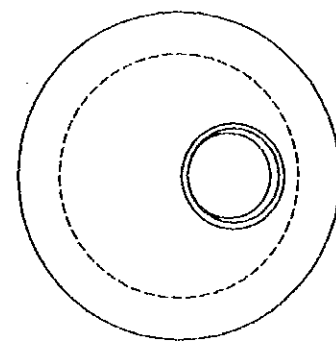
Precast Sewer Manhole Types "1,2,3"

THE STUDY
ON SEWERAGE DEVELOPMENT PLAN
IN THE AREA OF KHAN YUNIS
IN PALESTINIAN INTERIM
SELF-GOVERNMENT AUTHORITY

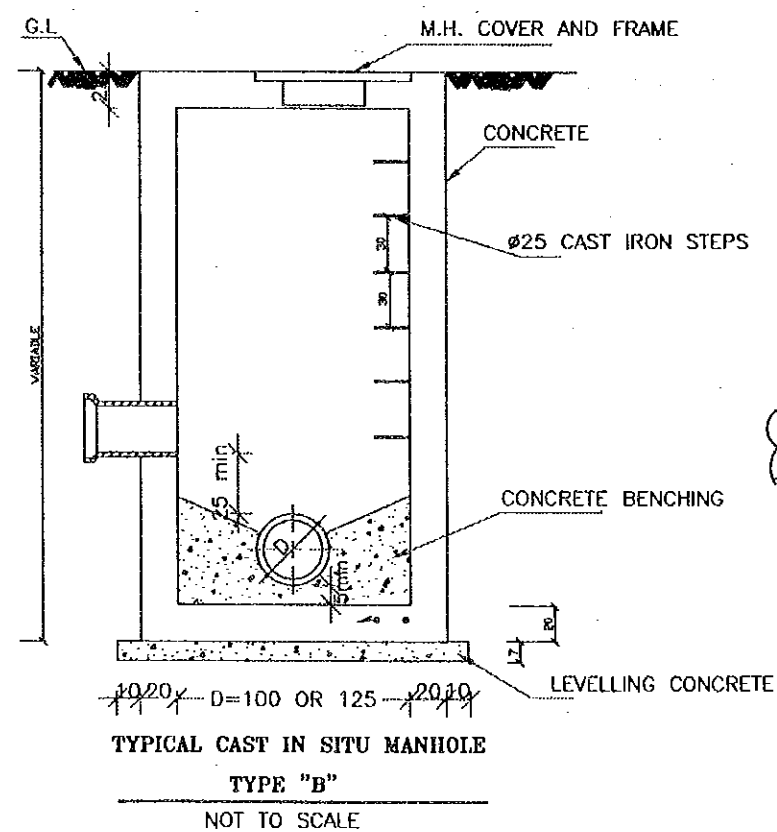
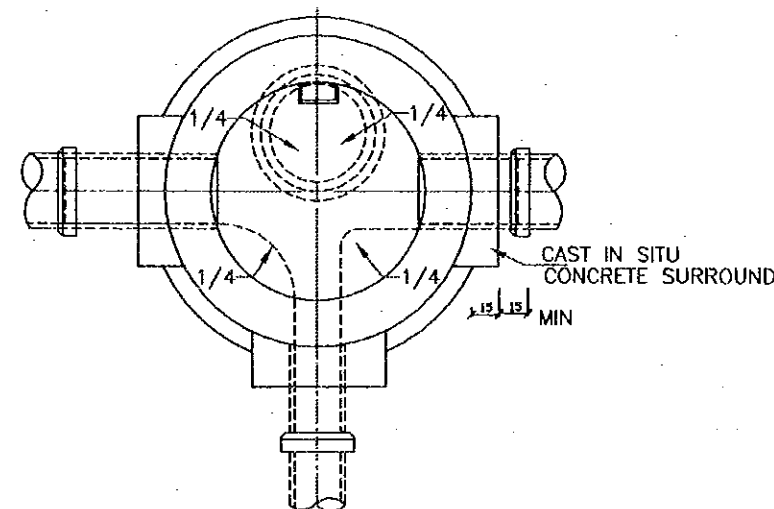


JAPAN INTERNATIONAL COOPERATION AGENCY

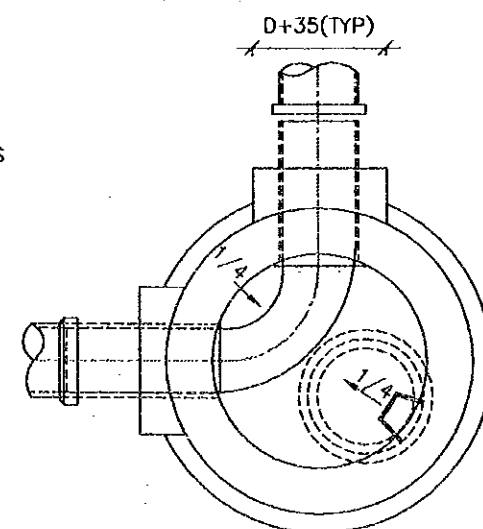
AD 1097



CEILING REINFORCEMENT DETAIL
NOT TO SCALE



TYPICAL CAST IN SITU MANHOLE
TYPE "B"
NOT TO SCALE



TYPICAL PLANS M.H. BENCHING
NOT TO SCALE

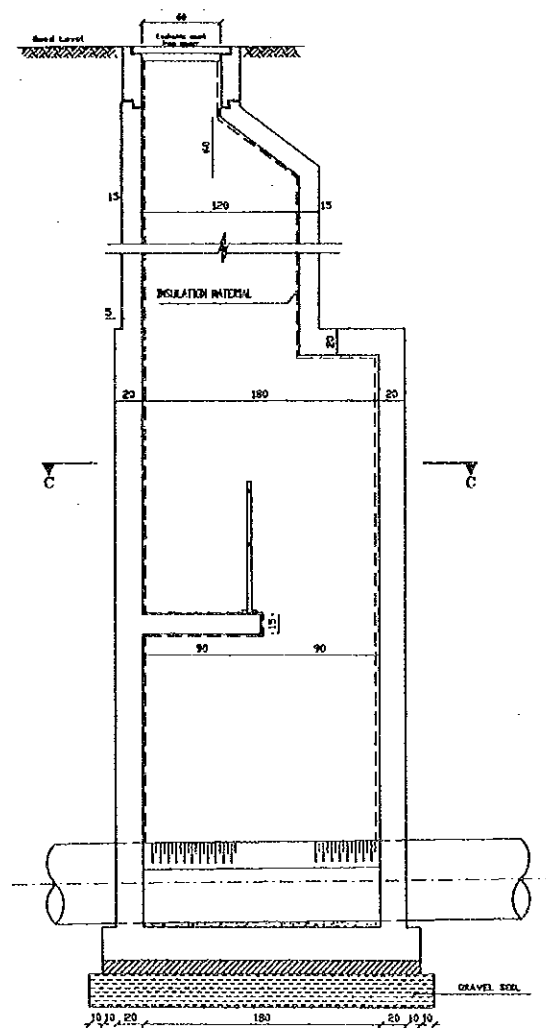
FIG 5

Typical Cast in Situ Sewer Manhole
Type "B"

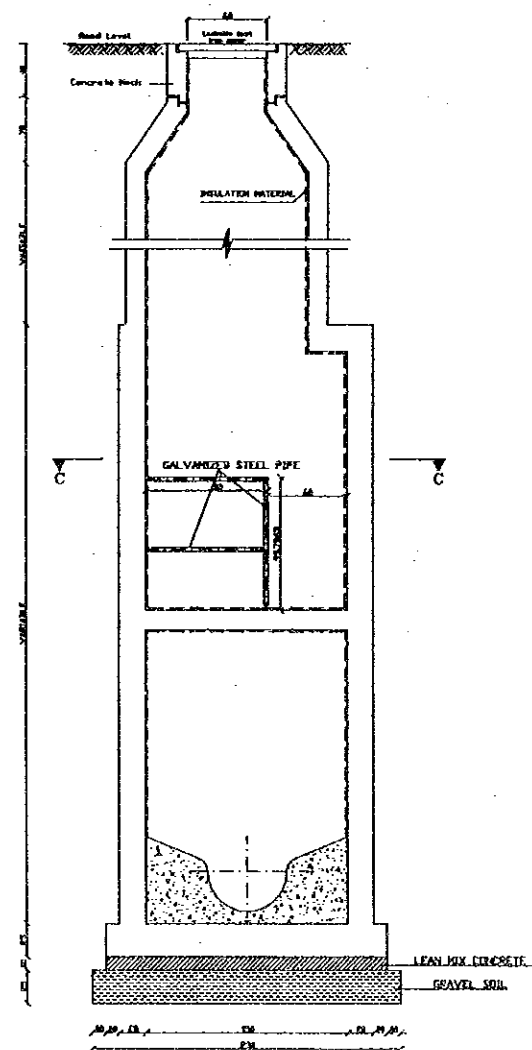
THE STUDY
ON SEWERAGE DEVELOPMENT PLAN
IN THE AREA OF KHAN YUNIS
IN PALESTINIAN INTERIM
SELF-GOVERNMENT AUTHORITY



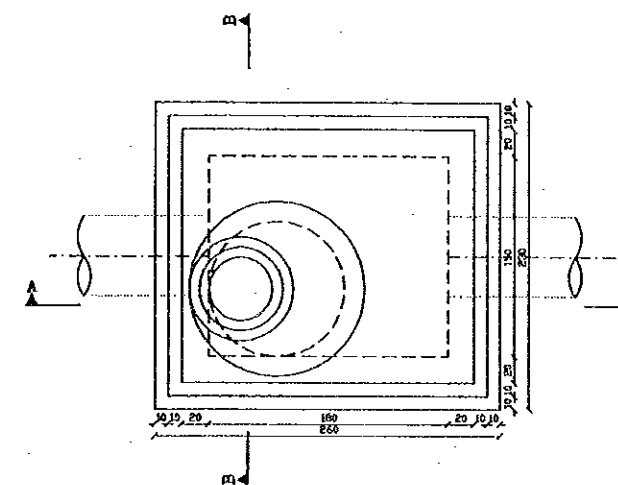
JAPAN INTERNATIONAL COOPERATION AGENCY
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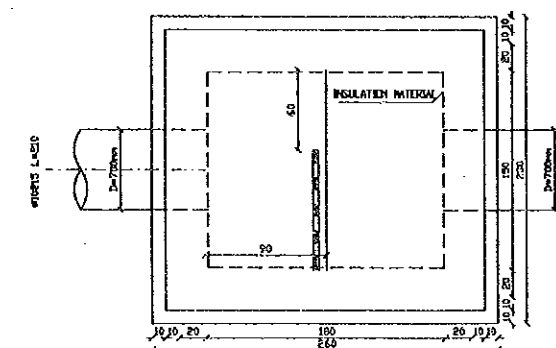
SECTION A-A
Non Scale



SECTION B-B
Non Scale



Non Scale



SECTION C-C
Non Scale

FIG 6

Typical Deep Sewer Manhole

THE STUDY
ON SEWERAGE DEVELOPMENT PLAN
IN THE AREA OF KHAN YUNIS
IN PALESTINIAN INTERIM
SELF-GOVERNMENT AUTHORITY



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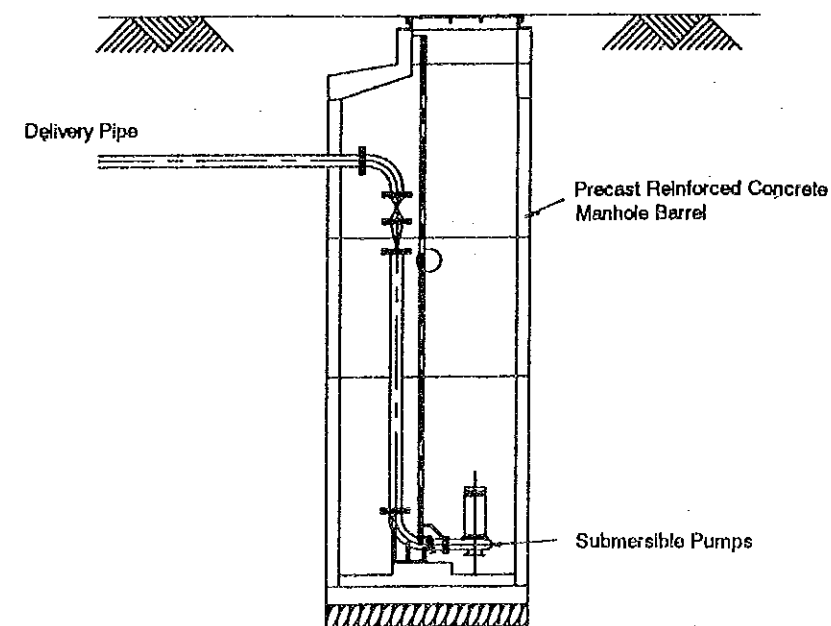
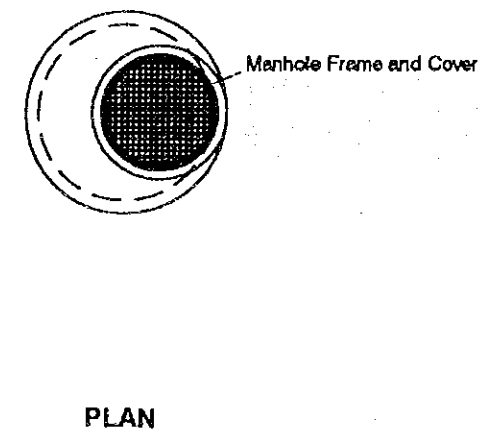
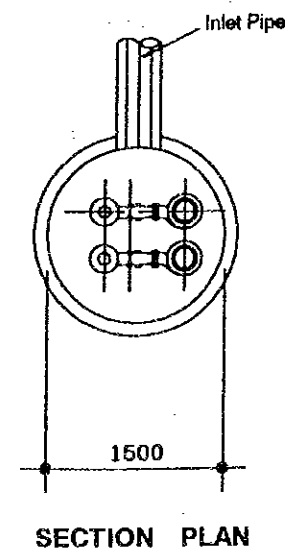


FIG 7

Submersible Manhole Type
Pumping Unit

THE STUDY
ON SEWERAGE DEVELOPMENT PLAN
IN THE AREA OF KHAN YUNIS
IN PALESTINIAN INTERIM
SELF-GOVERNMENT AUTHORITY



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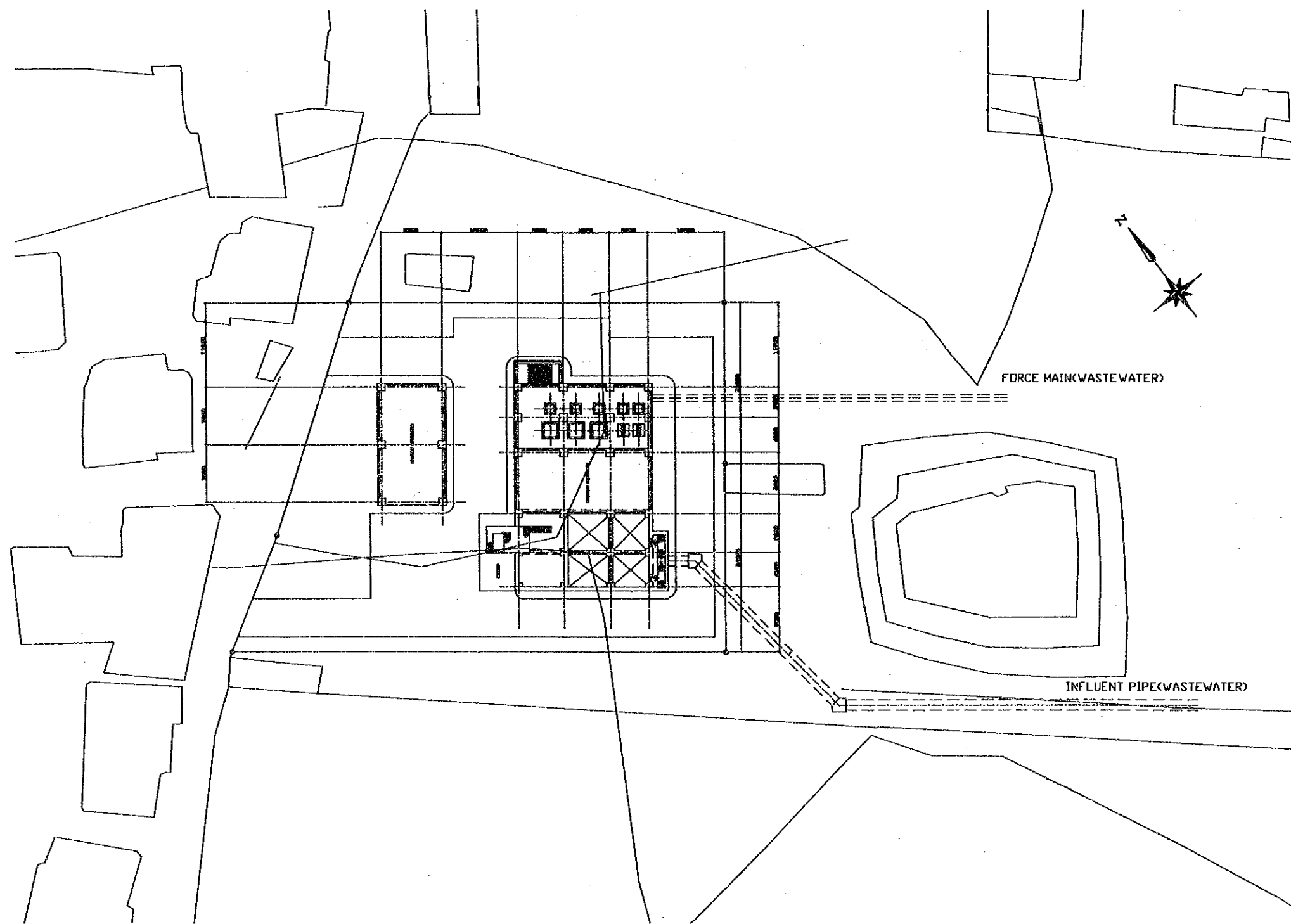


FIG 8

PST3 Wastewater Pumping Station
Layout Plan

THE STUDY
ON SEWERAGE DEVELOPMENT PLAN
IN THE AREA OF KHAN YUNIS
IN PALESTINIAN INTERIM
SELF-GOVERNMENT AUTHORITY



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STRUCTURAL DRAWING OF PUMPING STATION NO.3 1/2

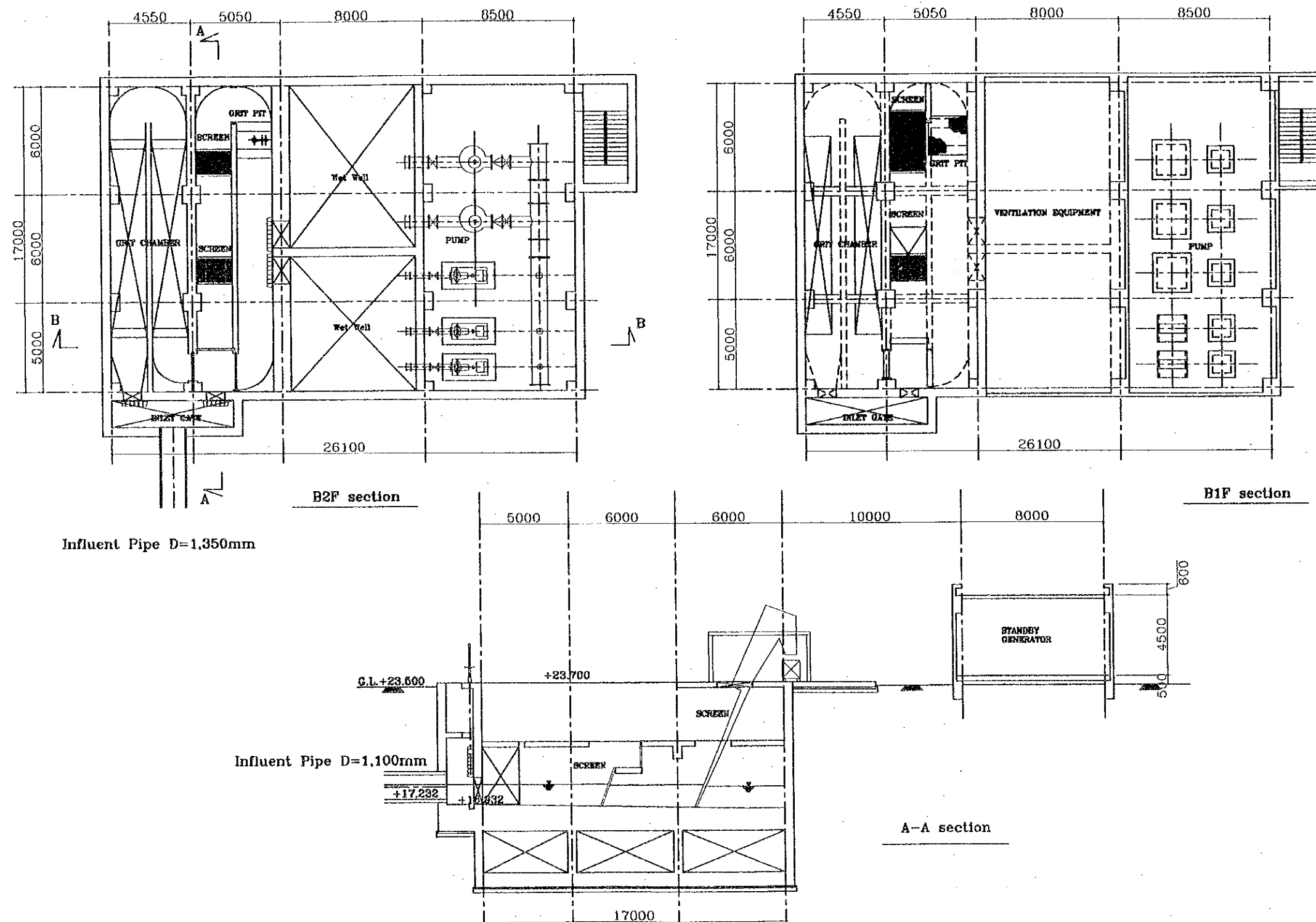


FIG 9

PST3 Wastewater Pumping Station
Plans and Sections

THE STUDY
ON SEWERAGE DEVELOPMENT PLAN
IN THE AREA OF KHAN YUNIS
IN PALESTINIAN INTERIM
SELF-GOVERNMENT AUTHORITY



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STRUCTURAL DRAWING OF PUMPING STATION NO.3 2/2

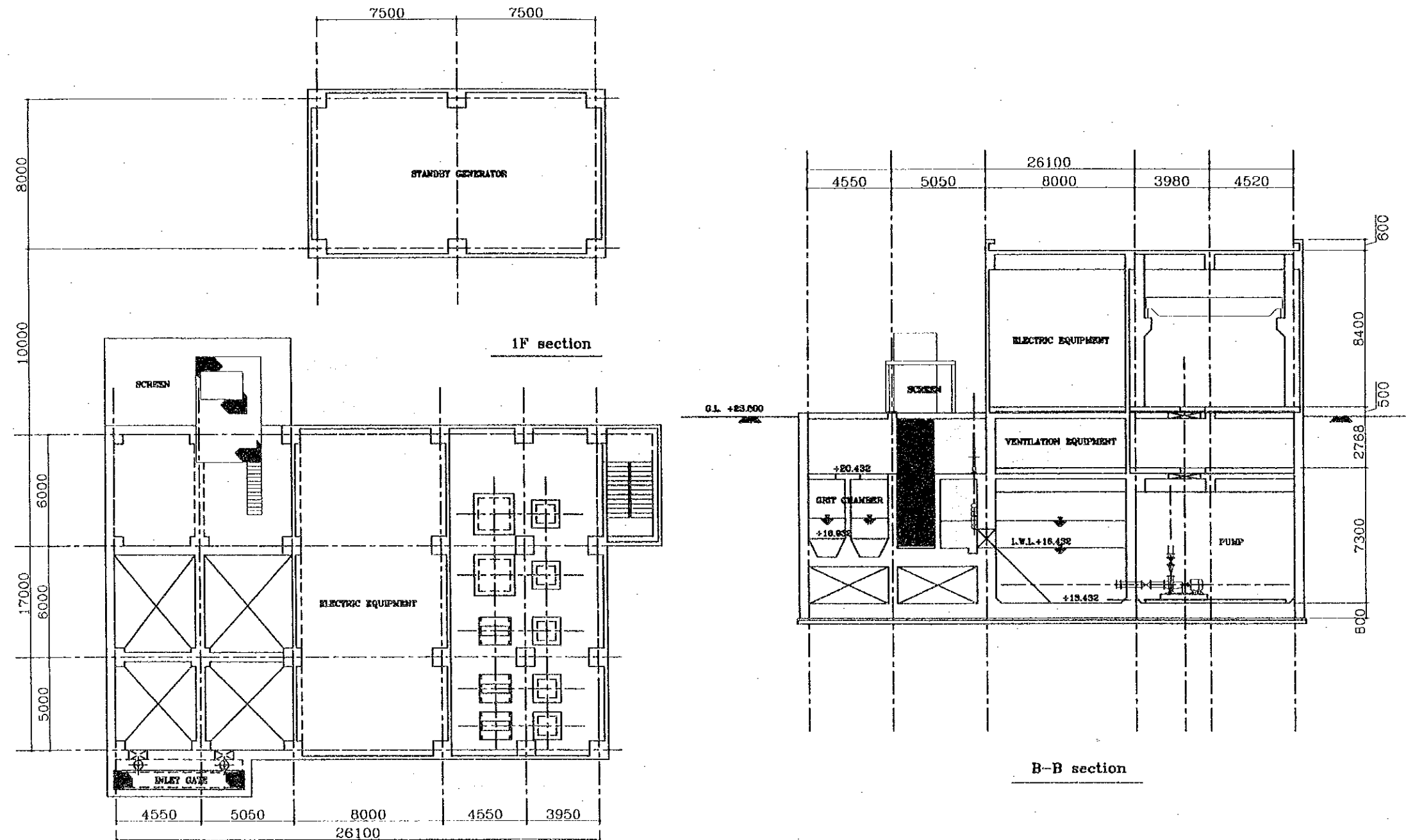


FIG 10

PST3 Wastewater Pumping Station
Plans and Sections

THE STUDY
ON SEWERAGE DEVELOPMENT PLAN
IN THE AREA OF KHAN YUNIS
IN PALESTINIAN INTERIM
SELF-GOVERNMENT AUTHORITY



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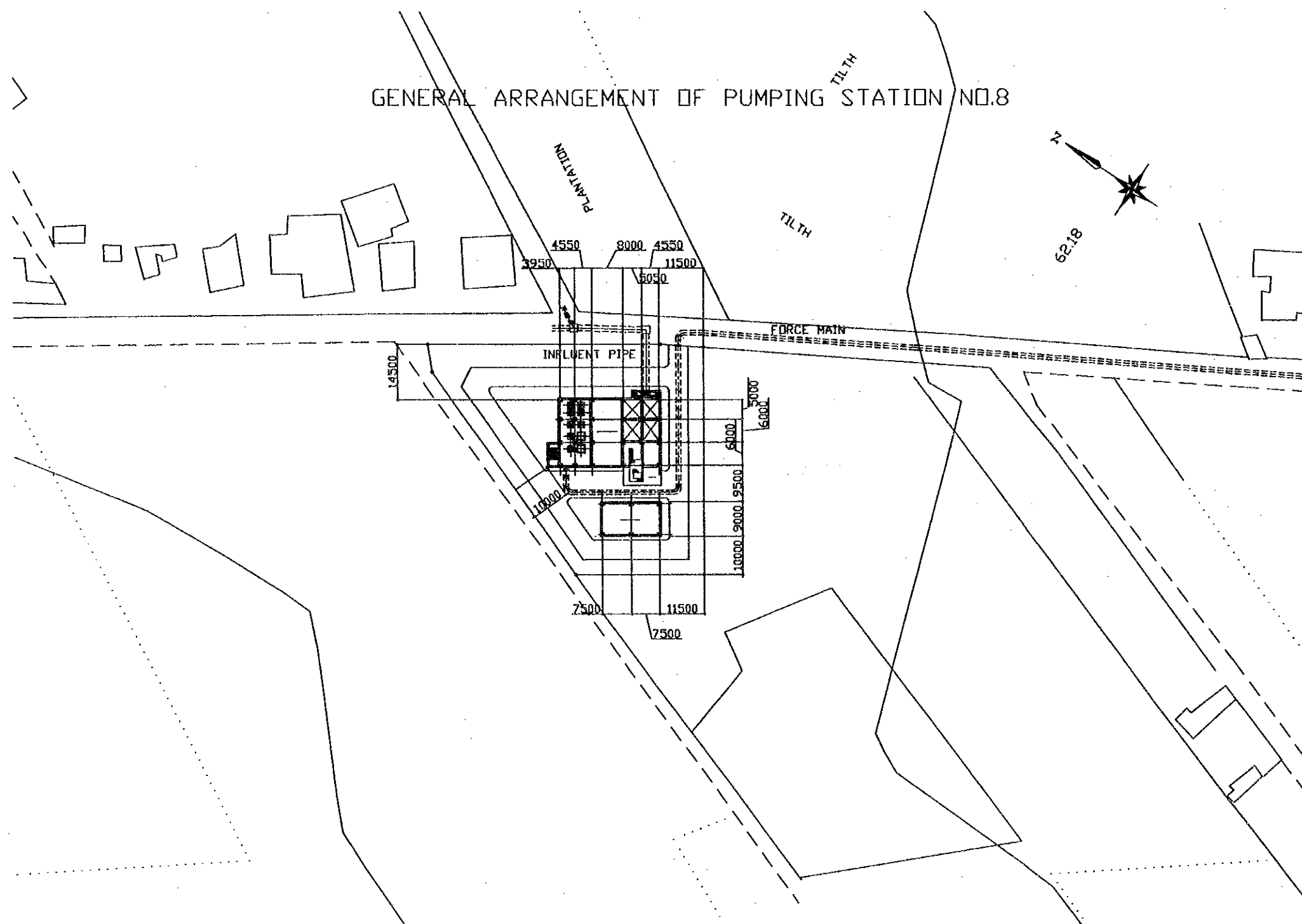


FIG 11

PST8 Wastewater Pumping Station
Layout Plan

THE STUDY
ON SEWERAGE DEVELOPMENT PLAN
IN THE AREA OF KHAN YUNIS
IN PALESTINIAN INTERIM
SELF-GOVERNMENT AUTHORITY



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STRUCTURAL DRAWING OF PUMPING STATION NO.8 1/2

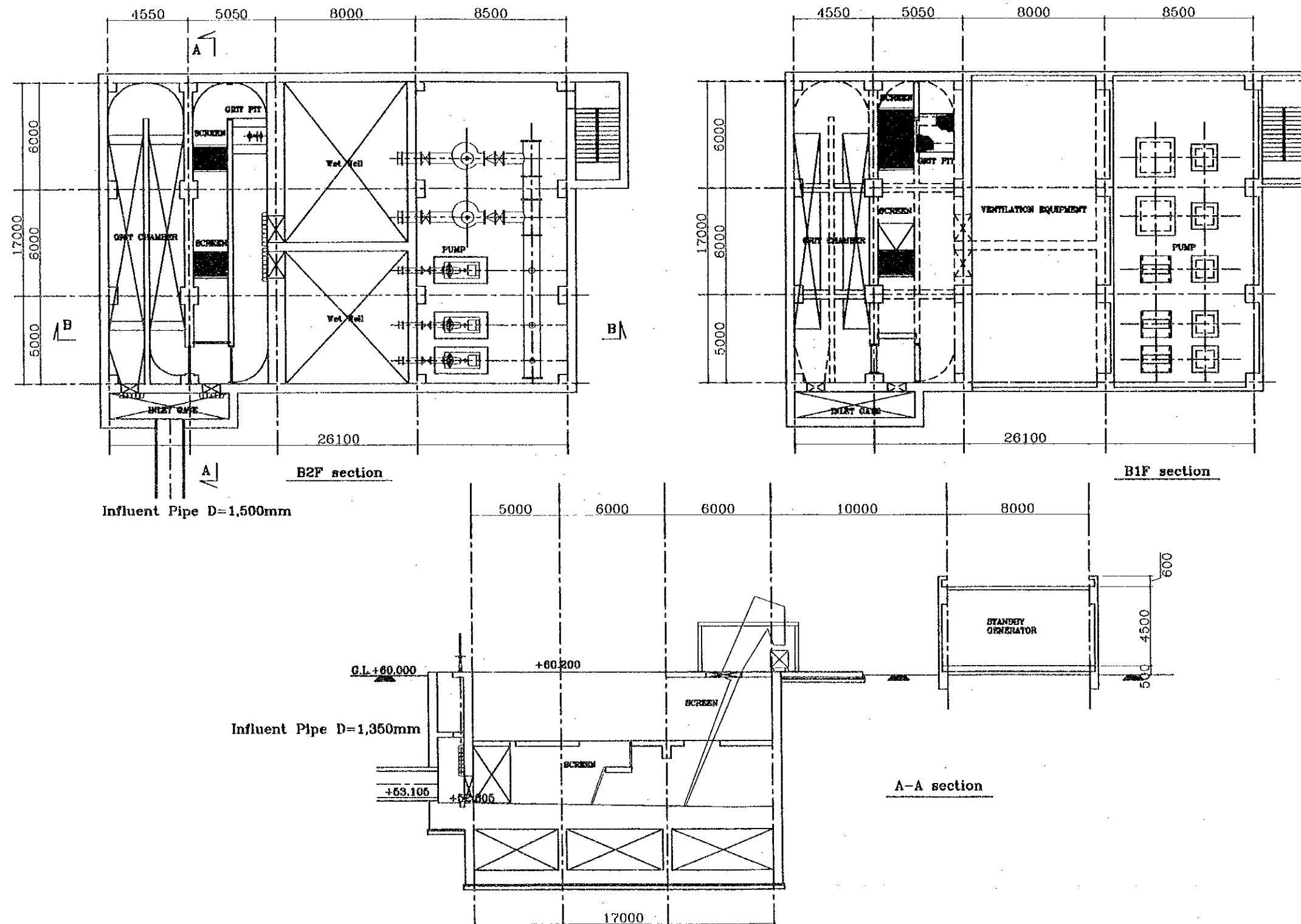


FIG 12

PST8 Wastewater Pumping Station
Plans and Sections

THE STUDY
ON SEWERAGE DEVELOPMENT PLAN
IN THE AREA OF KHAN YUNIS
IN PALESTINIAN INTERIM
SELF-GOVERNMENT AUTHORITY



JAPAN INTERNATIONAL COOPERATION AGENCY
AD 1997

STRUCTURAL DRAWING OF PUMPING STATION NO.8 2/2

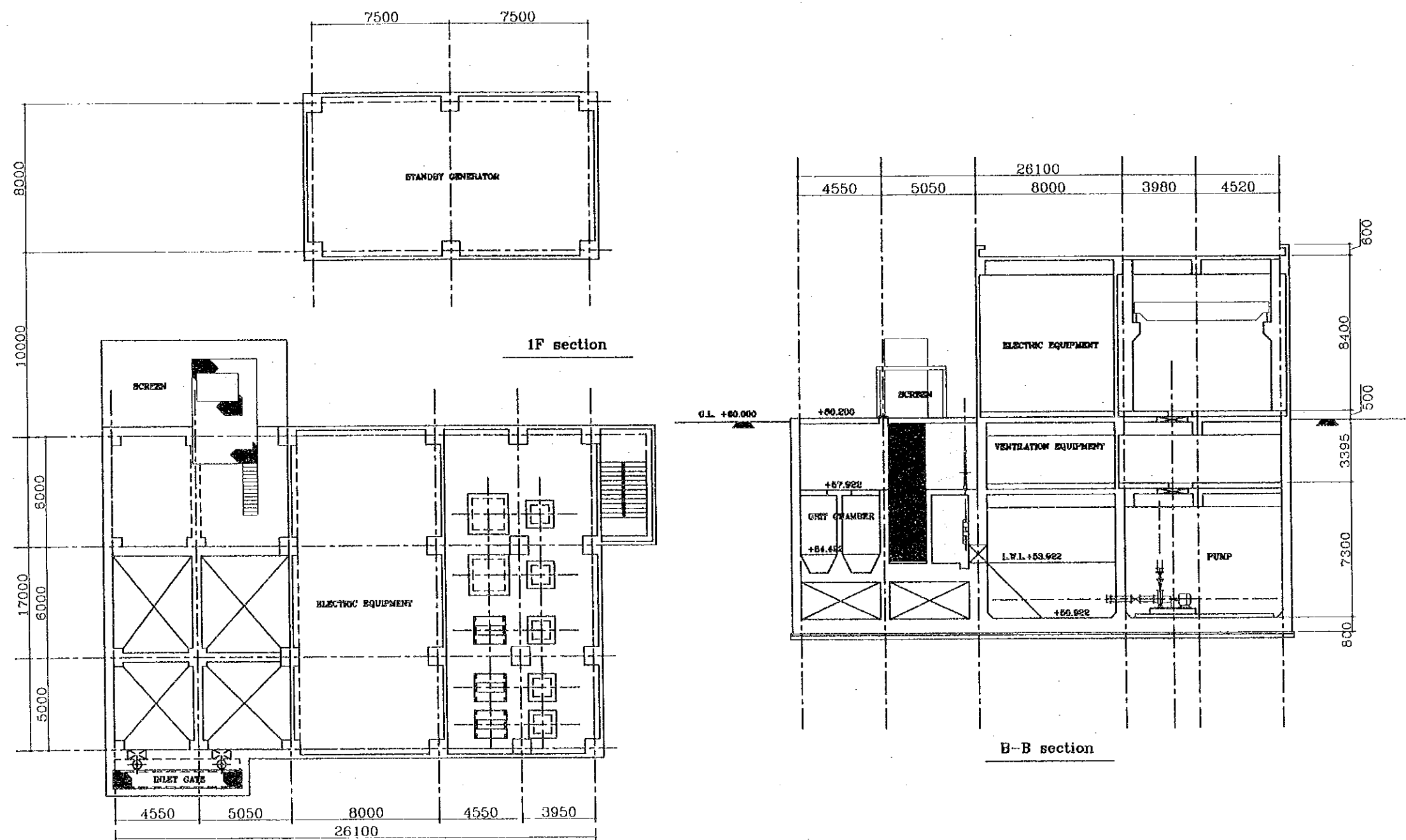


FIG 13

PST8 Wastewater Pumping Station
Plans and Sections

THE STUDY
ON SEWERAGE DEVELOPMENT PLAN
IN THE AREA OF KHAN YUNIS
IN PALESTINIAN INTERIM
SELF-GOVERNMENT AUTHORITY



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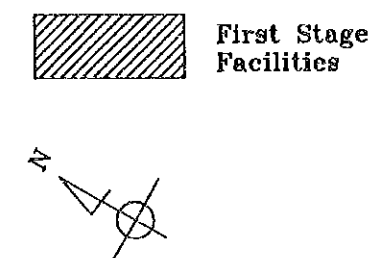
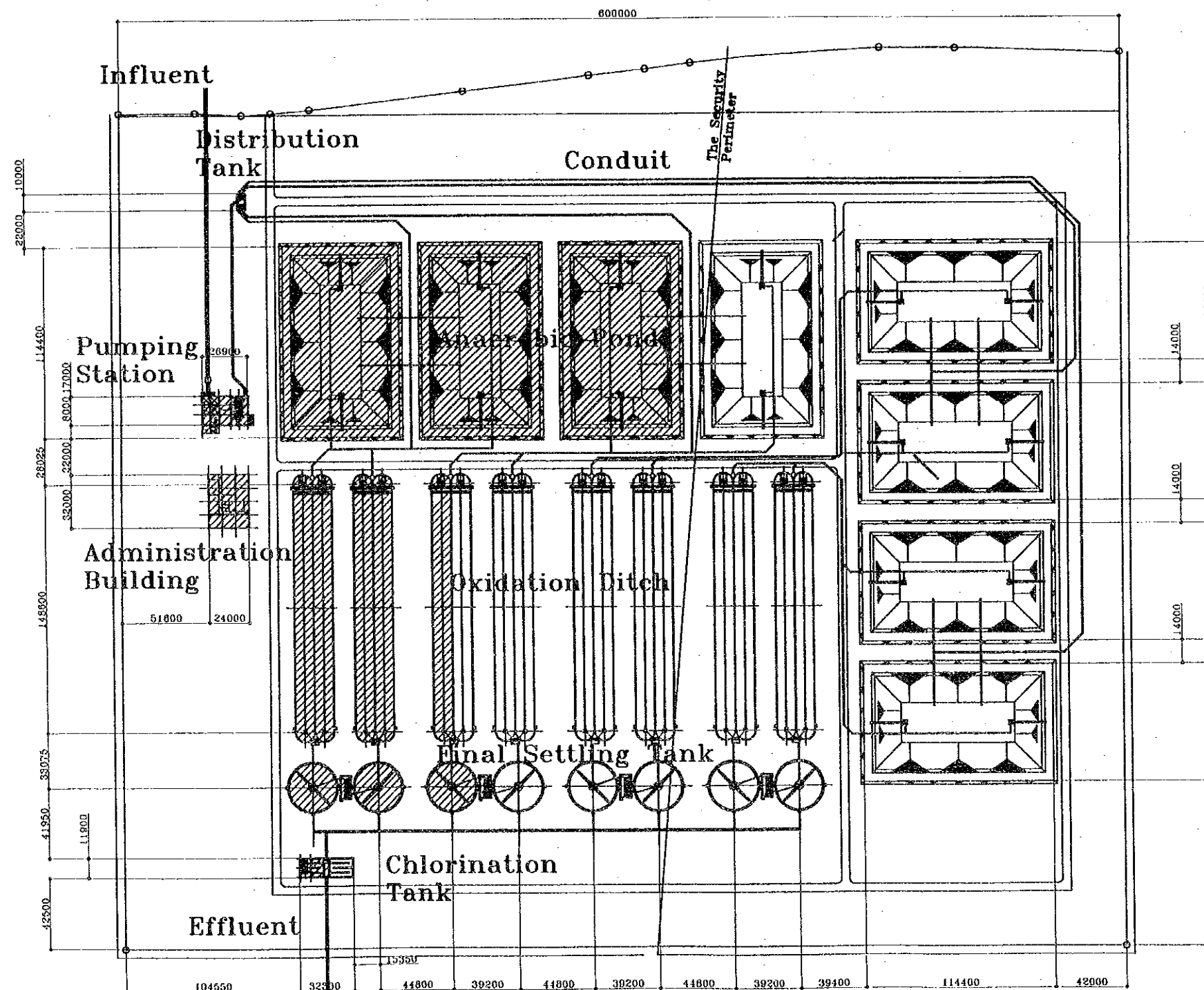


FIG 15

Wastewater Treatment Plant Layout

THE STUDY
ON SEWERAGE DEVELOPMENT PLAN
IN THE AREA OF KHAN YUNIS
IN PALESTINIAN INTERIM
SELF-GOVERNMENT AUTHORITY



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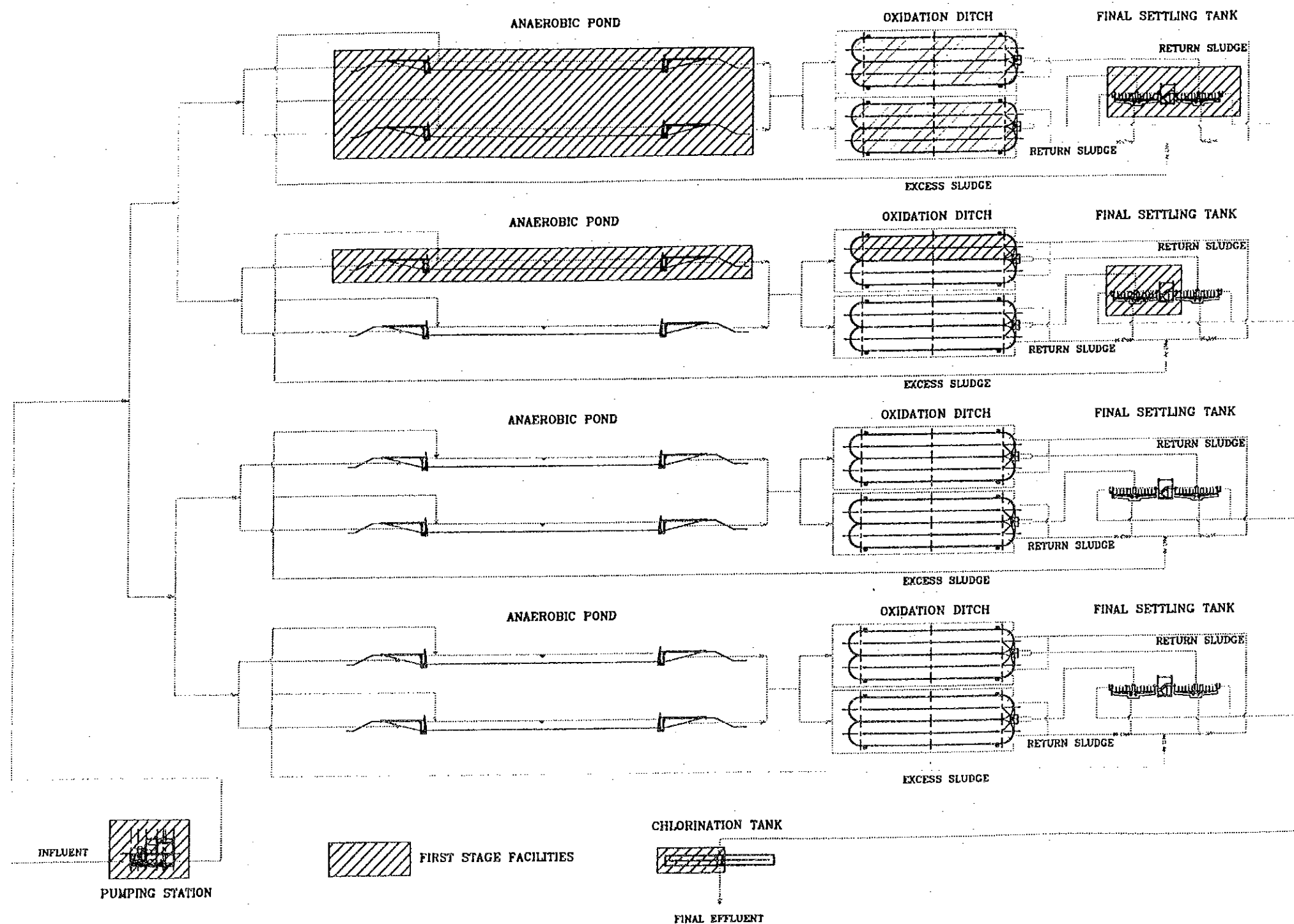


FIG 16

Wastewater Treatment Process Flow Diagram

THE STUDY
ON SEWERAGE DEVELOPMENT PLAN
IN THE AREA OF KHAN YUNIS
IN PALESTINIAN INTERIM
SELF-GOVERNMENT AUTHORITY



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WASTEWATER TREATMENT PLANT HYDRAULIC PROFILE

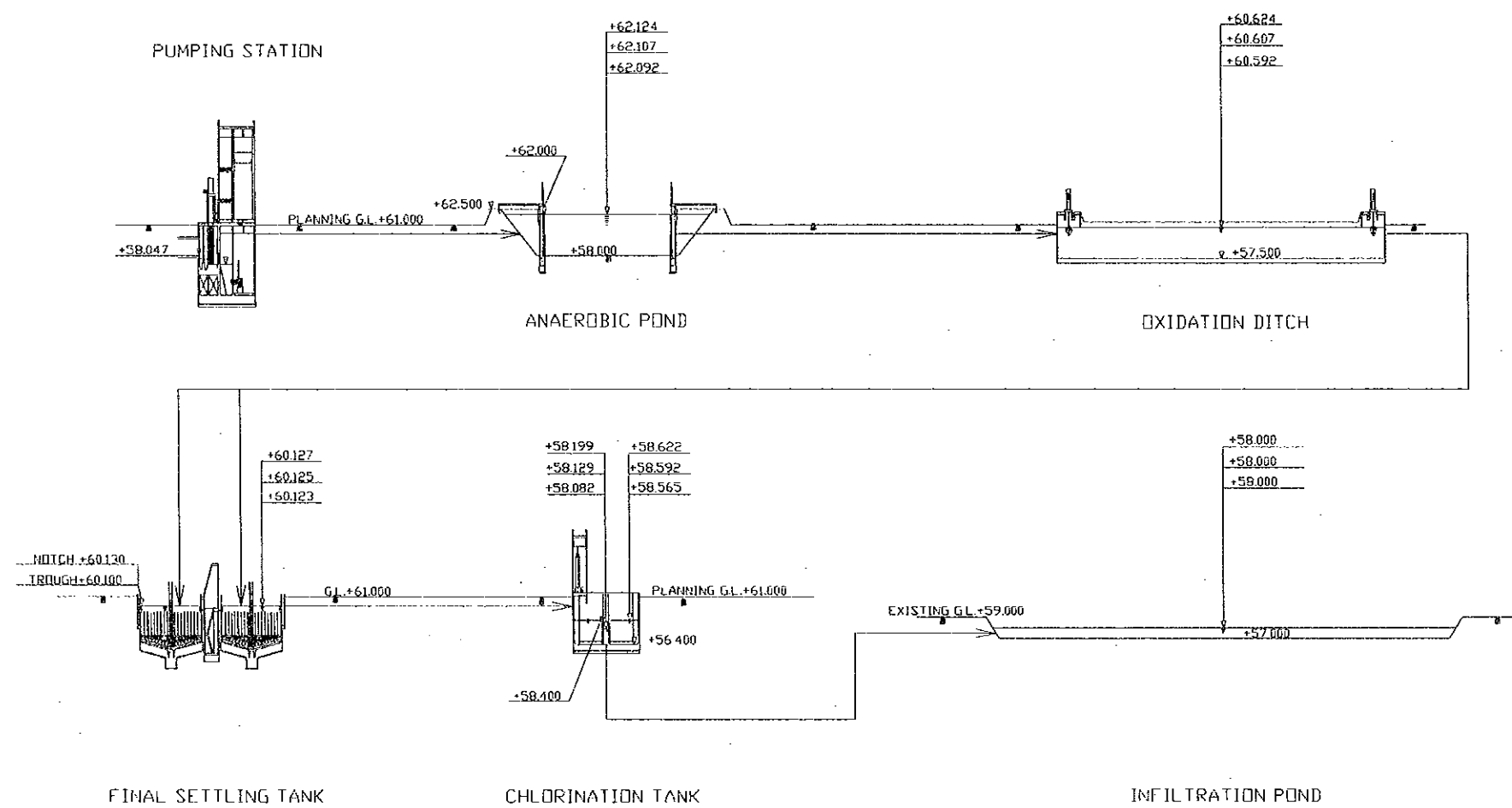


FIG 17

Wastewater Treatment Plant
Hydraulic Profile

THE STUDY
ON SEWERAGE DEVELOPMENT PLAN
IN THE AREA OF KHAN YUNIS
IN PALESTINIAN INTERIM
SELF-GOVERNMENT AUTHORITY



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STRUCTURAL DRAWING OF PUMPING STATION IN WASTEWATER TREATMENT PLANT

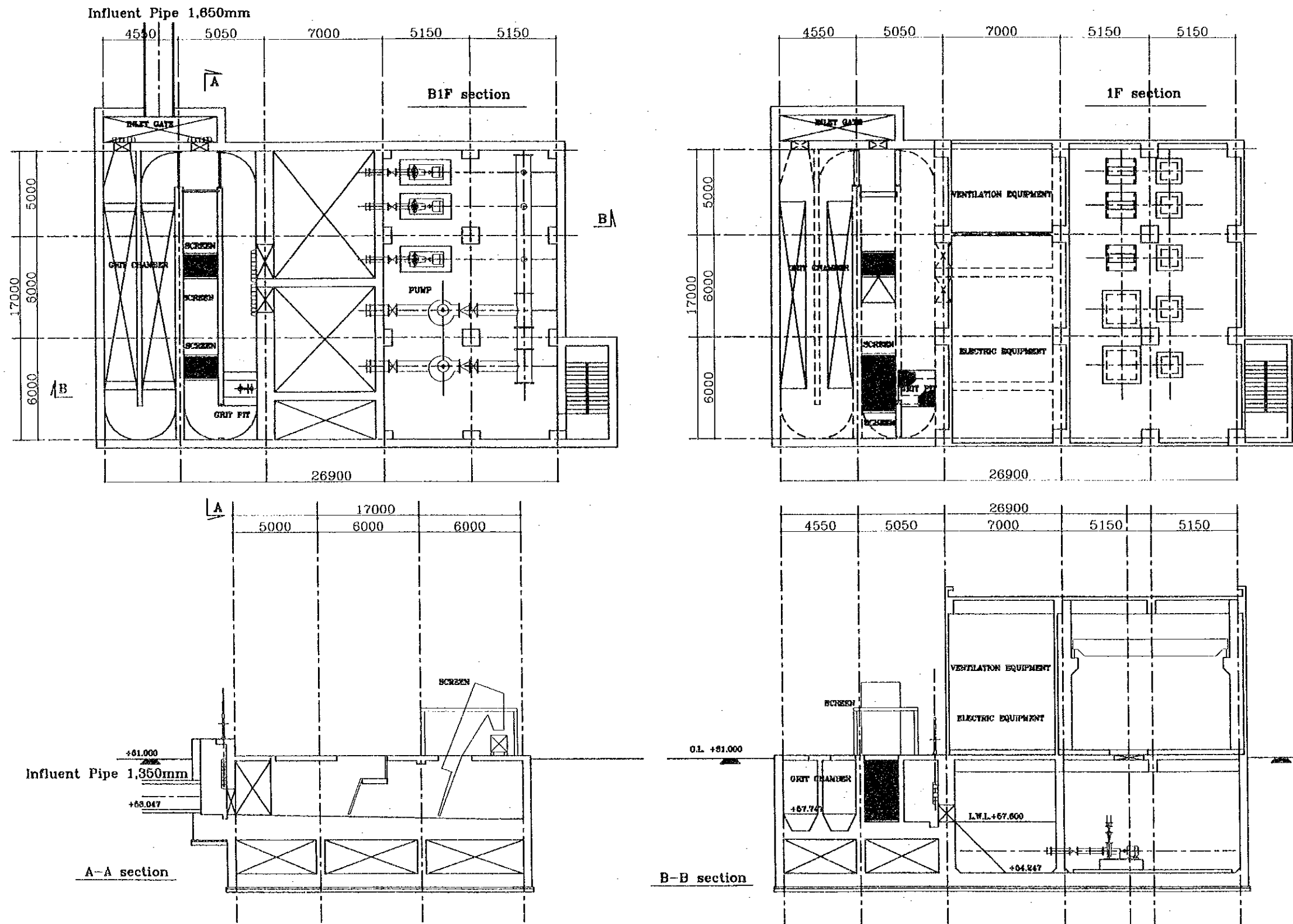


FIG 18

Wastewater Treatment Plant
Pumping Station

THE STUDY
ON SEWERAGE DEVELOPMENT PLAN
IN THE AREA OF KHAN YUNIS
IN PALESTINIAN INTERIM
SELF-GOVERNMENT AUTHORITY



JAPAN INTERNATIONAL COOPERATION AGENCY

AD 1997

STRUCTURAL DRAWING OF ANAEROBIC POND

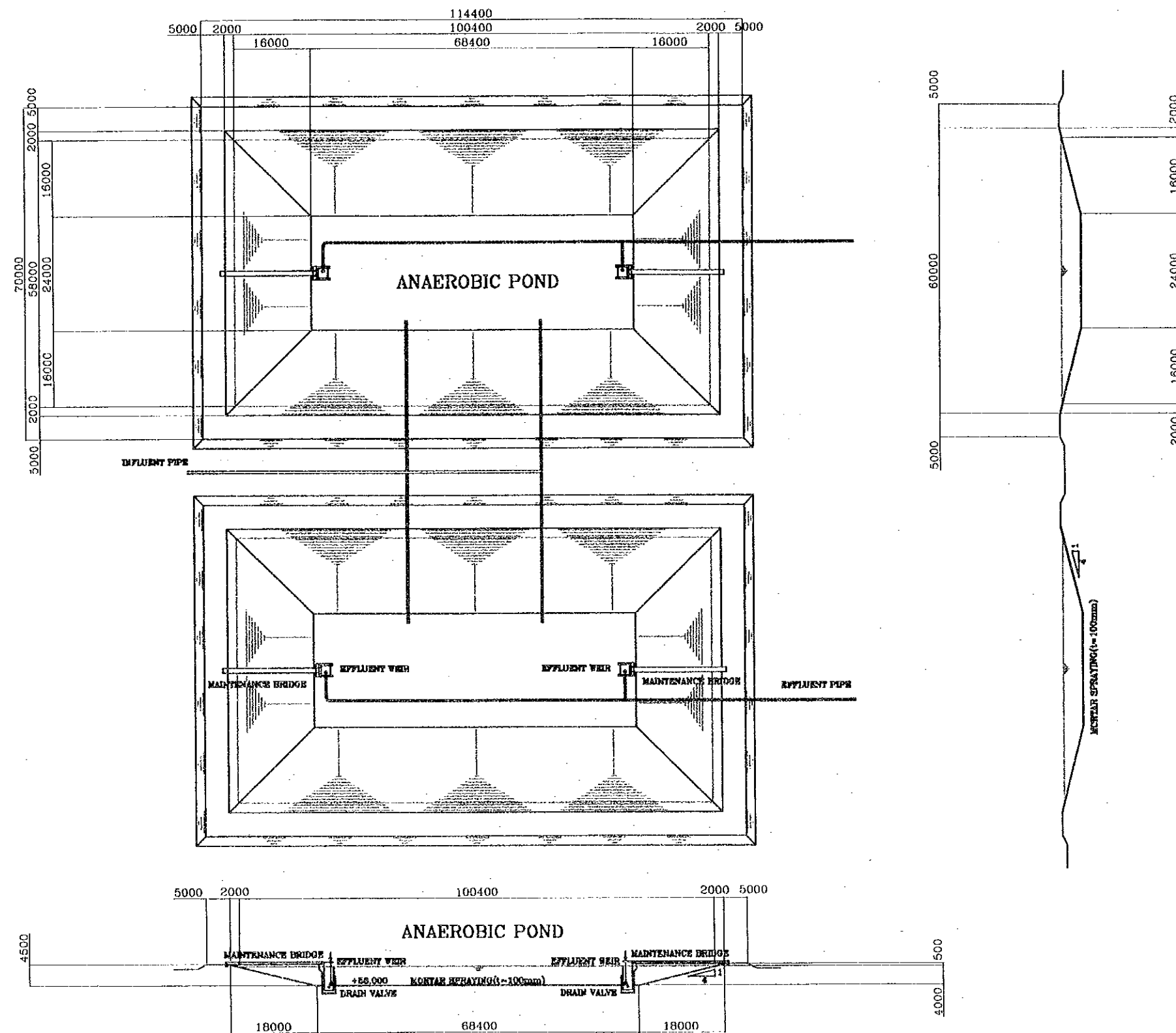


FIG 19

Wastewater Treatment Plant
Anaerobic Ponds

THE STUDY
ON SEWERAGE DEVELOPMENT PLAN
IN THE AREA OF KHAN YUNIS
IN PALESTINIAN INTERIM
SELF-GOVERNMENT AUTHORITY



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Wastewater Treatment Plant Oxidation Ditches



JAPAN INTERNATIONAL COOPERATION AGENCY
AD 1997

STRUCTURAL DRAWING OF CHLORINATION CHAMBER

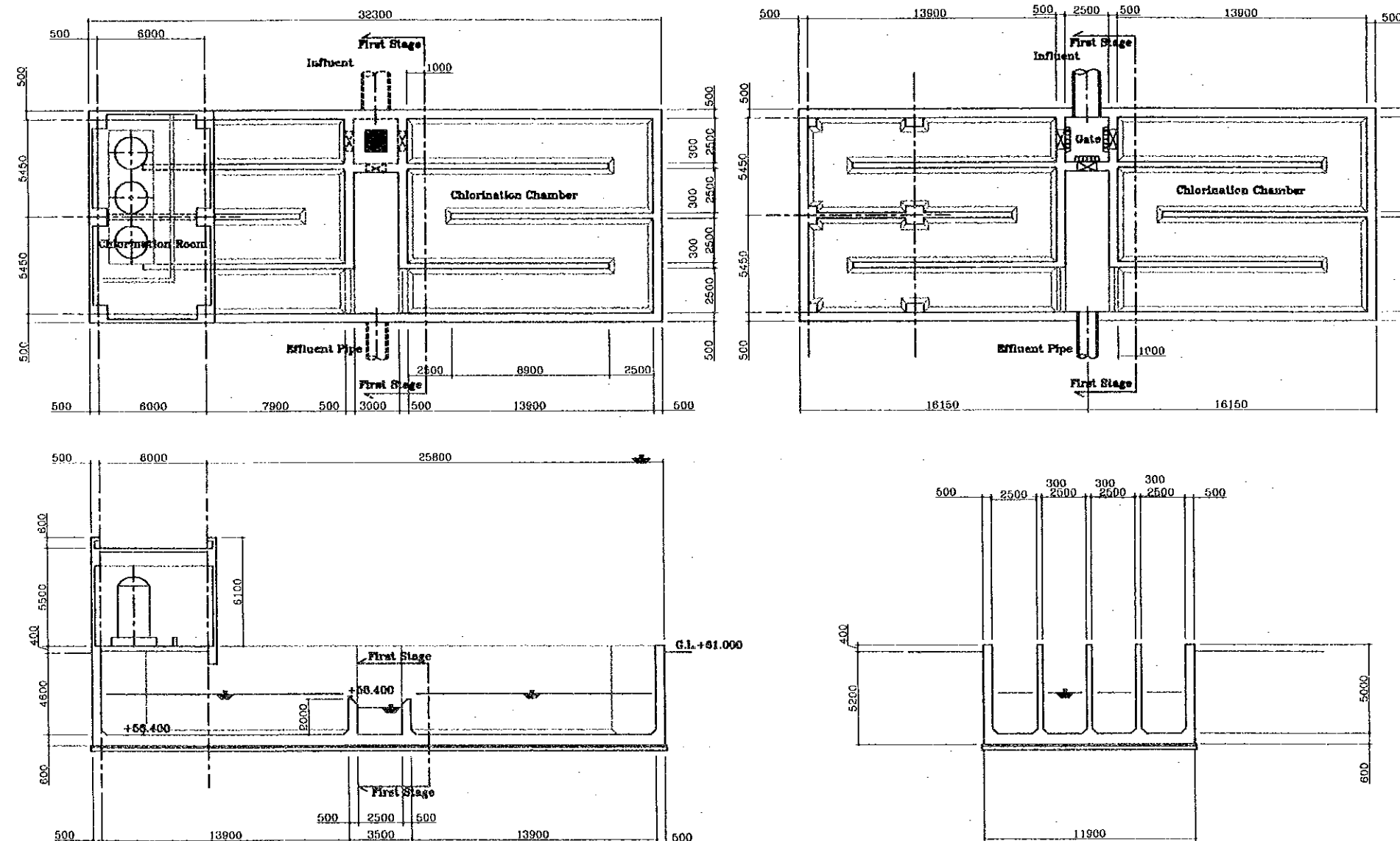


FIG 22

Wastewater Treatment Plant
Chlorine Contact Tanks

THE STUDY
ON SEWERAGE DEVELOPMENT PLAN
IN THE AREA OF KHAN YUNIS
IN PALESTINIAN INTERIM
SELF-GOVERNMENT AUTHORITY



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AD 1887

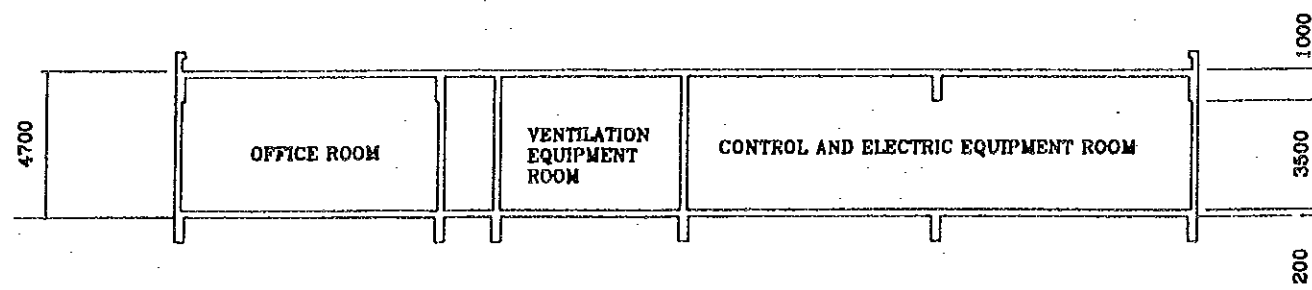
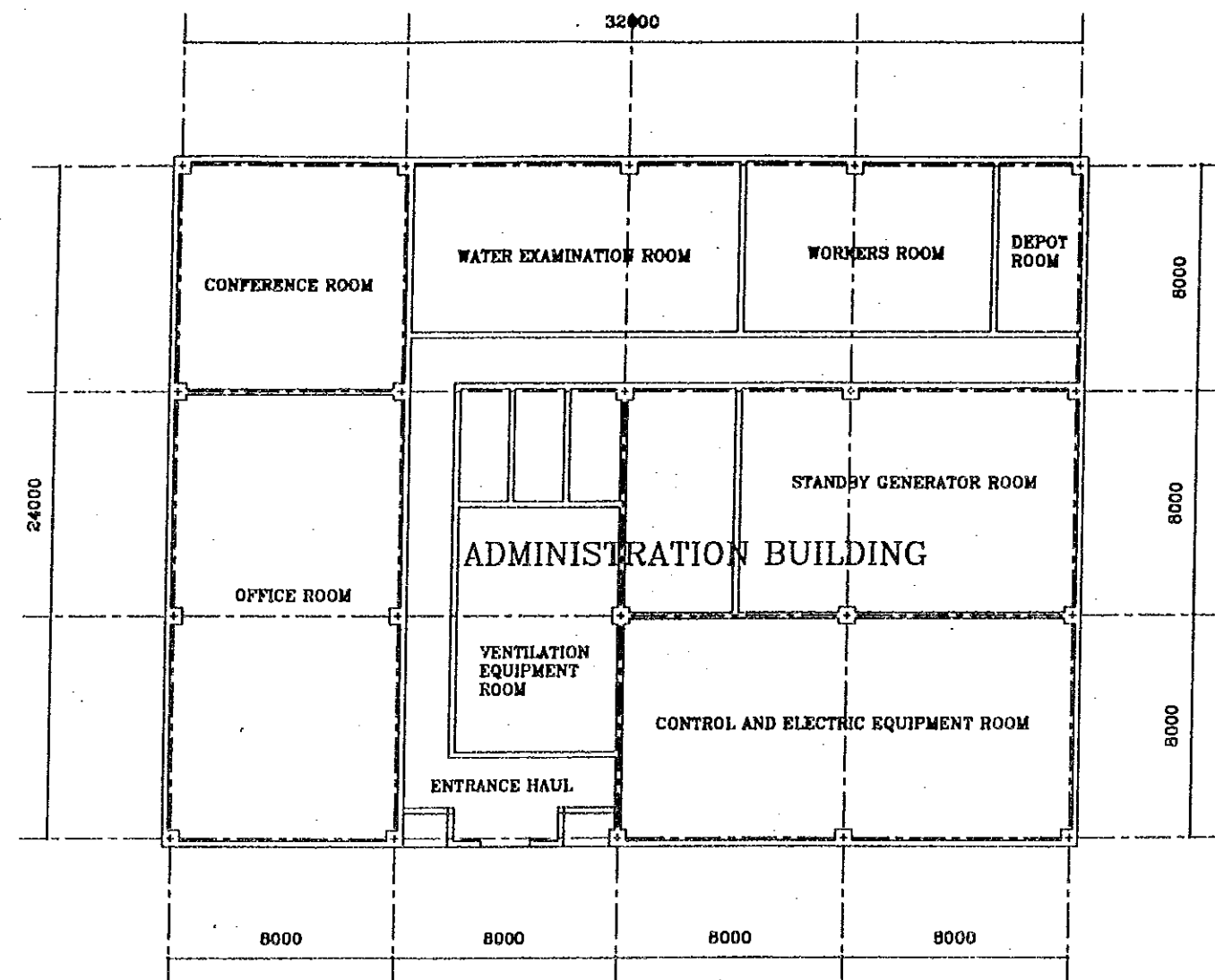


FIG 23

Wastewater Treatment Plant
Administration Building

THE STUDY
ON SEWERAGE DEVELOPMENT PLAN
IN THE AREA OF KHAN YUNIS
IN PALESTINIAN INTERIM
SELF-GOVERNMENT AUTHORITY



JAPAN INTERNATIONAL COOPERATION AGENCY

AD 1997

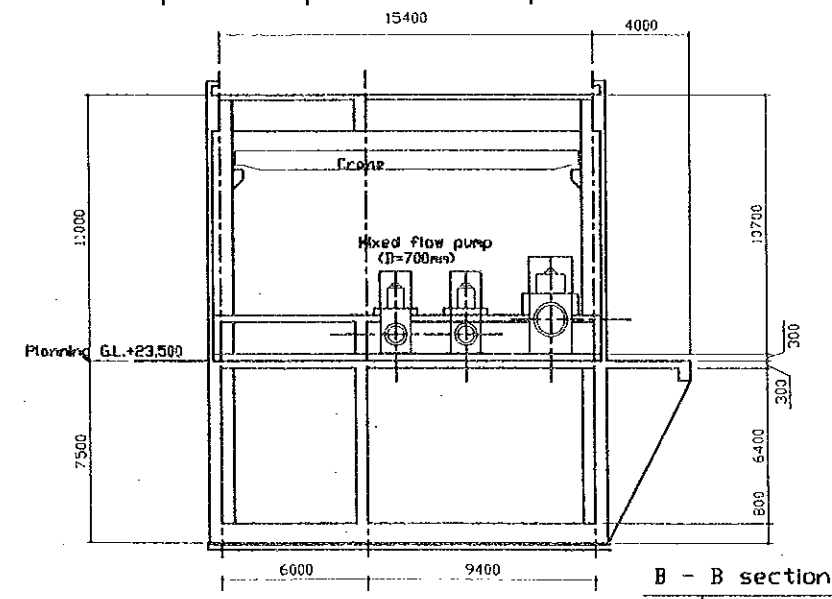
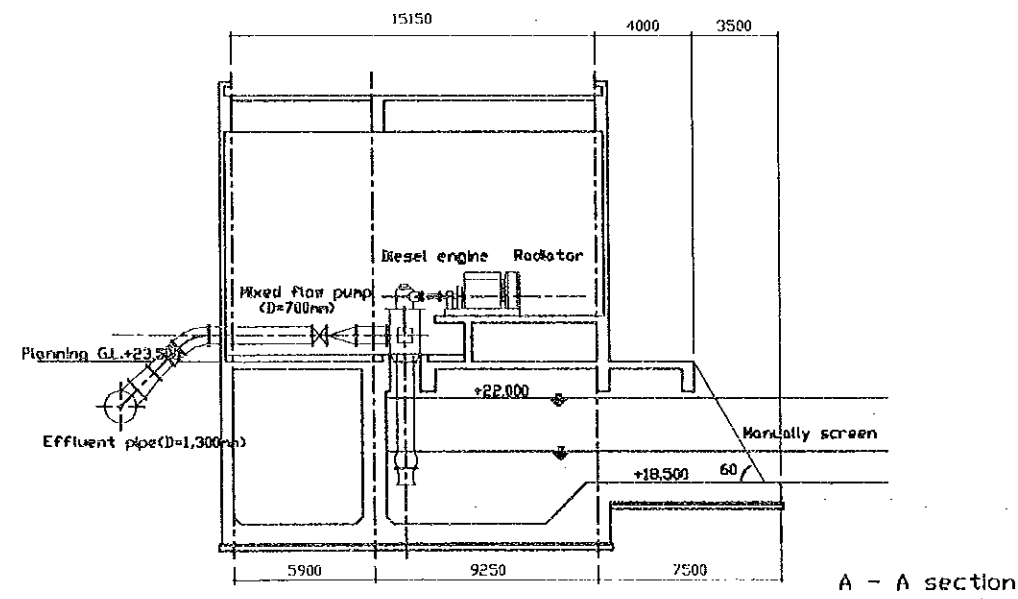
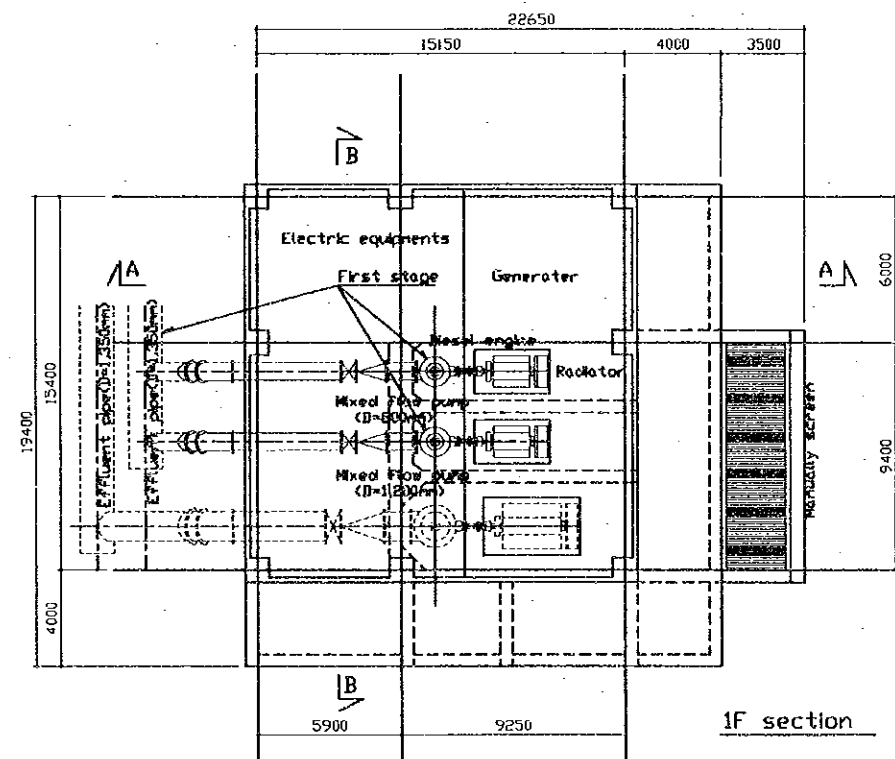
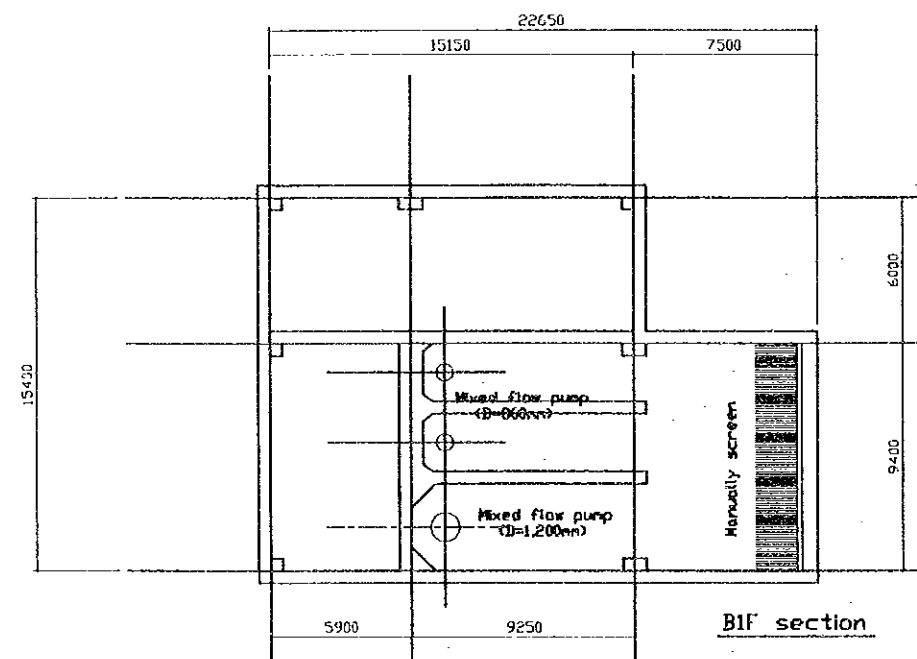


FIG 24

Stormwater Drainage Pumping Station

THE STUDY
ON SEWERAGE DEVELOPMENT PLAN
IN THE AREA OF KHAN YUNIS
IN PALESTINIAN INTERIM
SELF-GOVERNMENT AUTHORITY



JAPAN INTERNATIONAL COOPERATION AGENCY

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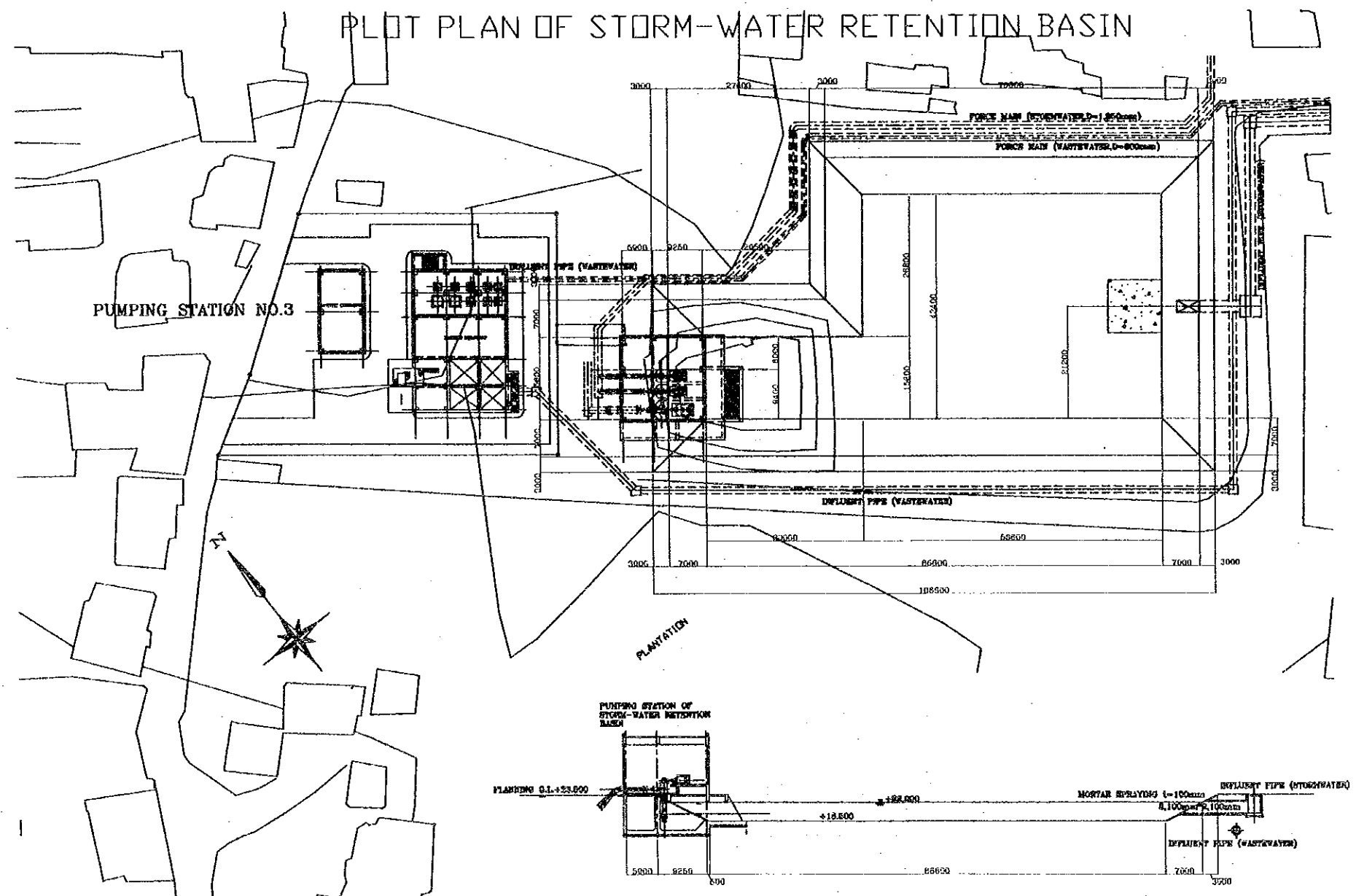


FIG 25

Stormwater Retention Basin

THE STUDY
ON SEWERAGE DEVELOPMENT PLAN
IN THE AREA OF KHAN YUNIS
IN PALESTINIAN INTERIM
SELF-GOVERNMENT AUTHORITY



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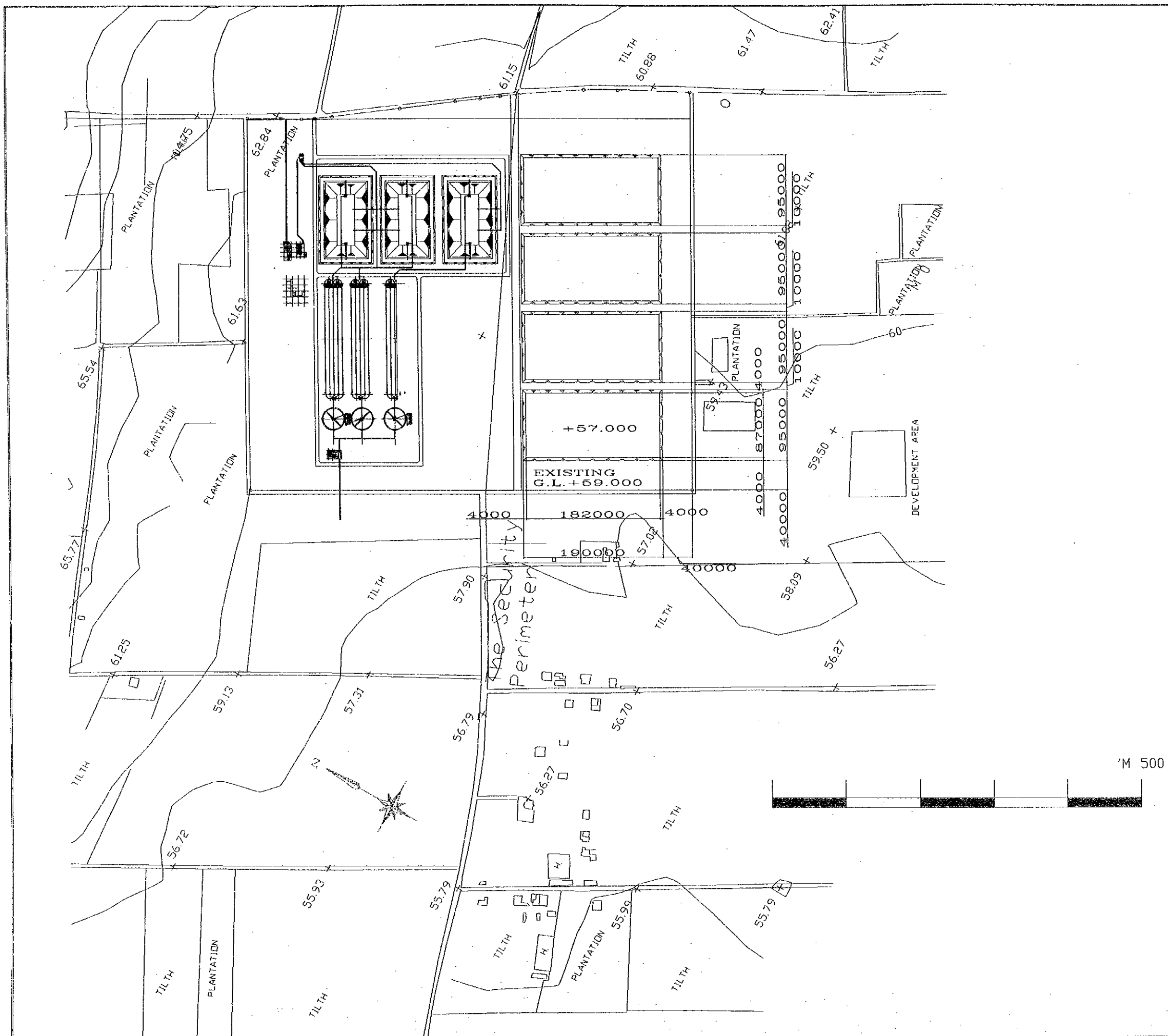


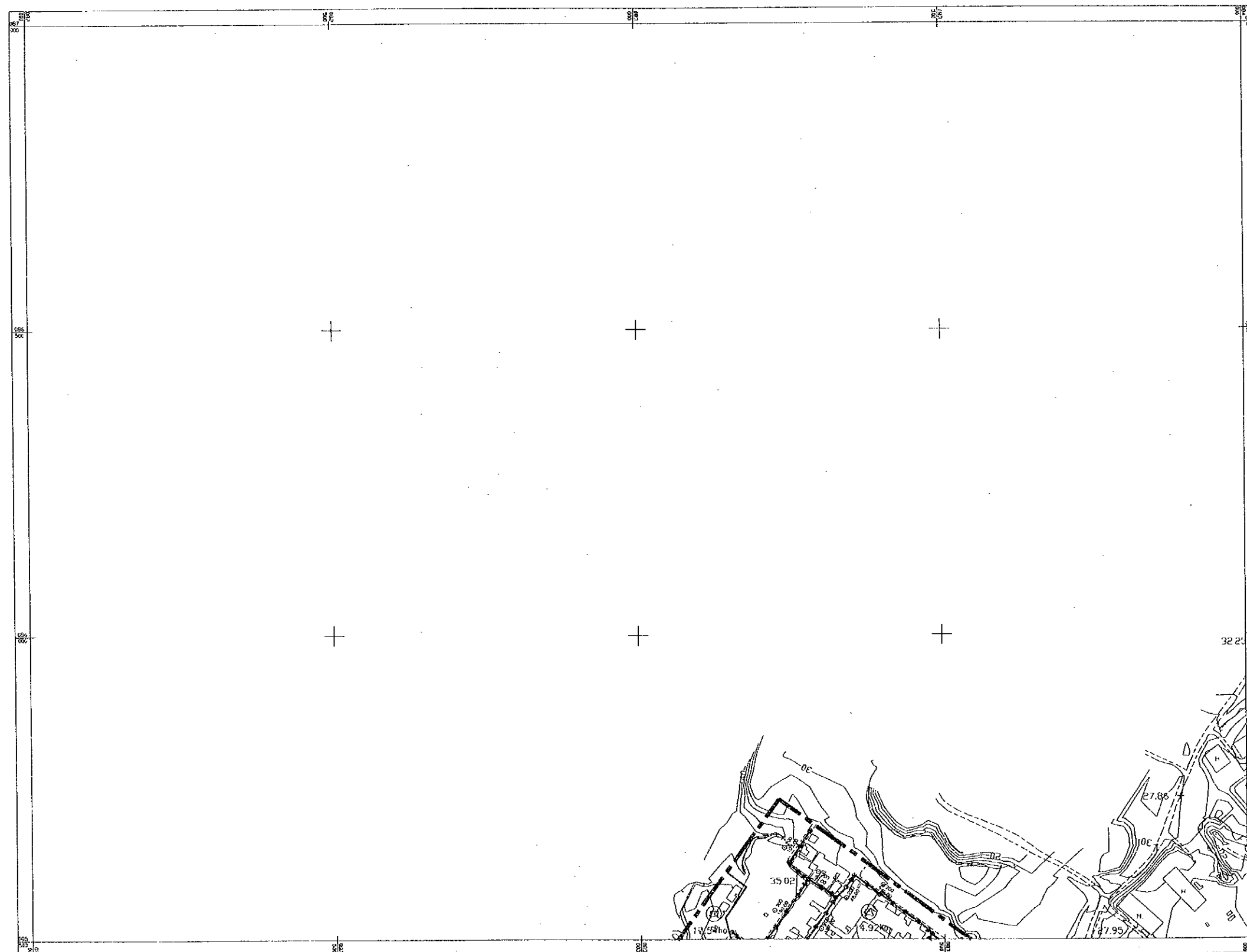
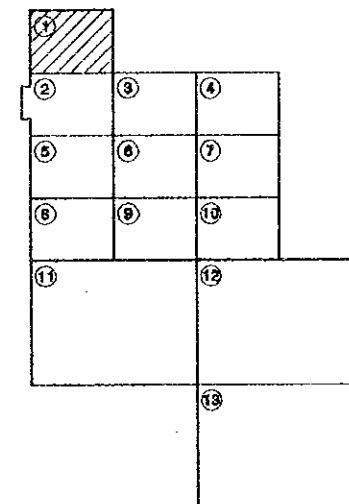
FIG.26

Layout of F/S Wastewater Treatment Plant
with Infiltration Pond

THE STUDY
ON SEWERAGE DEVELOPMENT PLAN
IN THE AREA OF KHAN YUNIS
IN PALESTINIAN INTERIM
SELF-GOVERNMENT AUTHORITY



JAPAN INTERNATIONAL COOPERATION AGENCY
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LEGEND

	TREE		RAILWAY
	STEEP SLOP		ROAD
	CLIFF		DUST ROAD
	CONTOUR LINE		BUILDING
	WADI		FENCE
	AREA LIMIT		WIRE FENCE
	PIPE		GREEN FENCE
	ELEVATION POINTS		HOT-HOUSE

LEGEND

	Sewerage Imp. Area		Type 1 Manhole
	Sub Treatment Districts		Type 2 Manhole
	Administrative Boundry		Type 3 Manhole
	Gravily Main		Type 4 Manhole
	Force Main		Special Manhole
	Pump Station		Sewer Diameter (mm)
	Wastewater Treatment		Line Name Slope
	Catchment Area		Sewer Length (m)



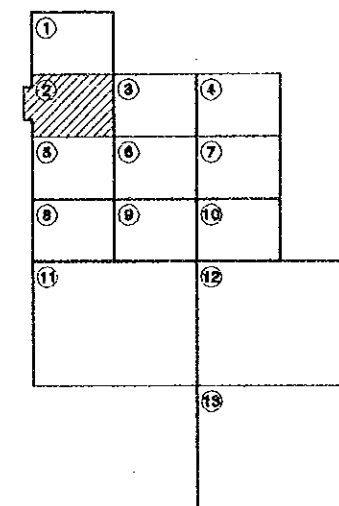
FIG.27

F/S Sewerage System Plan (1)

THE STUDY
ON SEWERAGE DEVELOPMENT PLAN
IN THE AREA OF KHAN YUNIS
IN PALESTINIAN INTERIM
SELF-GOVERNMENT AUTHORITY



JAPAN INTERNATIONAL COOPERATION AGENCY
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LEGEND

	TREE		RAILWAY
	STEEP SLOPE		ROAD
	CLIFF		DUST ROAD
	CONTOUR LINE		BUILDING
	WADI		FENCE
	AREA LIMIT		WIRE FENCE
	PIPE		GREEN FENCE
	ELEVATION POINTS		HOT-HOUSE

LEGEND

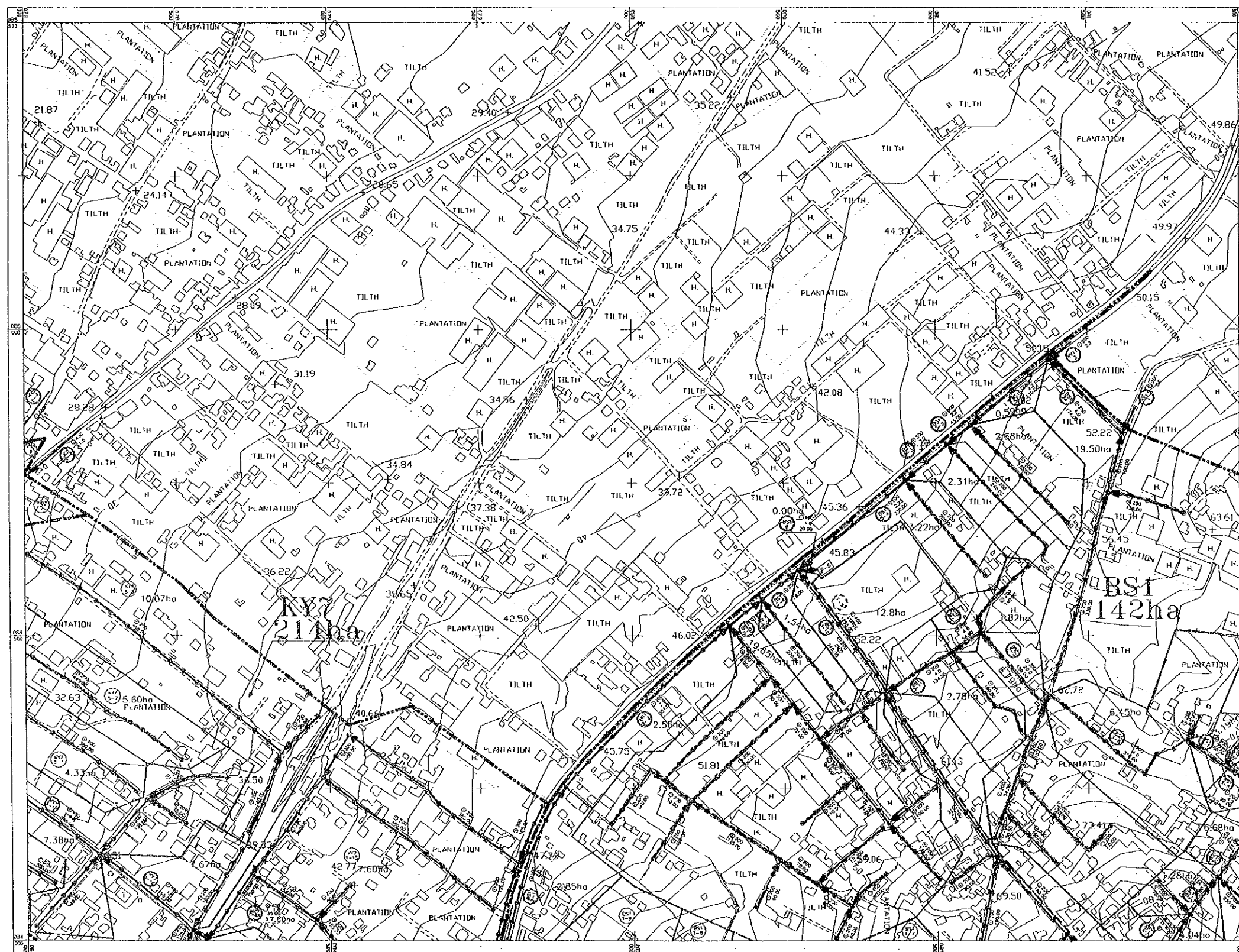
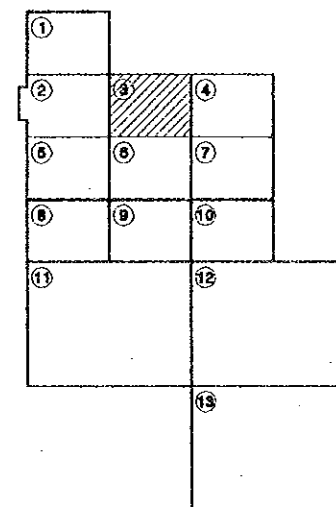
	Sewerage Imp. Area		Type 1 Manhole
	Sub Treatment Districts		Type 2 Manhole
	Administrative Boundary		Type 3 Manhole
	Gravity Main		Type 4 Manhole
	Force Main		Special Manhole
	Pump Station		Sewer Diameter (mm)
	Wastewater Treatment		Line Name Slope
			Sewer Length (m)
			Catchment Area



FIG.28

F/S Sewerage System Plan (2)

THE STUDY
ON SEWERAGE DEVELOPMENT PLAN
IN THE AREA OF KHAN YUNIS
IN PALESTINIAN INTERIM
SELF-GOVERNMENT AUTHORITY



LEGEND			
	TREE		RAILWAY
	STEEP SLOPE		ROAD
	CLIFF		DUST ROAD
	CONTOUR LINE		BUILDING
	WADI		FENCE
	AREA LIMIT		WIRE FENCE
	PIPE		GREEN FENCE
	ELEVATION POINTS		HOT-HOUSE

LEGEND			
	Sewerage Imp. Area		Type 1 Manhole
	Sub Treatment Districts		Type 2 Manhole
	Administrative Boundary		Type 3 Manhole
	Gravity Main		Type 4 Manhole
	Force Main		Special Manhole
	Pump Station		Sewer Diameter (mm)
	Wastewater Treatment		Line Name Slope
			Sewer Length (m)
			Catchment Area



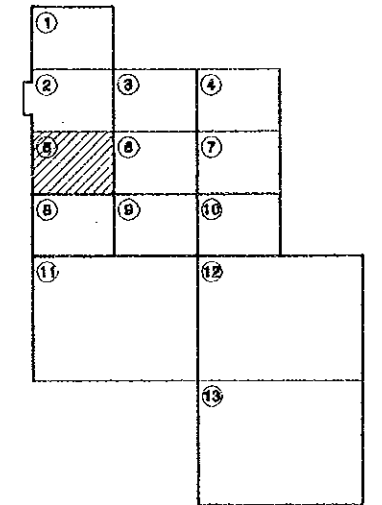
FIG.29

F/S Sewerage System Plan (3)

THE STUDY
ON SEWERAGE DEVELOPMENT PLAN
IN THE AREA OF KHAN YUNIS
IN PALESTINIAN INTERIM
SELF-GOVERNMENT AUTHORITY



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LEGEND

	TREE		RAILWAY
	STEEP SLOP		ROAD
	CLIFF		DUST ROAD
	CONTOUR LINE		BUILDING
	WADI		FENCE
	AREA LIMIT		WIRE FENCE
	PIPE		GREEN FENCE
	ELEVATION POINTS		HOT-HOUSE

LEGEND

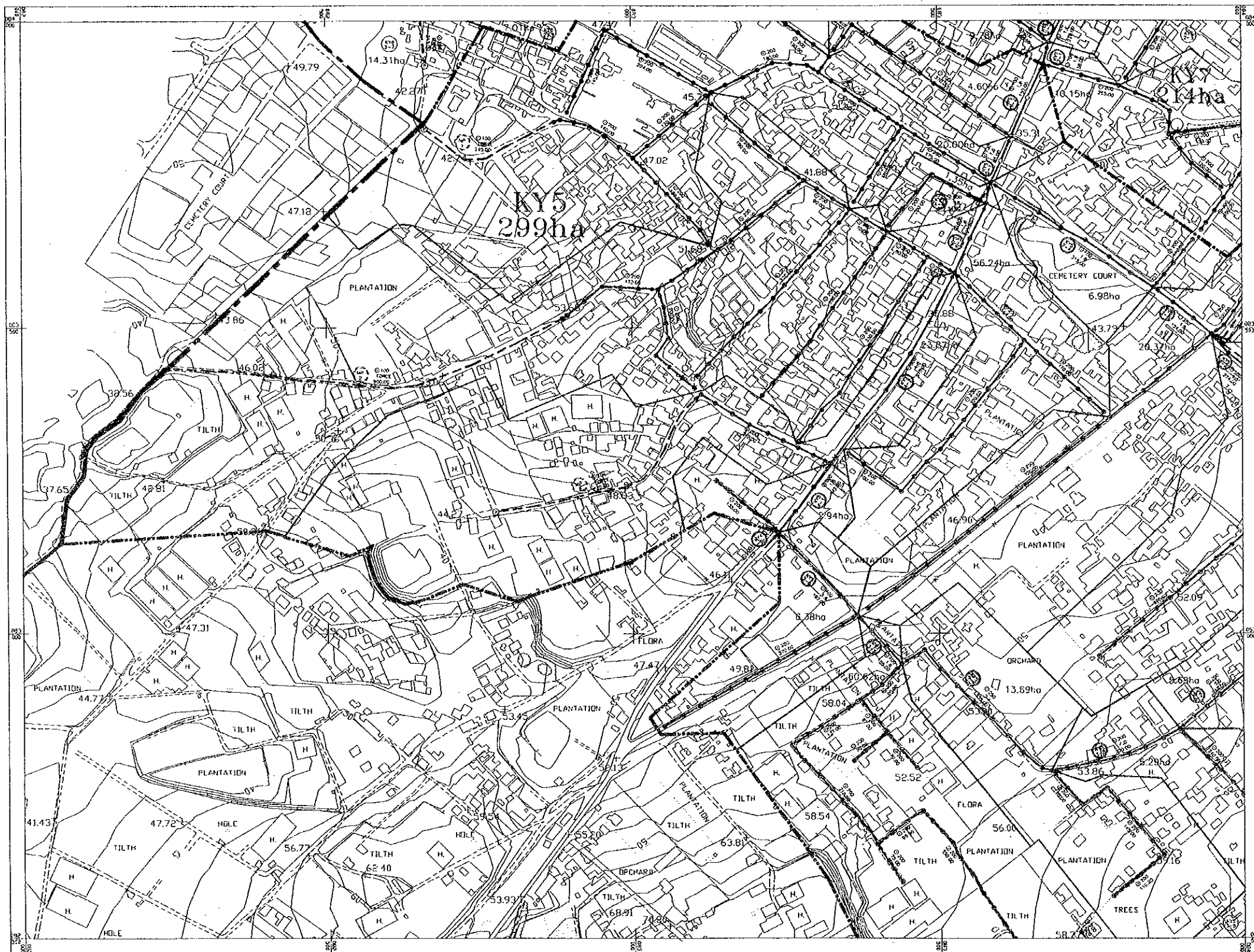
	Sewerage Imp. Area		Type 1 Manhole
	Sub Treatment Districts		Type 2 Manhole
	Administrative Boundry		Type 3 Manhole
	Gravity Main		Type 4 Manhole
	Force Main		Special Manhole
	Pump Station		Sewer Diameter (mm)
	Wastewater Treatment		One Name Slope
			Sewer Length (m)
			Catchment Area

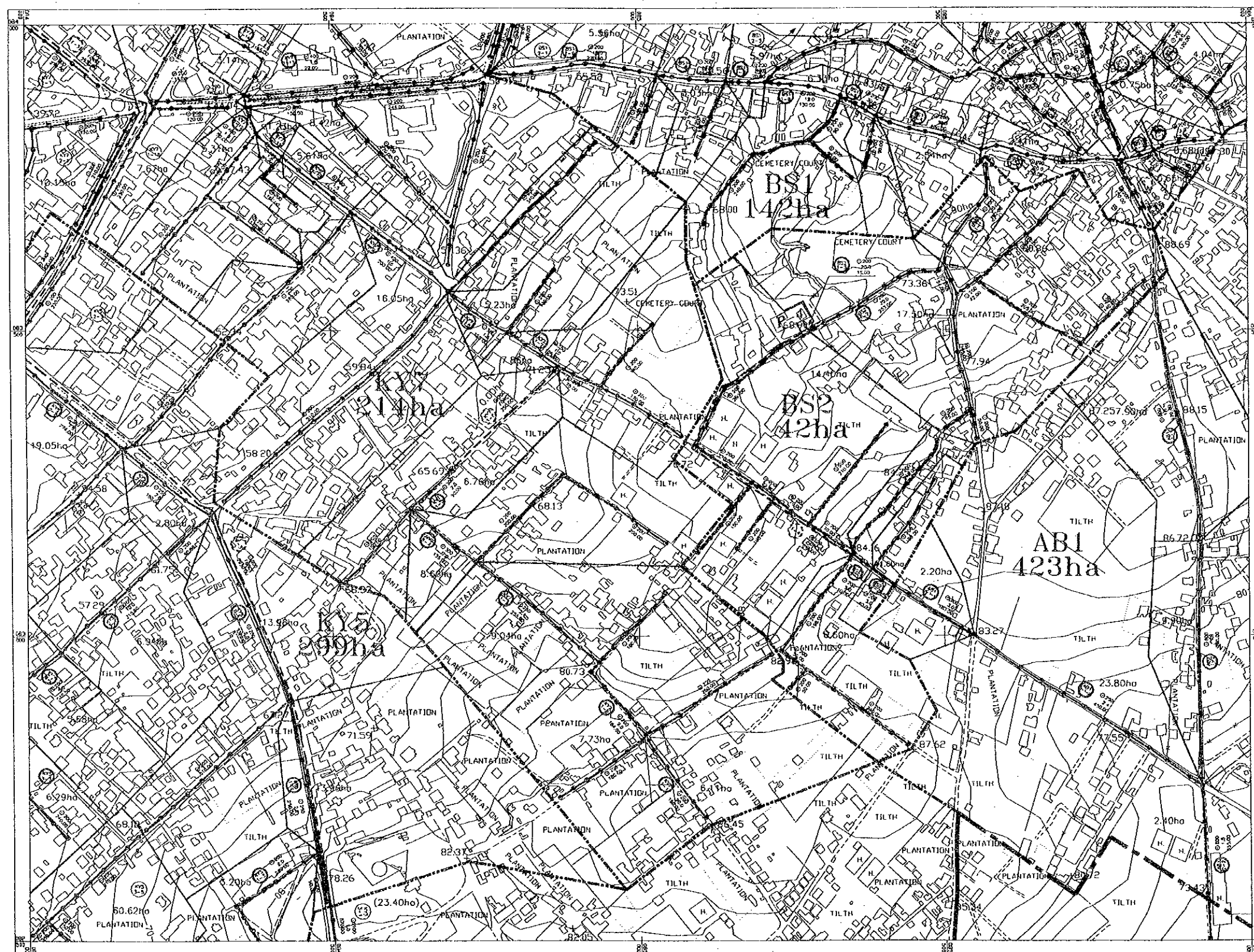
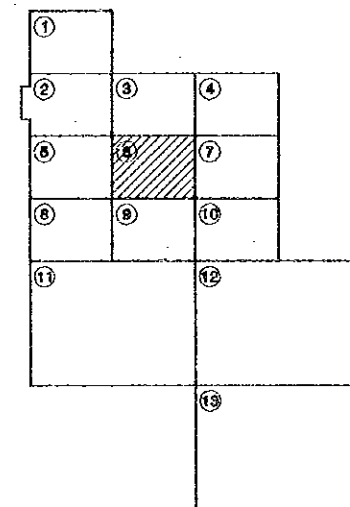


FIG.31

F/S Sewerage System Plan (5)

THE STUDY
ON SEWERAGE DEVELOPMENT PLAN
IN THE AREA OF KHAN YUNIS
IN PALESTINIAN INTERIM
SELF-GOVERNMENT AUTHORITY





LEGEND

	TREE		RAILWAY
	STEEP SLOPE		ROAD
	CLIFF		DUST ROAD
	CONTOUR LINE		BUILDING
	WADI		FENCE
	AREA LIMIT		WIRE FENCE
	PIPE		GREEN FENCE
	ELEVATION POINTS		HOT-HOUSE

LEGEND

	Sewerage Imp. Area		Type 1 Manhole
	Sub Treatment Districts		Type 2 Manhole
	Administrative Boundary		Type 3 Manhole
	Gravity Main		Type 4 Manhole
	Force Main		Special Manhole
	Pump Station		Sewer Diameter (mm)
	Wastewater Treatment		Line Name Slope
			Sewer Length (m)
			Catchment Area

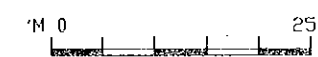


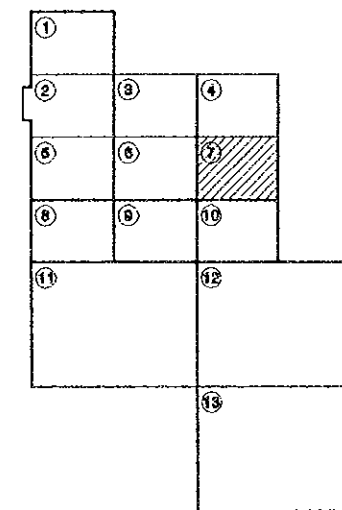
FIG.32

F/S Sewerage System Plan (6)

THE STUDY
ON SEWERAGE DEVELOPMENT PLAN
IN THE AREA OF KHAN YUNIS
IN PALESTINIAN INTERIM
SELF-GOVERNMENT AUTHORITY



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LEGEND

○	TREE	—	RAILWAY
—	STEEP SLOP	—	ROAD
—	CLIFF	—	DUST ROAD
—	CONTOUR LINE	—	BUILDING
—	WADI	—	FENCE
—	AREA LIMIT	—	WIRE FENCE
—	PIPE	—	GREEN FENCE
+7283	ELEVATION POINTS	—	HOT-HOUSE

LEGEND

—	Sewerage Imp. Area	⊙	Type 1 Manhole
—	Sub Treatment Districts	○	Type 2 Manhole
—	Administrative Boundary	⊙	Type 3 Manhole
—	Gravity Main	⊙	Type 4 Manhole
—	Force Main	⊙	Special Manhole
⊙	Pump Station	⊙	Sewer Diameter (mm)
⊙	Wastewater Treatment	⊙	Line Name Slope
		⊙	Sewer Length (m)
		⊙	Colchment Area

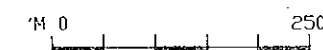


FIG.33

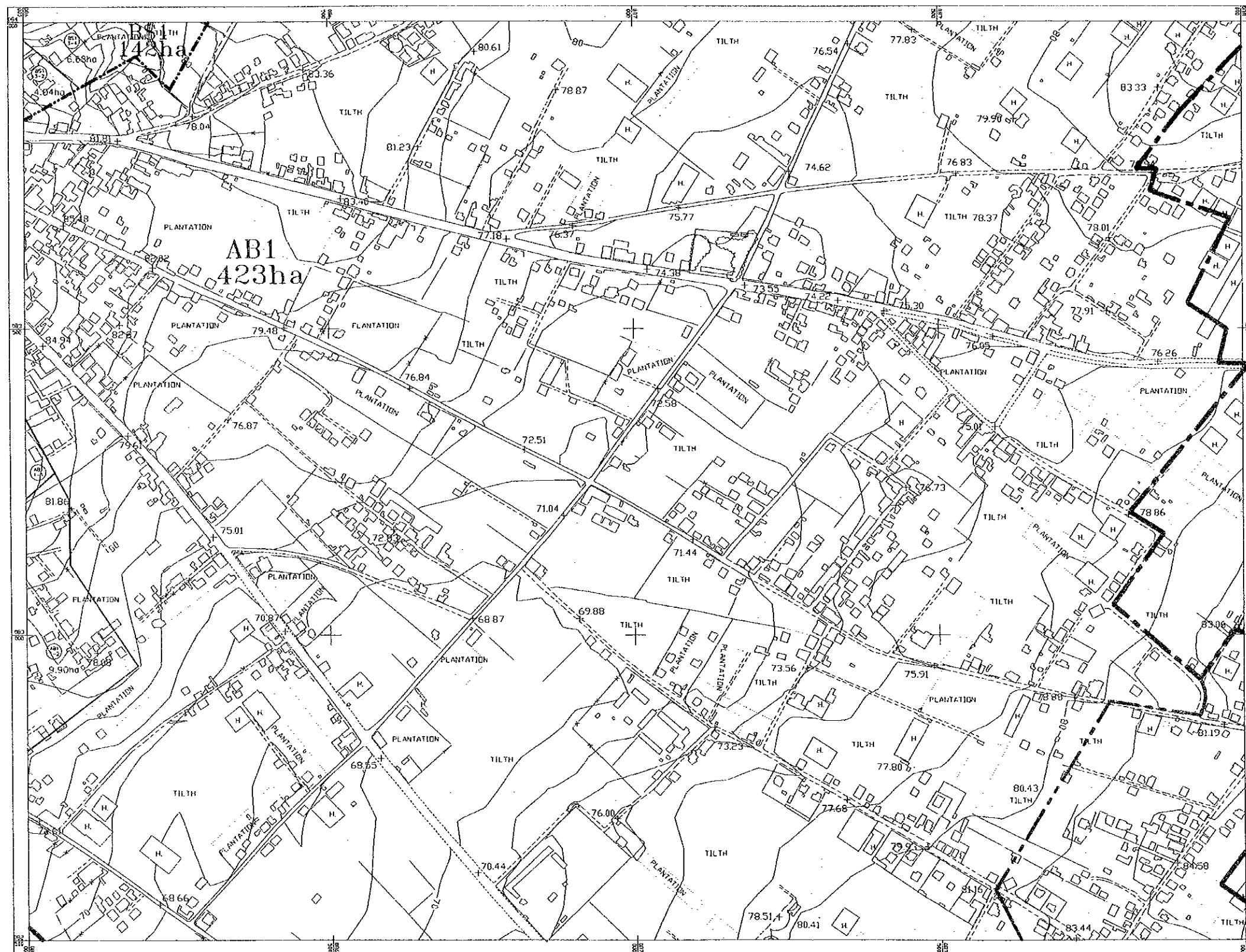
F/S Sewerage System Plan (7)

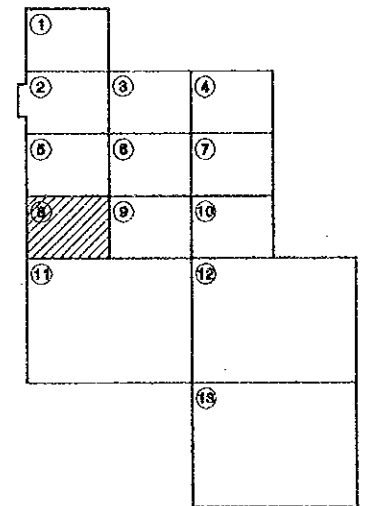
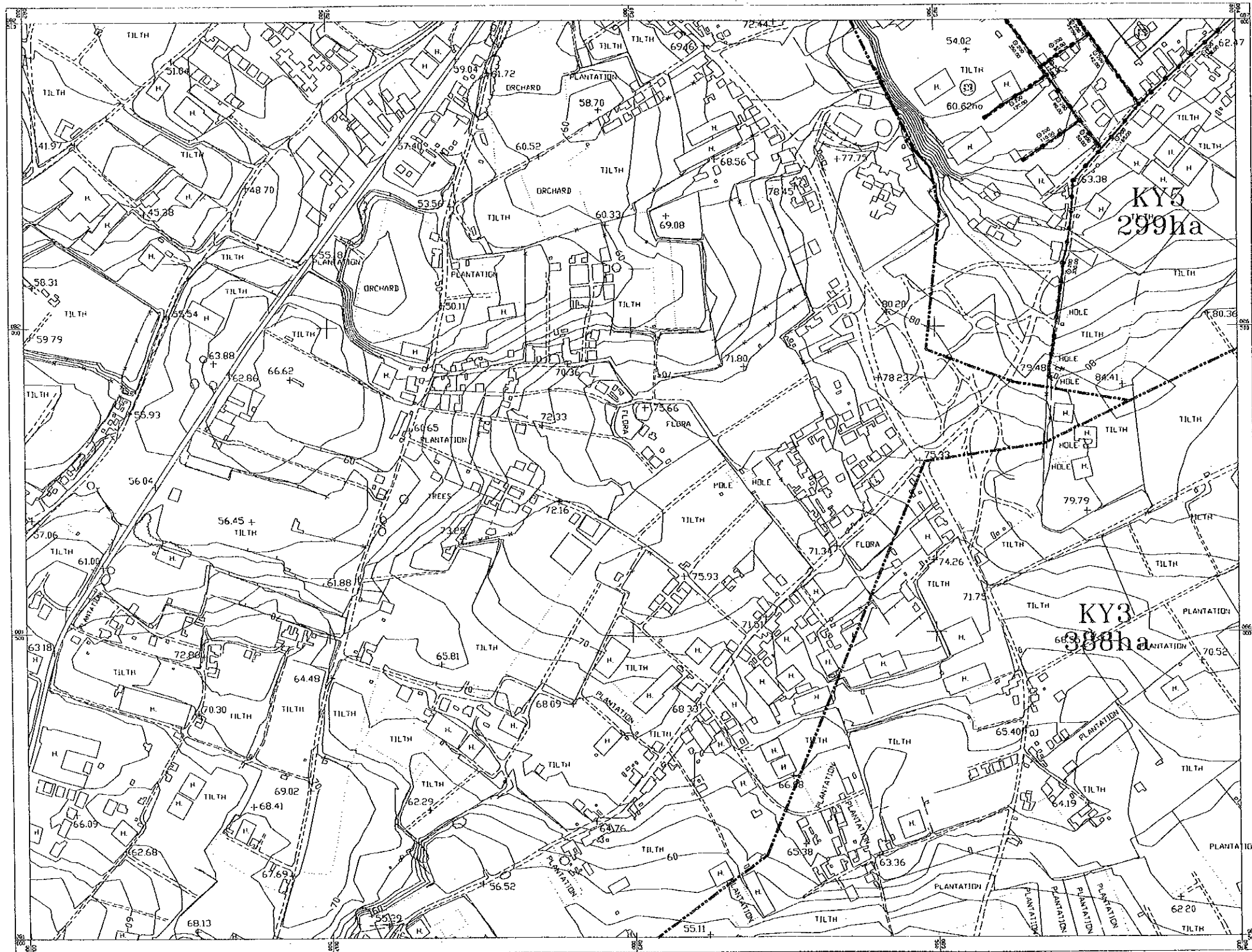
THE STUDY
ON SEWERAGE DEVELOPMENT PLAN
IN THE AREA OF KHAN YUNIS
IN PALESTINIAN INTERIM
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LEGEND

○	TREE	—	RAILWAY
	STEEP SLOP	—	ROAD
—	CLIFF	—	DUST ROAD
—	CONTOUR LINE	—	BUILDING
—	WADI	—	FENCE
—	AREA LIMIT	—	WIRE FENCE
—	PIPE	—	GREEN FENCE
+728.3	ELEVATION POINTS	—	HOT-HOUSE

LEGEND

—	Sewerage imp. Area	○	Type 1 Manhole
—	Sub Treatment Districts	○	Type 2 Manhole
—	Administrative Boundary	○	Type 3 Manhole
—	Gravily Main	○	Type 4 Manhole
—	Force Main	□	Special Manhole
□	Pump Station	—	Sewer Diameter (mm)
—	Wastewater Treatment	—	Line Name Slope
		—	Sewer Length (m)
		—	Catchment Area

1:25000

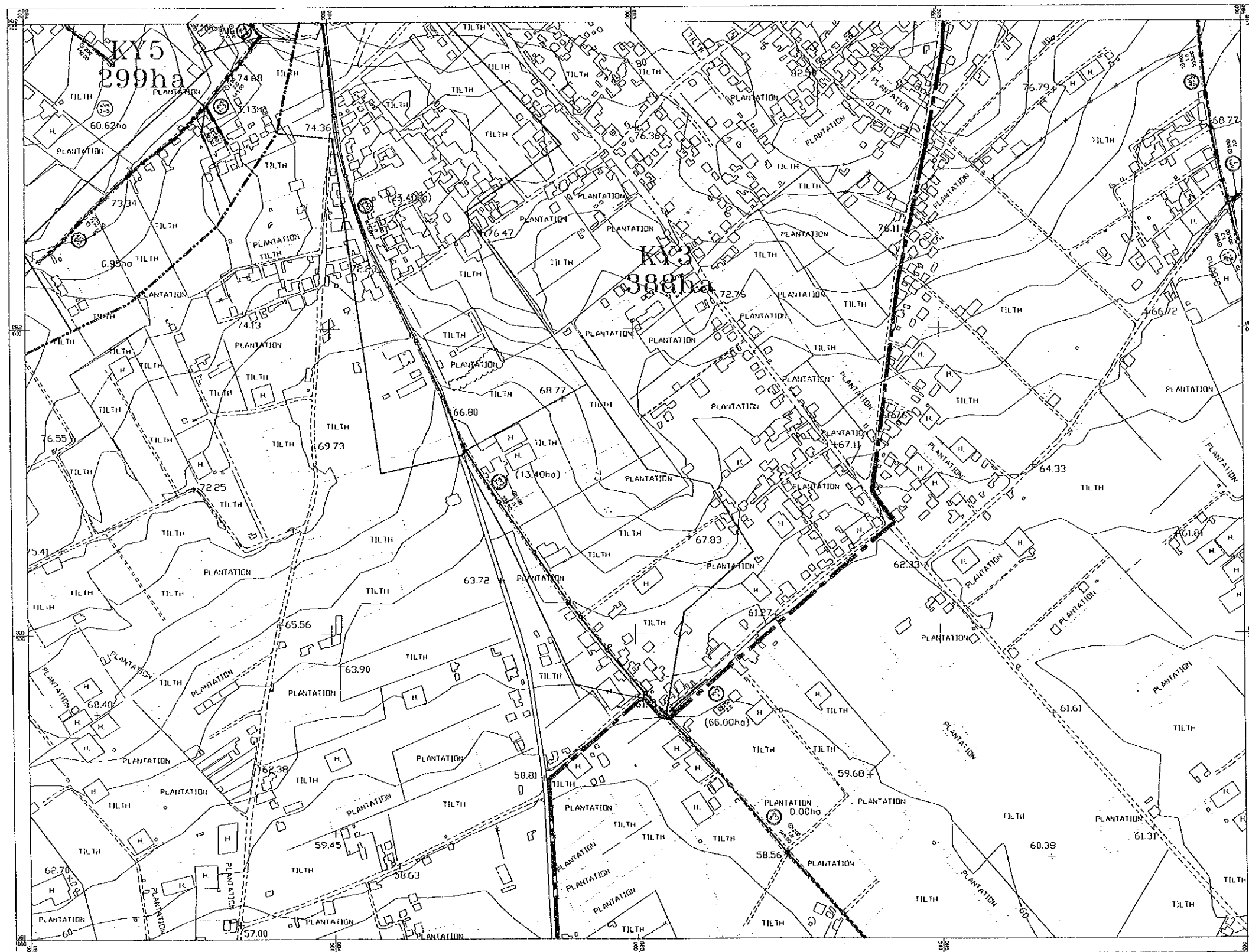
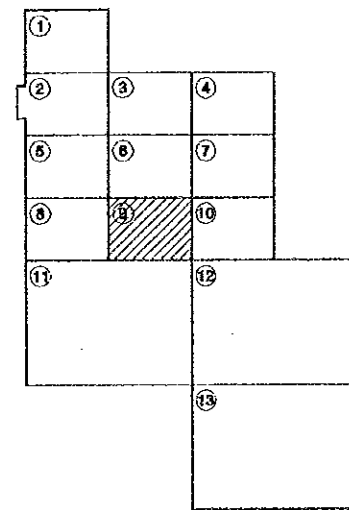
FIG.34

F/S Sewerage System Plan (8)

THE STUDY
ON SEWERAGE DEVELOPMENT PLAN
IN THE AREA OF KHAN YUNIS
IN PALESTINIAN INTERIM
SELF-GOVERNMENT AUTHORITY



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LEGEND			
	TREE		RAILWAY
	STEEP SLOP		ROAD
	CLIFF		DUST ROAD
	CONTOUR LINE		BUILDING
	WADI		FENCE
	AREA LIMIT		WIRE FENCE
	PIPE		GREEN FENCE
	ELEVATION POINTS		HOT-HOUSE

LEGEND			
	Sewerage Imp. Area		Type 1 Manhole
	Sub Treatment Districts		Type 2 Manhole
	Administrative Boundary		Type 3 Manhole
	Gravity Main		Type 4 Manhole
	Force Main		Special Manhole
	Pump Station		Sewer Diameter (mm)
	Wastewater Treatment		Sewer Length (m)
			Catchment Area

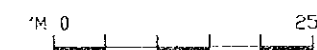


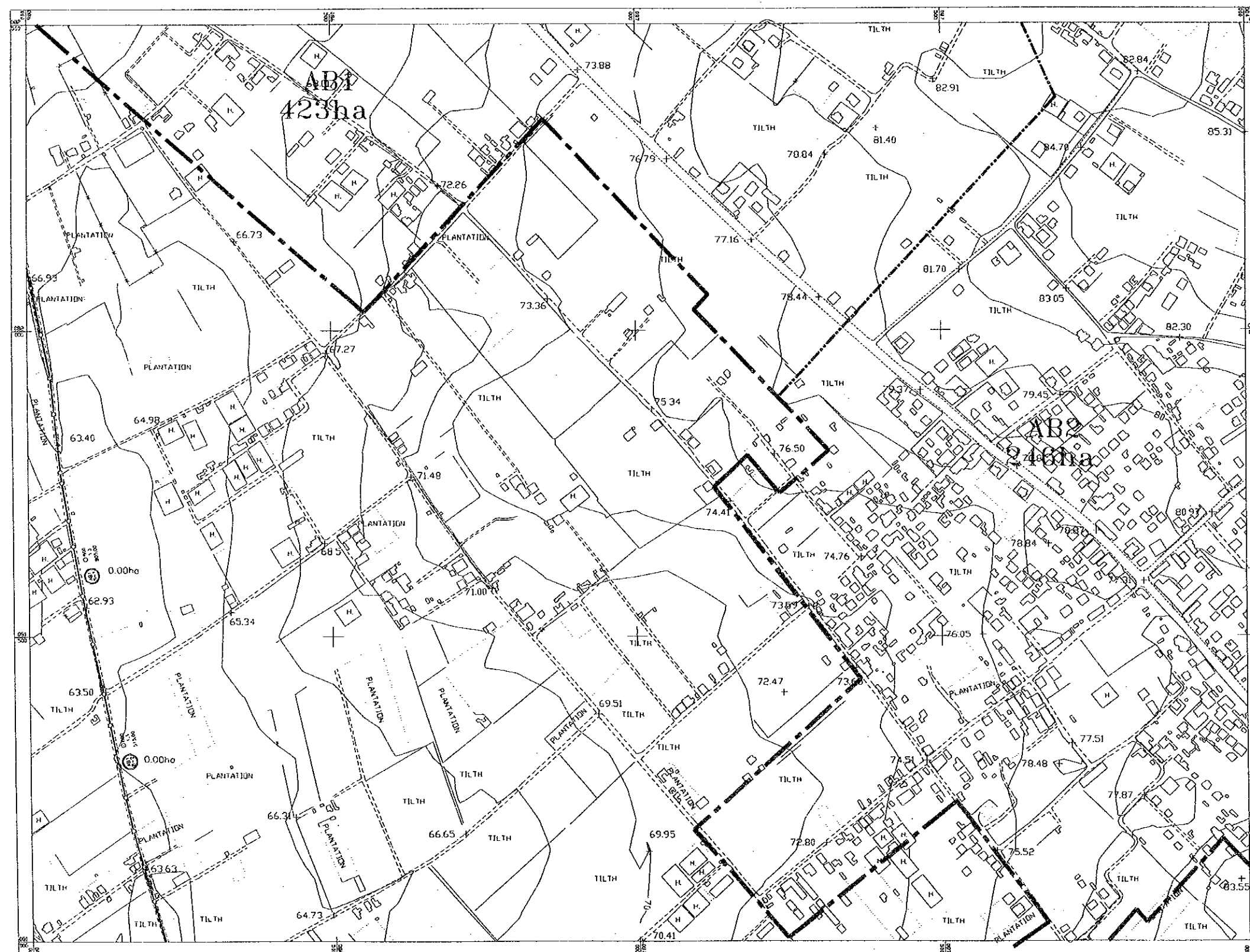
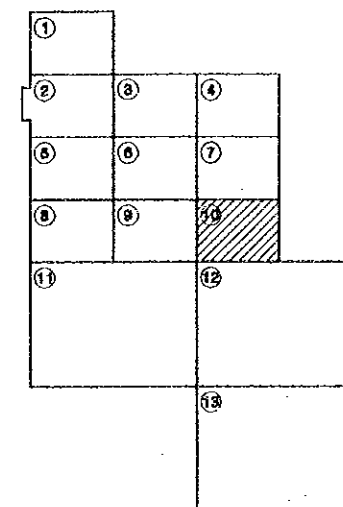
FIG.35

F/S Sewerage System Plan (9)

THE STUDY
ON SEWERAGE DEVELOPMENT PLAN
IN THE AREA OF KHAN YUNIS
IN PALESTINIAN INTERIM
SELF-GOVERNMENT AUTHORITY



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	TREE		RAILWAY
	STEEP SLOP		ROAD
	CLIFF		DUST ROAD
	CONTOUR LINE		BUILDING
	WADI		FENCE
	AREA LIMIT		WIRE FENCE
	PIPE		GREEN FENCE
	ELEVATION POINTS		HOT-HOUSE

LEGEND

	Sewerage Imp. Area		Type 1 Manhole
	Sub Treatment Districts		Type 2 Manhole
	Administrative Boundary		Type 3 Manhole
	Gravily Main		Type 4 Manhole
	Force Main		Special Manhole
	Pump Station		Sewer Diameter (mm)
	Wastewater Treatment		Line Name Slope
			Sewer Length (m)
			Catchment Area

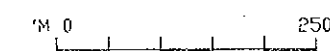


FIG.36

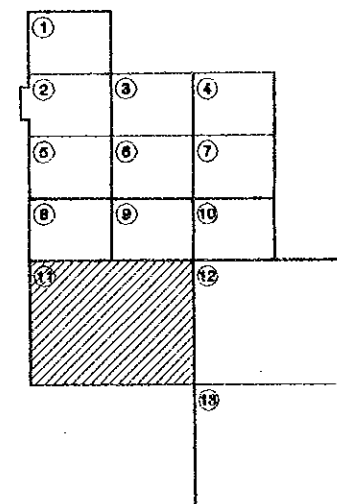
F/S Sewerage System Plan (10)

THE STUDY
ON SEWERAGE DEVELOPMENT PLAN
IN THE AREA OF KHAN YUNIS
IN PALESTINIAN INTERIM
SELF-GOVERNMENT AUTHORITY



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LEGEND

○	TREE	—	RAILWAY
▲	STEEP SLOP	—	ROAD
—	CLIFF	—	DUST ROAD
—	CONTOUR LINE	—	BUILDING
—	WADI	—	FENCE
—	AREA LIMIT	—	WIRE FENCE
—	PIPE	—	GREEN FENCE
•	ELEVATION POINTS	—	HOT-HOUSE

LEGEND

—	Sewerage Imp. Area	●	Type 1 Manhole
—	Sub Treatment Districts	○	Type 2 Manhole
—	Administrative Boundry	○	Type 3 Manhole
—	Gravity Main	○	Type 4 Manhole
—	Force Main	○	Special Manhole
—	Pump Station	—	Sewer Diameter (mm)
—	Wastewater Treatment	—	Line Name Slope
		—	Sewer Length (m)
		—	Catchment Area

0 500
Meters

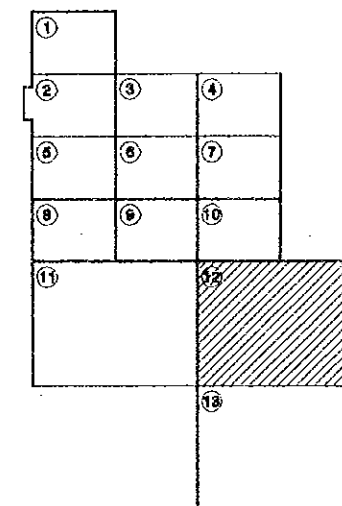
FIG.37

F/S Sewerage System Plan (11)

THE STUDY
ON SEWERAGE DEVELOPMENT PLAN
IN THE AREA OF KHAN YUNIS
IN PALESTINIAN INTERIM
SELF-GOVERNMENT AUTHORITY



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LEGEND

	TREE		RAILWAY
	STEEP SLOP		ROAD
	CLIFF		DUST ROAD
	CONTOUR LINE		BUILDING
	WADI		FENCE
	AREA LIMIT		WIRE FENCE
	PIPE		GREEN FENCE
	ELEVATION POINTS		HOT-HOUSE

LEGEND

	Sewerage Imp. Area		Type 1 Manhole
	Sub Treatment Districts		Type 2 Manhole
	Administrative Boundary		Type 3 Manhole
	Gravity Main		Type 4 Manhole
	Force Main		Special Manhole
	Pump Station		Sewer Diameter (mm)
	Wastewater Treatment		Line Name Slope
			Catchment Area

1:0 500

FIG.38

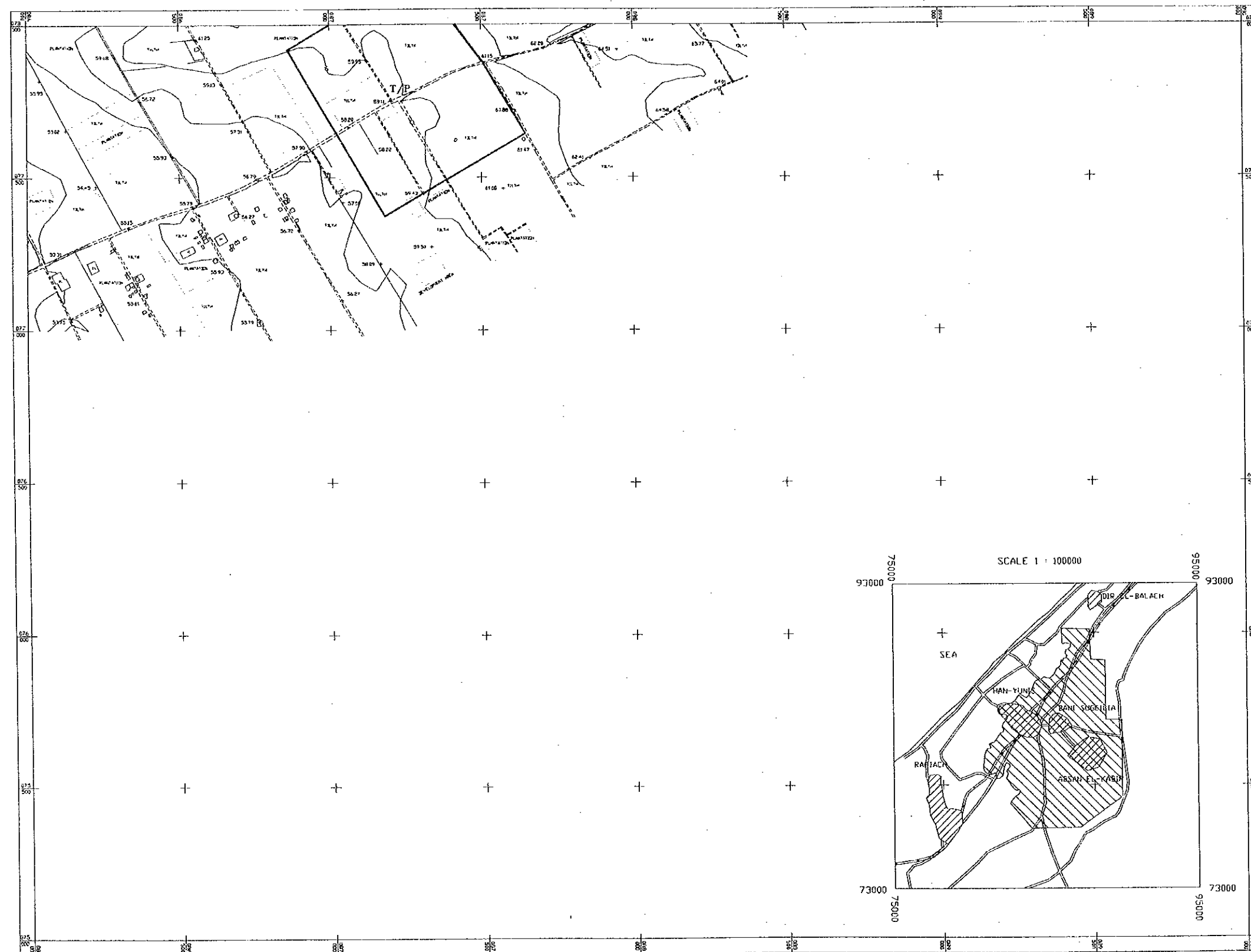
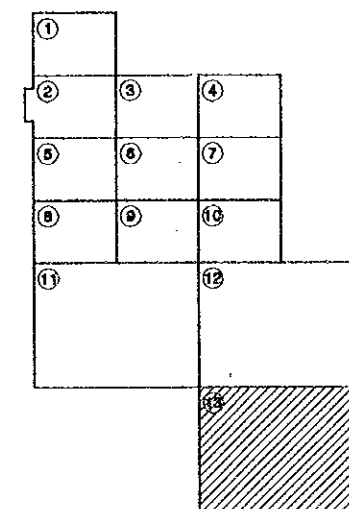
F/S Sewerage System Plan (12)

THE STUDY
ON SEWERAGE DEVELOPMENT PLAN
IN THE AREA OF KHAN YUNIS
IN PALESTINIAN INTERIM
SELF-GOVERNMENT AUTHORITY



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LEGEND

	TREE		RAILWAY
	STEEP SLOPE		ROAD
	CLIFF		DUST ROAD
	CONTOUR LINE		BUILDING
	WADI		FENCE
	AREA LIMIT		WIRE FENCE
	PIPE		GREEN FENCE
	ELEVATION POINTS		HOT-HOUSE

LEGEND

	Sewerage Imp. Area		Type 1 Manhole
	Sub Treatment Districts		Type 2 Manhole
	Administrative Boundary		Type 3 Manhole
	Gravity Main		Type 4 Manhole
	Force Main		Special Manhole
	Pump Station		Sewer Diameter (mm)
	Wastewater Treatment		Line Name Slope
			Sewer Length (m)
			Catchment Area



FIG.39

F/S Sewerage System Plan (13)

THE STUDY
ON SEWERAGE DEVELOPMENT PLAN
IN THE AREA OF KHAN YUNIS
IN PALESTINIAN INTERIM
SELF-GOVERNMENT AUTHORITY



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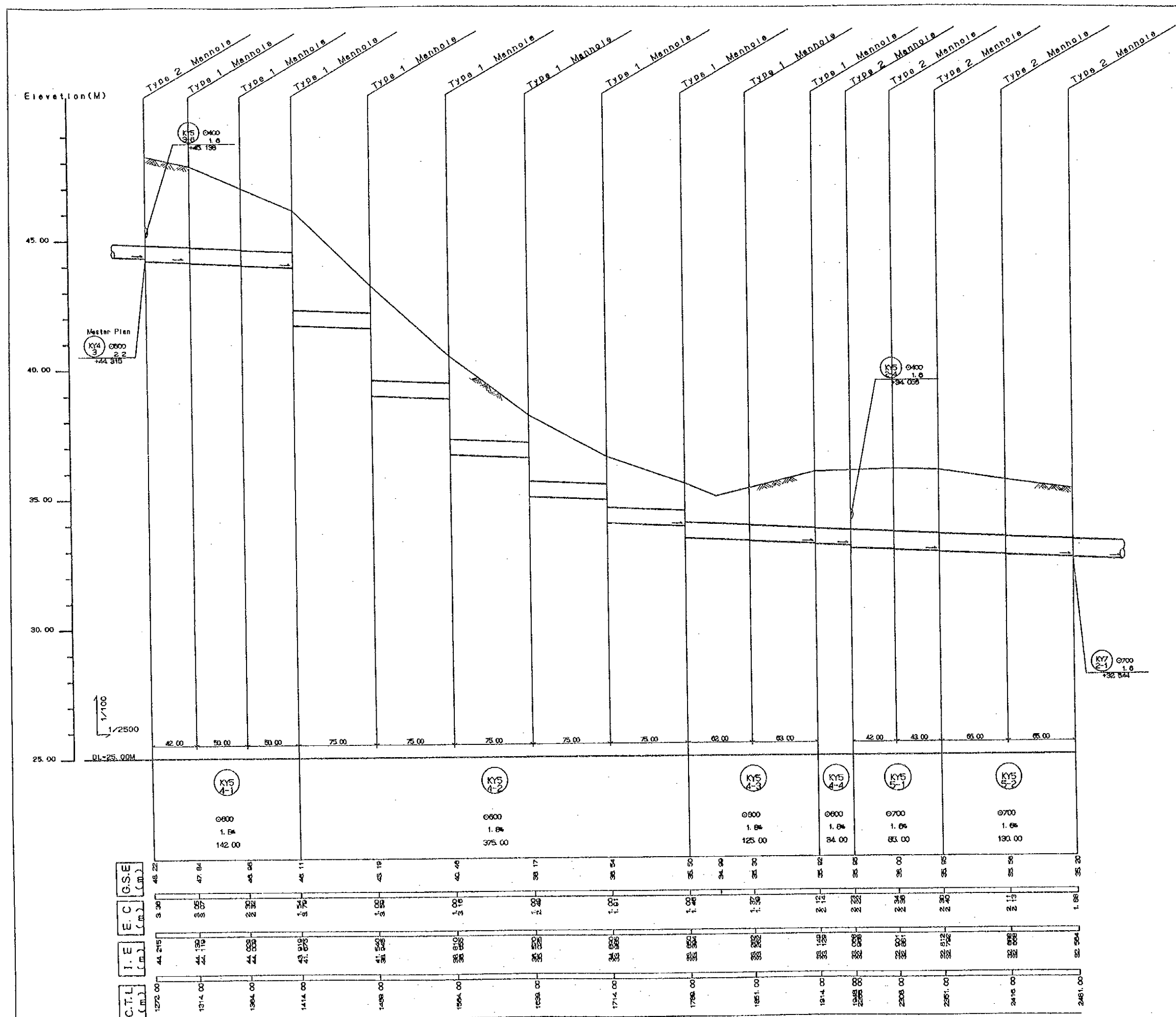


FIG.40

F/S SEWERAGE PROFILE (1)

THE STUDY
ON SEWERAGE DEVELOPMENT PLAN
IN THE AREA OF KHAN YUNIS
IN PALESTINIAN INTERIM
SELF-GOVERNMENT AUTHORITY

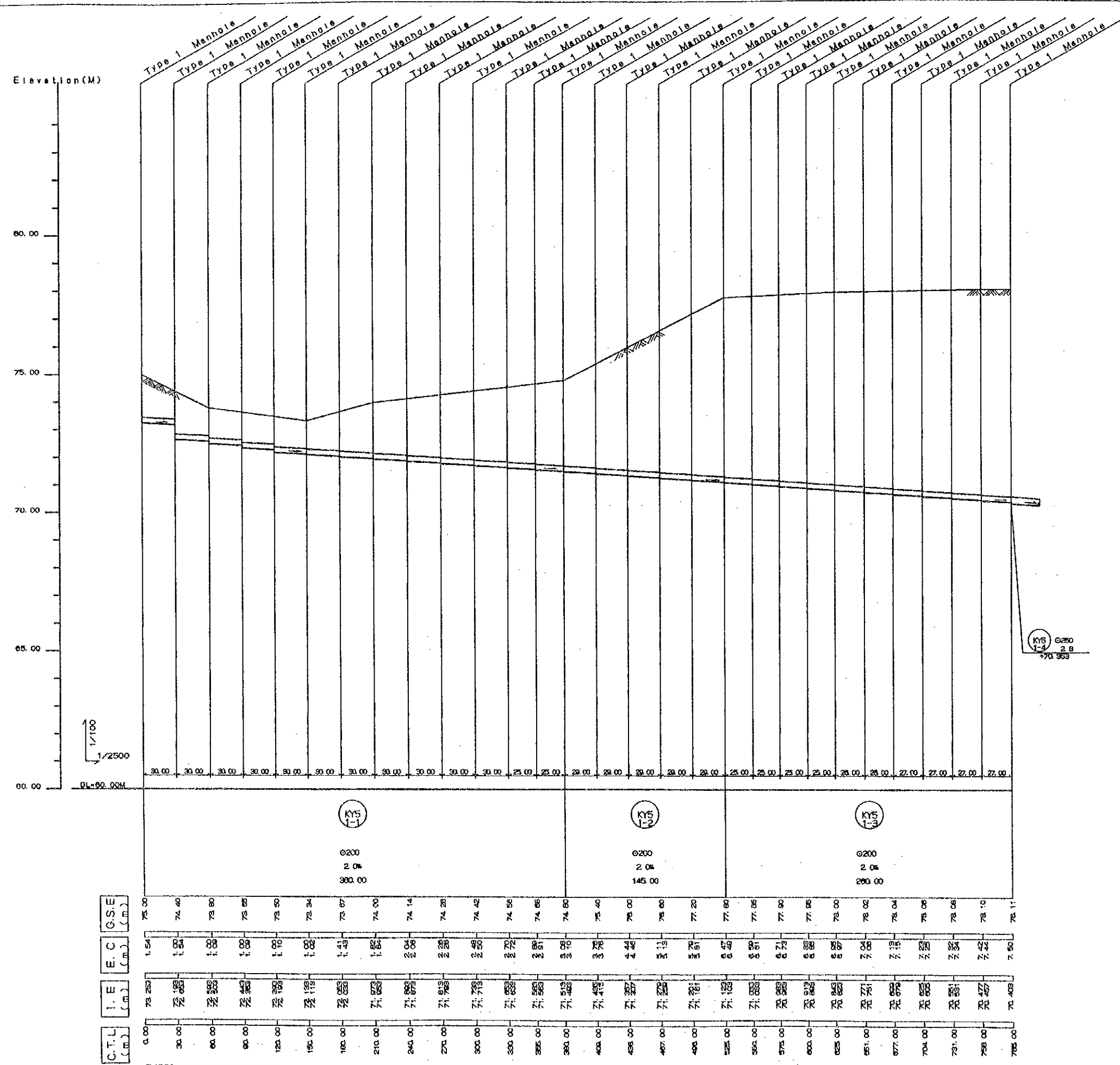
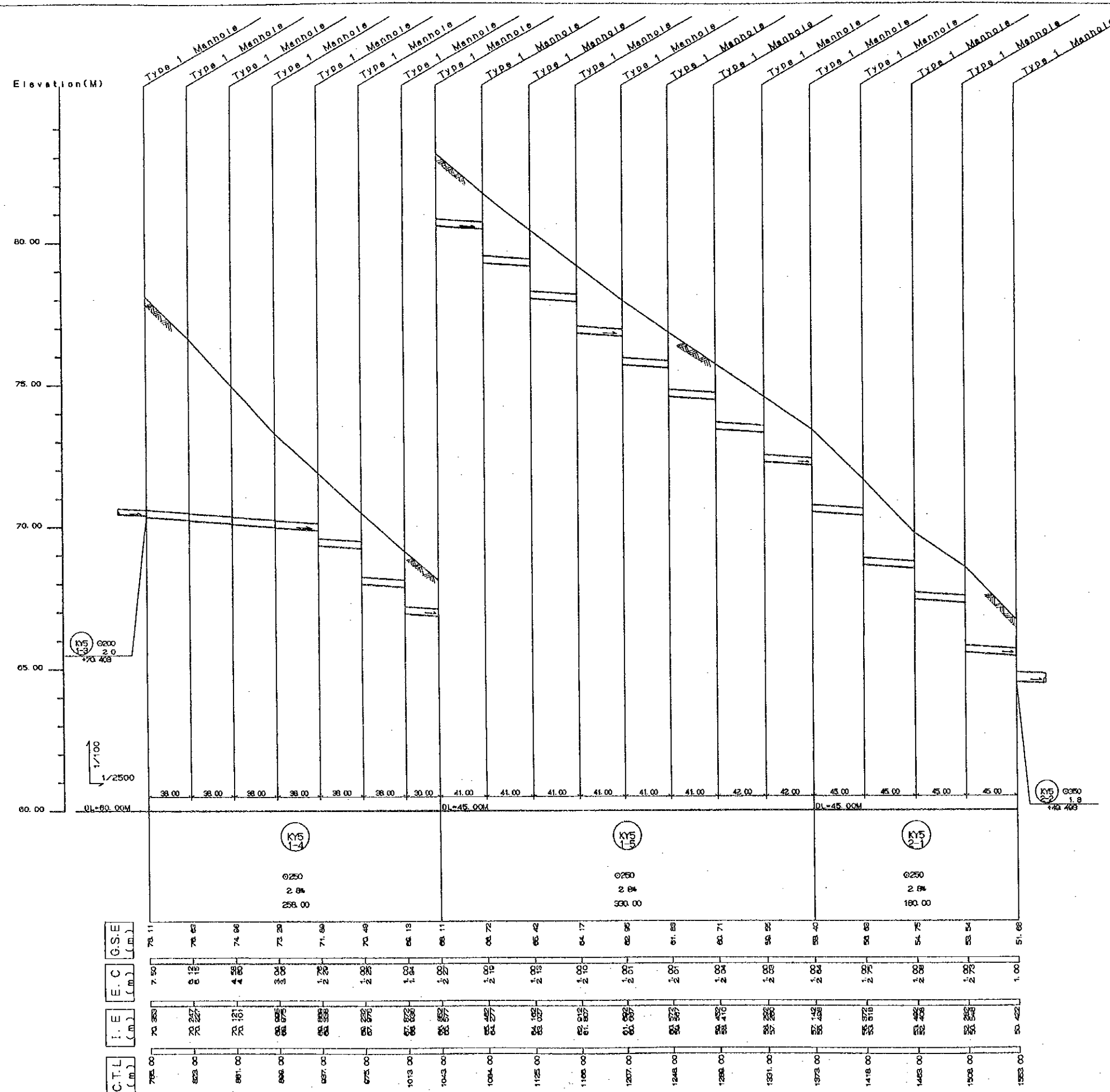


FIG.41

F/S SEWERAGE PROFILE (2)

THE STUDY
ON SEWERAGE DEVELOPMENT PLAN
IN THE AREA OF KHAN YUNIS
IN PALESTINIAN INTERIM
SELF-GOVERNMENT AUTHORITY

JICA
JAPAN INTERNATIONAL COOPERATION AGENCY
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G. S. E: Ground Surface Elevation
 E. C: Earth Cover
 I. E: Invert Elevation
 C. T. L: Cum Total Length

KY5 1-4	KY5 1-5	KY5 2-1		

FIG.42

F/S SEWERAGE PROFILE (3)

THE STUDY
 ON SEWERAGE DEVELOPMENT PLAN
 IN THE AREA OF KHAN YUNIS
 IN PALESTINIAN INTERIM
 SELF-GOVERNMENT AUTHORITY



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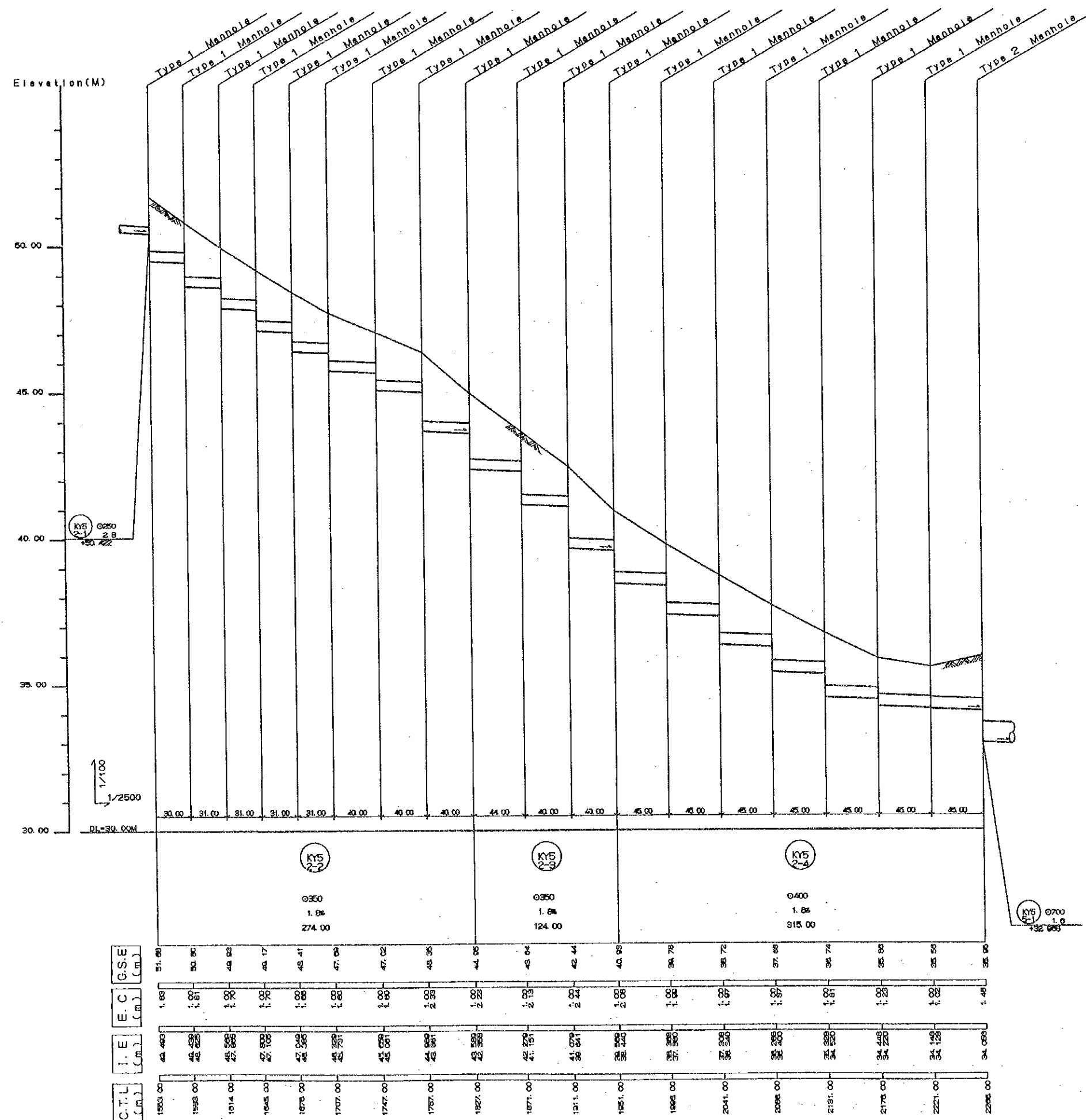


FIG.43

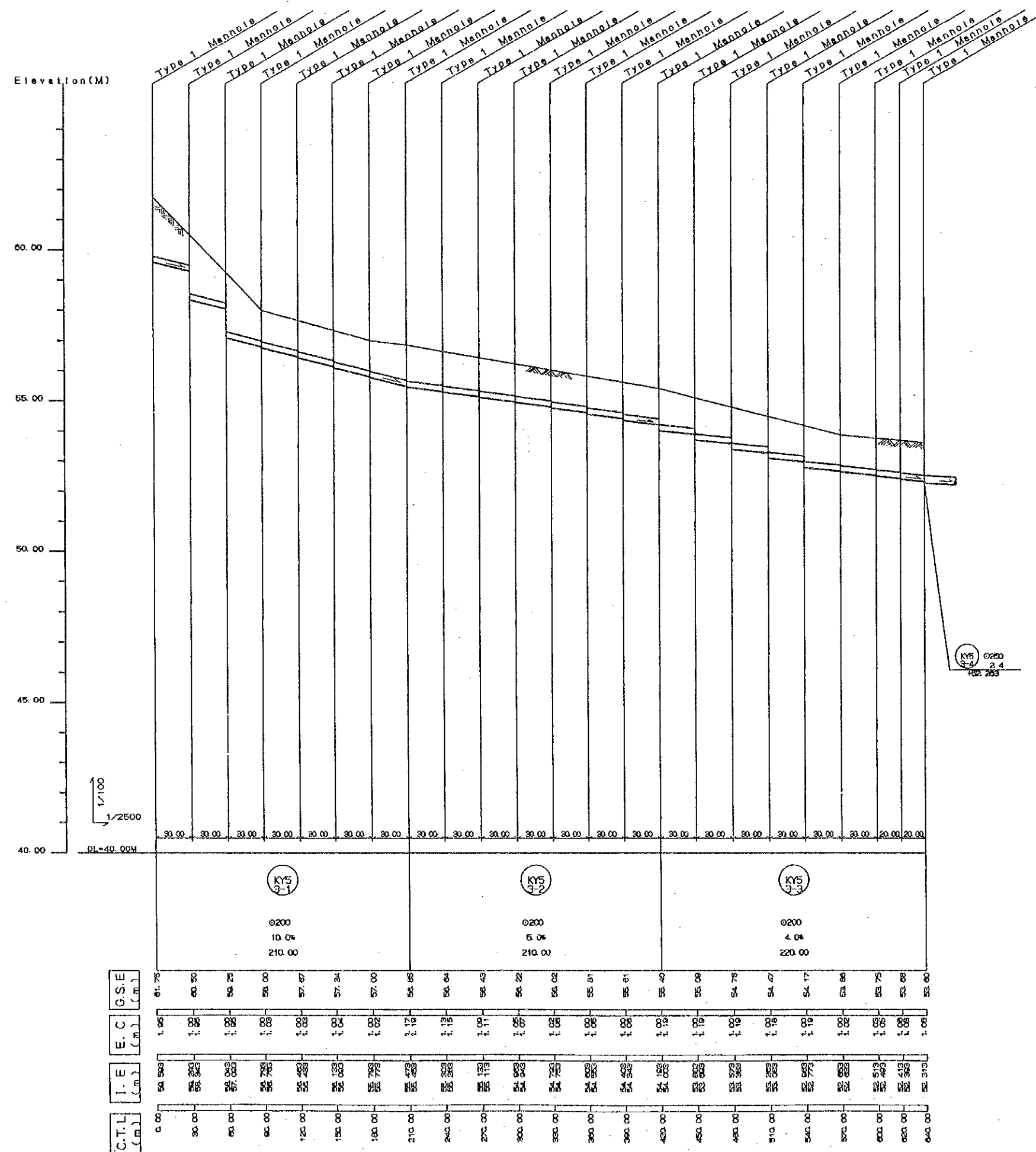
F/S SEWERAGE PROFILE (4)

THE STUDY
ON SEWERAGE DEVELOPMENT PLAN
IN THE AREA OF KHAN YUNIS
IN PALESTINIAN INTERIM
SELF-GOVERNMENT AUTHORITY



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G. S. E:Ground Surface
Elevation
E. C:Earth Cover
I. E:Invert Elevation
C. T. L:Cum Total Length

Table of Line				
KY5 3-1	KY5 3-2	KY5 3-3		

FIG.44

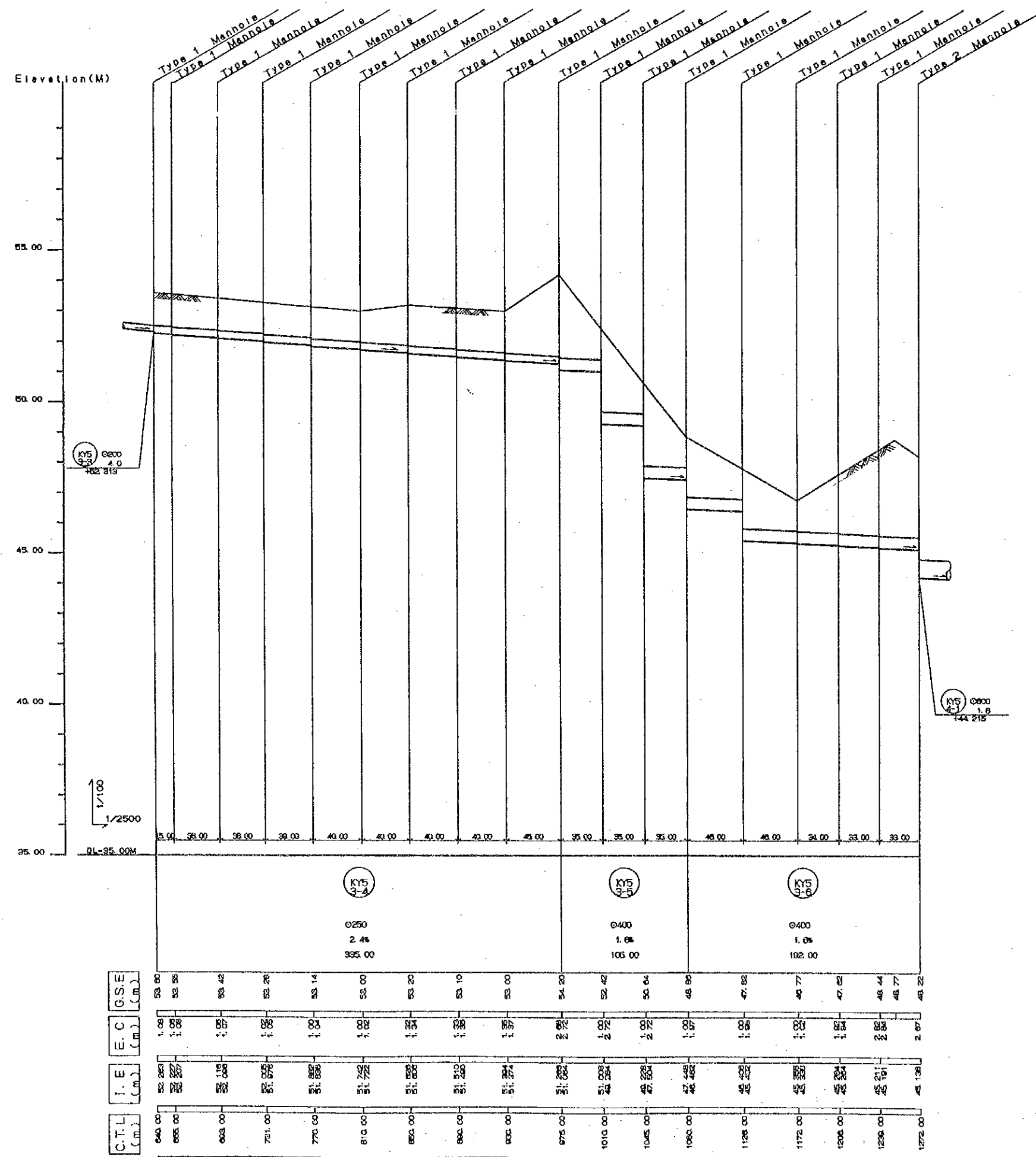
F/S SEWERAGE PROFILE (5)

THE STUDY
ON SEWERAGE DEVELOPMENT PLAN
IN THE AREA OF KHAN YUNIS
IN PALESTINIAN INTERIM
SELF-GOVERNMENT AUTHORITY



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G. S. E:Ground Surface Elevation
 E. C:Earth Cover
 I. E:Invert Elevation
 C. T. L:Cum Total Length

Table of Line				
KY5 3-4	KY5 3-5	KY5 3-6		

FIG.45

F/S SEWERAGE PROFILE (6)

THE STUDY
 ON SEWERAGE DEVELOPMENT PLAN
 IN THE AREA OF KHAN YUNIS
 IN PALESTINIAN INTERIM
 SELF-GOVERNMENT AUTHORITY



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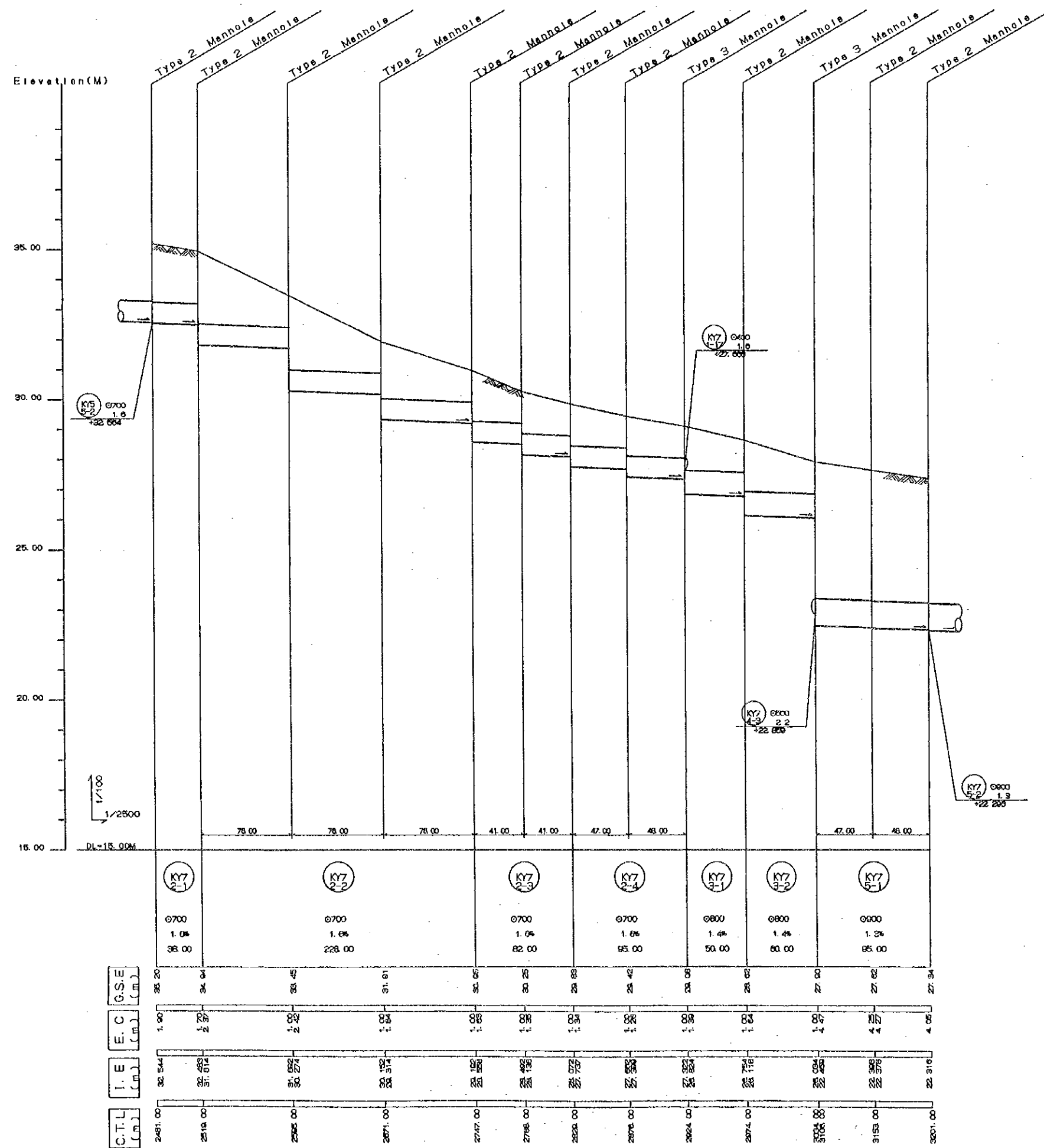


FIG.46

F/S SEWERAGE PROFILE (7)

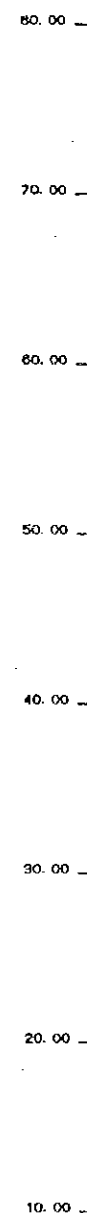
THE STUDY
ON SEWERAGE DEVELOPMENT PLAN
IN THE AREA OF KHAN YUNIS
IN PALESTINIAN INTERIM
SELF-GOVERNMENT AUTHORITY



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Elevation(M)



Pump Station (P-3)

XY 01100
1.0
+17.232

1/300
1/5000

DL=10.00M

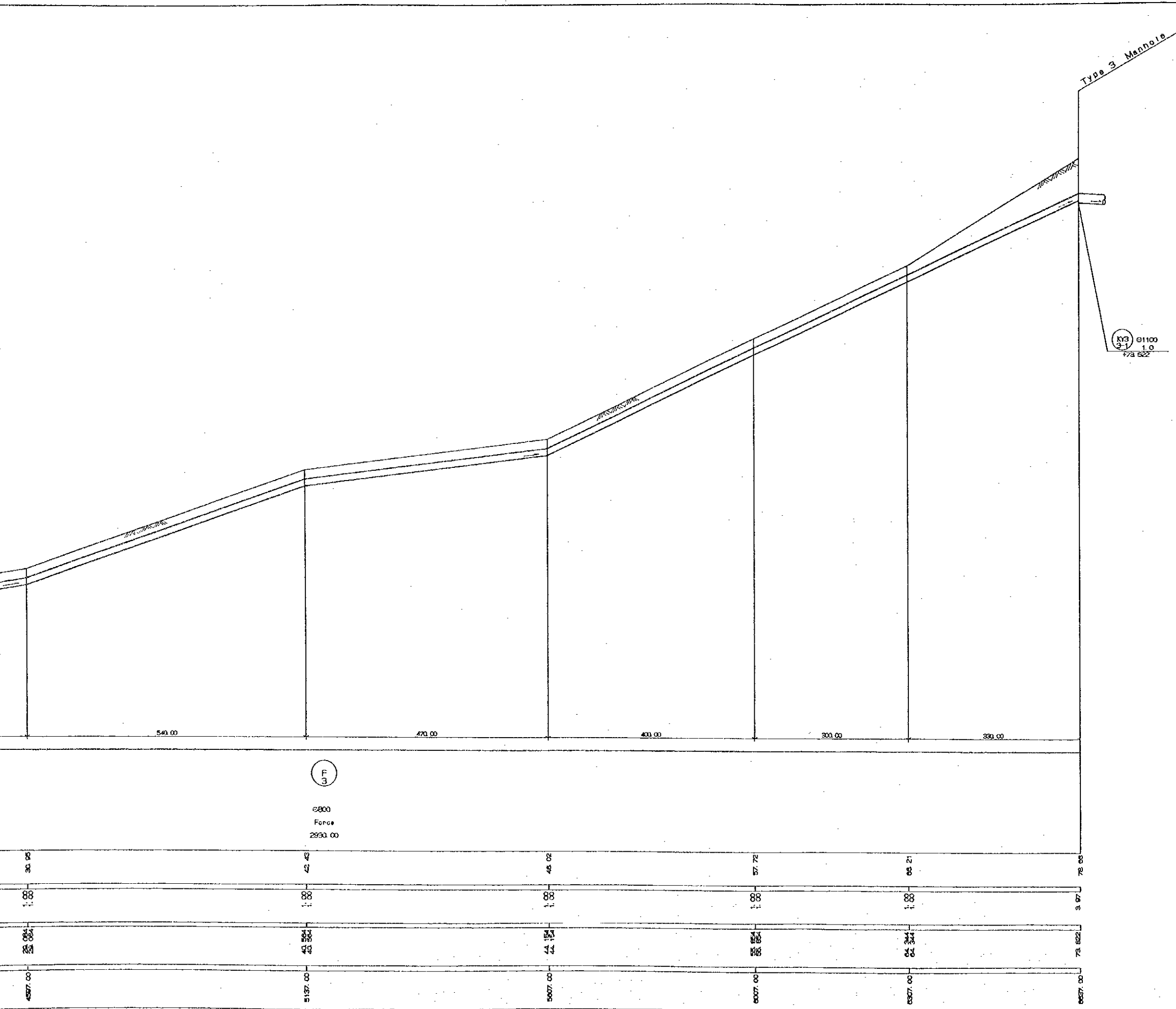
63.00 71.00 203.00 240.00 300.00 540.00 420.00 400.00 300.00

F
3

0000
Force
2990.00

C.T.L
(m)
I.E
(m)
E.C
(m)
O.S.E
(m)

3707.00	3767.00	3827.00	4387.00	4507.00	4567.00	5127.00	5687.00	6007.00	6207.00
18.134	22.702	23.302	24.502	25.082	25.662	31.262	36.862	40.062	42.062
1.00	1.00	1.00	1.00	1.00	1.00	1.1	1.1	1.00	1.00
20.00	24.00	25.10	25.40	27.00	30.00	42.40	46.00	57.72	64.21



G. S. E:Ground Surface
Elevation
E. C:Earth Cover
I. E:Invert Elevation
C. T. L:Cum Total Length

Table of Line				
F 3				

FIG 48

F/S SEWERAGE PROFILE (9)

THE STUDY
ON SEWERAGE DEVELOPMENT PLAN
IN THE AREA OF KHAN YUNIS
IN PALESTINIAN INTERIM
SELF-GOVERNMENT AUTHORITY



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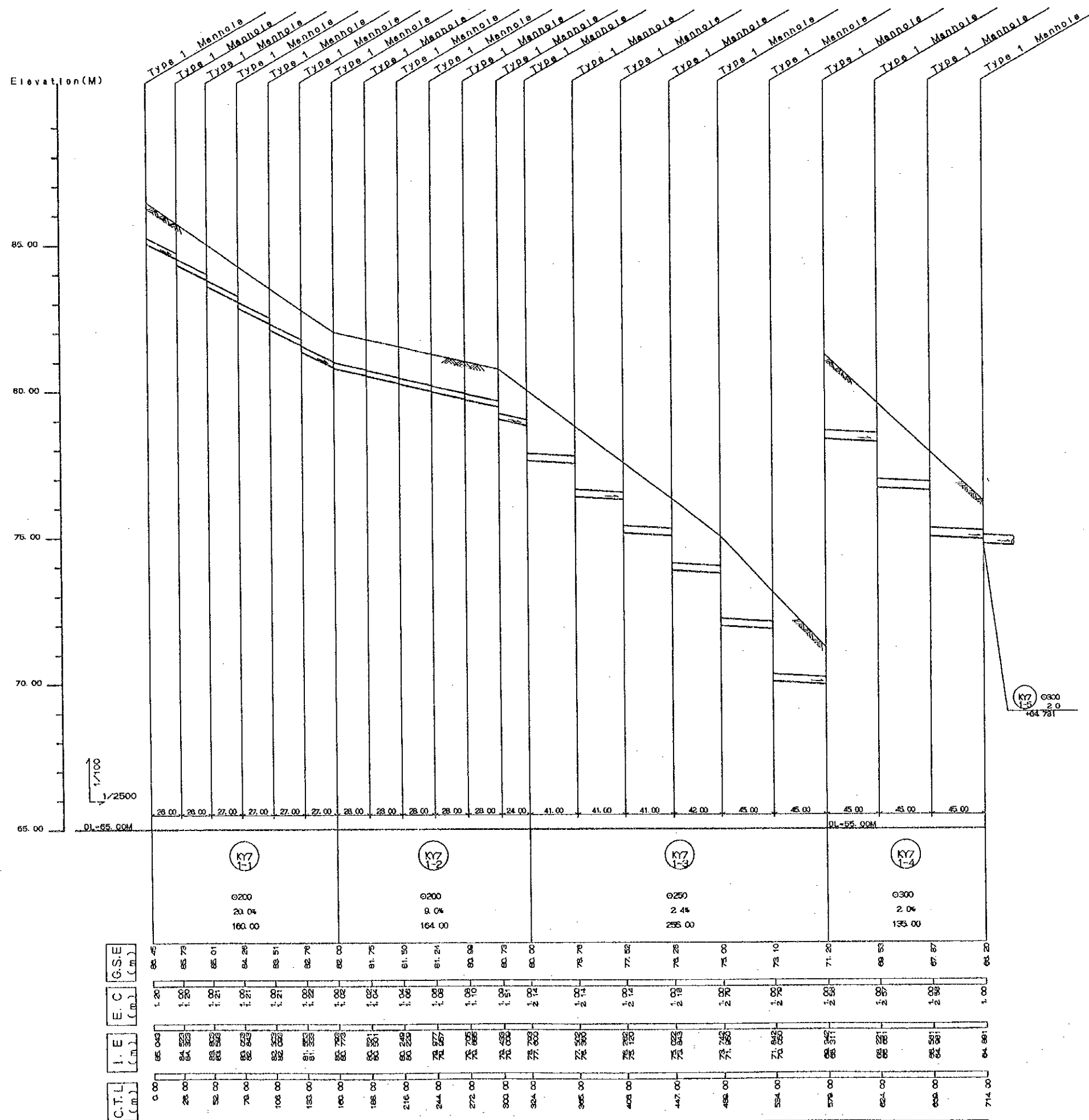


FIG.49

F/S SEWERAGE PROFILE (10)

THE STUDY
ON SEWERAGE DEVELOPMENT PLAN
IN THE AREA OF KHAN YUNIS
IN PALESTINIAN INTERIM
SELF-GOVERNMENT AUTHORITY



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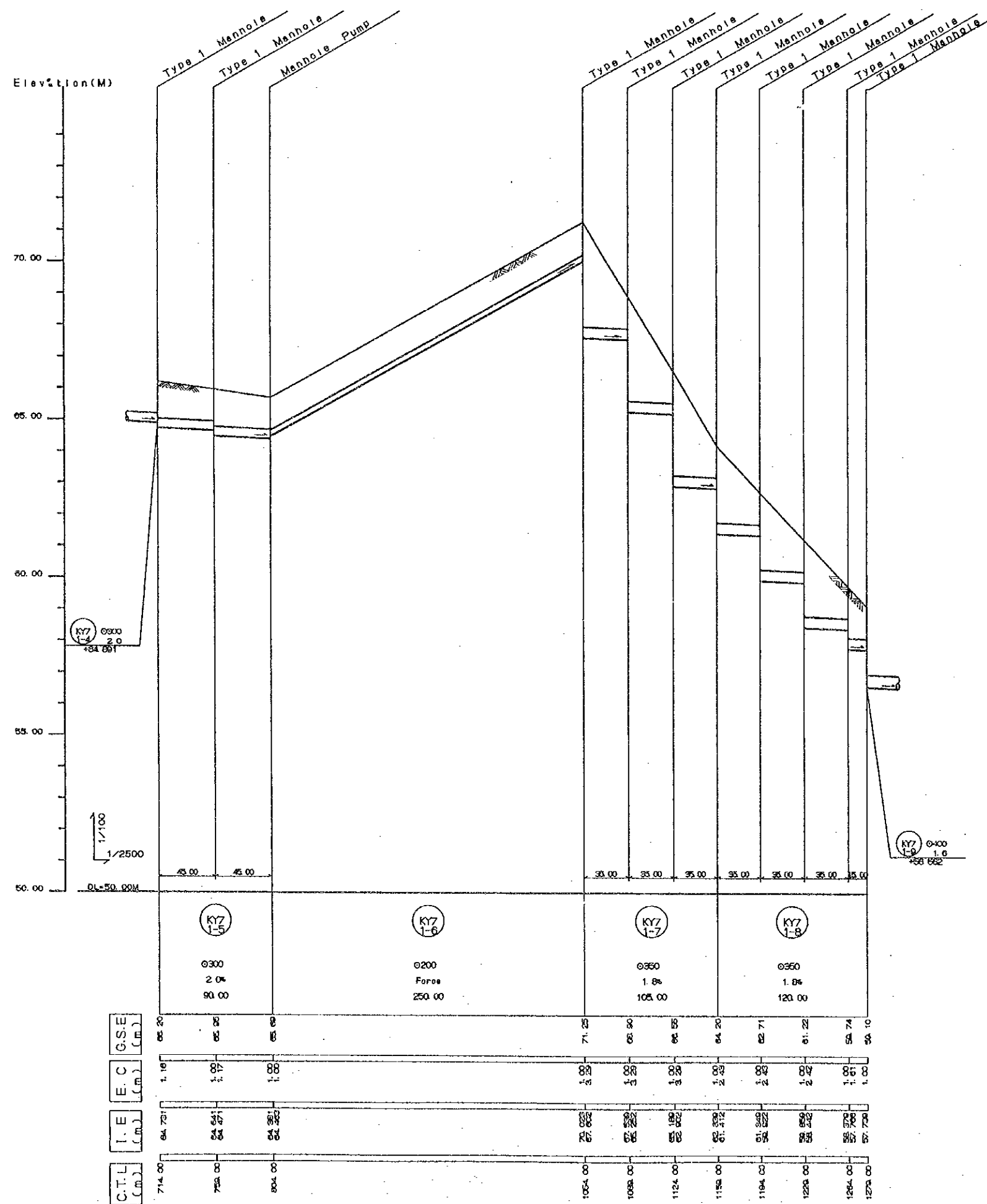


FIG.50

F/S SEWERAGE PROFILE (11)

THE STUDY
ON SEWERAGE DEVELOPMENT PLAN
IN THE AREA OF KHAN YUNIS
IN PALESTINIAN INTERIM
SELF-GOVERNMENT AUTHORITY



JAPAN INTERNATIONAL COOPERATION AGENCY

AD 1987

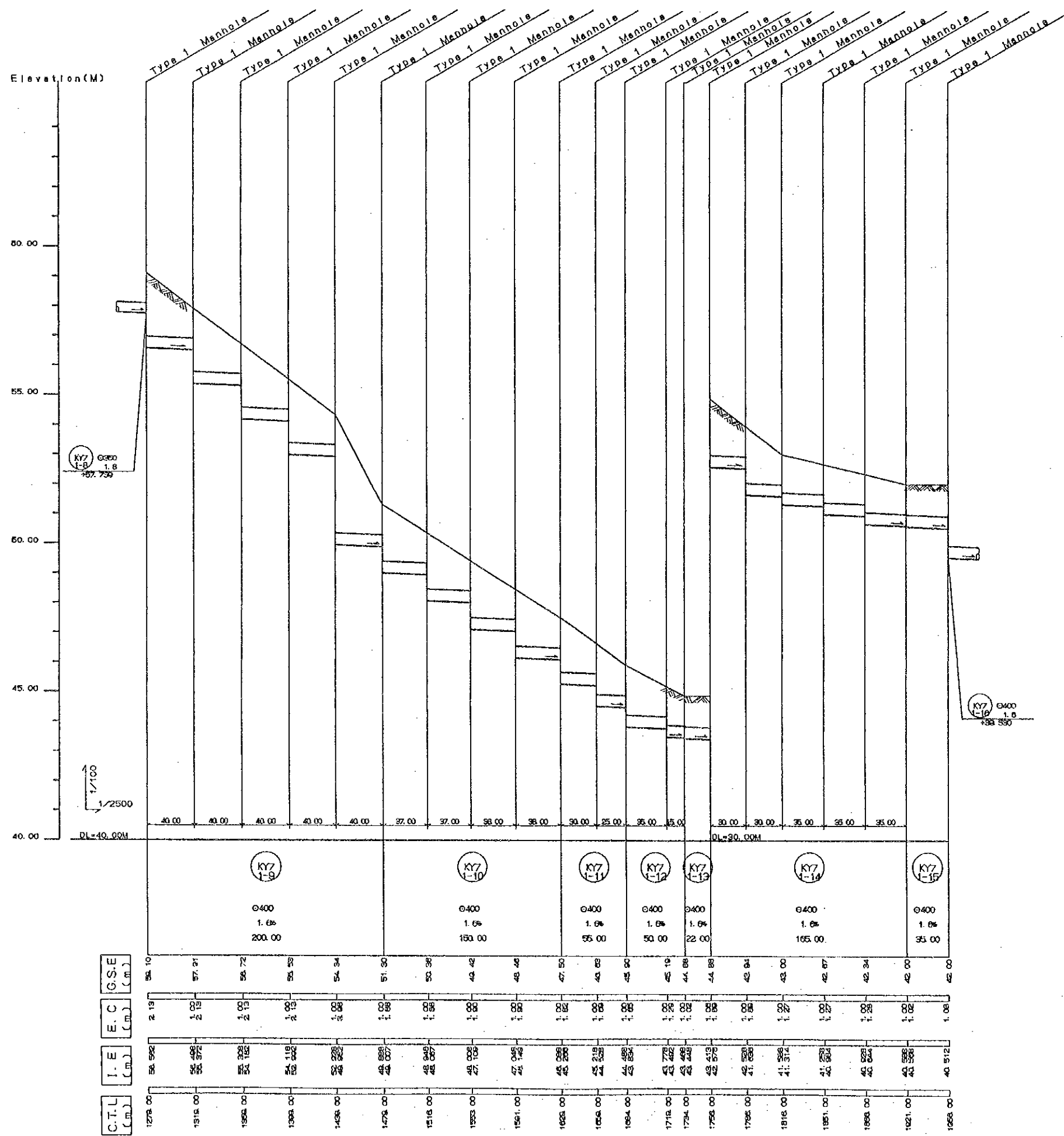


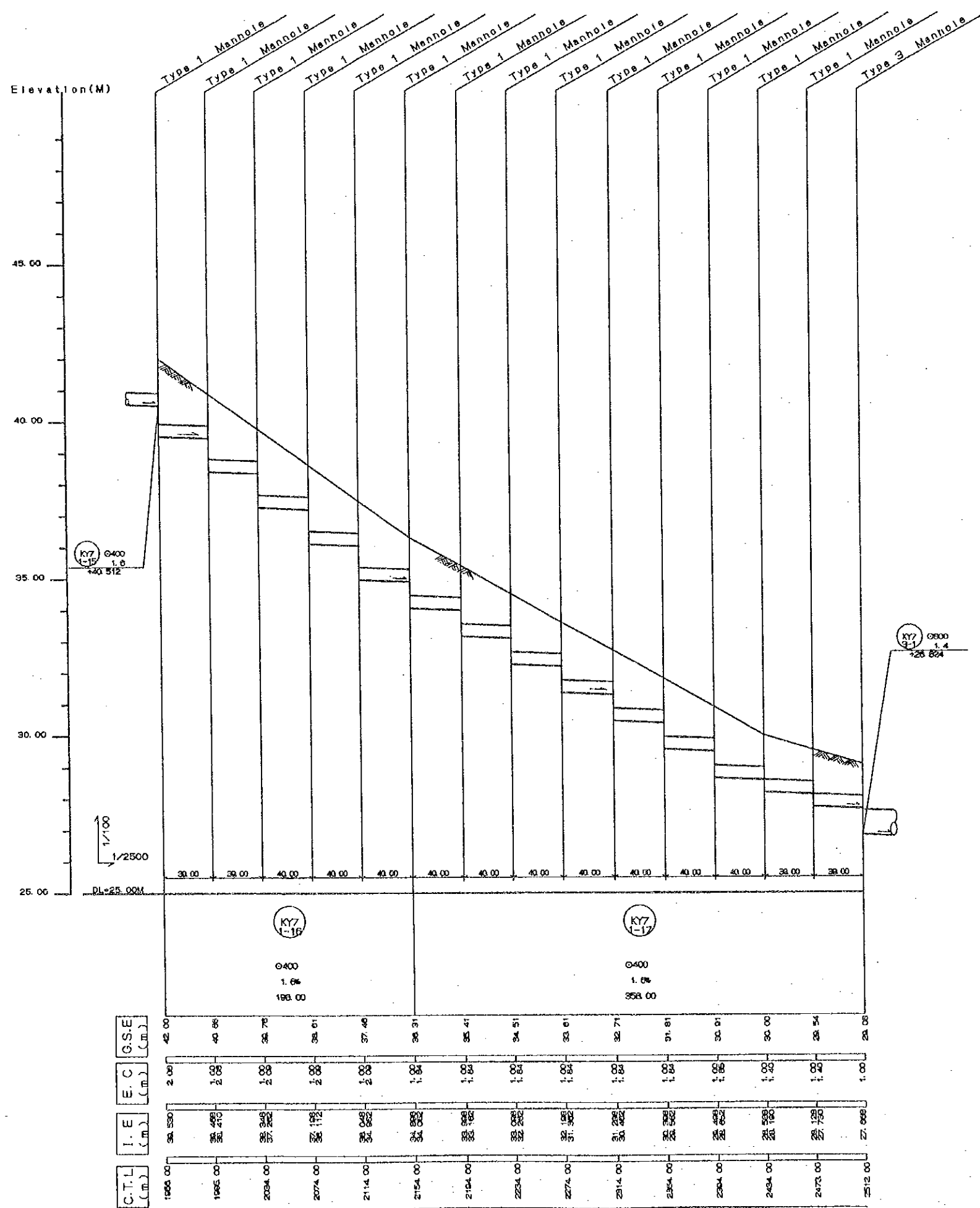
FIG.51

F/S SEWERAGE PROFILE (12)

THE STUDY
ON SEWERAGE DEVELOPMENT PLAN
IN THE AREA OF KHAN YUNIS
IN PALESTINIAN INTERIM
SELF-GOVERNMENT AUTHORITY



JAPAN INTERNATIONAL COOPERATION AGENCY



G.S.E: Ground Surface Elevation
 E.C: Earth Cover
 I.E: Invert Elevation
 C.T.L: Cum Total Length

Table of Line				
KY7-16	KY7-17			

FIG.52

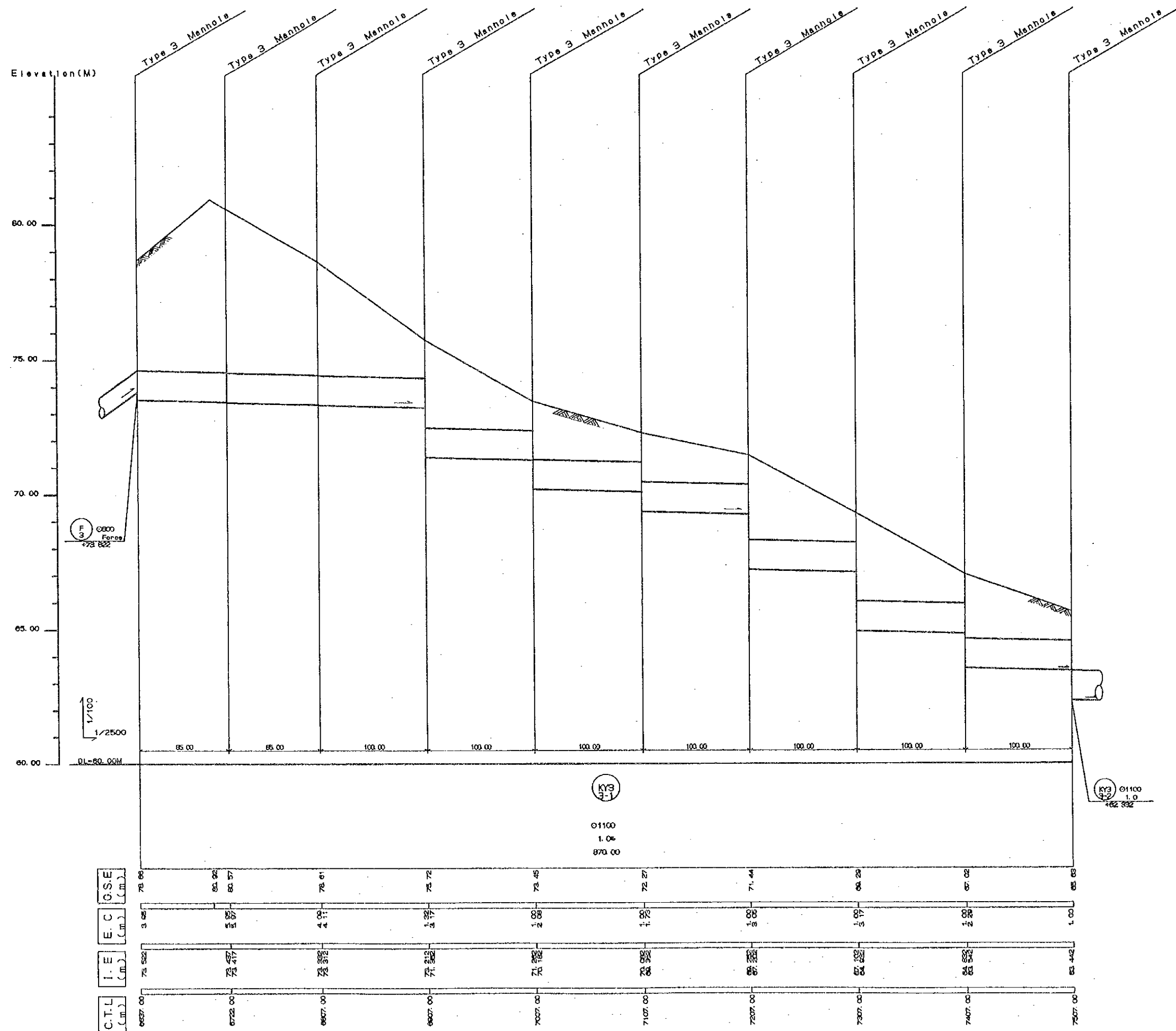
F/S SEWERAGE PROFILE (13)

THE STUDY
 ON SEWERAGE DEVELOPMENT PLAN
 IN THE AREA OF KHAN YUNIS
 IN PALESTINIAN INTERIM
 SELF-GOVERNMENT AUTHORITY



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G. S. E:Ground Surface
Elevation
E. C:Earth Cover
I. E:Invert Elevation
C. T. L:Cum Total Length

Table of Line				
KY3				
3-1				

FIG.54

F/S SEWERAGE PROFILE (15)

THE STUDY
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SELF-GOVERNMENT AUTHORITY



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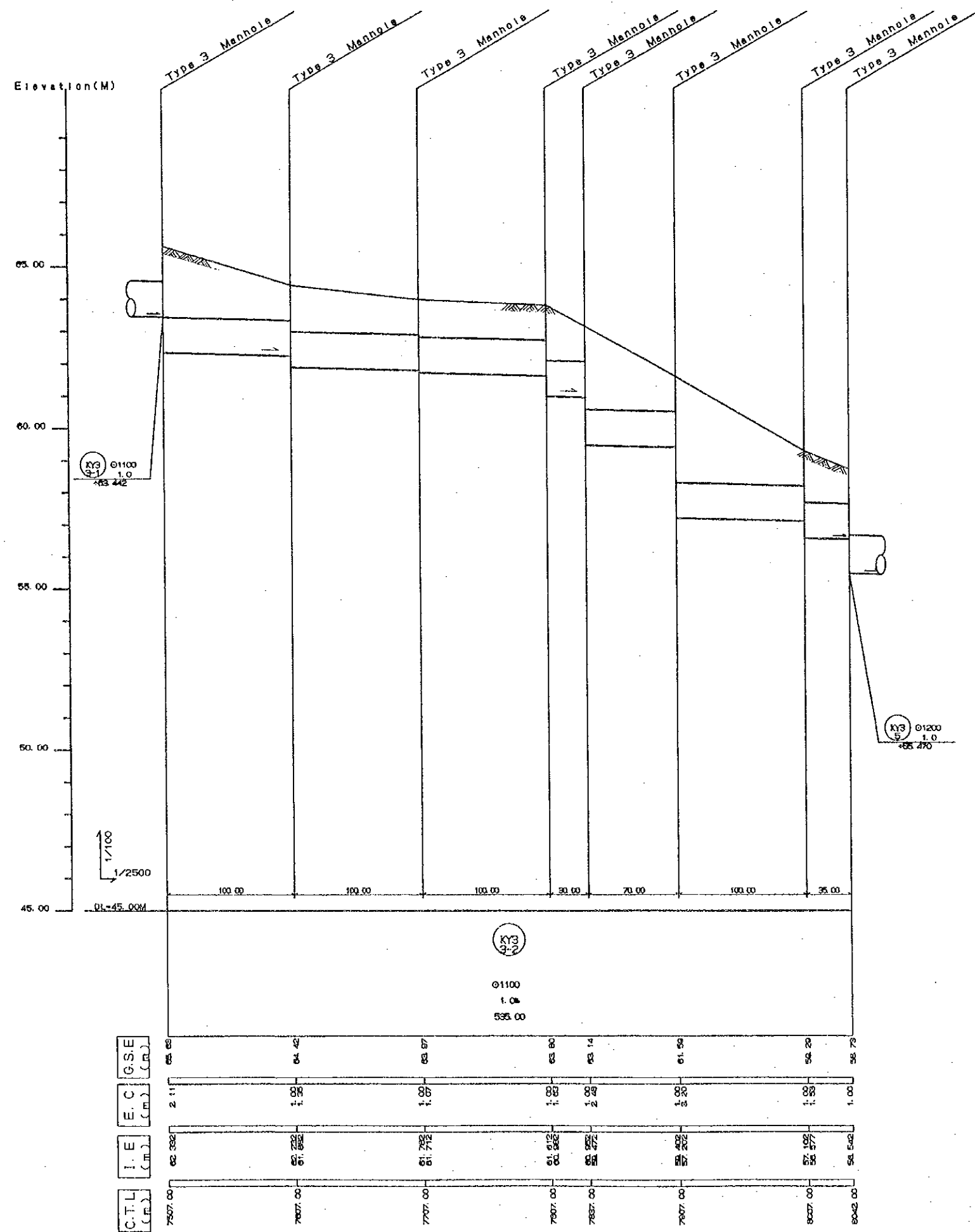


FIG.55

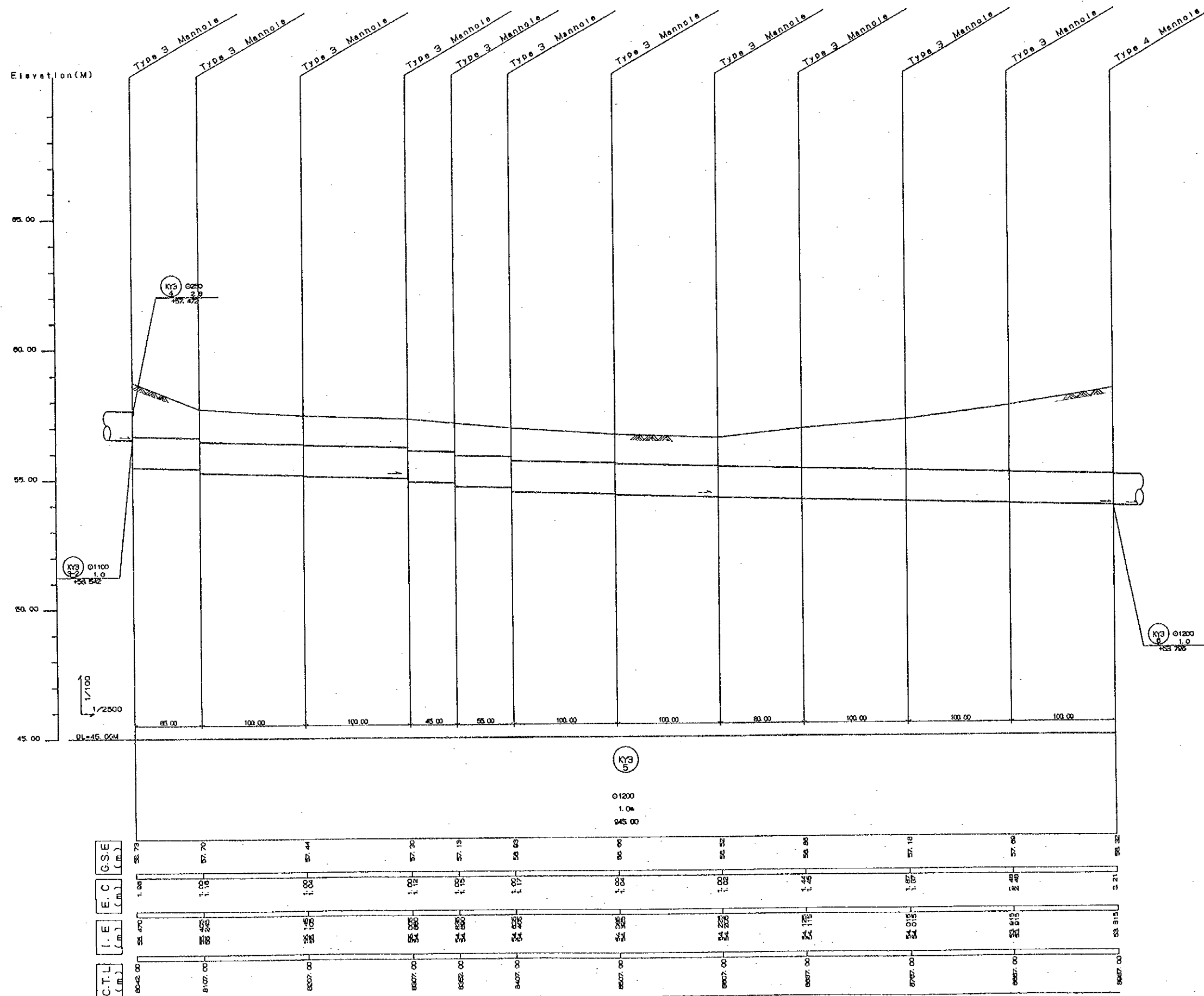
F/S SEWERAGE PROFILE (16)

THE STUDY
ON SEWERAGE DEVELOPMENT PLAN
IN THE AREA OF KHAN YUNIS
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G.S.E: Ground Surface Elevation
 E.C: Earth Cover
 I.E: Invert Elevation
 C.T.L: Cum Total Length

Table of Line				
KY3				
5				

FIG.56

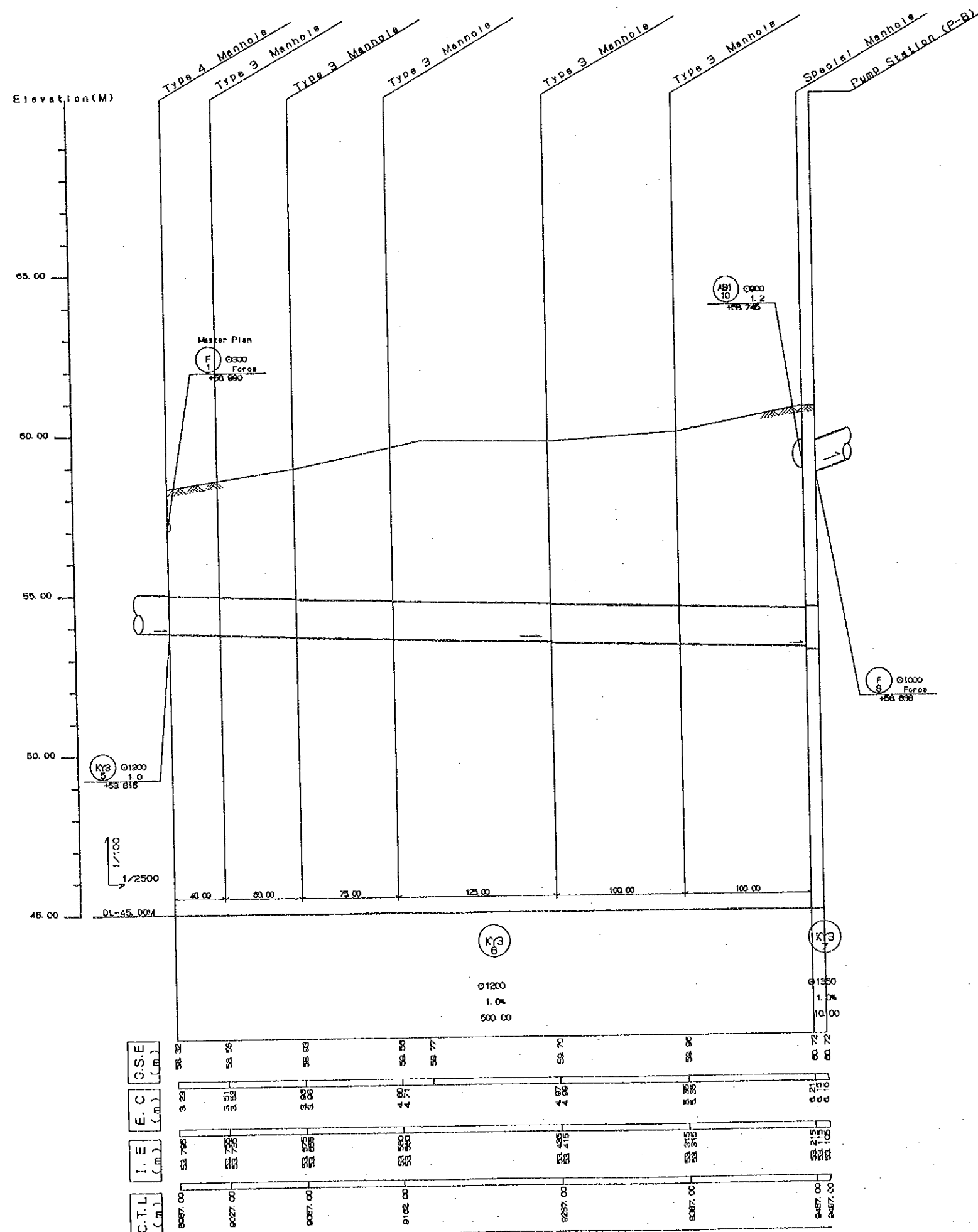
F/S SEWERAGE PROFILE (17)

THE STUDY
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G. S. E: Ground Surface Elevation
 E. C: Earth Cover
 I. E: Invert Elevation
 C. T. L: Cum Total Length

Table of Line				
KY3 6	KY3 7			

FIG.57

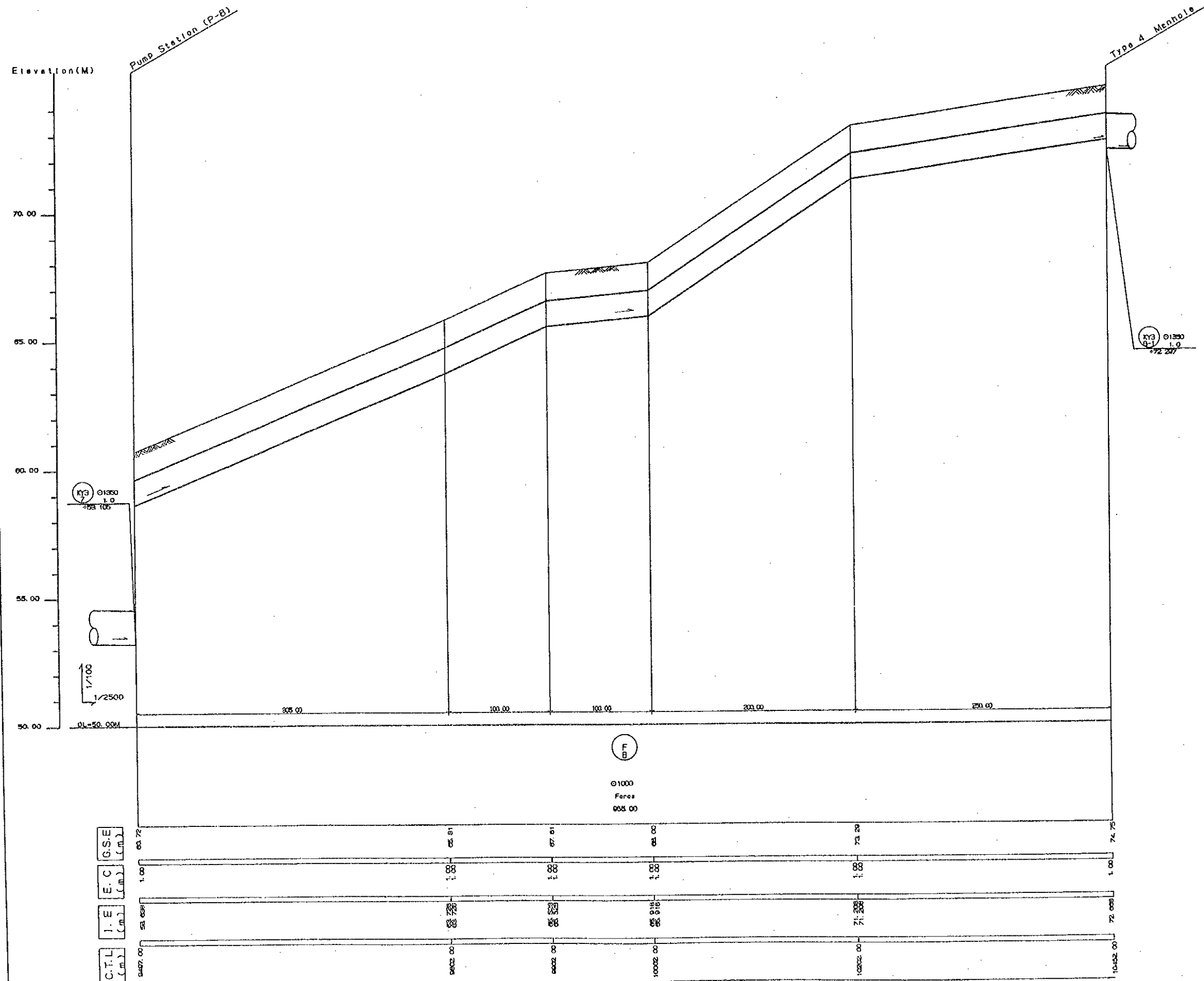
F/S SEWERAGE PROFILE (18)

THE STUDY
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G. S. E: Ground Surface Elevation
 E. C: Earth Cover
 I. E: Invert Elevation
 C. T. L: Cum Total Length

Table of Line				

FIG.58

F/S SEWERAGE PROFILE (19)

THE STUDY
 ON SEWERAGE DEVELOPMENT PLAN
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 SELF-GOVERNMENT AUTHORITY



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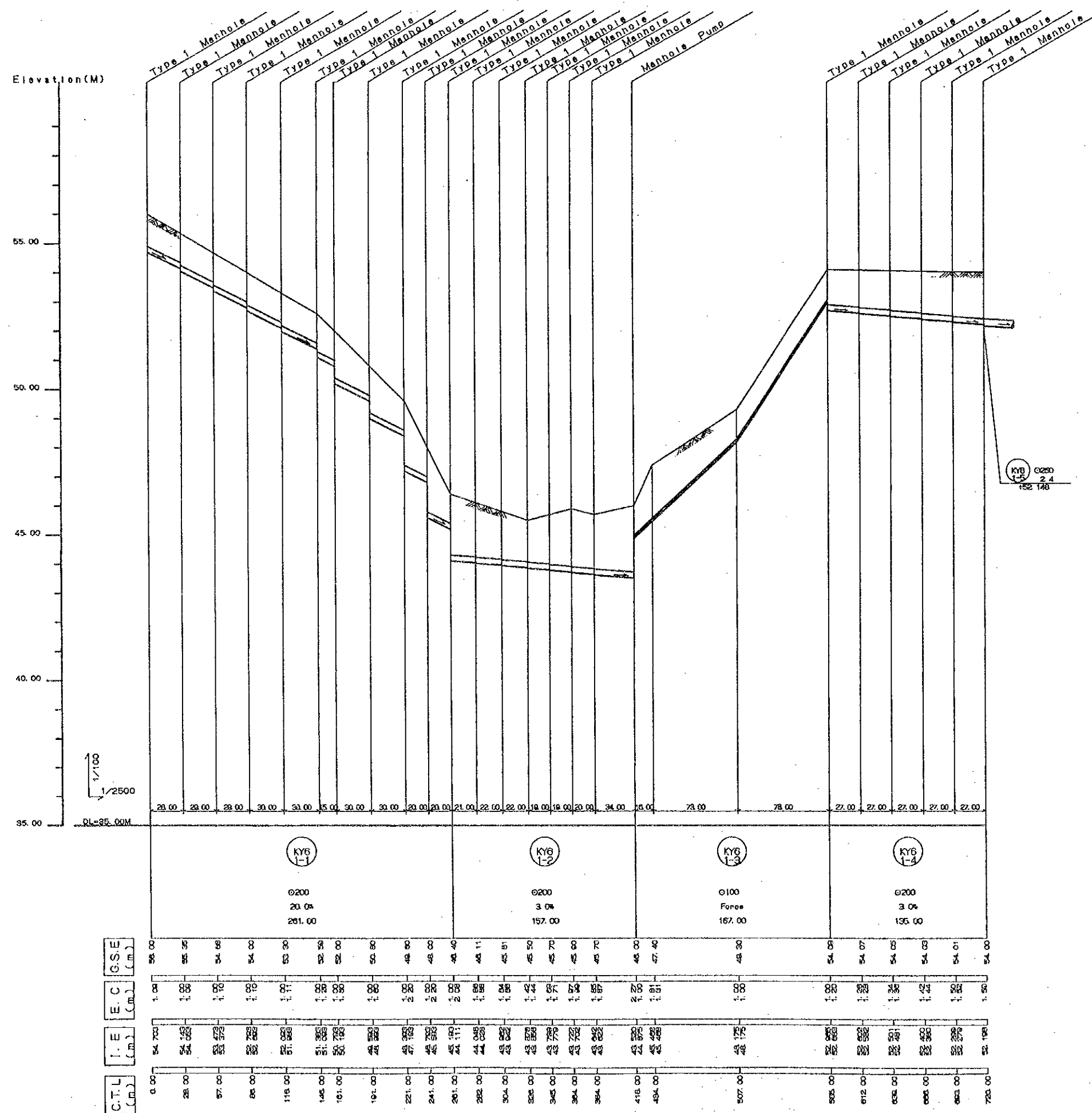


FIG.60

F/S SEWERAGE PROFILE (21)

THE STUDY
ON SEWERAGE DEVELOPMENT PLAN
IN THE AREA OF KHAN YUNIS
IN PALESTINIAN INTERIM
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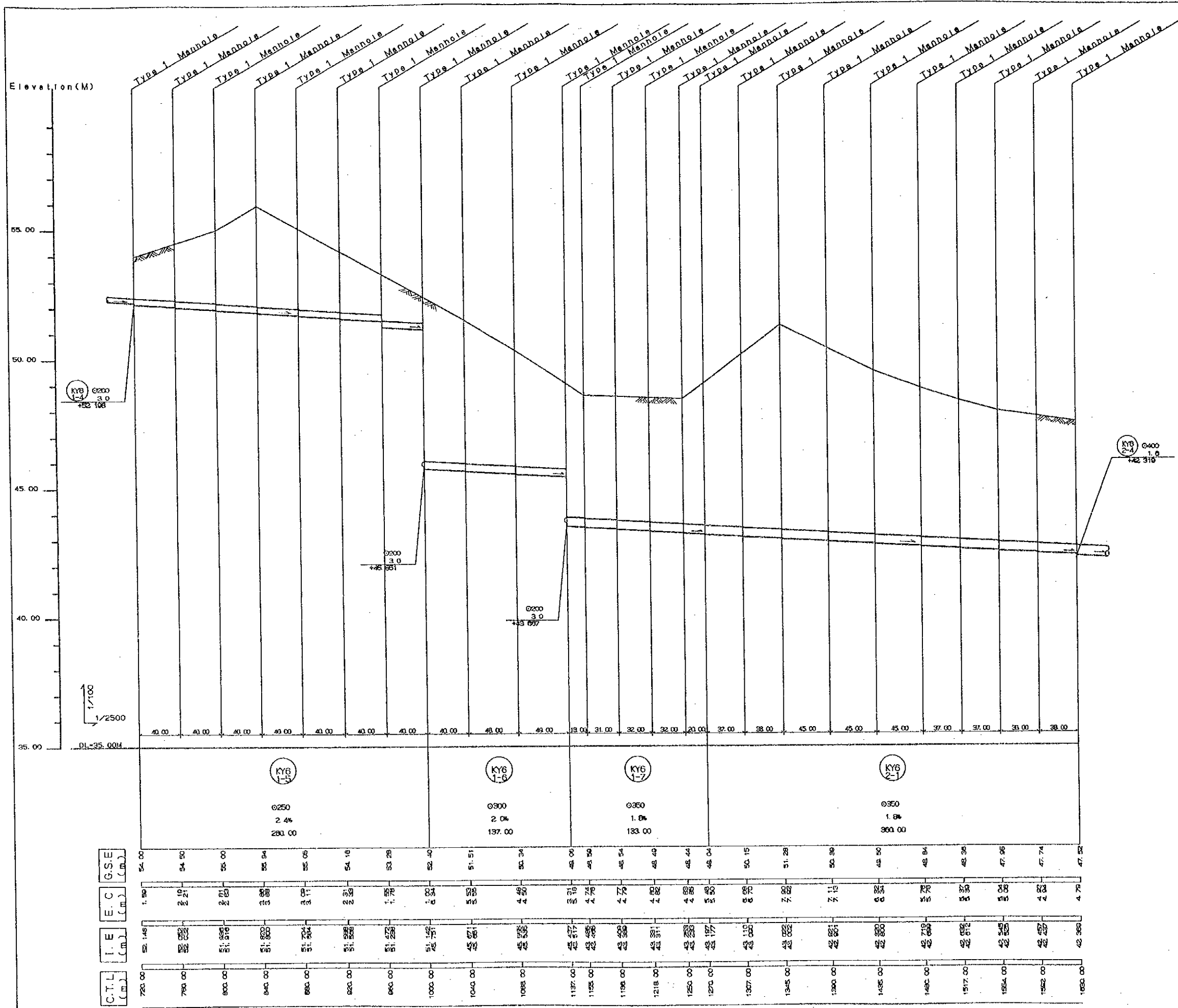


FIG.61

F/S SEWERAGE PROFILE (22)

THE STUDY
ON SEWERAGE DEVELOPMENT PLAN
IN THE AREA OF KHAN YUNIS
IN PALESTINIAN INTERIM
SELF-GOVERNMENT AUTHORITY

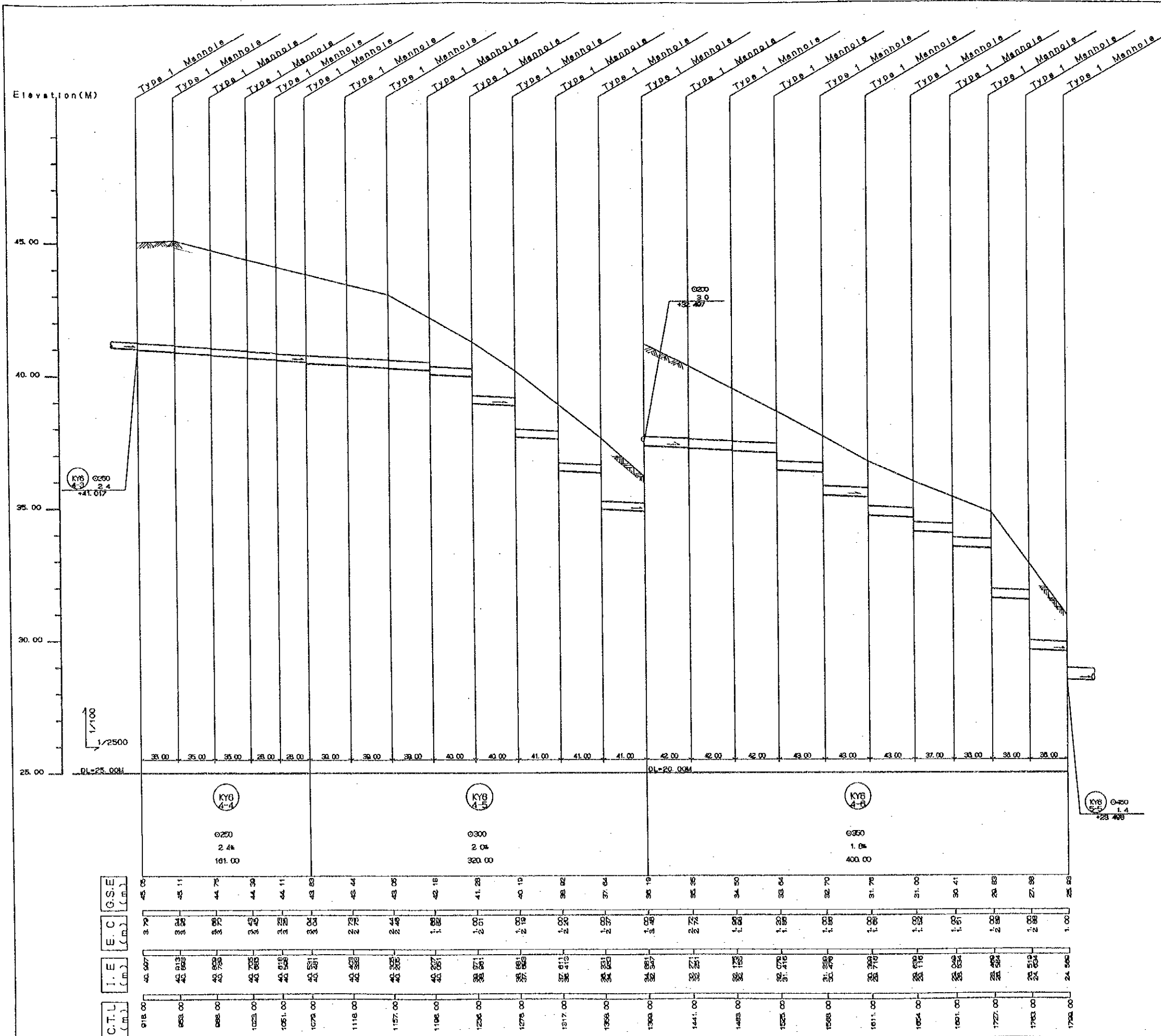
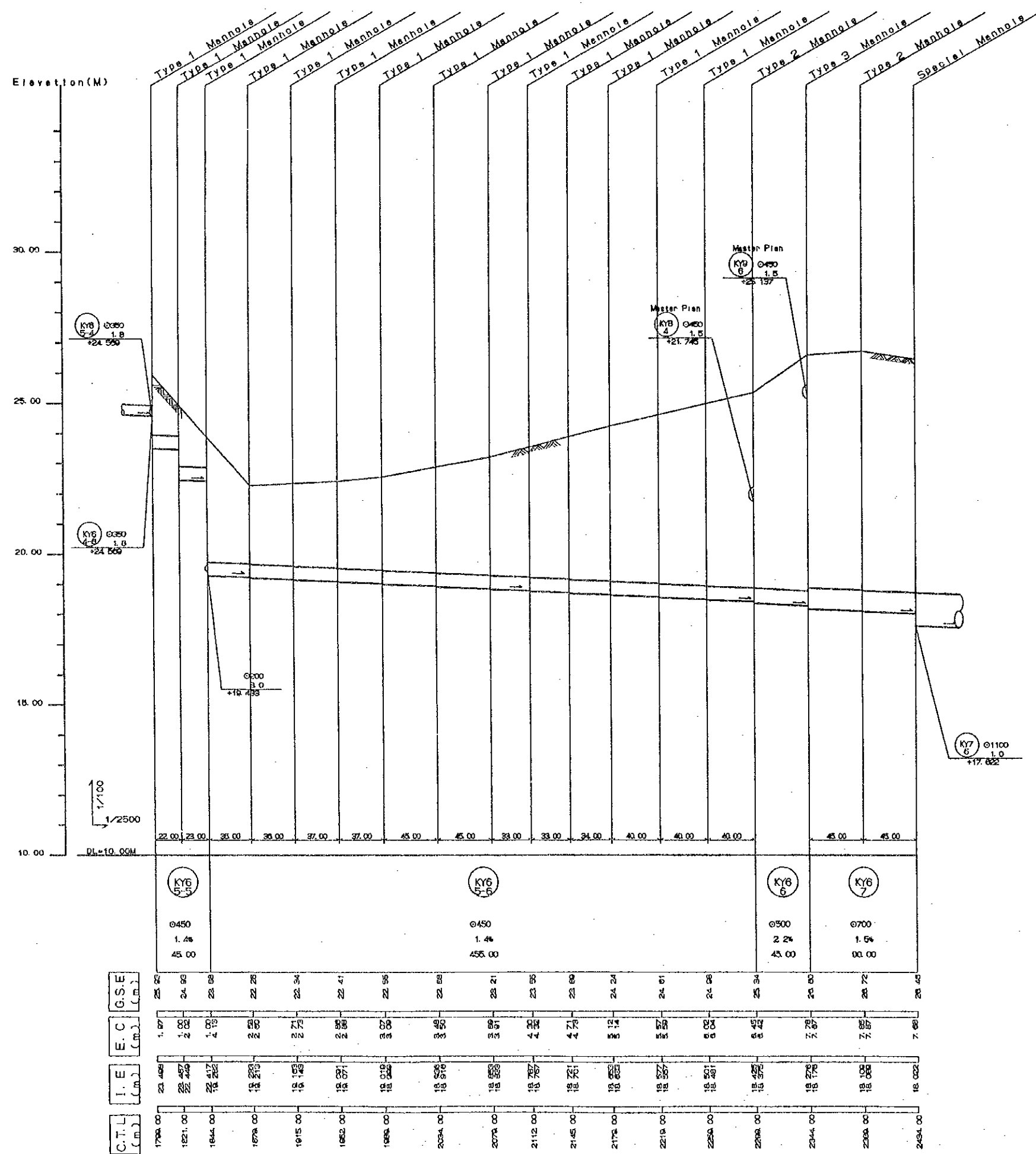


FIG.64

F/S SEWERAGE PROFILE (25)

THE STUDY
ON SEWERAGE DEVELOPMENT PLAN
IN THE AREA OF KHAN YUNIS
IN PALESTINIAN INTERIM
SELF-GOVERNMENT AUTHORITY



G. S. E: Ground Surface Elevation
 E. C: Earth Cover
 I. E: Invert Elevation
 C. T. L: Cum Total Length

Table of Line				
KY6 5-5	KY6 5-6	KY6 6	KY6 7	

FIG.65

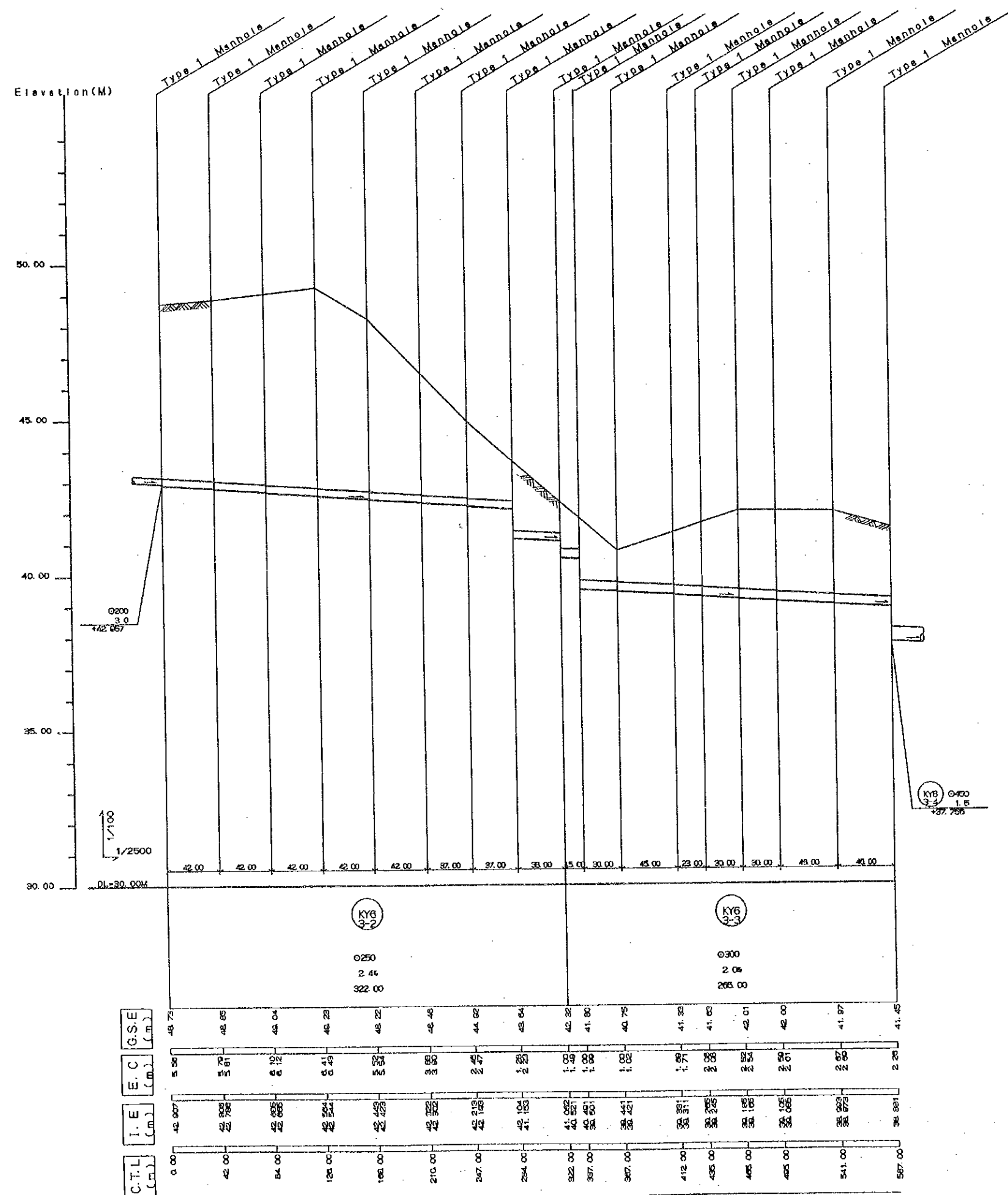
F/S SEWERAGE PROFILE (26)

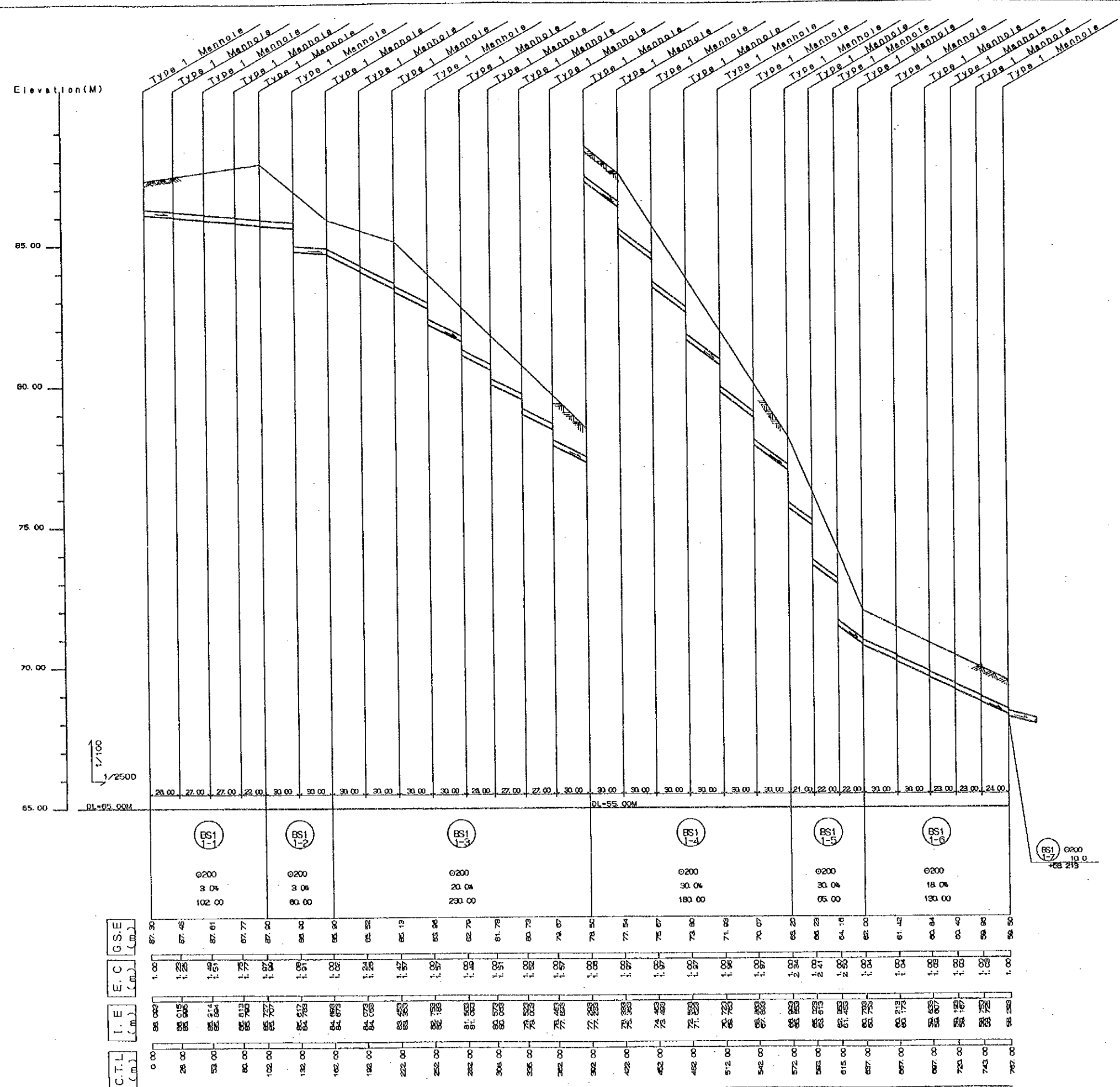
THE STUDY
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G. S. E:Ground Surface Elevation
 E. C:Earth Cover
 I. E:Invert Elevation
 C. T. L:Cum Total Length

Table of Line				
BS1 1-1	BS1 1-2	BS1 1-3	BS1 1-4	BS1 1-5
BS1 1-6				

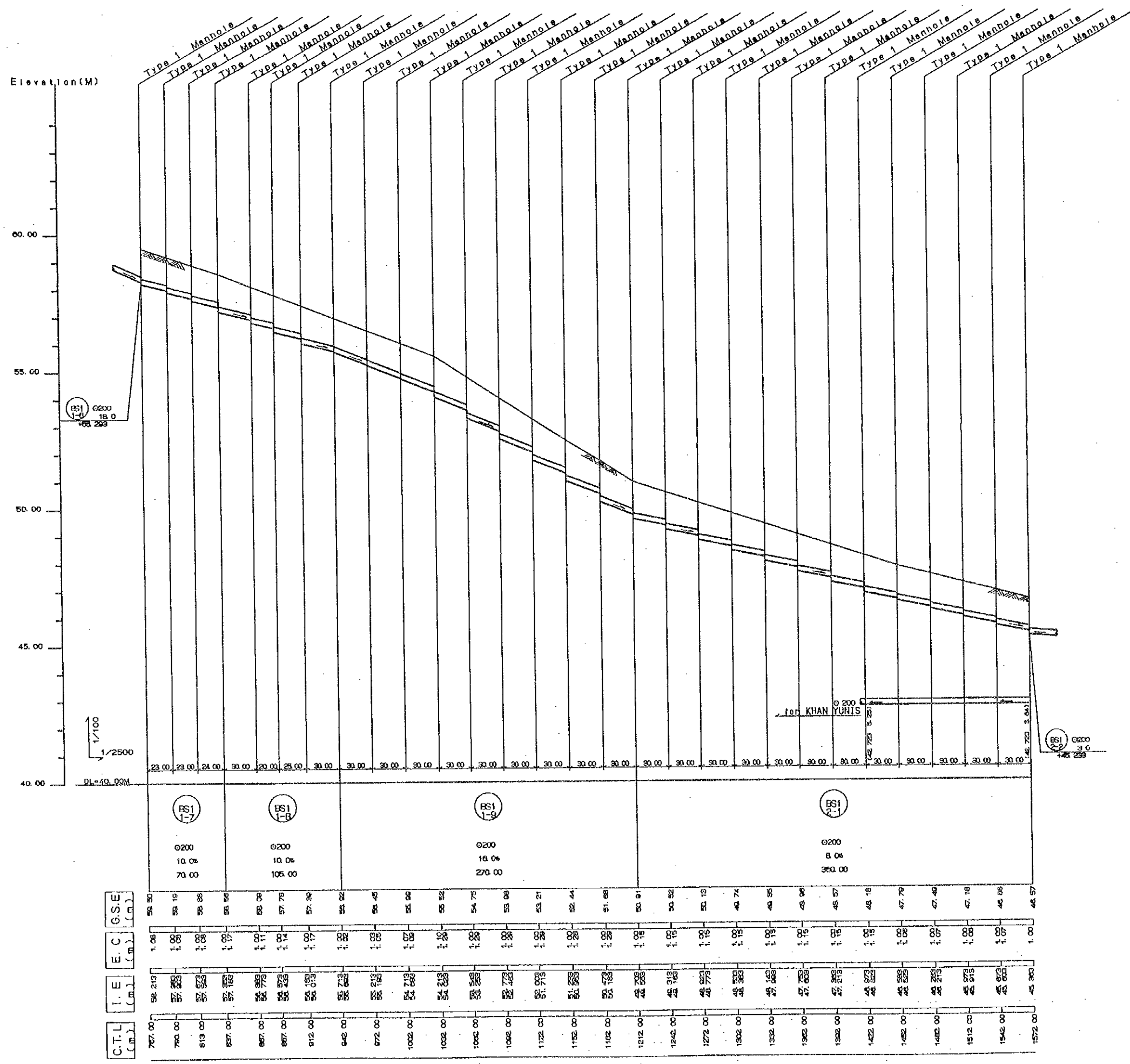
FIG.69

F/S SEWERAGE PROFILE (30)

THE STUDY
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G. S. E:Ground Surface
Elevation
E. C:Earth Cover
I. E:Invert Elevation
C. T. L:Cum Total Length

Table of Line			
BS1 1-7	BS1 1-8	BS1 1-9	BS1 2-1

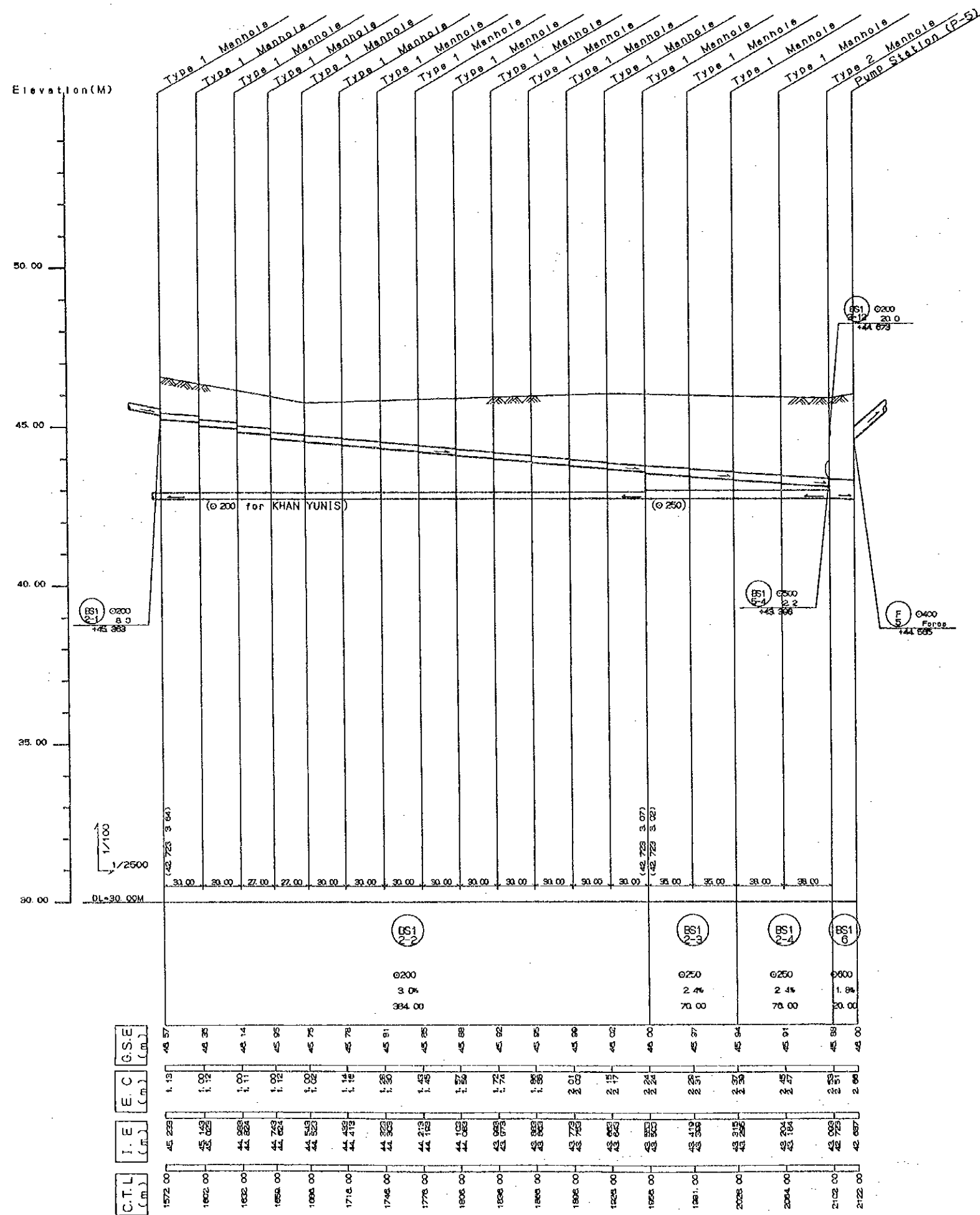
FIG.70

F/S SEWERAGE PROFILE (31)

THE STUDY
ON SEWERAGE DEVELOPMENT PLAN
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G. S. E: Ground Surface Elevation
 E. C: Earth Cover
 I. E: Invert Elevation
 C. T. L: Cum Total Length

Table of Line			
BS1 2-2	BS1 2-3	BS1 2-4	BS1 6

FIG.71

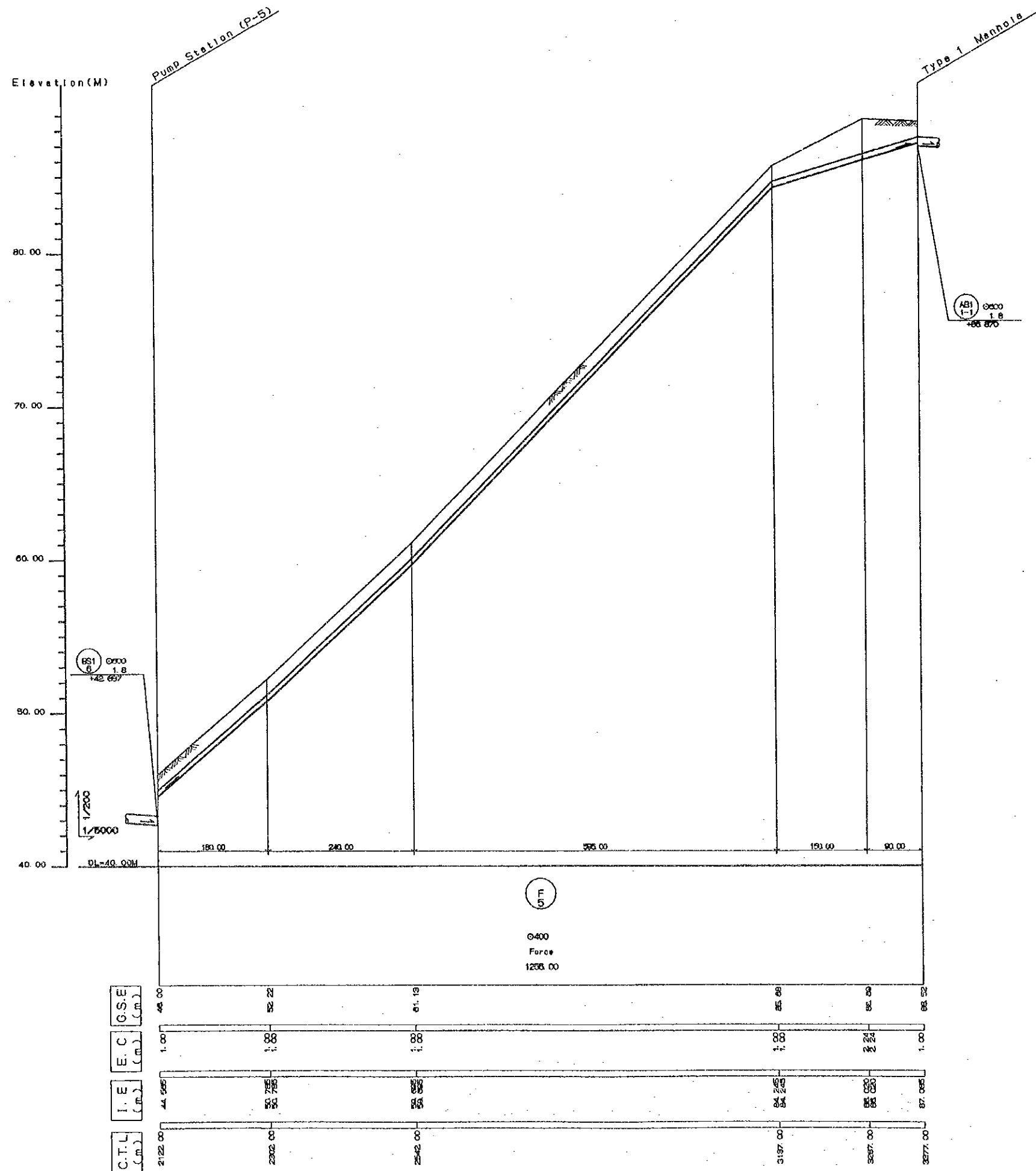
F/S SEWERAGE PROFILE (32)

THE STUDY
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G. S. E: Ground Surface Elevation
 E. C: Earth Cover
 I. E: Invert Elevation
 C. T. L: Cum Total Length

Table of Line				
F				
5				

FIG.72

F/S SEWERAGE PROFILE (33)

THE STUDY
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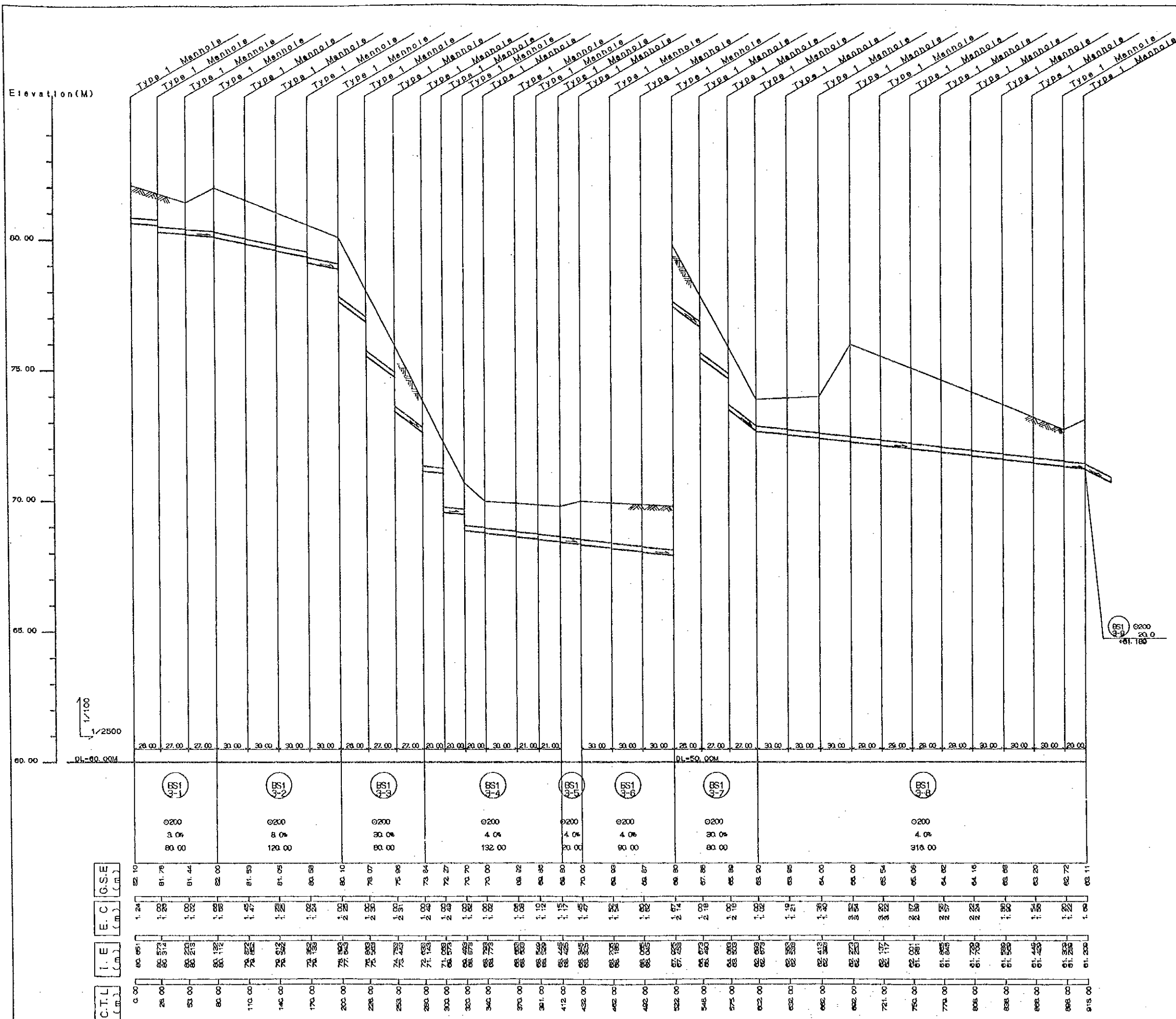


FIG.73

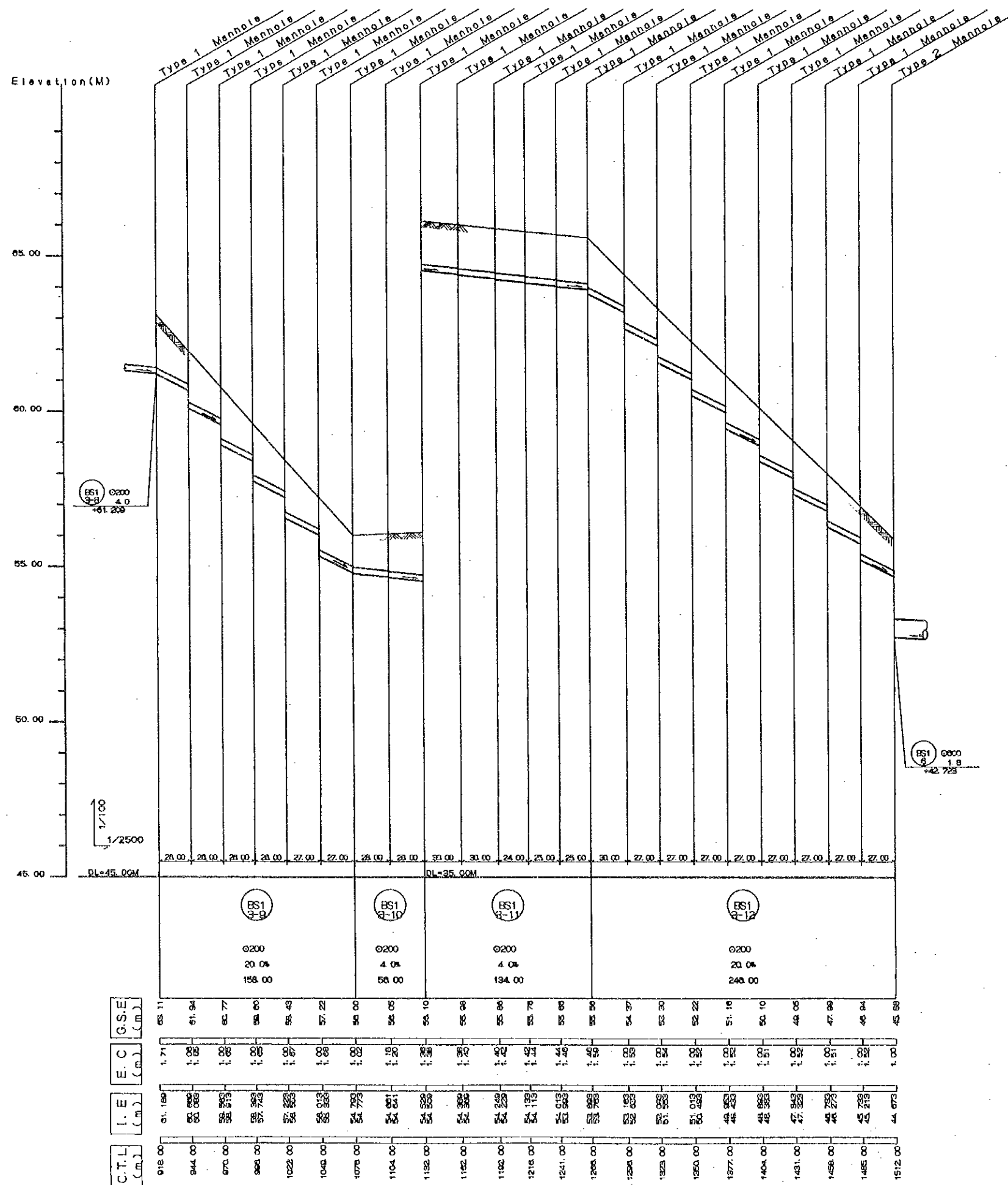
F/S SEWERAGE PROFILE (34)

THE STUDY
ON SEWERAGE DEVELOPMENT PLAN
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G. S. E: Ground Surface Elevation
 E. C: Earth Cover
 I. E: Invert Elevation
 C. T. L: Cum Total Length

Table of Line			
BS1 3-9	BS1 3-10	BS1 3-11	BS1 3-12

FIG.74

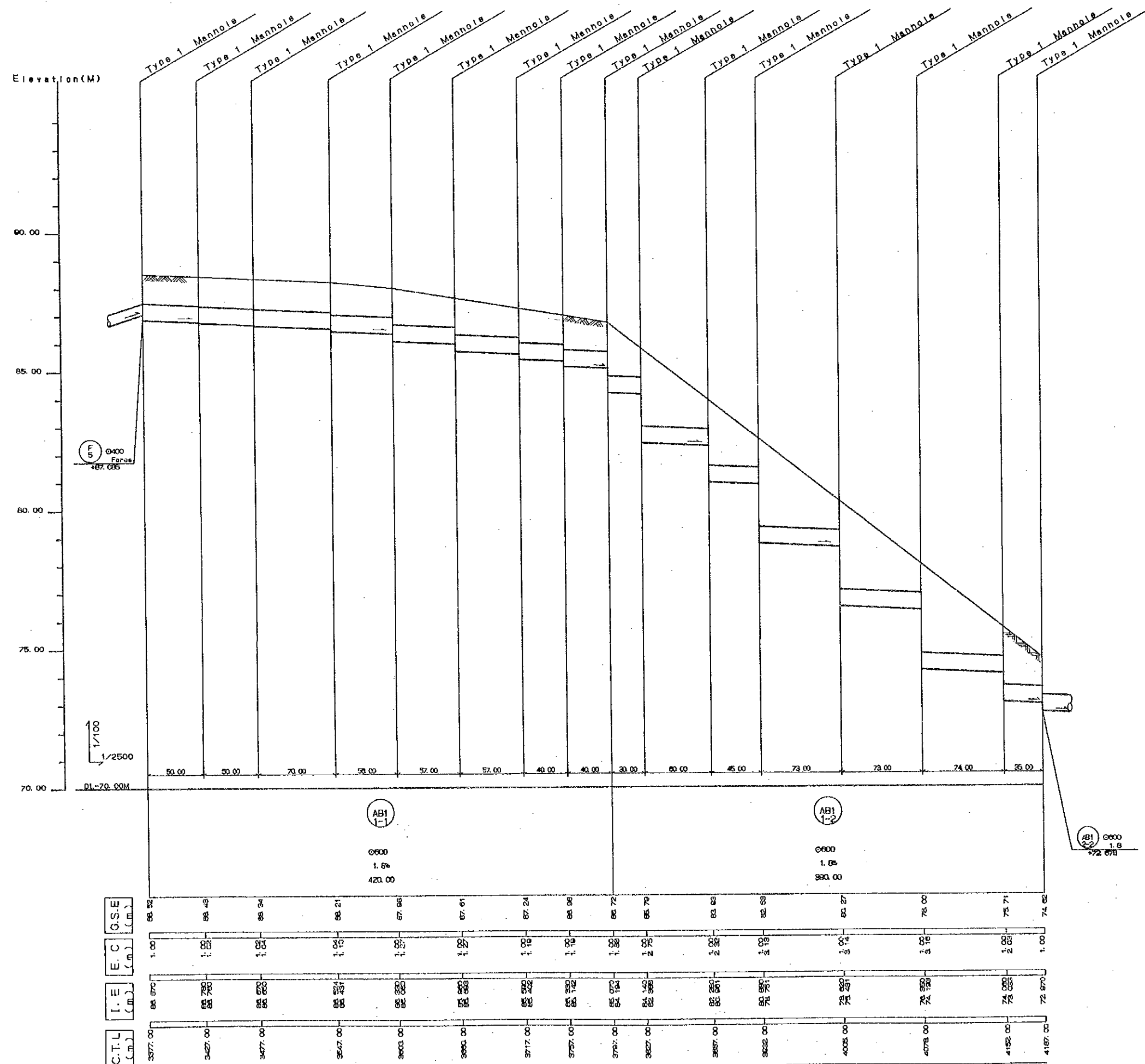
F/S SEWERAGE PROFILE (35)

THE STUDY
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G.S.E: Ground Surface Elevation
 E.C: Earth Cover
 I.E: Invert Elevation
 C.T.L: Cum Total Length

Table of Line			
AB1 1-1	AB1 1-2		

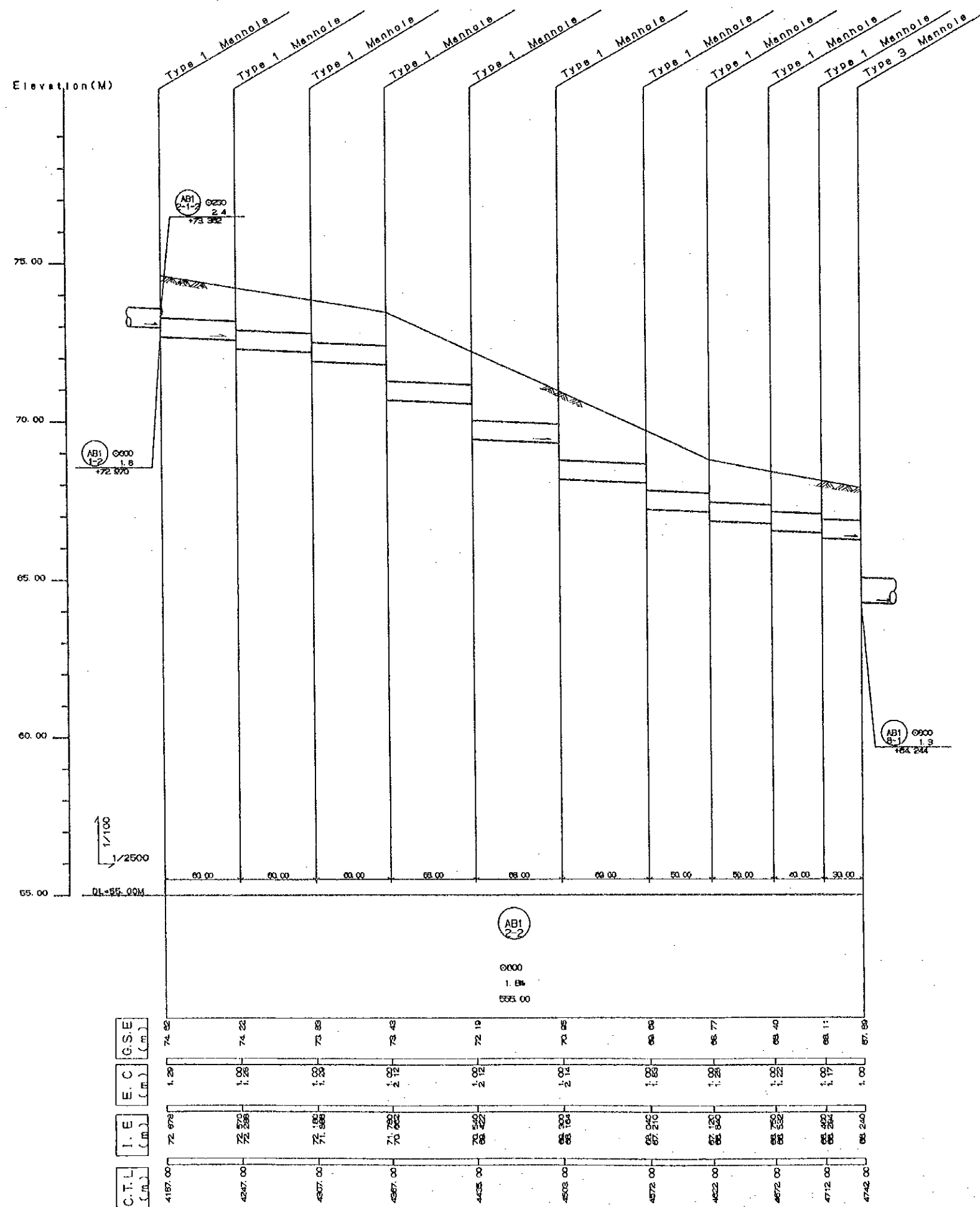
FIG.76

F/S SEWERAGE PROFILE (37)

THE STUDY
 ON SEWERAGE DEVELOPMENT PLAN
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G. S. E: Ground Surface Elevation
 E. C: Earth Cover
 I. E: Invert Elevation
 C. T. L: Cum Total Length

Table of Line				
AB1				
2-2				

FIG.77

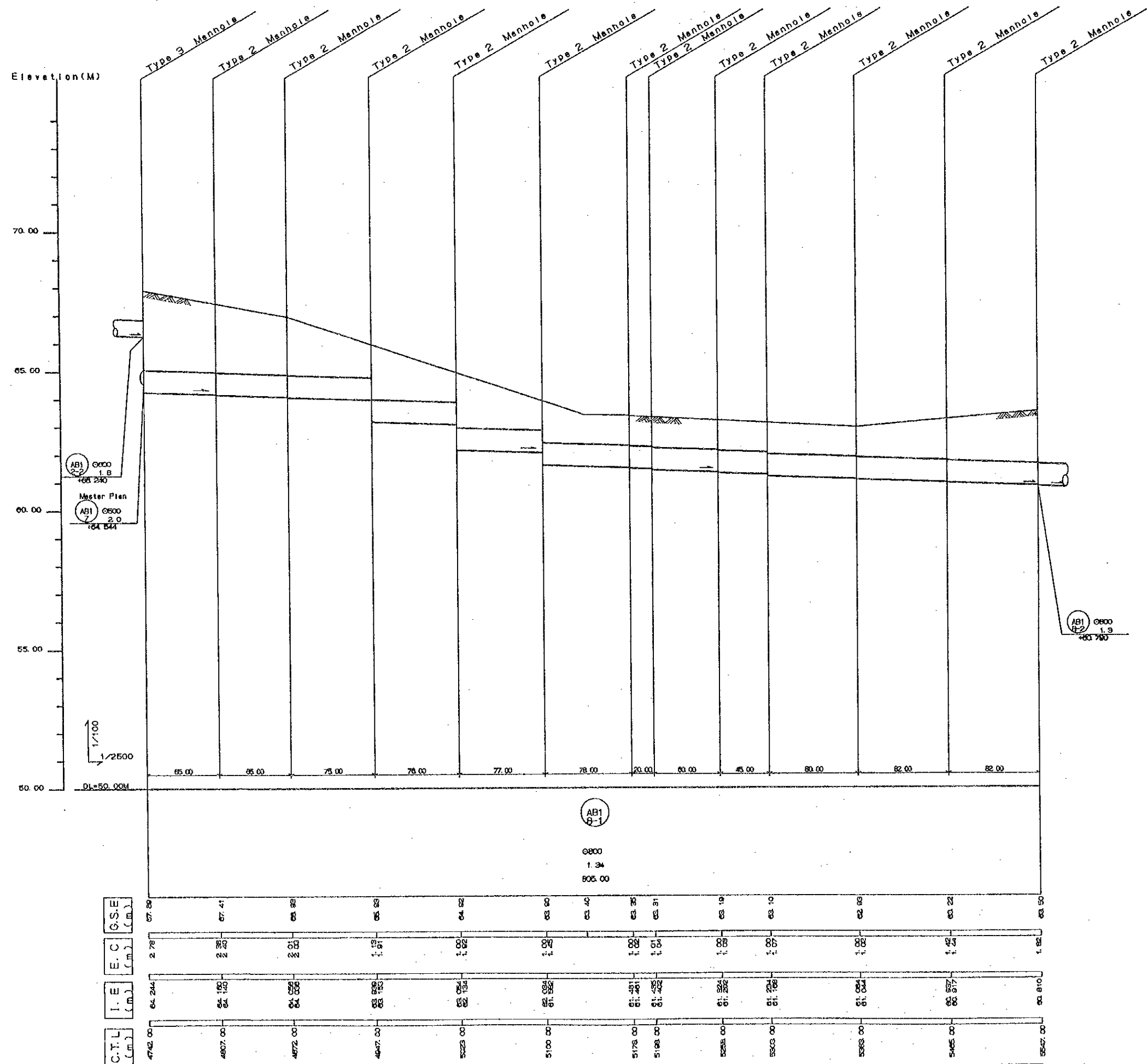
F/S SEWERAGE PROFILE (38)

THE STUDY
 ON SEWERAGE DEVELOPMENT PLAN
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G.S.E: Ground Surface Elevation
 E.C: Earth Cover
 I.E: Invert Elevation
 C.T.L: Cum Total Length

Table of Line			
AB1			
6-1			

FIG.78

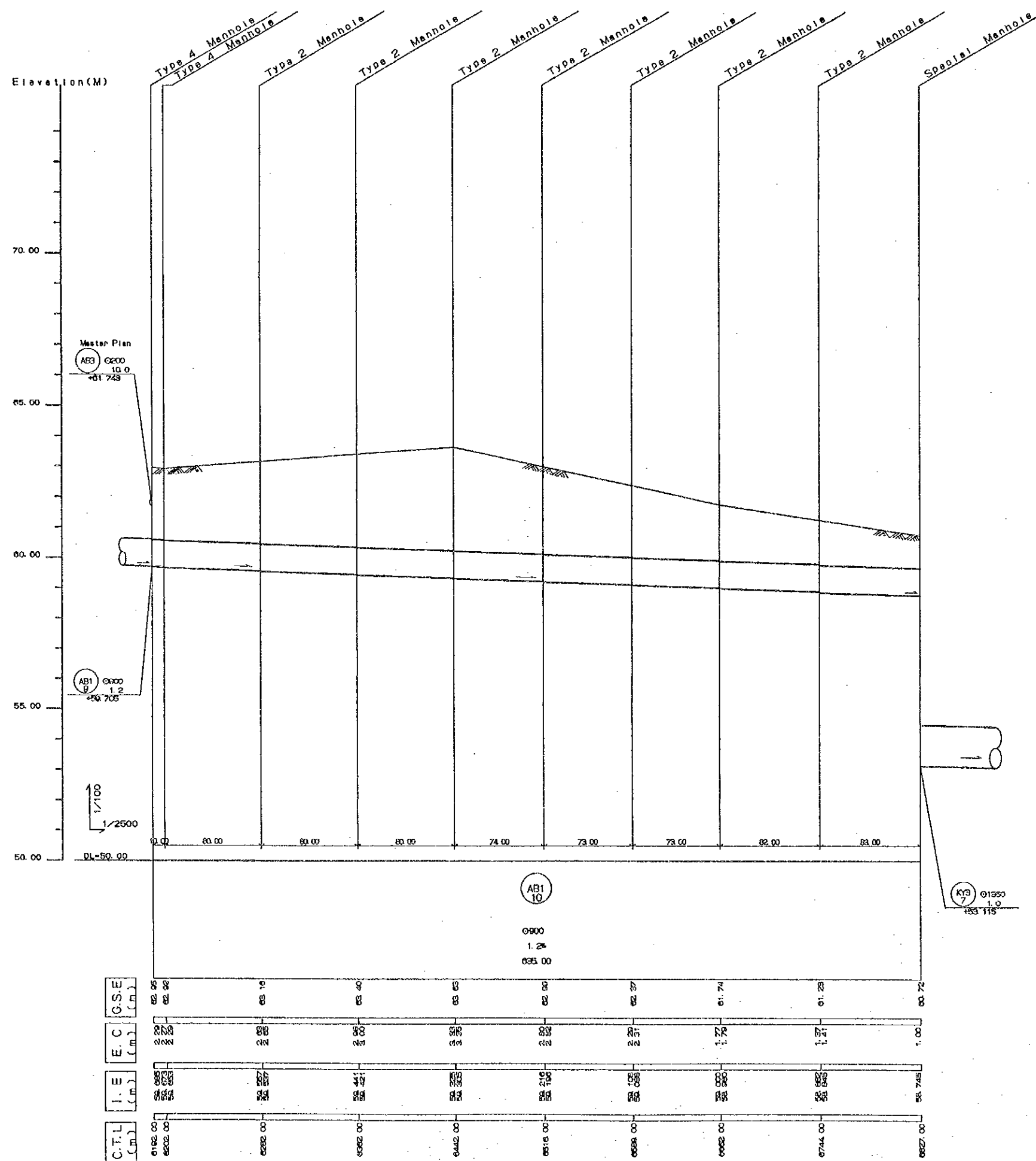
F/S SEWERAGE PROFILE (39)

THE STUDY
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G. S. E:Ground Surface
Elevation
E. C:Earth Cover
I. E:Invert Elevation
C. T. L:Cum Total Length

Table of Line			
AB1 10			

FIG.80

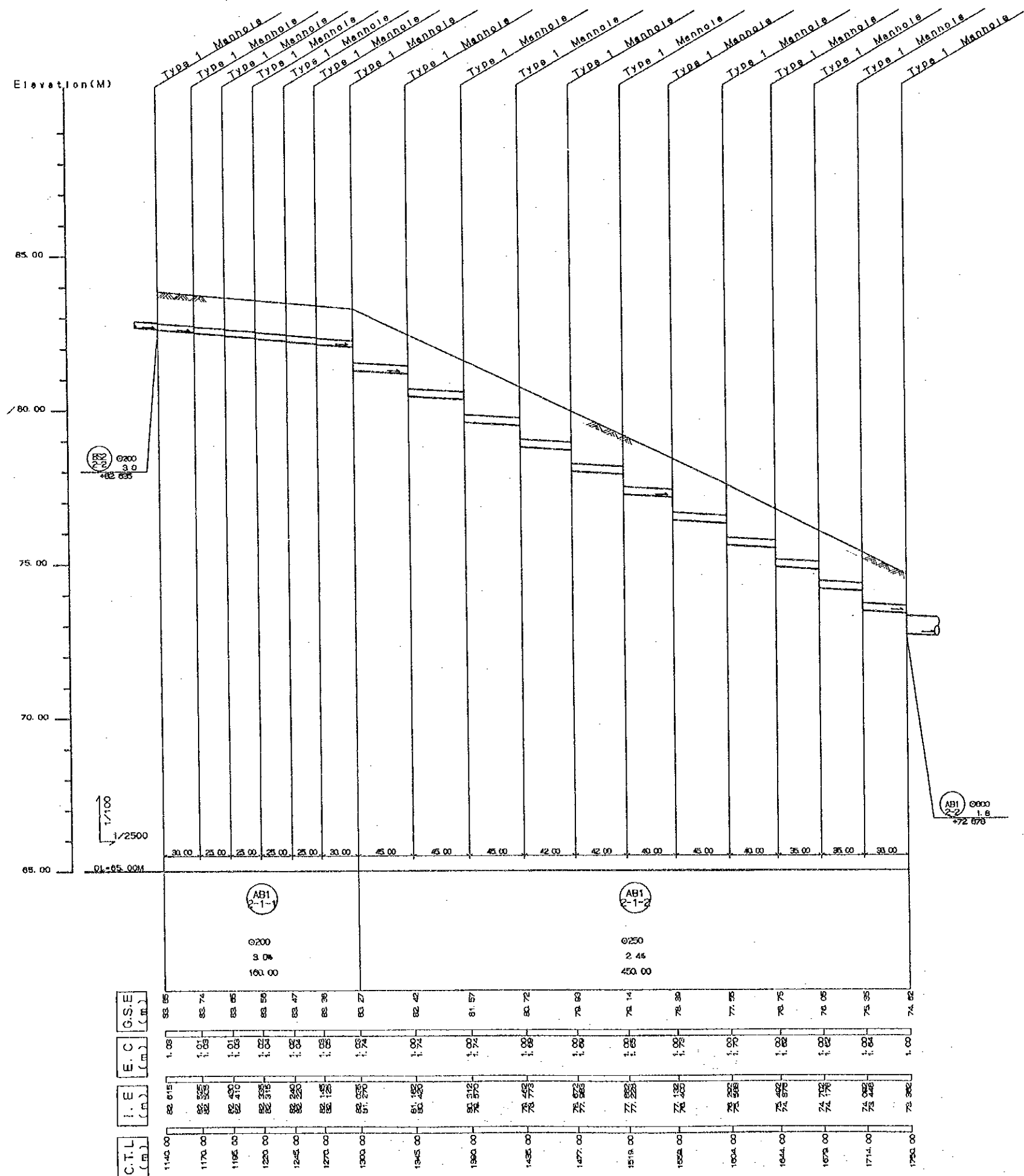
F/S SEWERAGE PROFILE (41)

THE STUDY
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G.S.E: Ground Surface Elevation
 E.C: Earth Cover
 I.E: Invert Elevation
 C.T.L: Cum Total Length

Table of Line				
AB1 2-1-1	AB1 2-1-2			

FIG.81

F/S SEWERAGE PROFILE (42)

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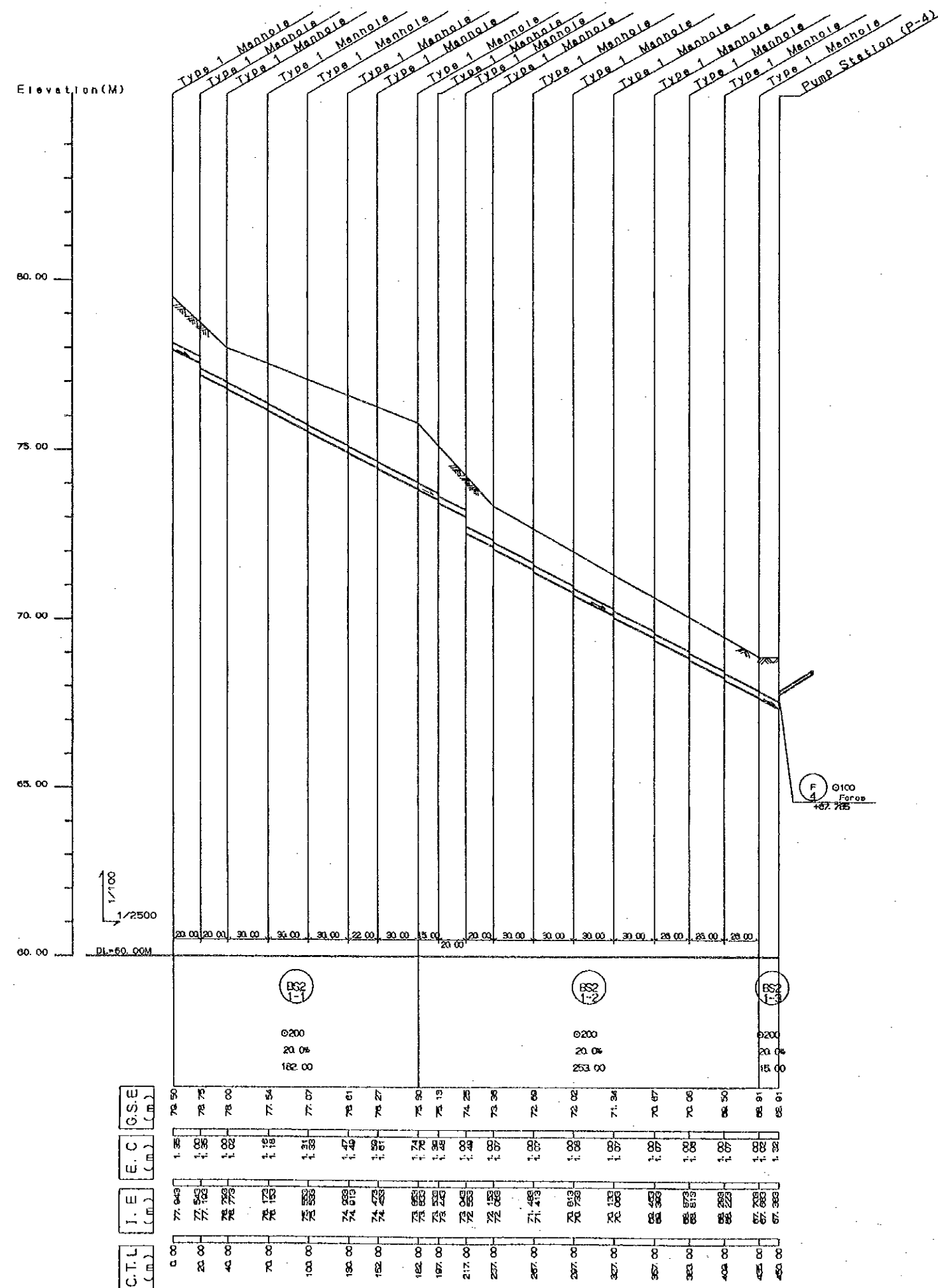


FIG.82

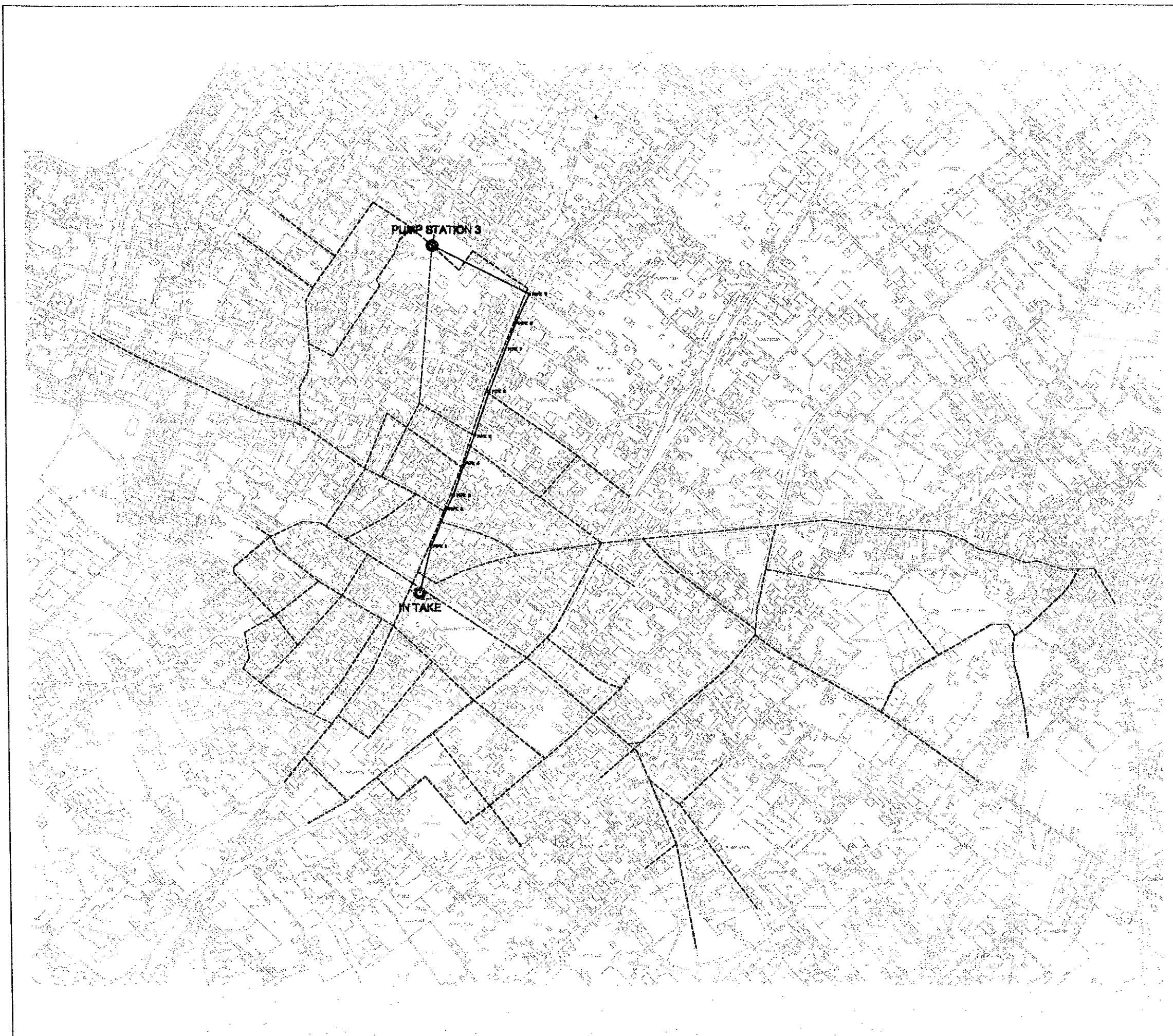
F/S SEWERAGE PROFILE (43)

THE STUDY
ON SEWERAGE DEVELOPMENT PLAN
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—— DRAINAGE CONDUIT
- - - ROAD SURFACE DRAINAGE

'M 0 'M 500

FIG 84

PLAN OF DRAINAGE CONDUIT AND
ROAD SURFACE DRAINAGE

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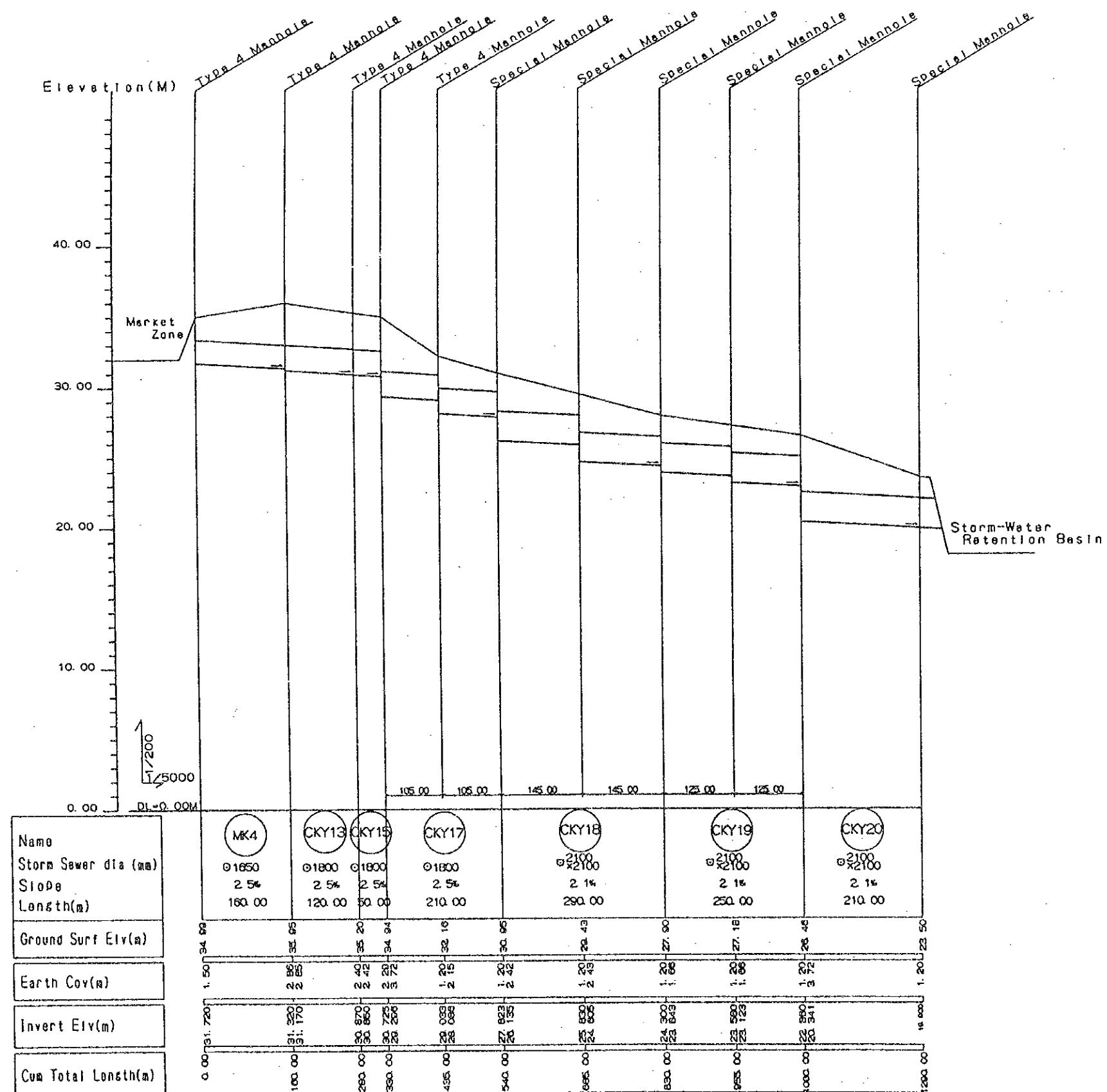


FIG.85

DRAINAGE CONDUIT PROFILE (1)

THE STUDY
ON SEWERAGE DEVELOPMENT PLAN
IN THE AREA OF KHAN YUNIS
IN PALESTINIAN INTERIM
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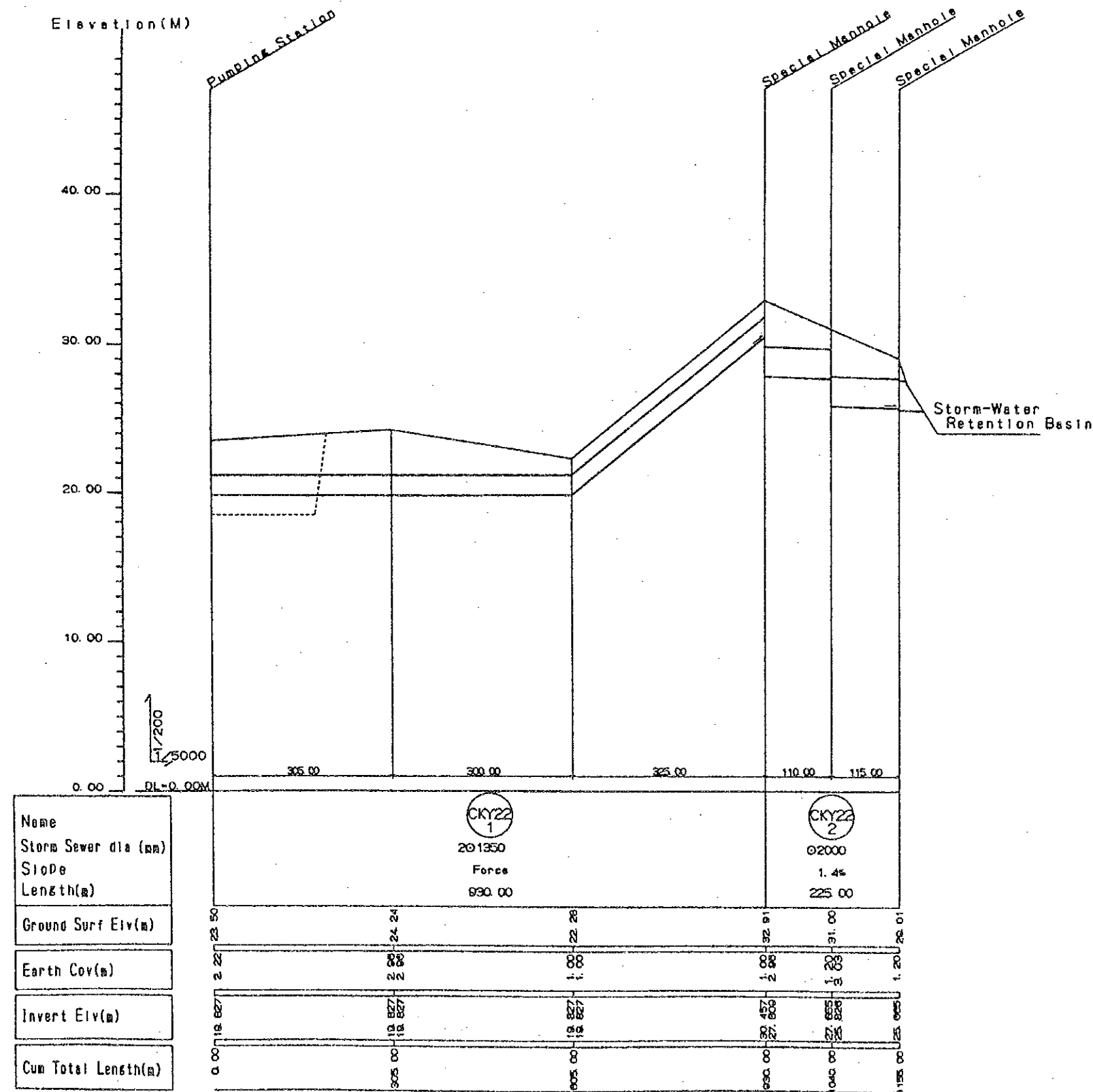


FIG.86

DRAINAGE CONDUIT PROFILE (2)

THE STUDY
ON SEWERAGE DEVELOPMENT PLAN
IN THE AREA OF KHAN YUNIS
IN PALESTINIAN INTERIM
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