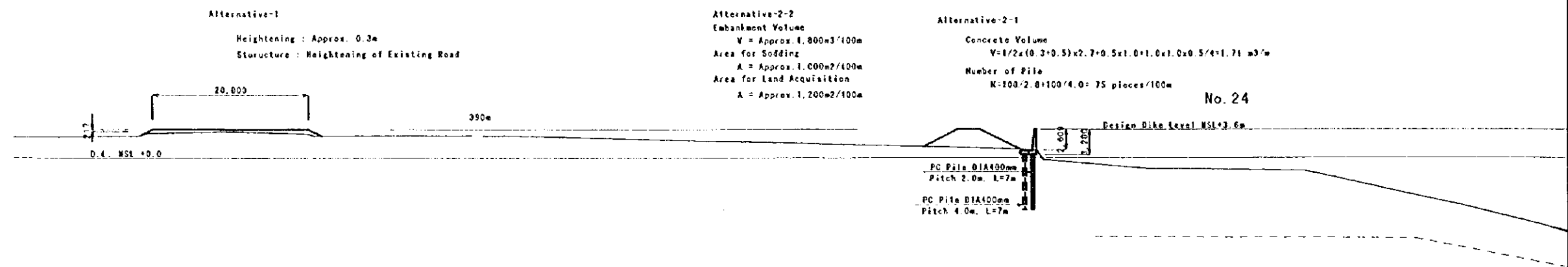
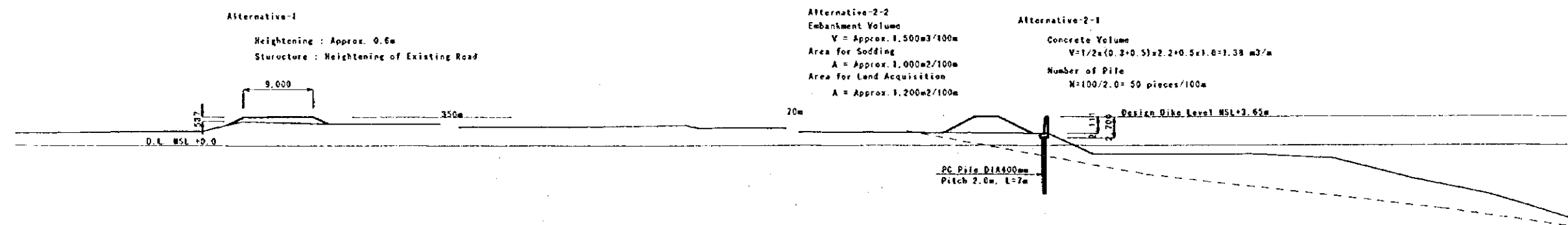


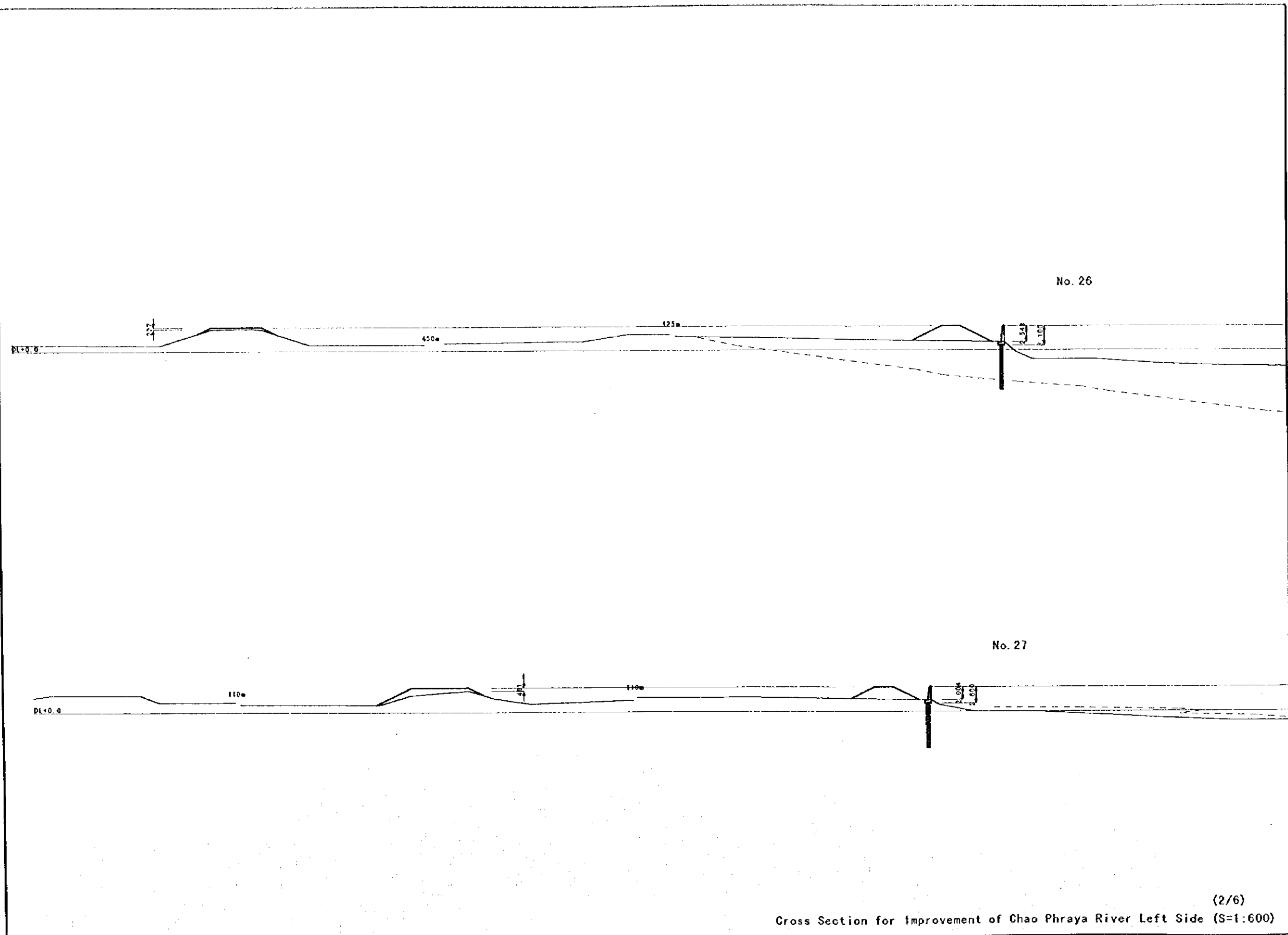
*4. Cross Sections for
River Improvement
in the Feasibility Study*

Improvement at 3-year return period

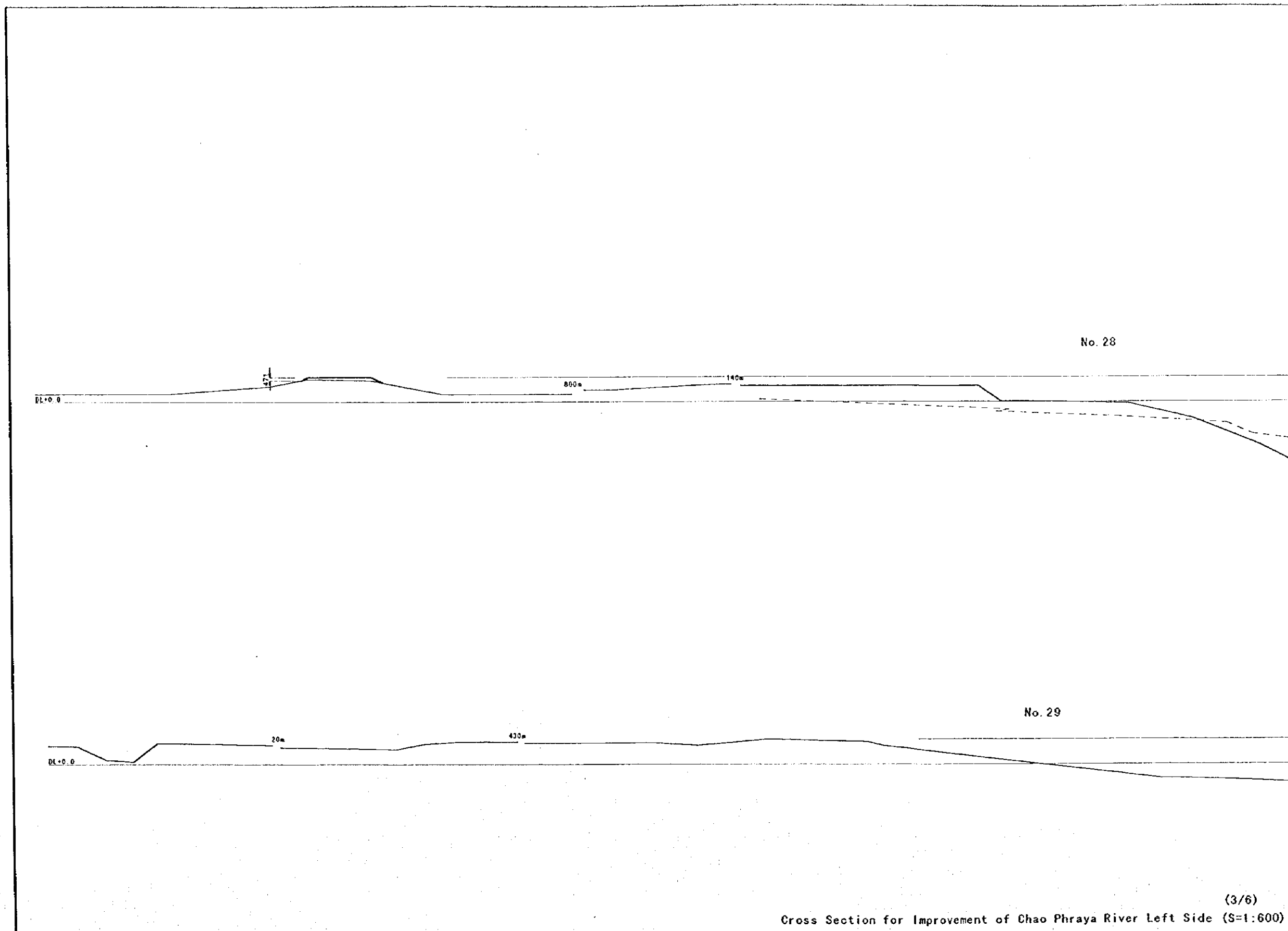


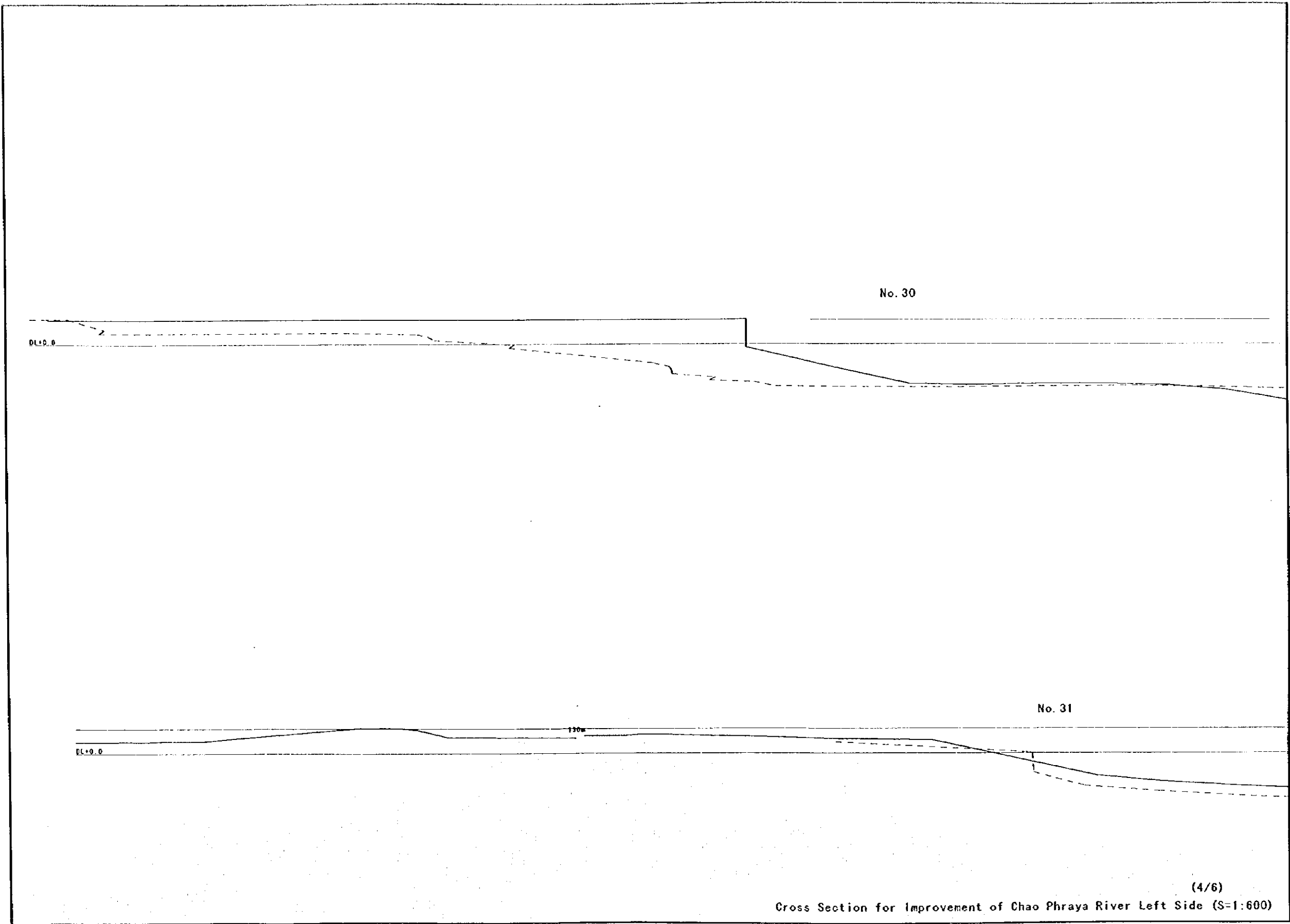
Improvement at 3-year return period





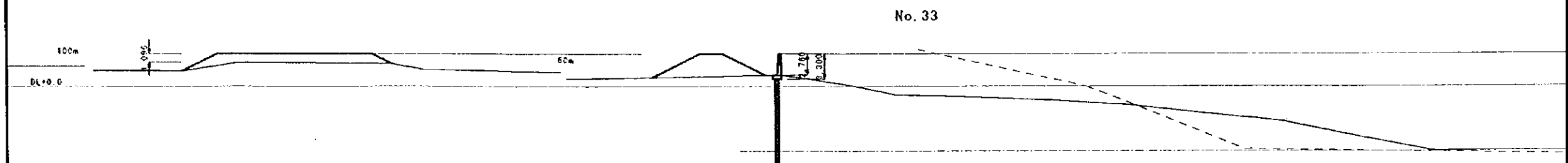
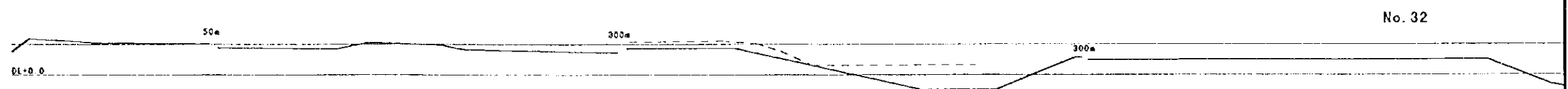
(2/6)
Cross Section for Improvement of Chao Phraya River Left Side (S=1:600)



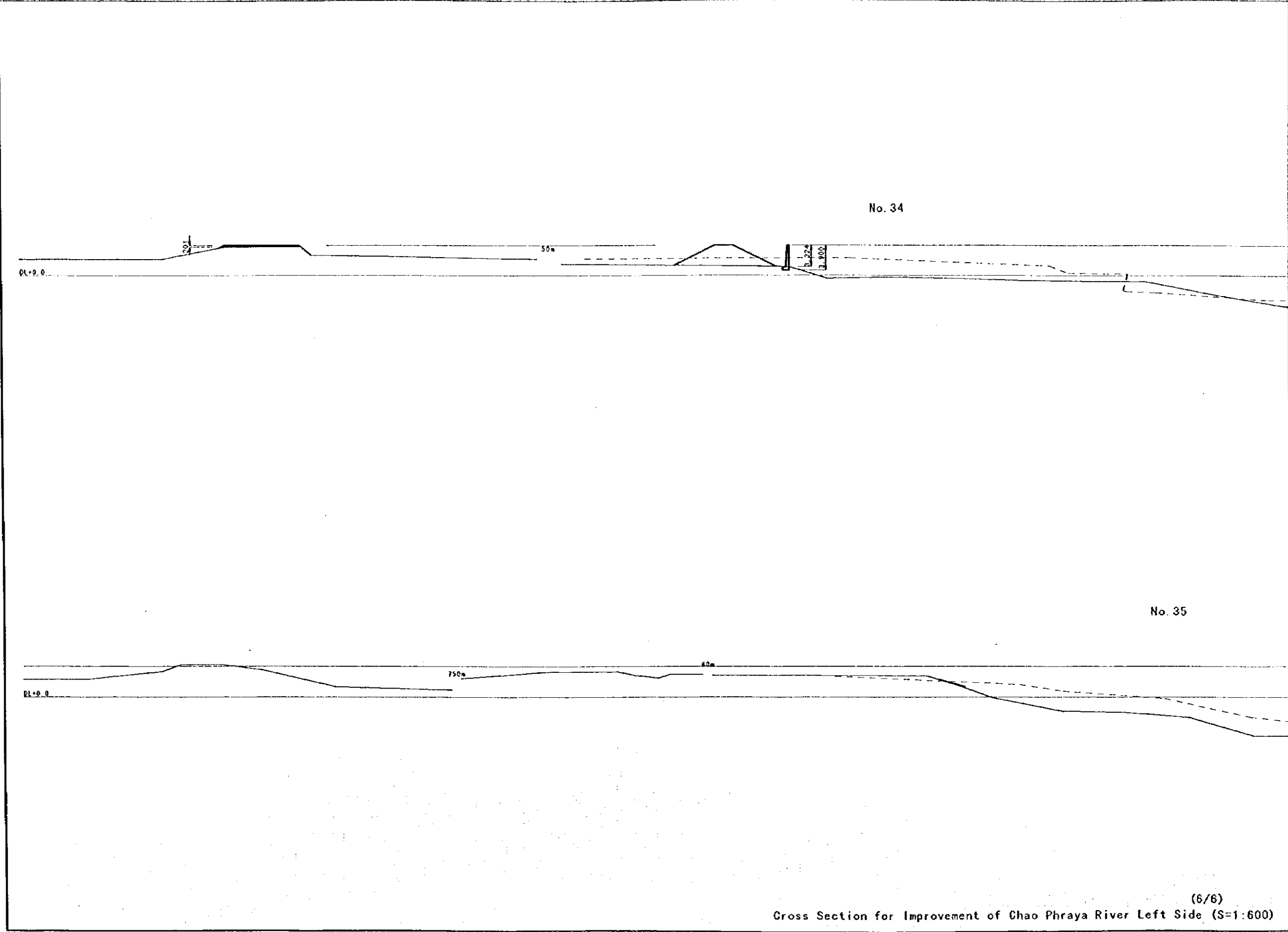


Cross Section for Improvement of Chao Phraya River Left Side (S=1:600)

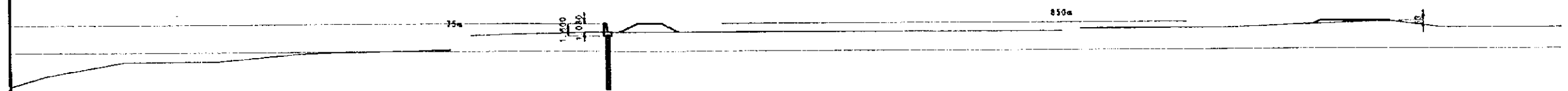
(4/6)



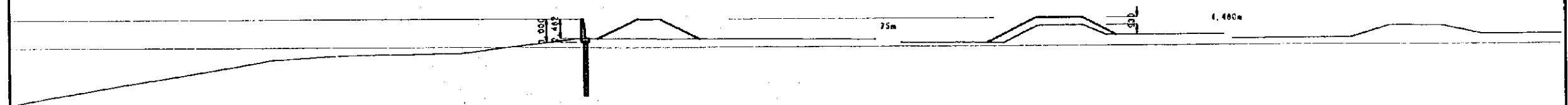
(5/6)
Cross Section for Improvement of Chao Phraya River Left Side (S=1:600)



No. 24



No. 25

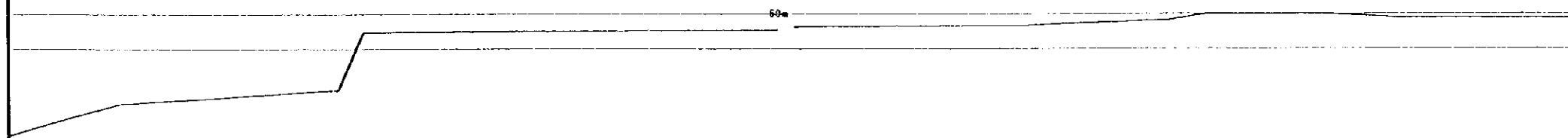


(1/7)

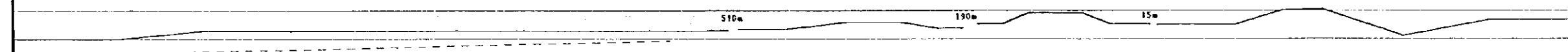
Cross Section for Improvement of Chao Phraya River Right Side (S=1:600)

DB-4-7

No. 26



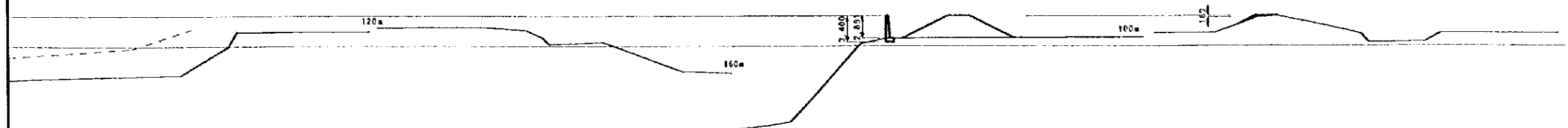
No. 27



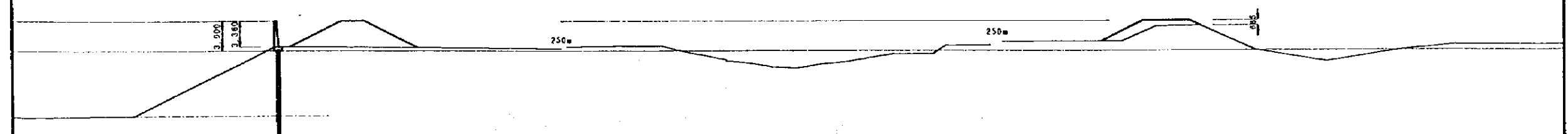
(2/7)

Cross Section for Improvement of Chao Phraya River Right Side (S=1:600)

No. 28



No. 29

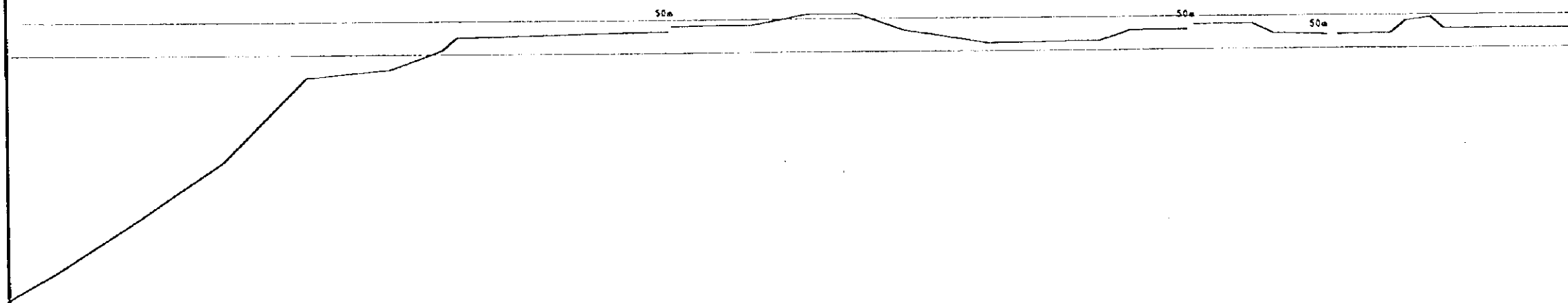


(3/1)

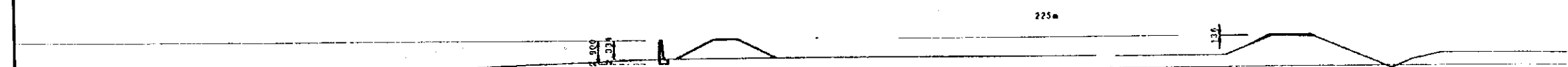
Cross Section for Improvement of Chao Phraya River Right Side (S=1:600)

DB-4-9

No. 30



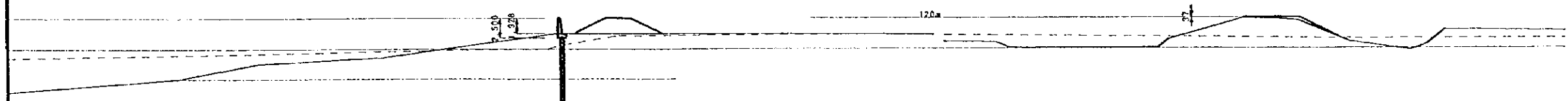
No. 31



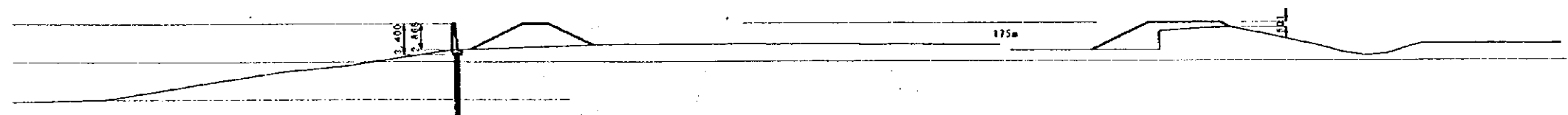
(4/7)

Cross Section for Improvement of Chao Phraya River Right Side (S=1:600)

No. 32



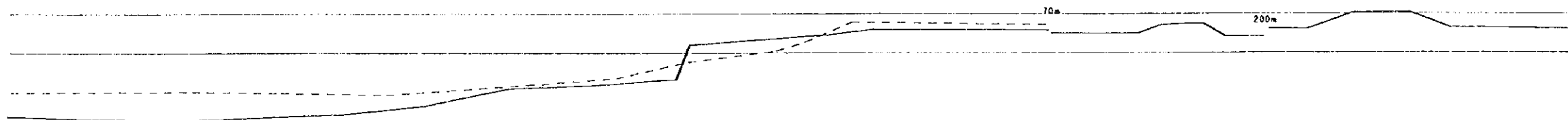
No. 33



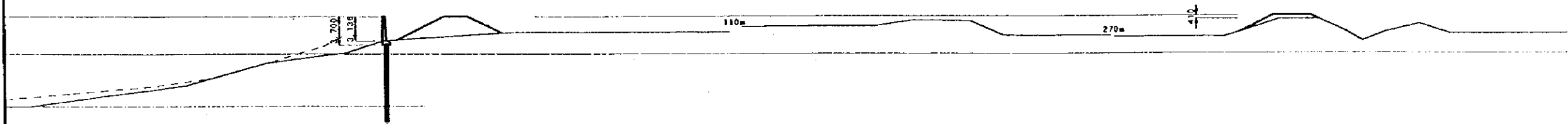
(5/7)

Cross Section for Improvement of Chao Phraya River Right Side (S=1:600)

No. 34



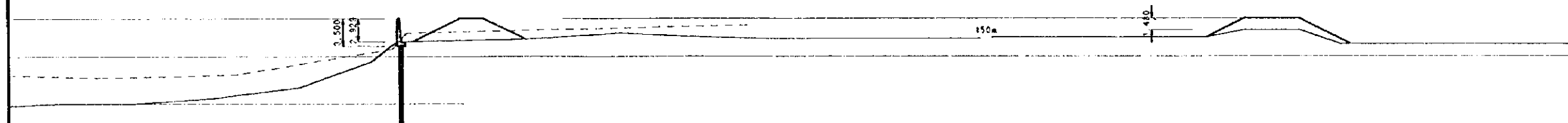
No. 35



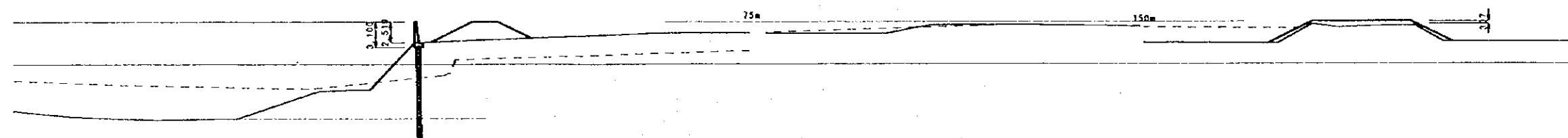
(6/7)

Gross Section for Improvement of Chao Phraya River Right Side (S=1:600)

No. 36



No. 37



(1/7)

Cross Section for Improvement of Chao Phraya River Right Side (S=1:600)

Improvement at 3-year return period

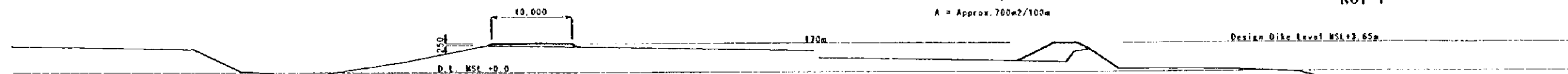
Alternative-1

Heightening : Approx. 0.3m
Structure : Heightening of Existing Road

Alternative-2-2

Embankment Volume
V = Approx. 1,300m³/100m
Area for Sodding
A = Approx. 700m²/100m
Area for Land Acquisition
A = Approx. 700m²/100m

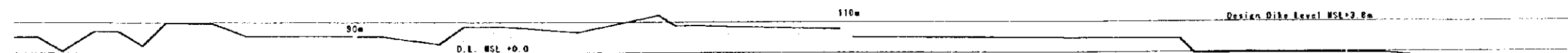
Noi-1



Improvement at 3-year return period

Noi-2

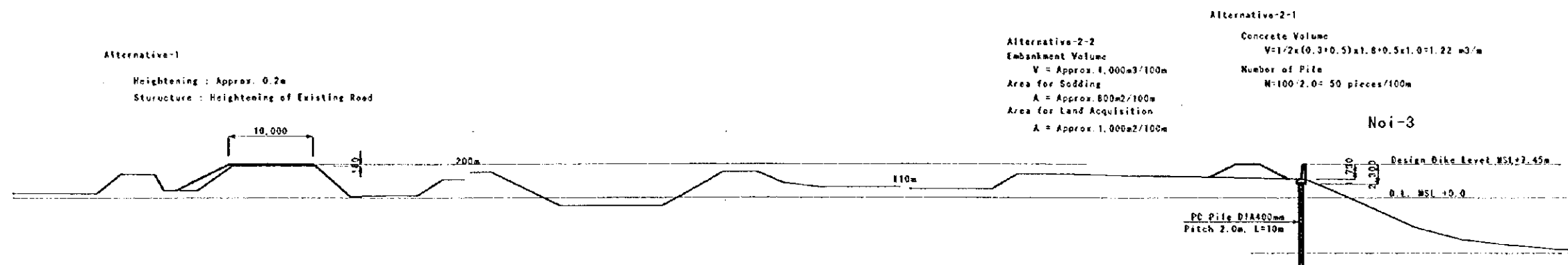
No Improvement



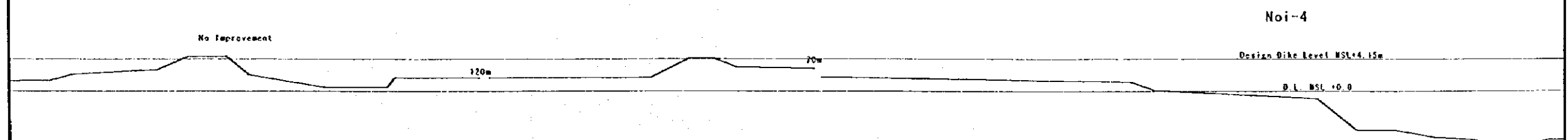
(1/3)

Cross Section for Improvement of Noi River Left Side (S=1:600)

Improvement at 3-year return period



Improvement at 3-year return period



(2/3)

Cross Section for Improvement of Noi River Left Side (S=1:600)

Improvement at 3-year return period

Alternative-1

Heightening : Approx. 0.6m
Structure : Heightening of Existing Road

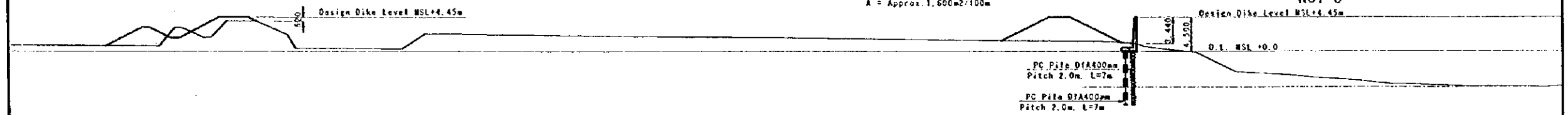
Alternative-2-2

Embankment Volume
 $V = \text{Approx. } 3,000 \text{ m}^3/100\text{m}$
Area for Sodding
 $A = \text{Approx. } 1,500 \text{ m}^2/100\text{m}$
Area for Land Acquisition
 $A = \text{Approx. } 1,500 \text{ m}^2/100\text{m}$

Alternative-2-1

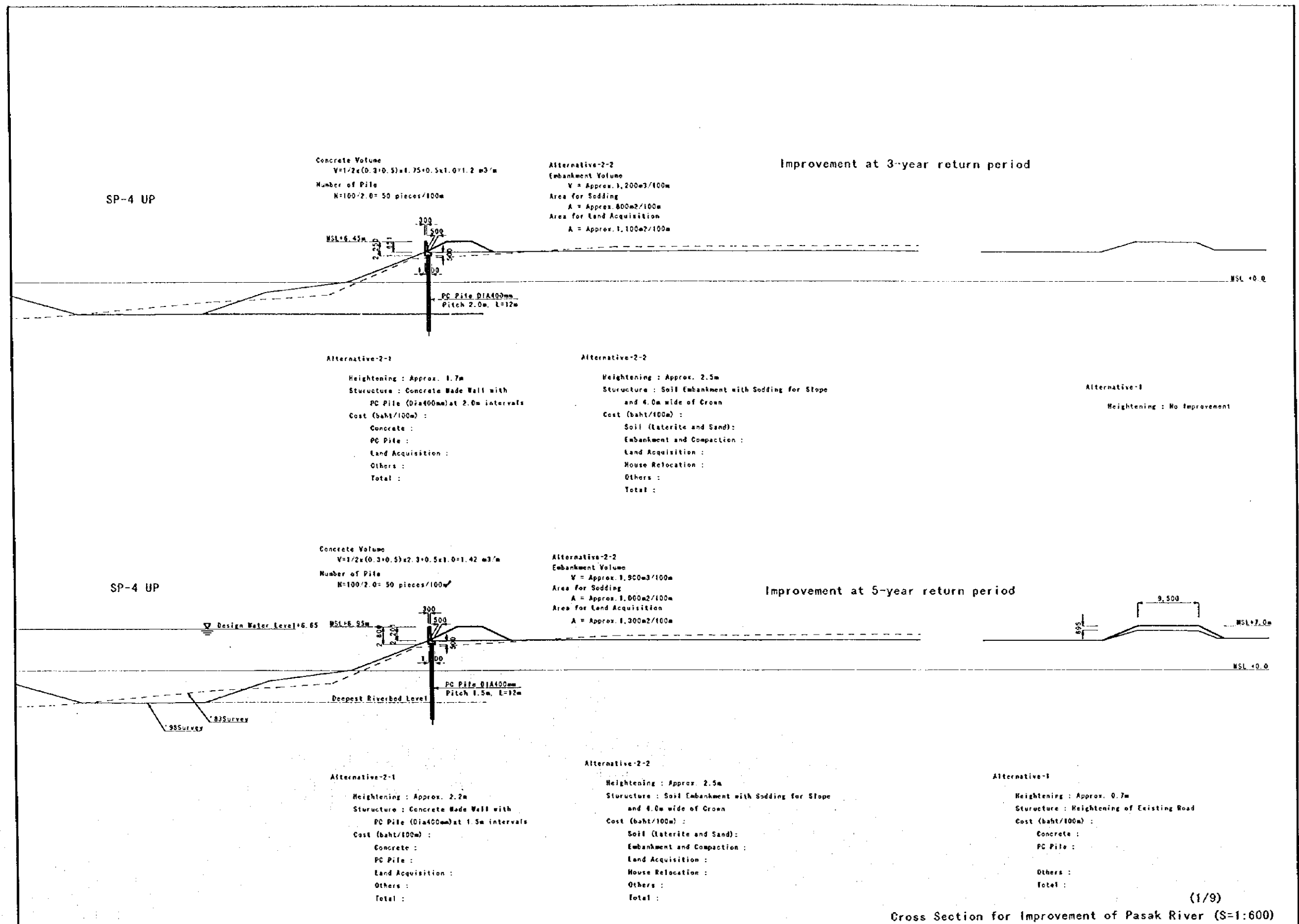
Concrete Volume
 $V = 1/2 \times (0.3 + 0.5) \times 4.0 \times 0.5 \times 1.0 \times 1.0 \times 0.5 / 2 = 2.35 \text{ m}^3/\text{m}$
Number of Pile
 $N = 100 \times 2.0 \times 2 = 100 \text{ pieces}/100\text{m}$

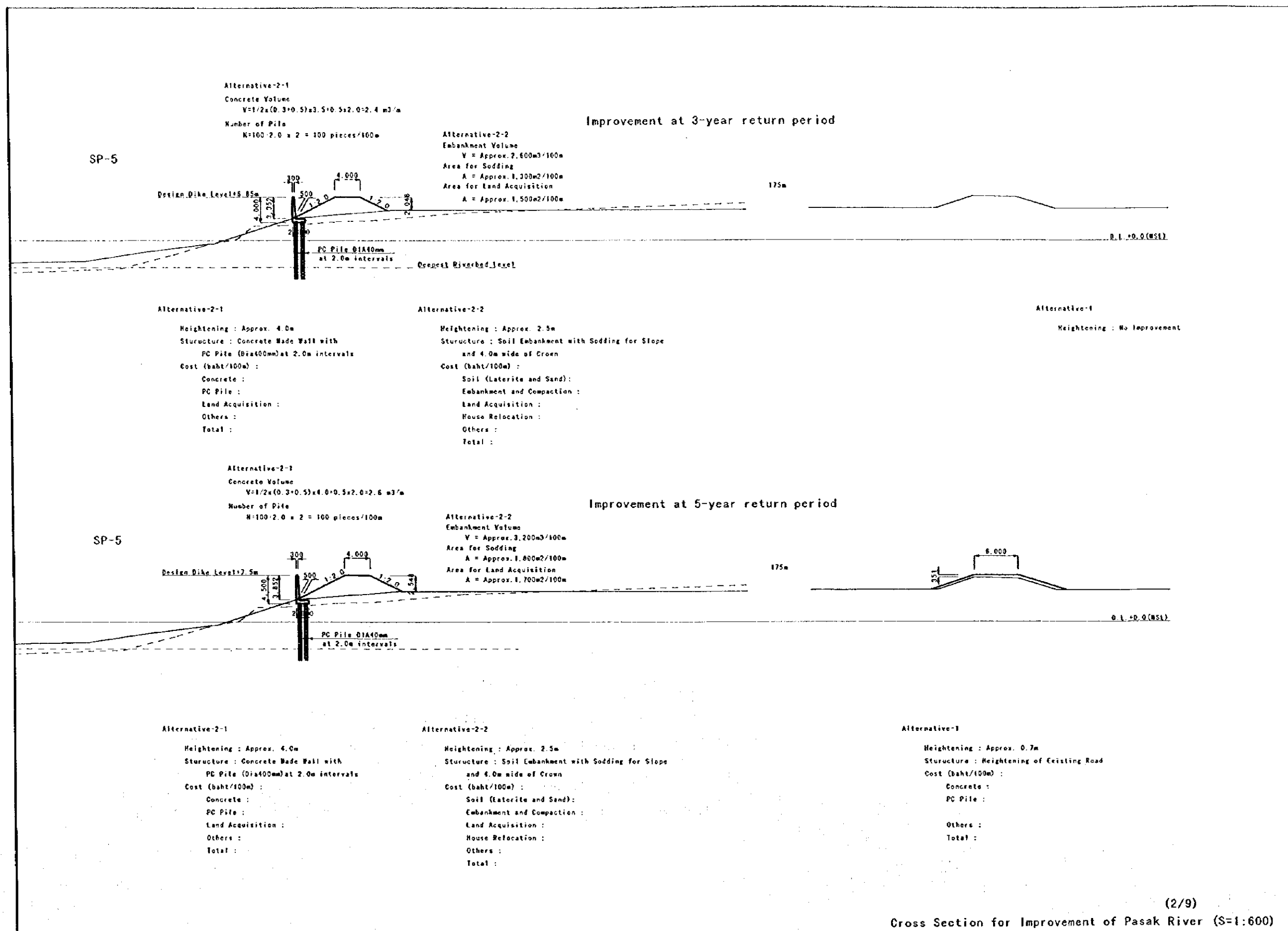
Noi-5

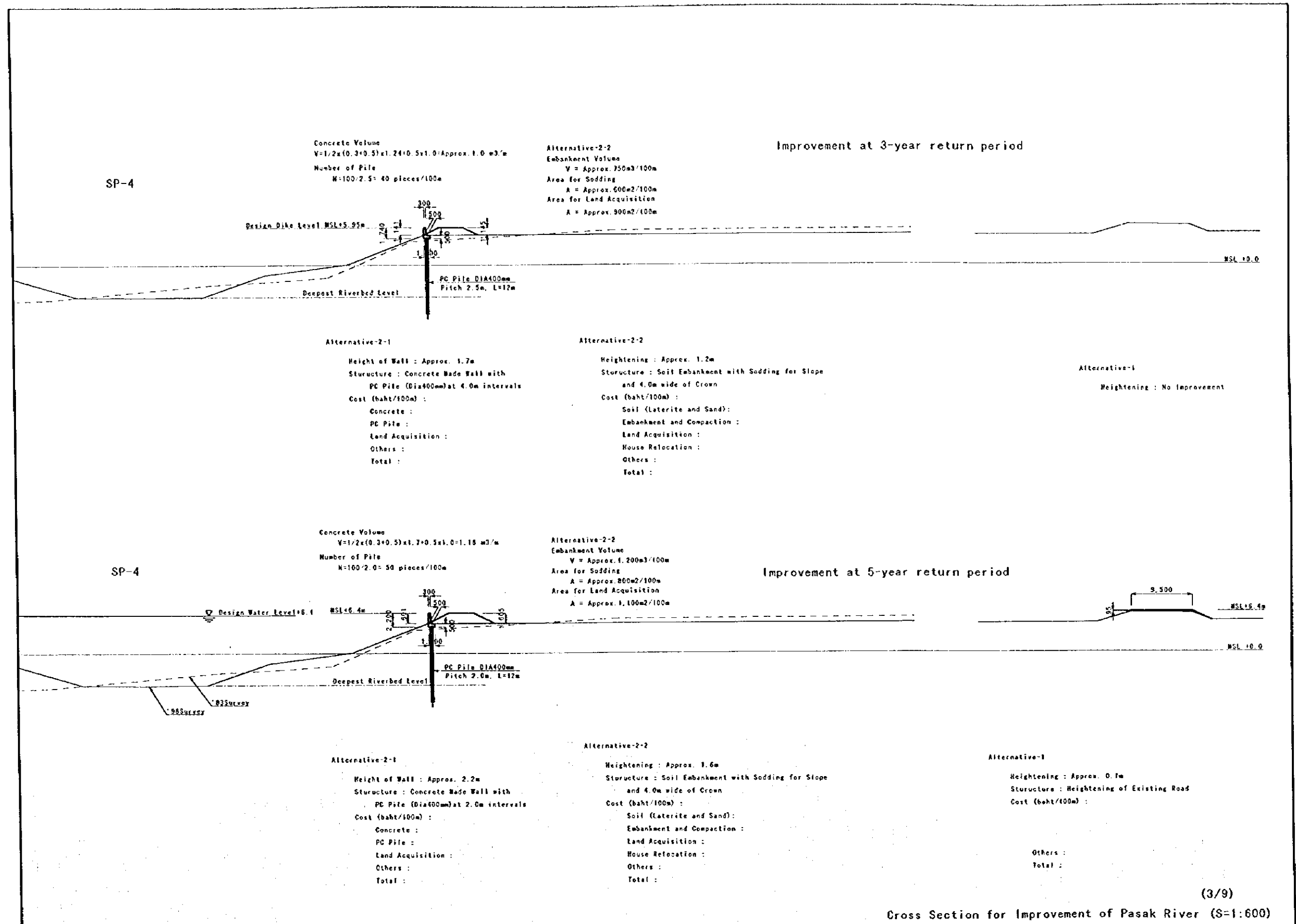


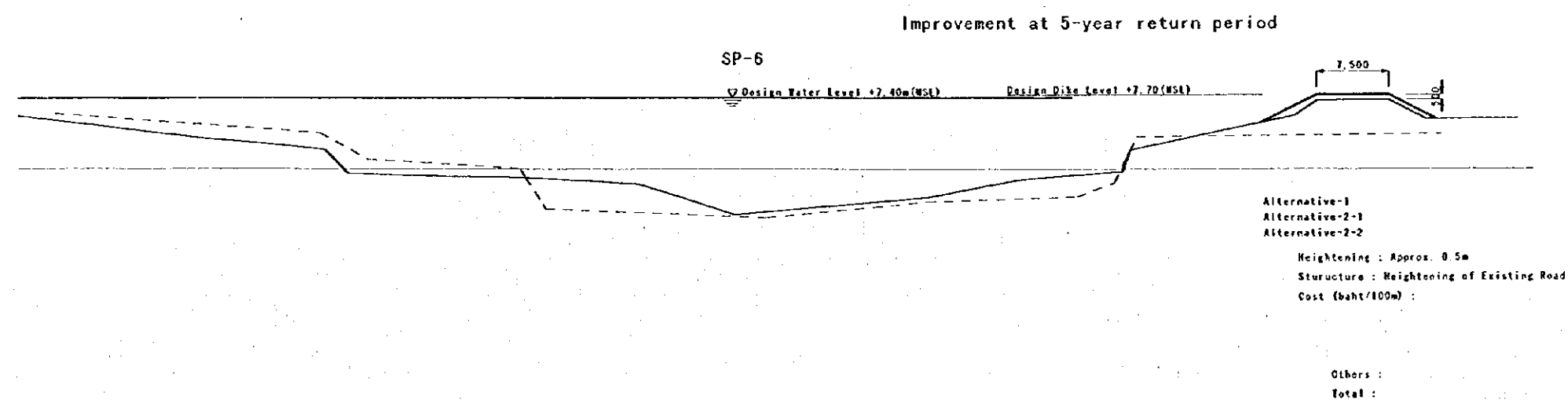
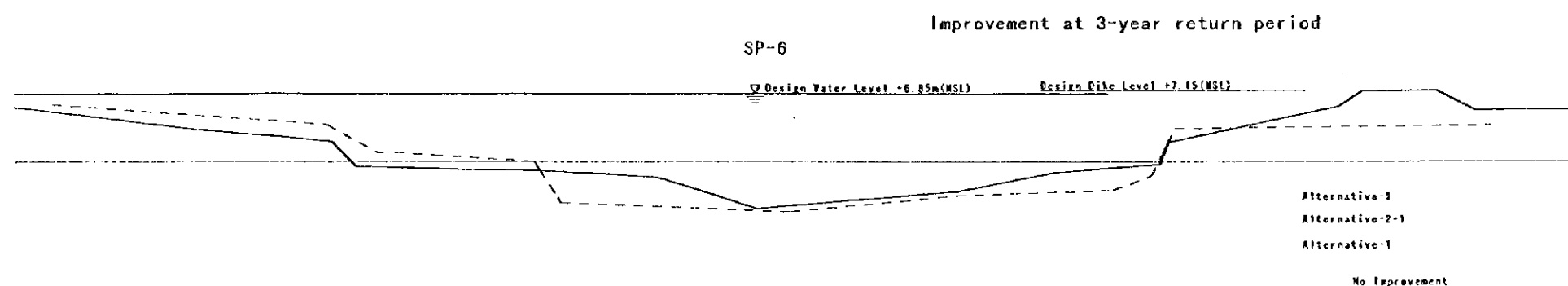
(3/3)

Cross Section for Improvement of Noi River Left Side (S=1:600)

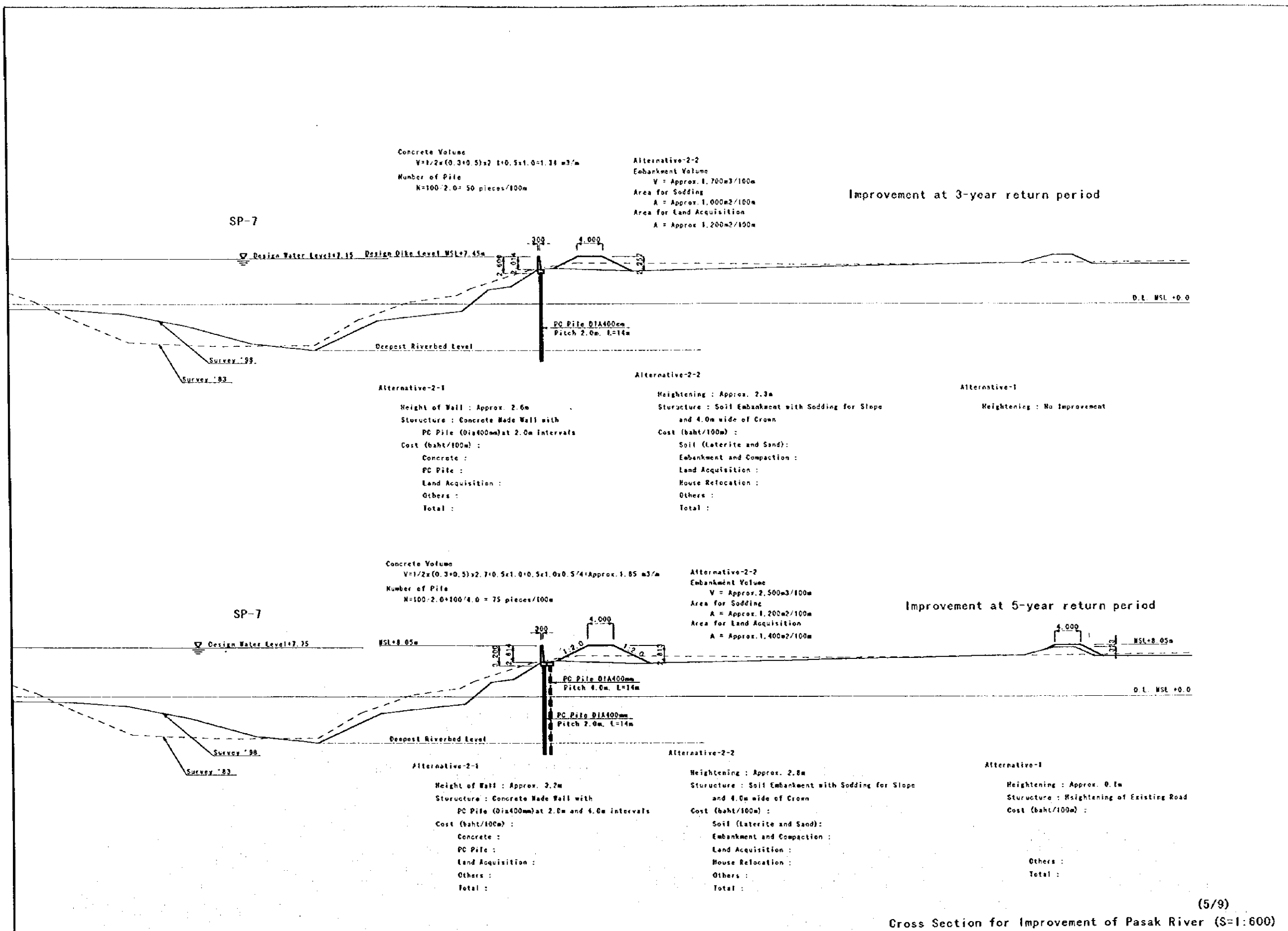


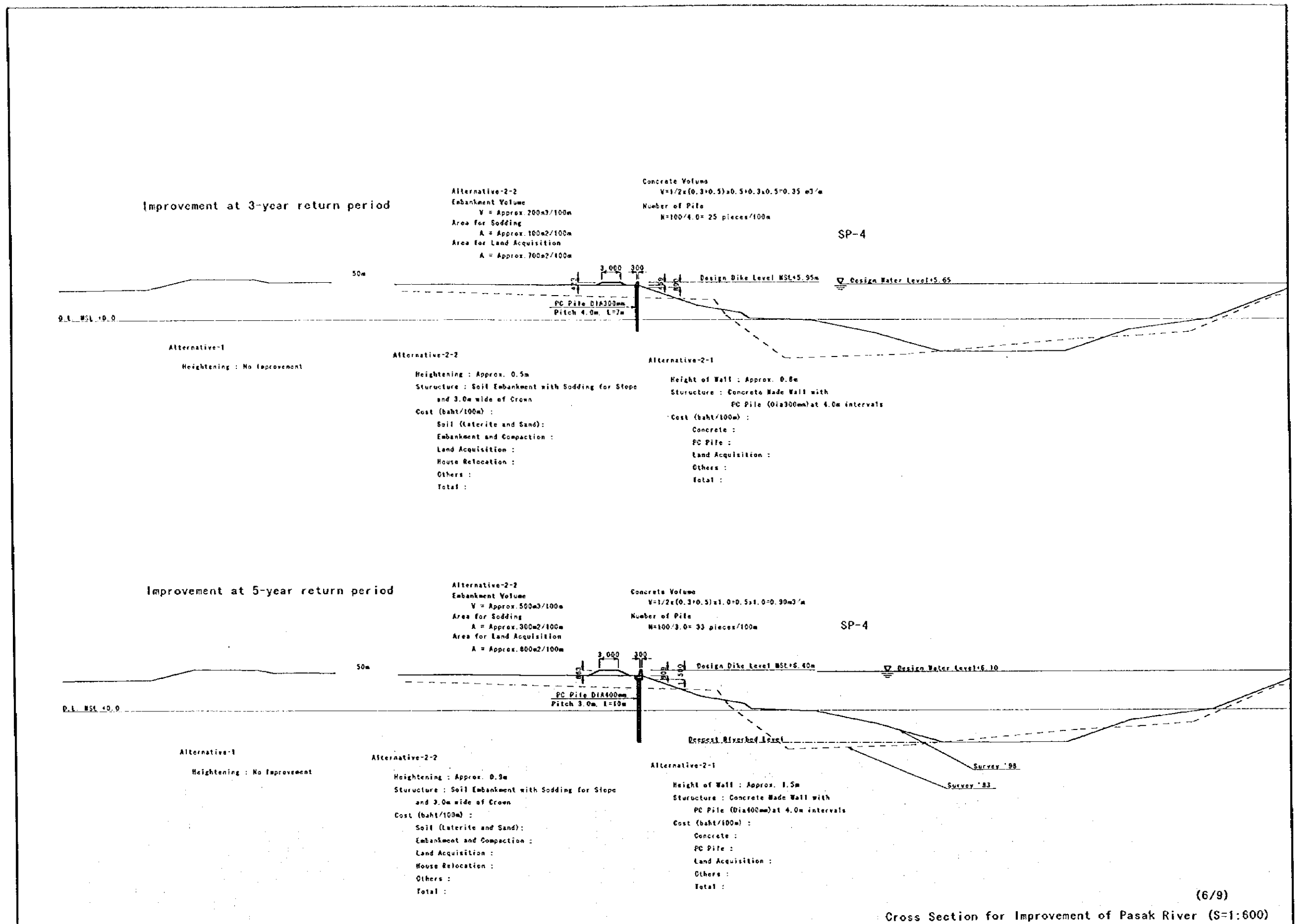


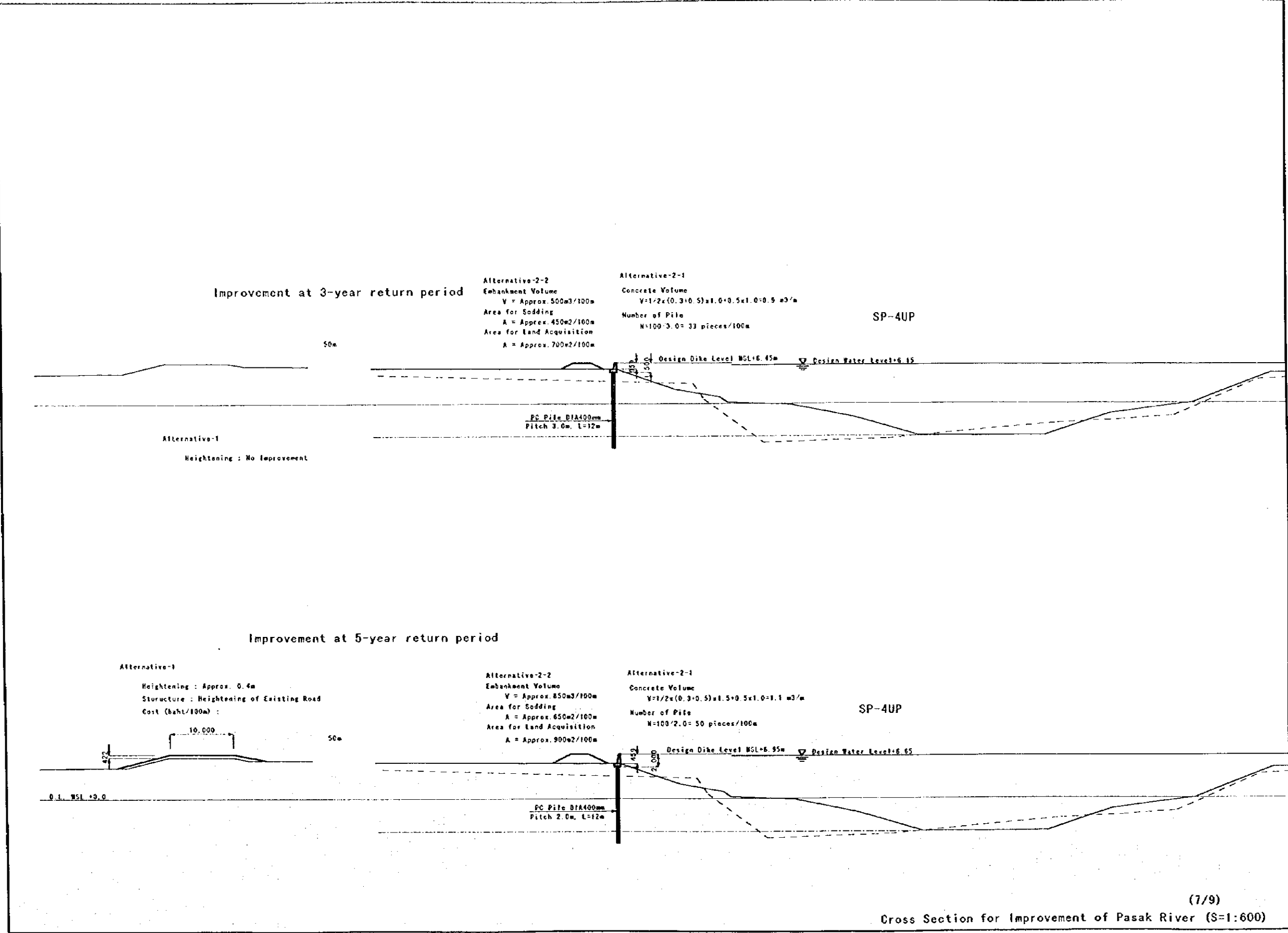




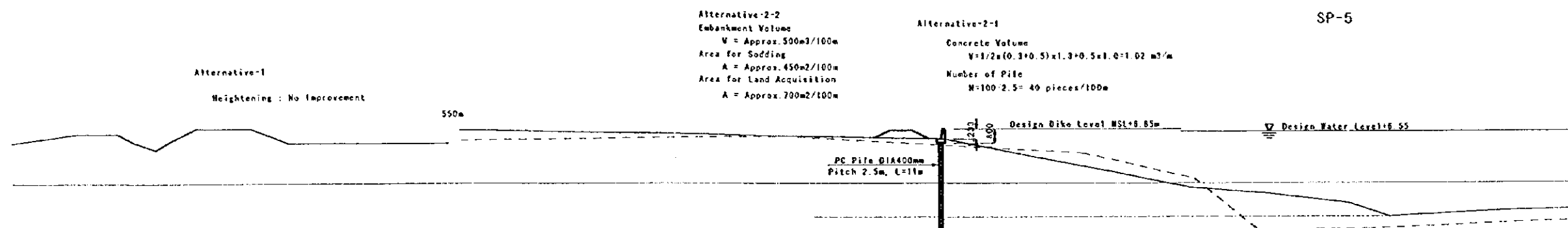
(4/9)
Cross Section for Improvement of Pasak River (S=1:600)



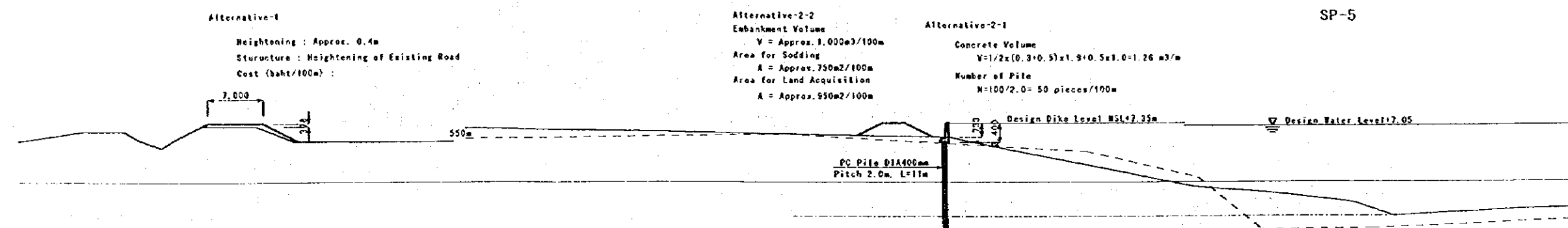




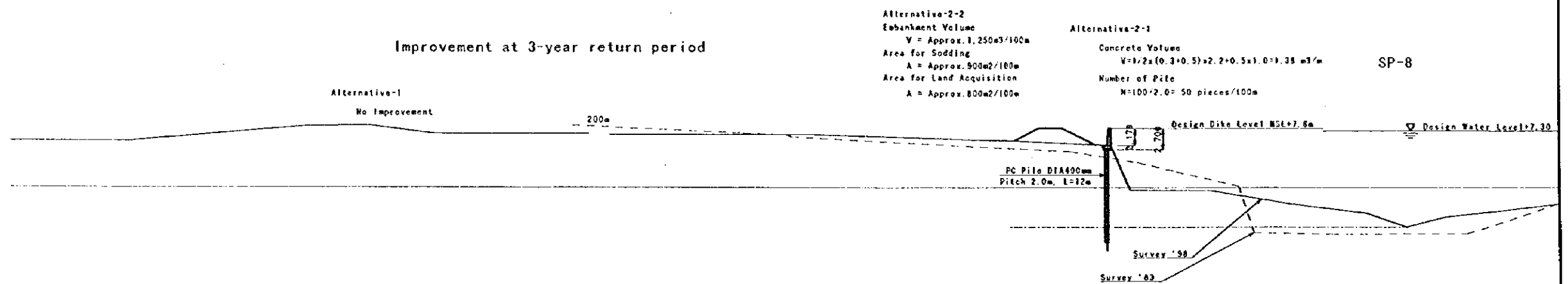
Improvement at 3-year return period



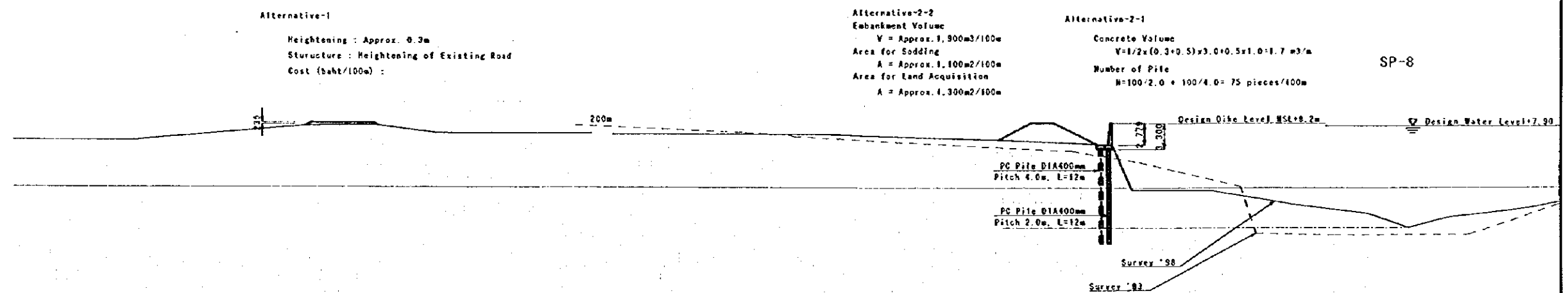
Improvement at 5-year return period



Improvement at 3-year return period

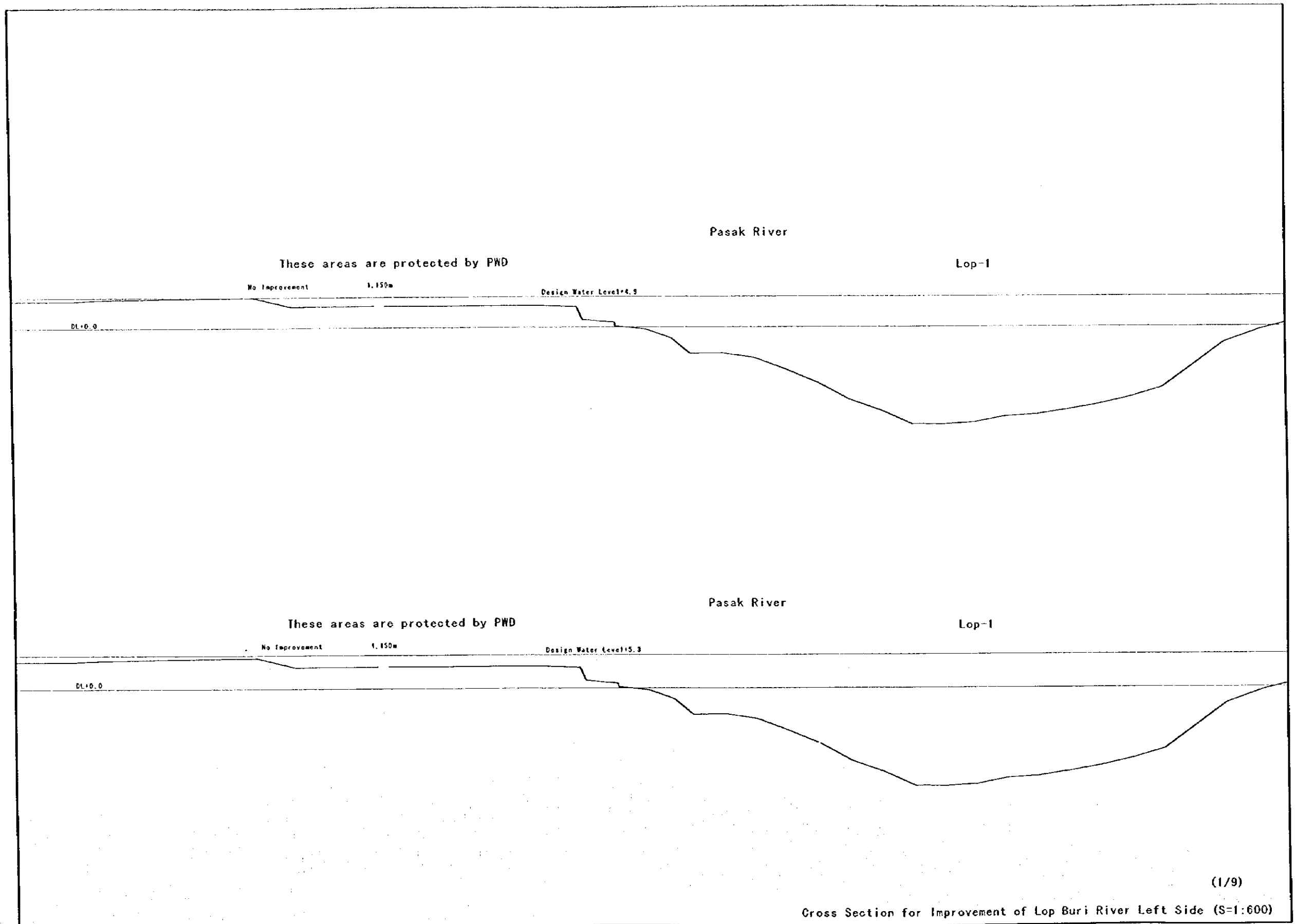


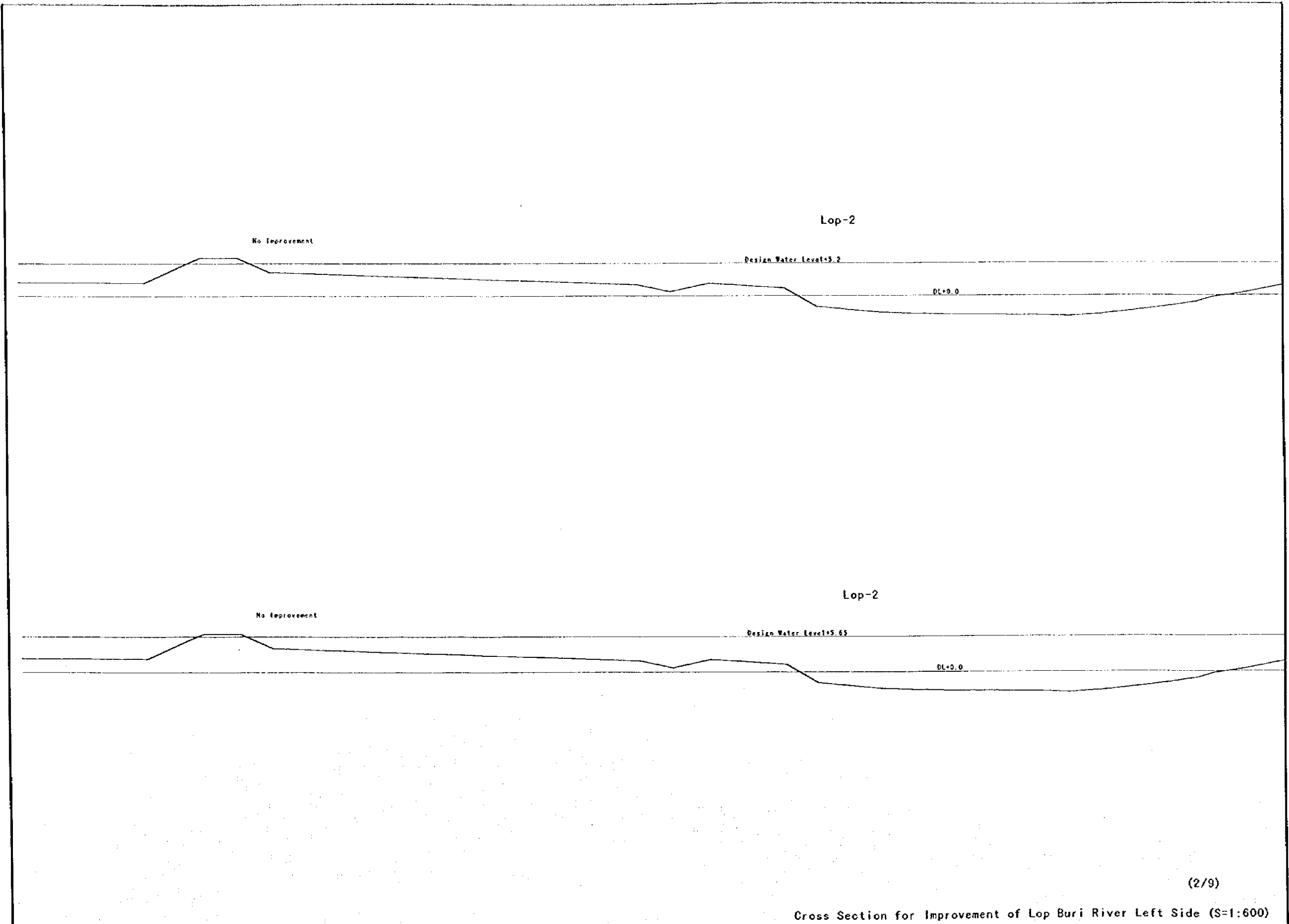
Improvement at 5-year return period



(9/9)

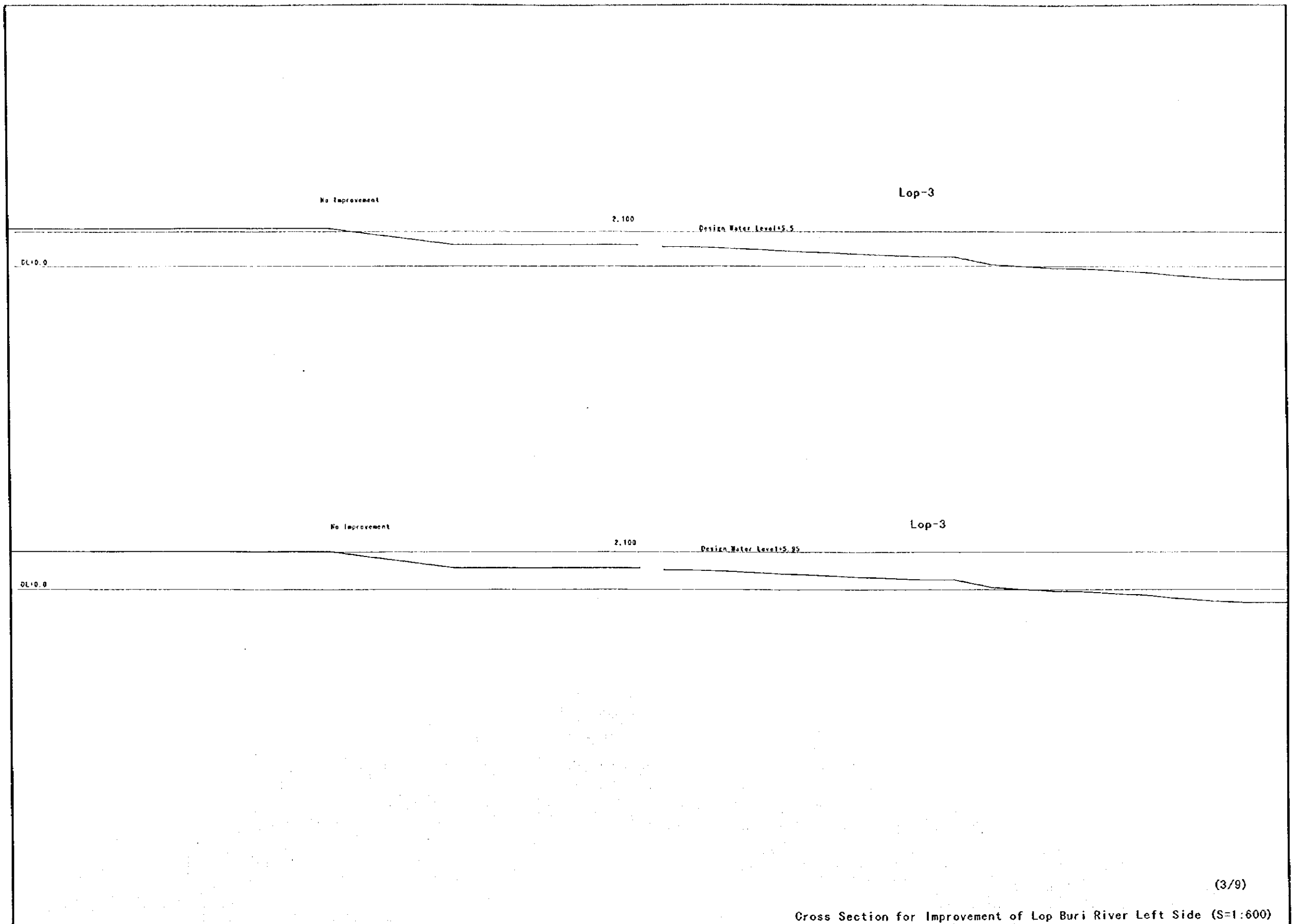
Cross Section for Improvement of Pasak River (S=1:600)



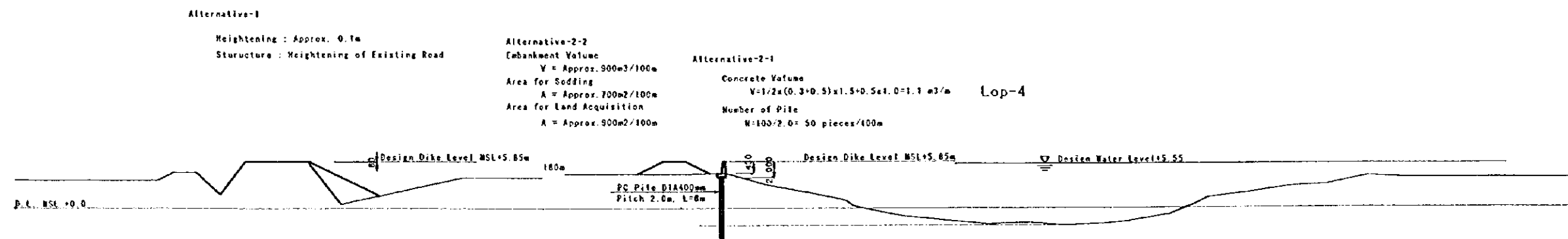


(2/9)

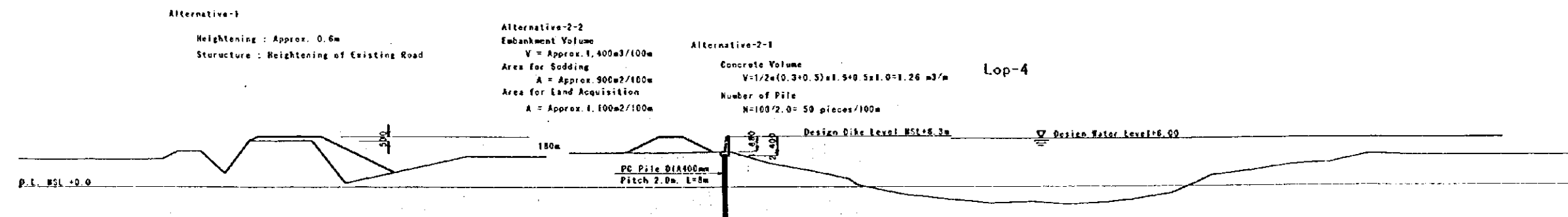
Cross Section for Improvement of Lop Buri River Left Side (S=1:600)



Improvement at 3-year return period



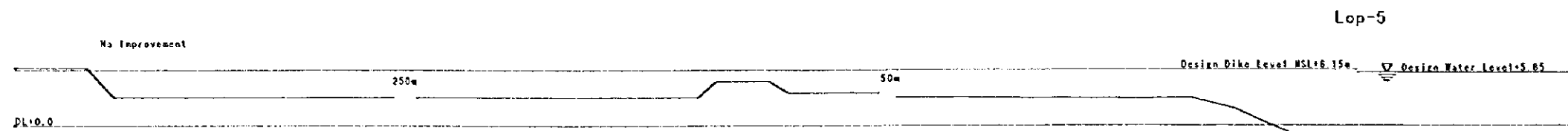
Improvement at 5-year return period



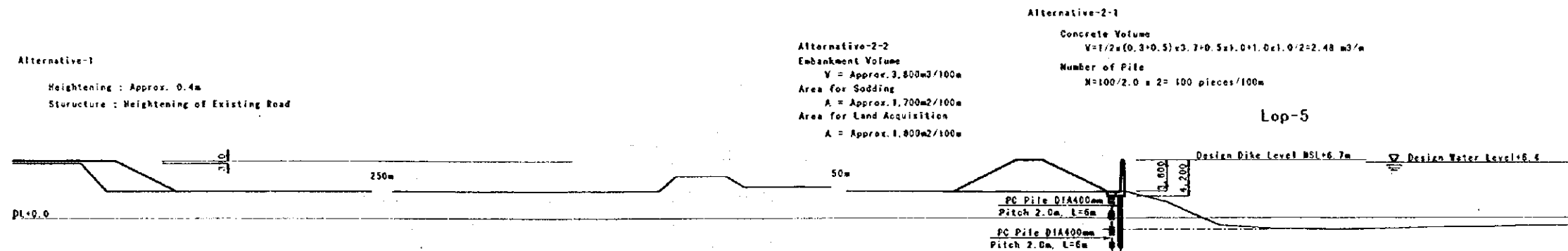
(4/9)

Cross Section for Improvement of Lop Buri River Left Side (S=1:600)

Improvement at 3-year return period



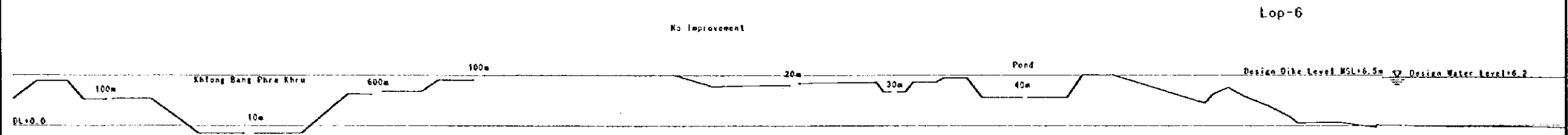
Improvement at 5-year return period



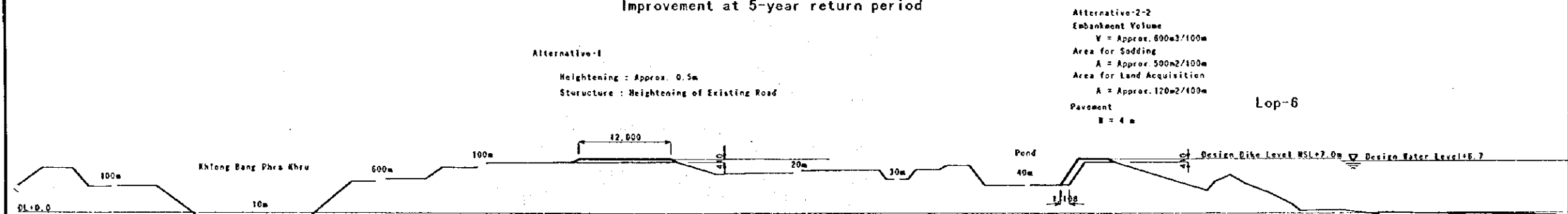
(5/9)

Cross Section for Improvement of Lop Buri River Left Side (S=1:600)

Improvement at 3-year return period



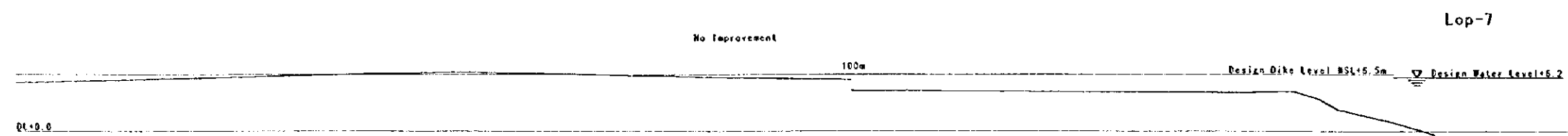
Improvement at 5-year return period



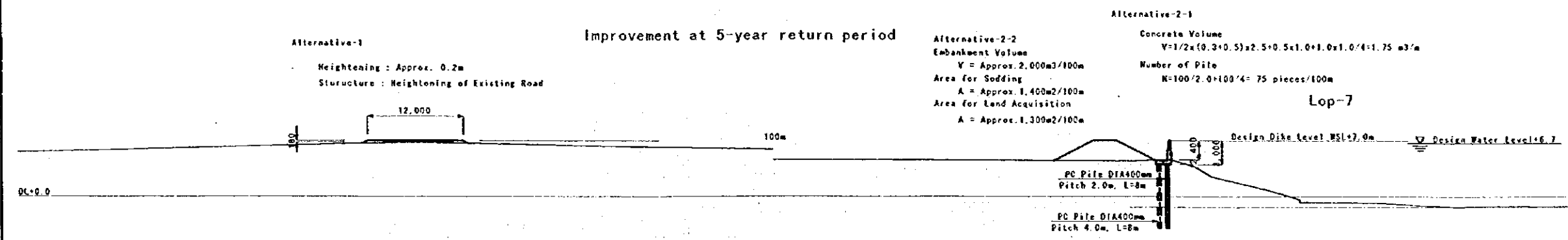
(6/9)

Cross Section for Improvement of Lop Buri River Left Side (S=1:600)

Improvement at 3-year return period



Improvement at 5-year return period

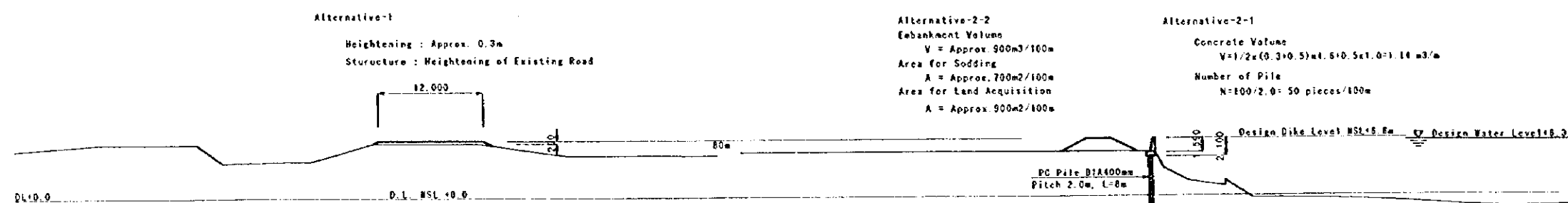


(7/9)

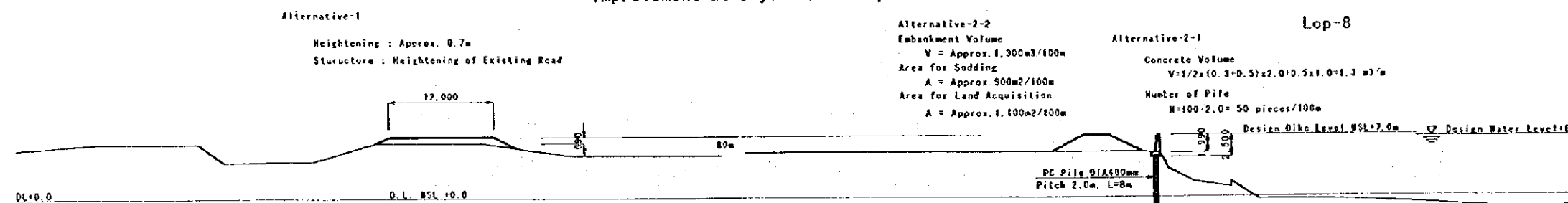
Cross Section for Improvement of Lop Buri River Left Side (S=1:600)

Lop-8

Improvement at 3-year return period

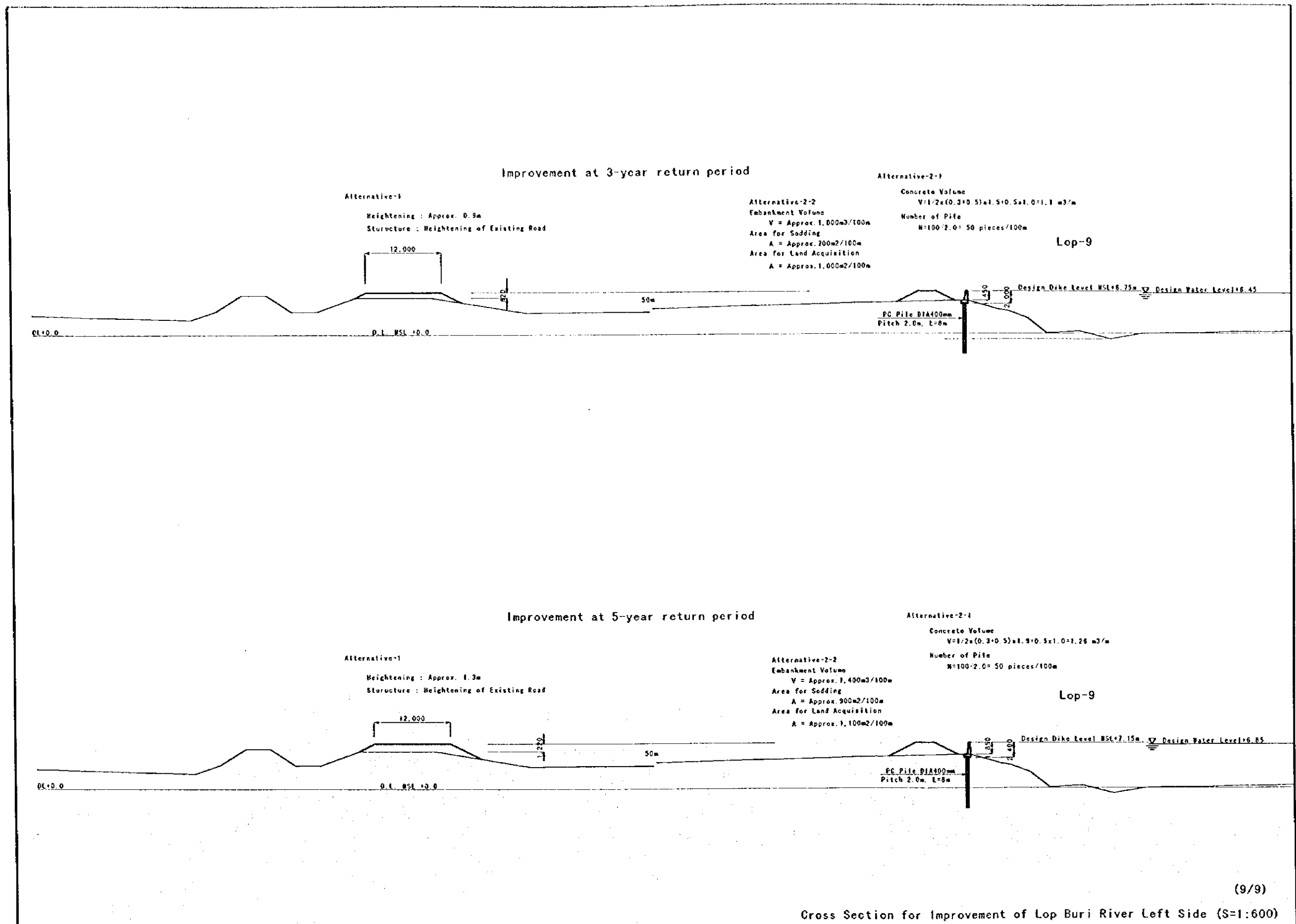


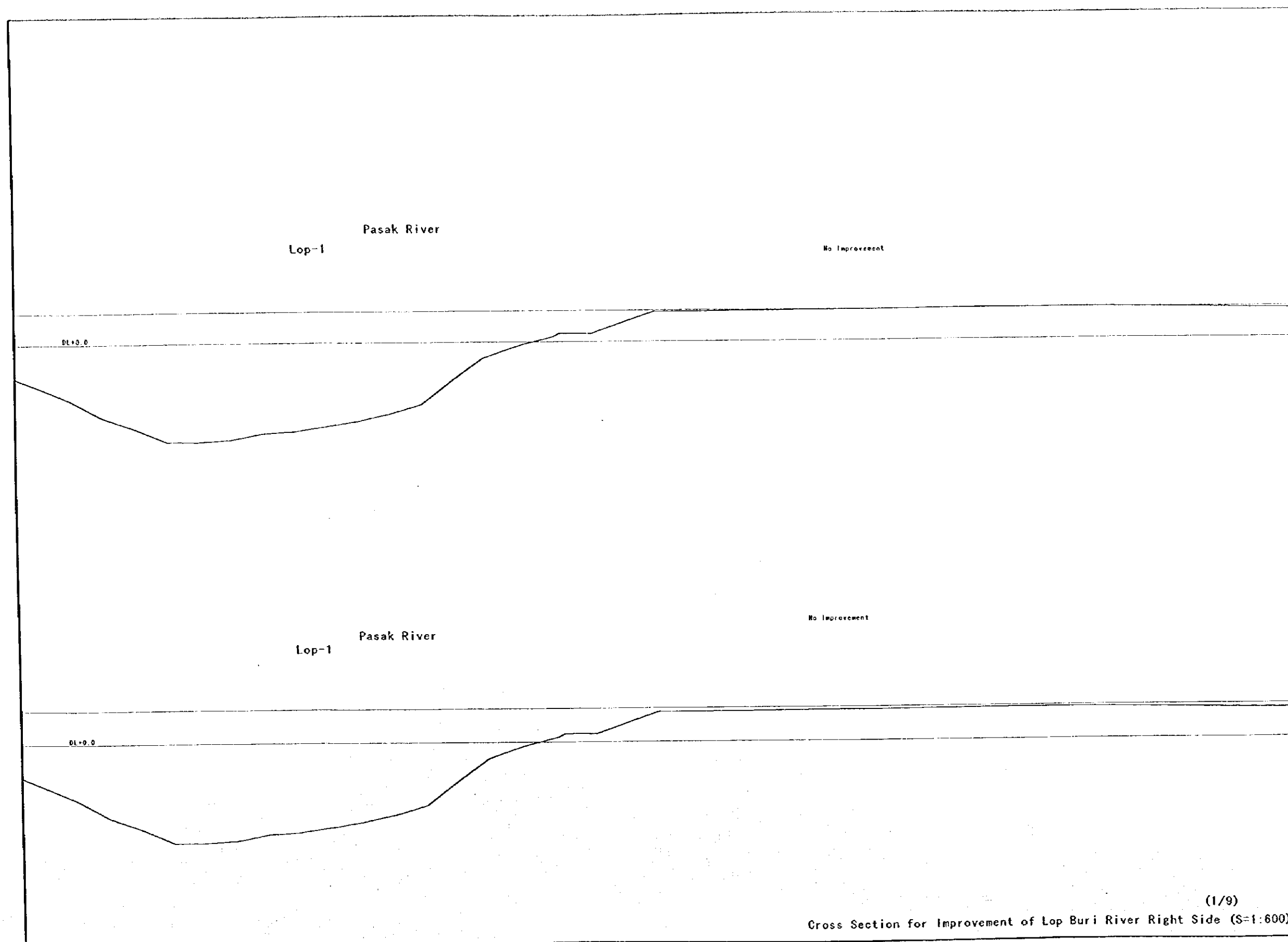
Improvement at 5-year return period



(8/9)

Cross Section for Improvement of Lop Buri River Left Side (S=1:600)

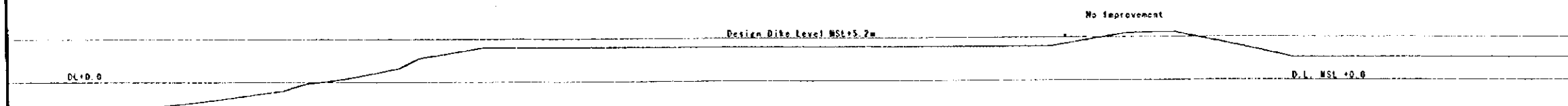




(1/9)
Cross Section for Improvement of Lop Buri River Right Side (S=1:600)

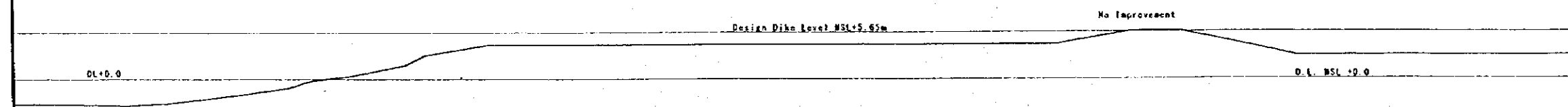
Lop-2

Improvement at 3-year return period



Lop-2

Improvement at 3-year return period



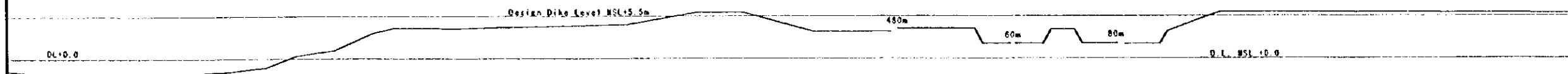
(2/9)

Cross Section for Improvement of Lop Buri River Right Side (S=1:600)

Improvement at 3-year return period

Lop-3

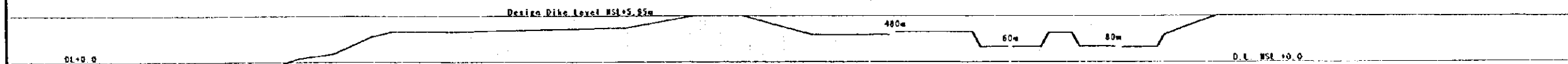
No Improvement



Improvement at 3-year return period

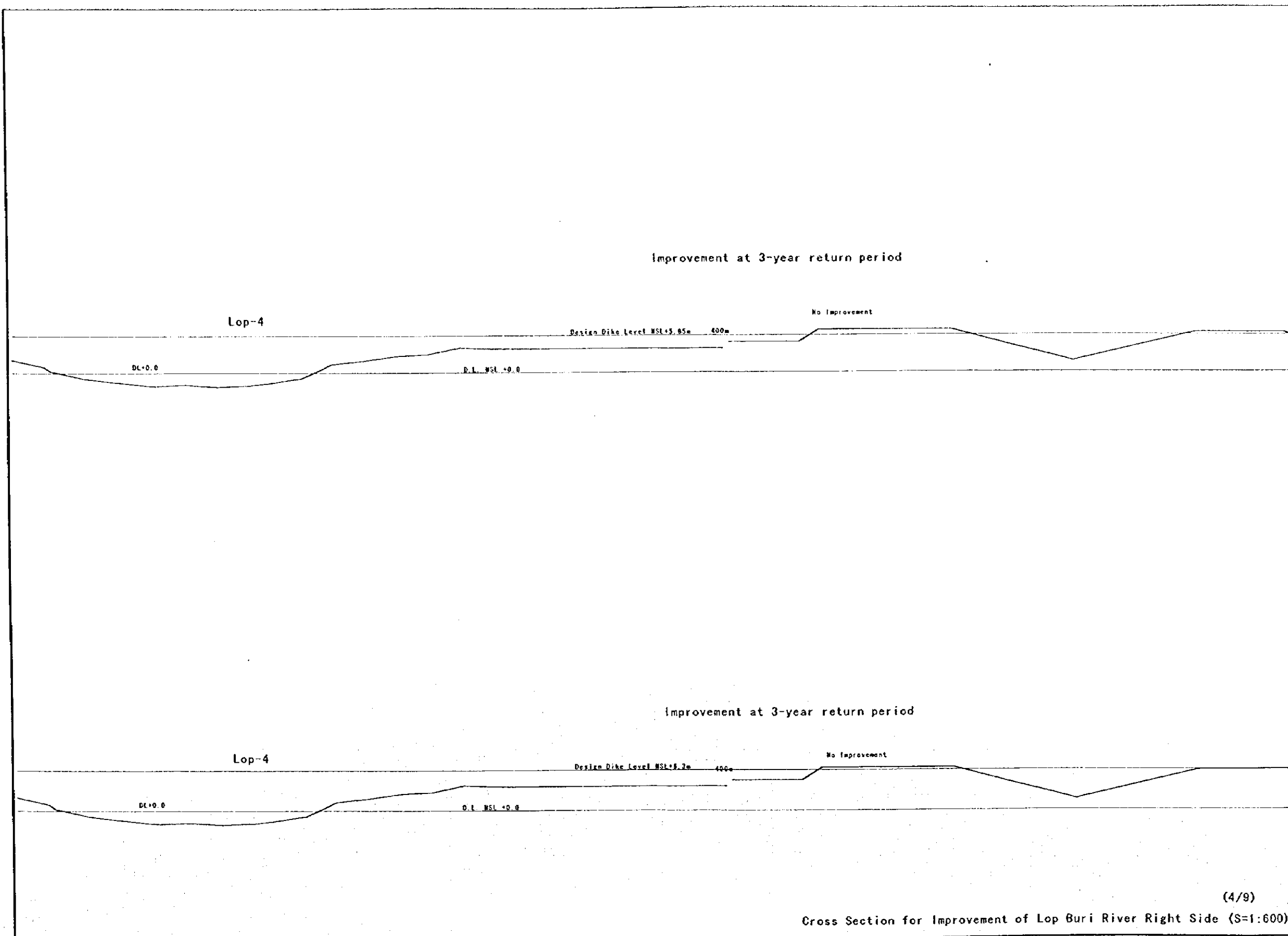
Lop-3

No Improvement



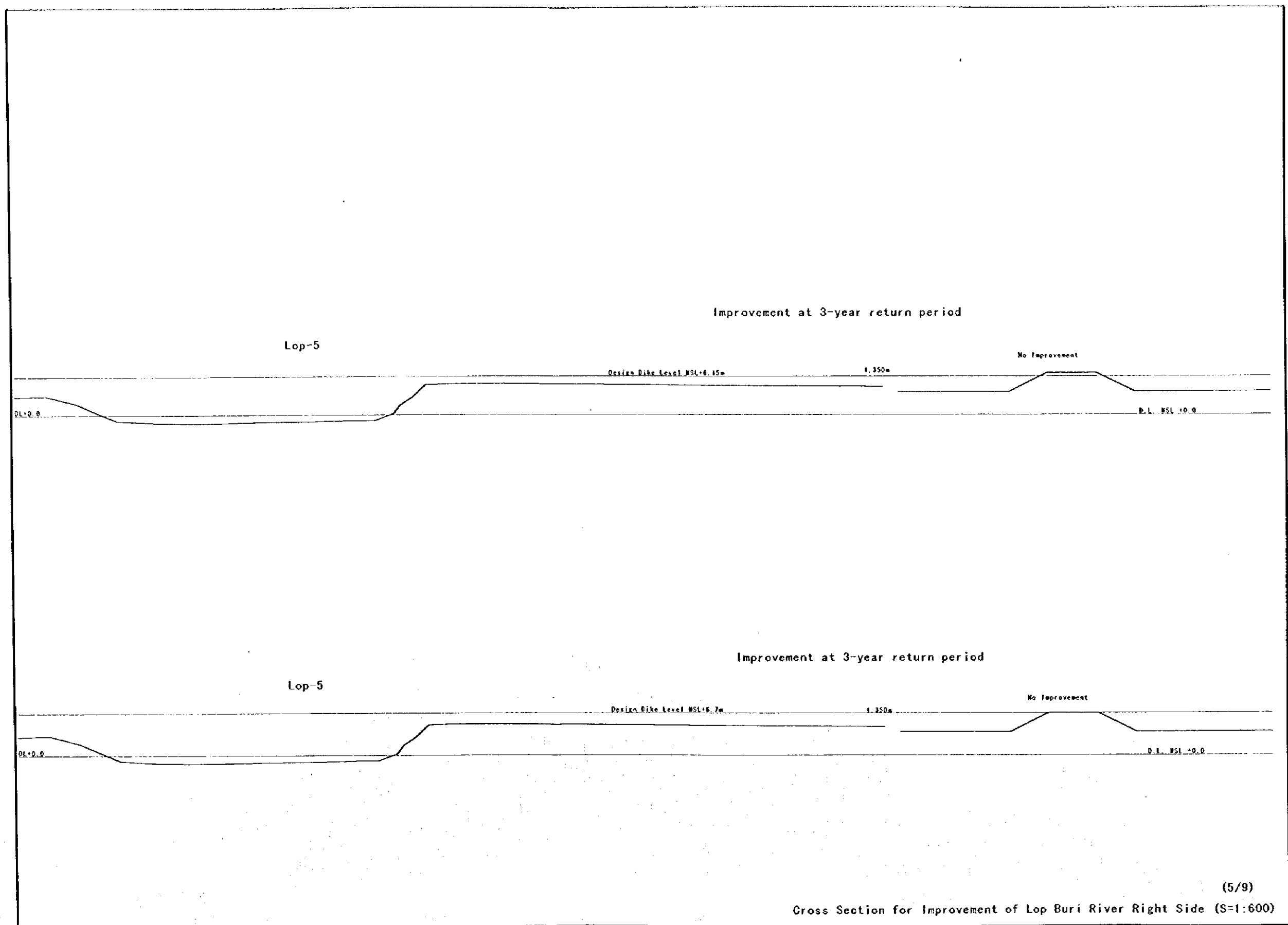
(3/9)

Cross Section for Improvement of Lop Buri River Right Side (S=1:600)

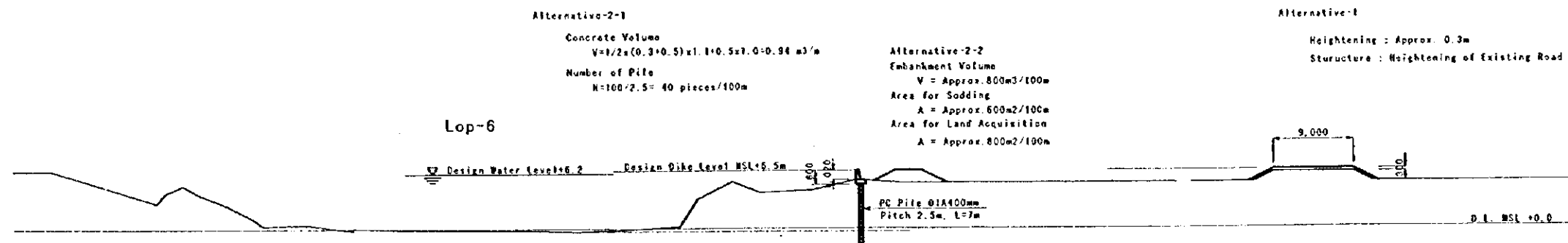


(4/9)

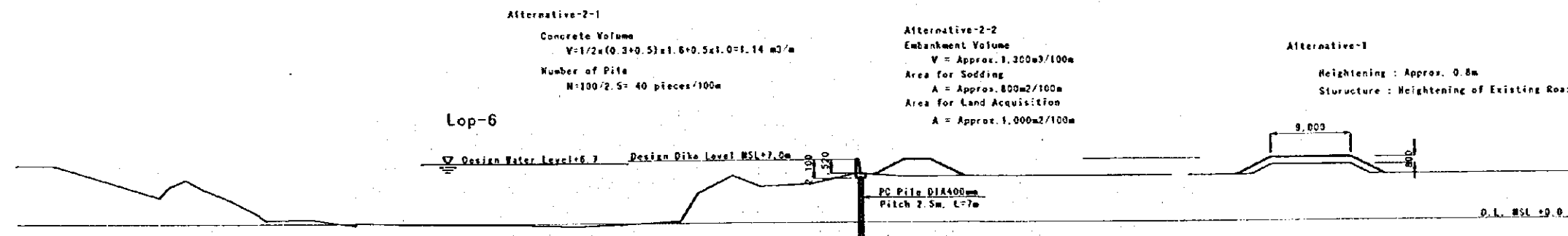
Cross Section for Improvement of Lop Buri River Right Side (S=1:600)



Improvement at 3-year return period

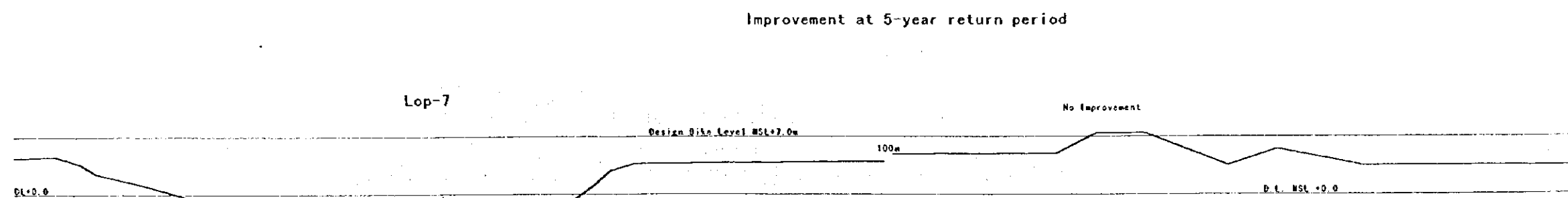
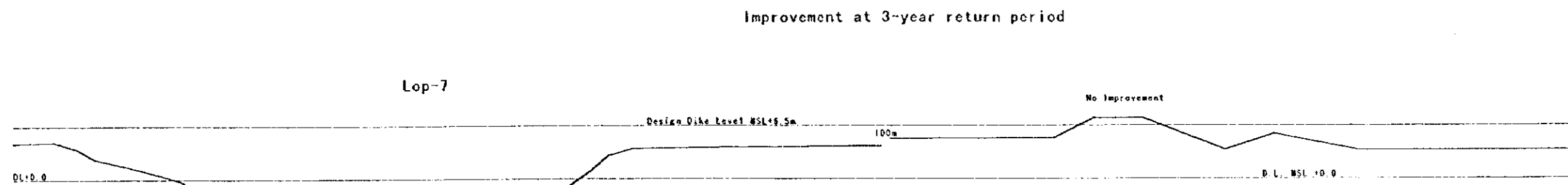


Improvement at 5-year return period



(6/9)

Cross Section for Improvement of Lop Buri River Right Side (S=1:600)

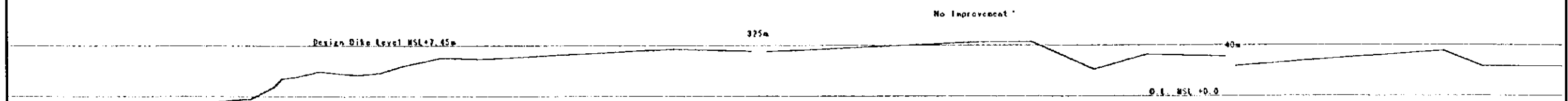


(7/9)

Cross Section for Improvement of Lop Buri River Right Side (S=1:600)

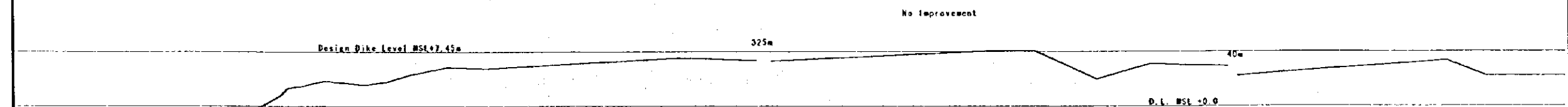
Lop-8

Improvement at 3-year return period



Lop-8

Improvement at 5-year return period



(8/9)

Cross Section for Improvement of Lop Buri River Right Side (S=1:600)

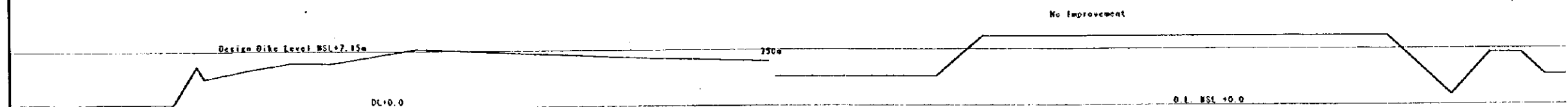
Improvement at 3-year return period

Lop-9



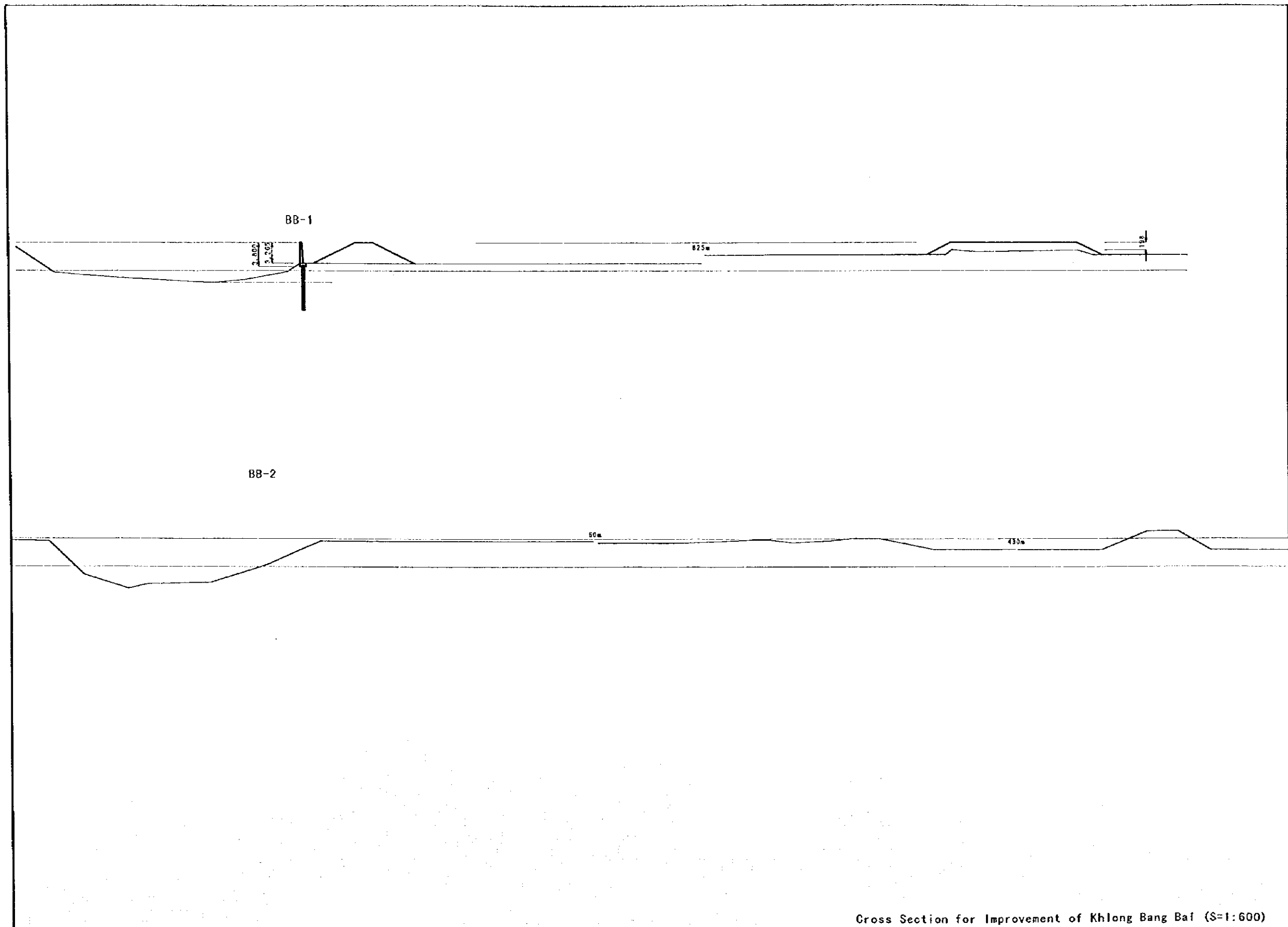
Improvement at 5-year return period

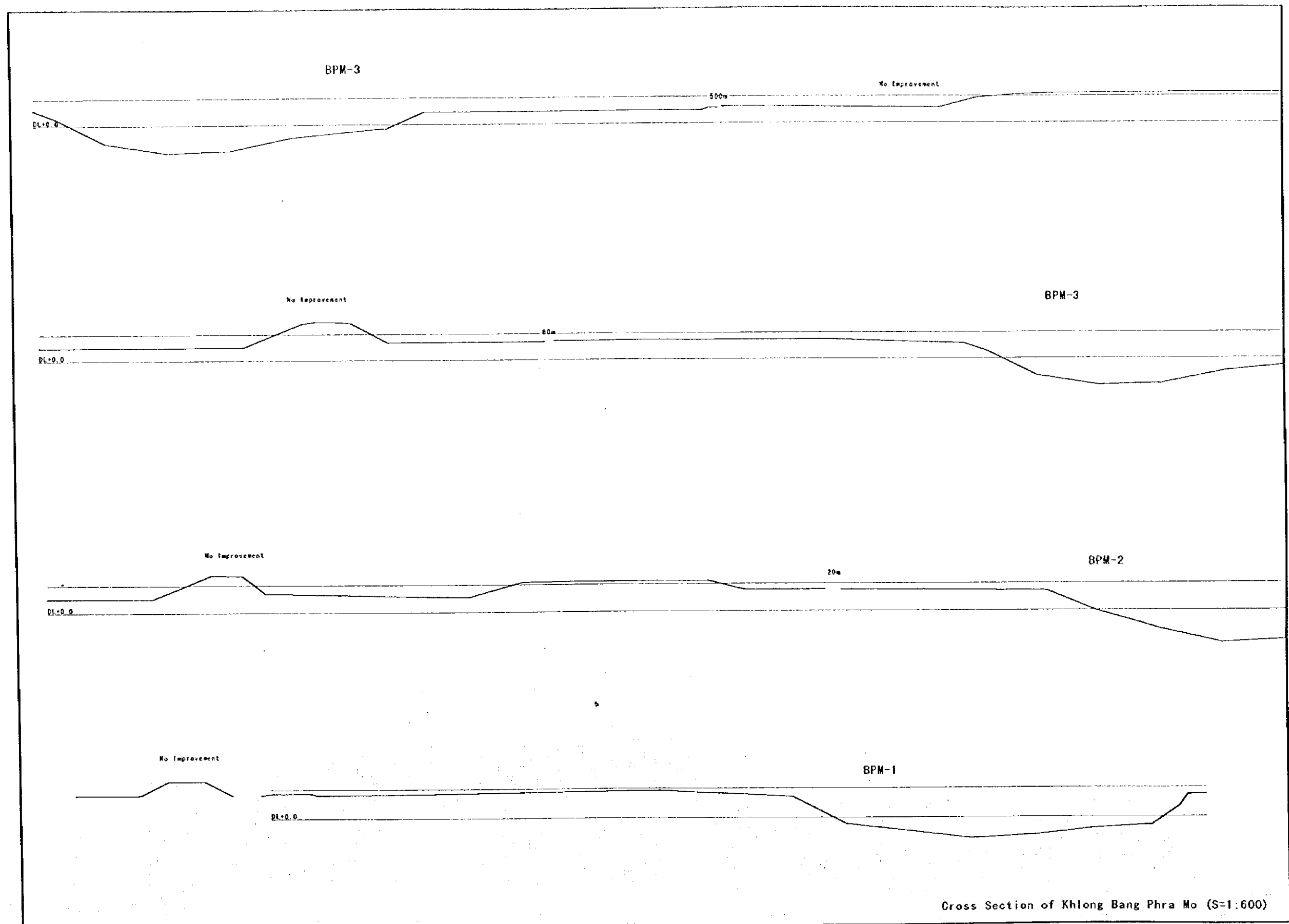
Lop-9



(9/9)

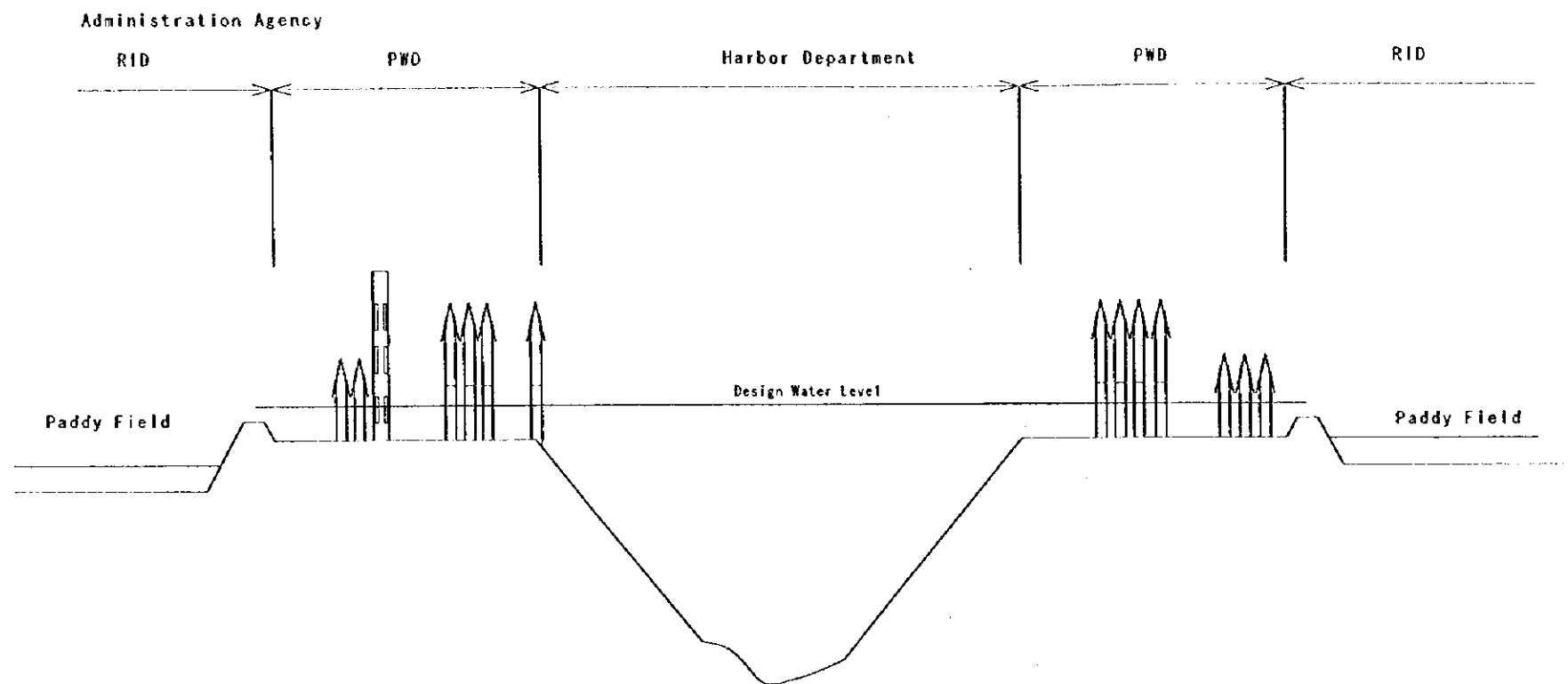
Cross Section for Improvement of Lop Buri River Right Side (S=1:600)



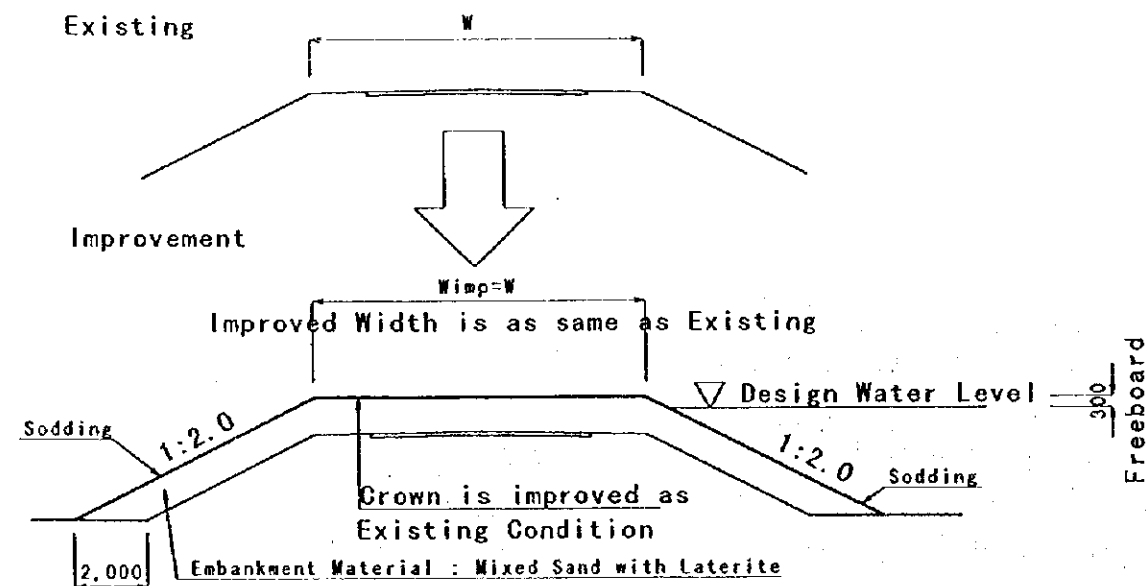


*5. Typical Structural Drawings
for River Improvement
in the Feasibility Study*

Present Situation



Design Criteria for Alternative-1

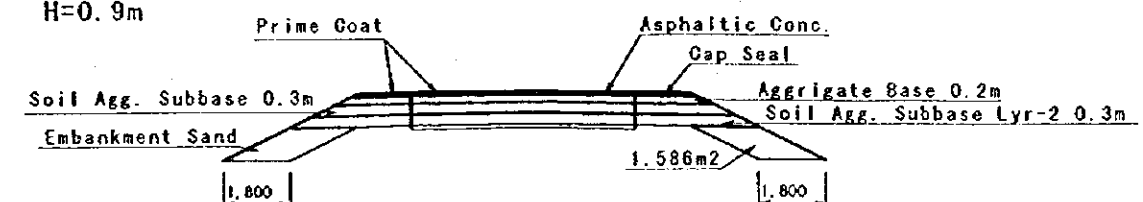


Exaple for Improvement of Existing Dike with Pavement

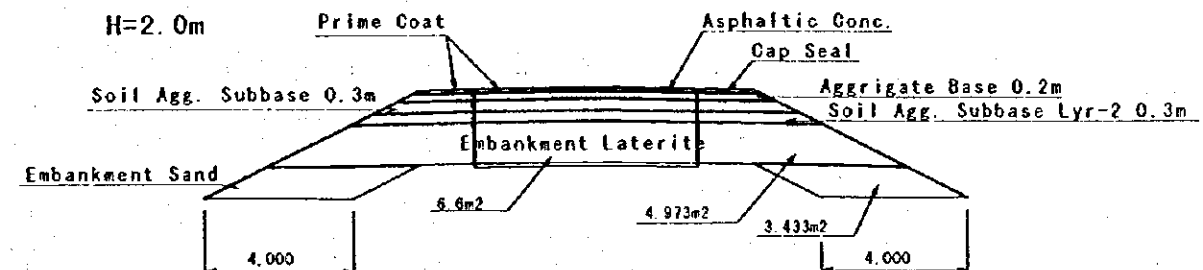
H=0.3m



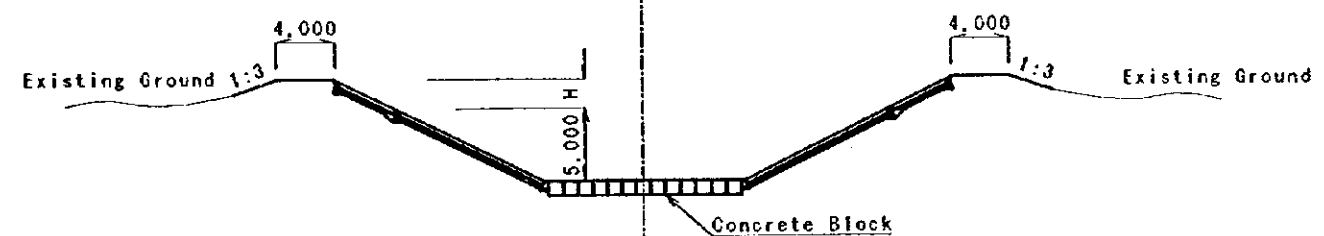
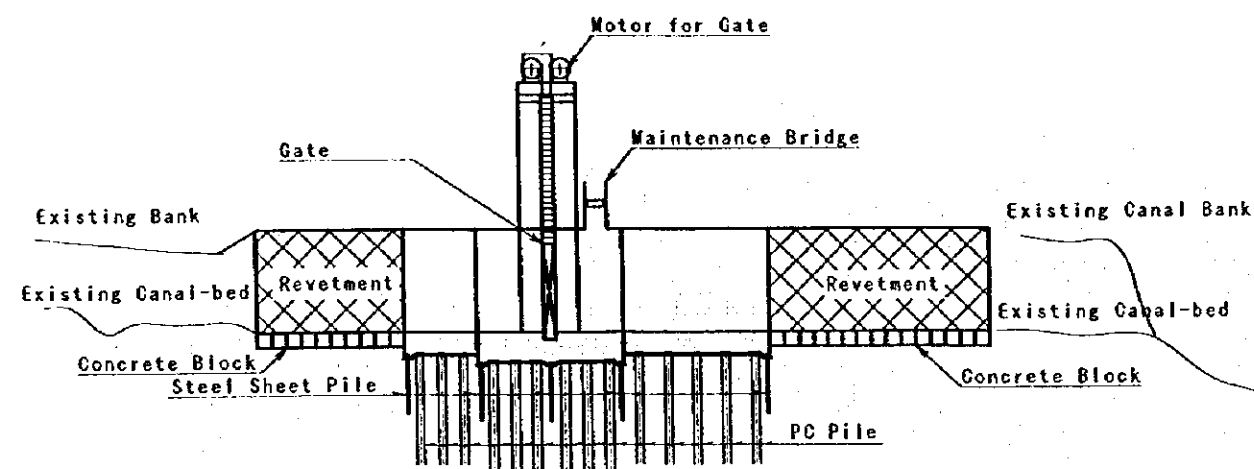
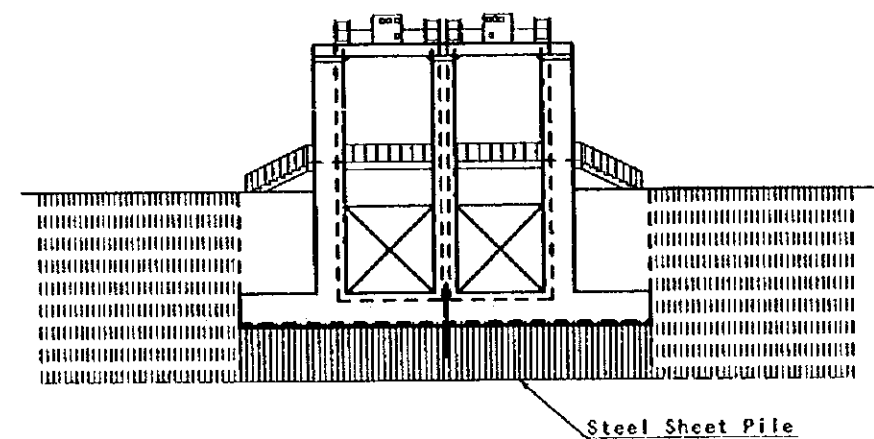
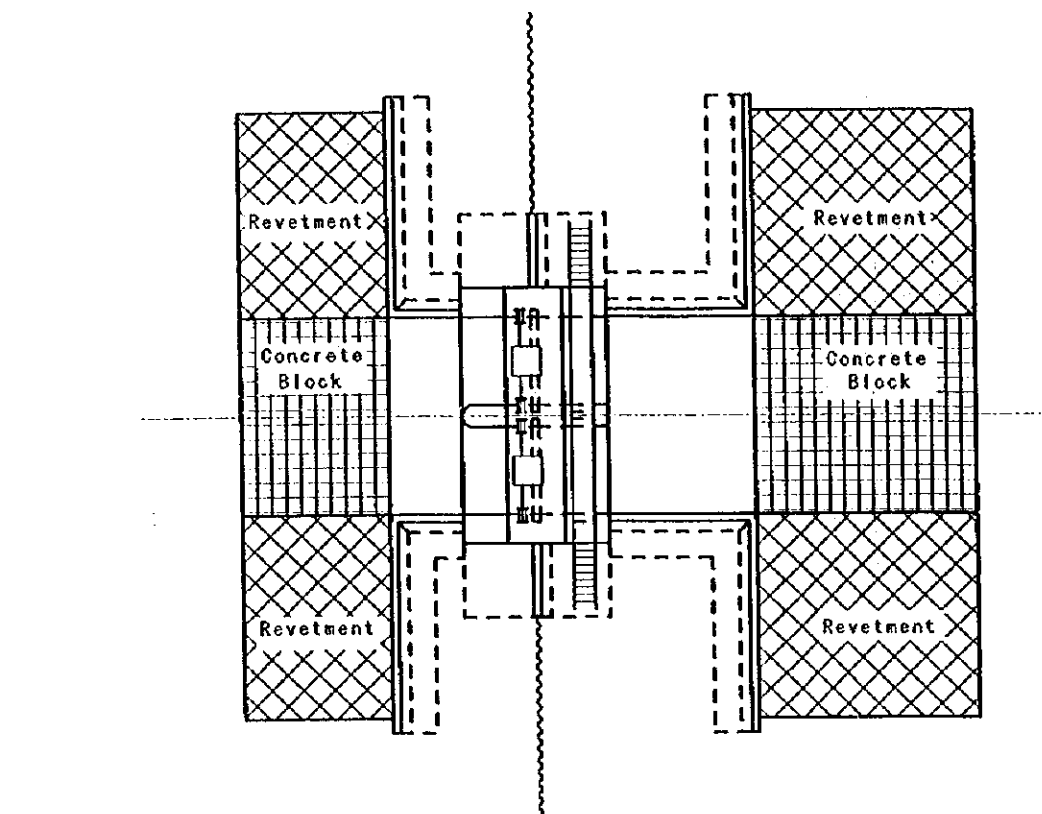
H=0.9m



H=2.0m



Structural Design for Dike Heightening



Main River

S=1:500

Structural Drawing of Gate

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JICA