

# Outline of Donated Construction

## [Required Function of Embankment]

### Disaster Protection Function :

Suppressing the volume of Tsunami waves caused by Nankai megathrust earthquakes and high waves after big earthquakes below an allowable value

### Environmental Preservation Function :

Preserving salty marsh environment behind of the Embankment  
(The structure is able to permeate the sea water under the Embankment)

## ▪ Embankment Strengthening Construction (L=1,640m)



Superstructure : RC structure  
Width of top W=1.4m  
Height H=1.0~1.35m

Short length pile :  
Steel pipe sheet pile  $\phi 800\text{mm}$   
L=3.0~4.5m, N=1,219 piles

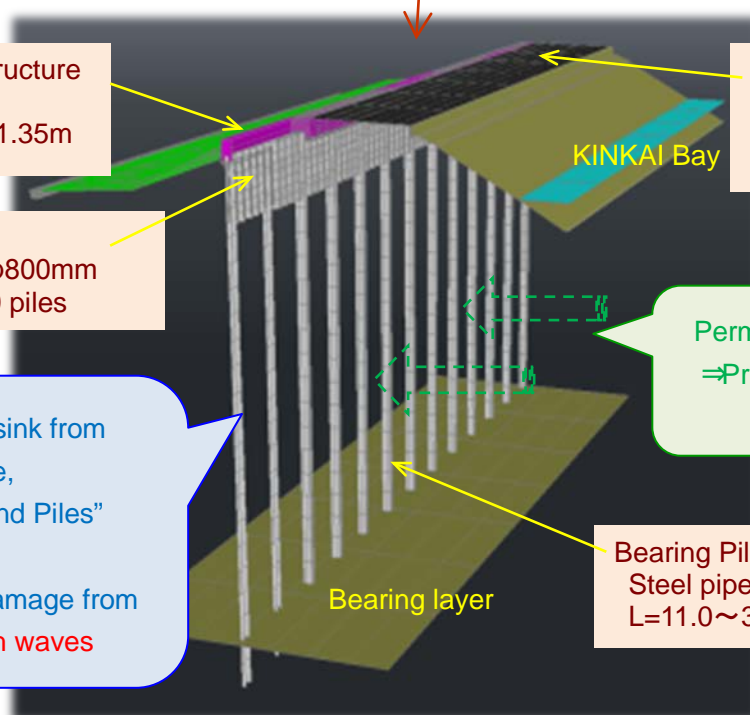
Though the bank sink from earthquake,  
"Superstructure and Piles"  
is steady  
⇒ Preventing flood damage from  
Tsunami and high waves

Removing the existing pavement and Reconstructing :  
About 13,000m<sup>2</sup>

Permeating the sea water  
⇒ Preserving salty marsh environment

Bearing Pile :  
Steel pipe sheet pile  $\phi 800\text{mm}$   
L=11.0~38.5m, N=308 piles

Bearing layer



## ▪ Sea Wall and Gate construction in TAMATSU Port



- Gravity-type retaining wall : Length=238.9m
- Pile-type retaining wall : Length=290.3m Total Length=529.2m
- Sea Gate : N=1 (Width=4.0m ,Height=0.7m)

## ▪ Sea Wall and Gate construction in SHIRAKU Port



- Gravity-type retaining wall : Length=90.5m
- Sea Gate : N=1 (Width=4.0m ,Height=0.85m)

### Sea Wall and Embankment Strengthening Construction

- Construction Period : Oct.1<sup>st</sup>,2014 ~ Mar.31<sup>th</sup>,2017
- Client : Setouchi Future Creations LLC
- Contractor : Shimizu Corporation