

# JPCI Award 2012

## 【JPCI Award for Outstanding Structures】



### ● Sanagawa Bridge

**Location :** Aichi  
**Structural Type :** 6-span continuous prestressed concrete box girder bridge  
**Bridge Length :** (Up line) 636m, (Down line) 699m  
**Span :** (Up line) 81.25+112.50+105.00+126.00+123.00+85.75m  
 (Down line) 76.75+2@128.00+2@142.00+79.75m  
**Width :** 10.75m (effective width)  
**Design :** Nagoya Branch, Central Nippon Expressway Company Limited  
 Kajima Corporation  
**Construction :** Kajima Corporation

### ● Main building of AIMR, Tohoku University

**Location :** Miyagi  
**Structural Type :** PCaPc+RC+S  
**Number of Stories :** 5 stories  
**Building use :** University  
**Floor Space :** 2599.84m<sup>2</sup>  
**Total floor space :** 9269.70m<sup>2</sup>  
**Design :** Tohoku University  
 Mitsubishi Jisho Sekkei Inc.  
**Construction :** Toda Corporation



### ● Japanese Consumers' Co-operative Union Onomichi Refrigerated Warehouse

**Location :** Hiroshima  
**Structural Type :** RC (Pre-stressed Flat beam & Flat plate)  
 Pedestrian bridge separately  
**Number of Stories :** 2 stories  
**Building use :** Refrigerated Warehouse  
**Floor Space :** 9,211.54m<sup>2</sup>  
**Total floor space :** 18,062.88m<sup>2</sup>  
**Design :** Nikken sekkei LTD.  
**Construction :** Kumagai Gumi Co., Ltd.

### ● Tagajyo daiichi Bridge

**Location :** Miyagi  
**Structural Type :** 2 span box and t-shape girder bridge  
**Bridge Length :** 81.0m  
**Span :** 2@39.8m  
**Width :** 10.3m  
**Design :** Yachiyo Engineering Co., Ltd.  
**Construction :** Obayashi Corporation Toda Corporation JV



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## 【JPCI Award for Outstanding Engineering Innovations】



### ● Seismic strengthening of historical brick masonry building by post-tension

**Location :** Tokyo  
**Structural Type :** Brick masonry bearing wall (Constructed in 1915)  
**Number of Stories :** 2 stories+1 basement  
**Building use :** Academic (School)  
**Floor Space :** 893.13m<sup>2</sup>  
**Total floor space :** 1794m<sup>2</sup>  
**Strengthening system :** Unbonded post-tensioning  
**Design (strengthening) :** Mitsubishi Jisho Sekkei Inc.  
**Construction (strengthening) :** Takenaka Corporation

### ● New PC floating body structure using the cylinder floating body and truss material

**Location :** Fukuoka  
**Structural Type :** The hexagon float of concrete  
**Diagonal-line Length :** 18.0m  
**Height :** 4.0m  
**Design :** Japan Port Consultants, Ltd.  
**Construction :** Fuji P.S Corporation



### ● Development of the response control system with The Core Column

**Outline of the development :** The response control system using The Core Column, prestressed concrete structure, as the added mass has been developed.

**Related structure :** TOKYO SKYTREE  
**Location :** Tokyo  
**Classification of structure :** Steel structure  
**Structural Type :** Steel pipe truss structure with The Core Column  
**Height :** 634.0m above the ground  
**Building use :** communications tower, store, office  
**The Core Column :** Prestressed concrete structure 376.9m above the ground (383.2m above the base) 8m in diameter, 400~600mm in thickness, Fc54  
**Design :** Nikken Sekkei Ltd.  
**Construction :** Obayashi Corporation

### ● Hamana Bridge Repair Construction

**Location :** Shizuoka  
**Structural Type :** 5-span continuous box girder bridge  
**Bridge Length :** 630m  
**Span :** 55.0m+140.0m+240.0m+140.0m+55.0m  
**Width :** 9.0m  
**Design :** IDEA Consultants, Inc., Oriental Shiraishi Corporation  
**Construction :** Oriental Shiraishi Corporation





# JPCI Award 2012

## 【JPCI Award for Outstanding Accomplishments of Constructions】



### ● Hanoi City Ring Road No.3 Construction Project Package2

**Location :** Hanoi, Vietnam  
**Structural Type :** 3-5 span Super-T Girder Bridge  
**Bridge Length :** Throughway 2070m, Ramp 447.6m  
**Span :** 30.0m-44.8m  
**Width :** Throughway (1 Side) 10.75m, Ramp 7.0m  
**Design :** Oriental Consultants, Katahira & Engineers International, other 3 companies  
**Construction :** Sumitomo Mitsui Construction Co.,Ltd.

### ● Imamura-shinden Bridge

**Location :** Niigata  
**Structural Type :** 4-span continuous box girder bridge×5  
5-span continuous box girder bridge×5  
**Bridge Length :** 1588.0m  
**Span :** 2@35m+3@32m, 2@32m+3@37m, 2@32m+2@37m, 35m+3@37m, 4@37m, 3@37m+2@35m, 3@35m+37m, 3@37m+35m, 5@35m, 5@35m  
**Width :** 11.7m~11.8m  
**Design :** Yachiyo Engineering  
**Construction :** P.S.Mitsubishi, Wakachiku Construction JV



### ● Sagami traversing SagamiharaAikawa interchange F lamp

**Location :** Kanagawa  
**Structural Type :** Retaining wall (Prestressed Concrete Walls)  
□700×700×Pile length (13~15m)  
**Construction length :** 81.7m  
**Design :** Katahira & Engineers Inc.  
**Construction :** Oriental Shiraishi Corporation