JPCI Award 2015

[JPCI Award for Outstanding Structures]



Tsubasa Bridge

Location : Neak Loeung, Kandal, Cambodia

Structural Type : 3-span PC cable stayed bridge (main),

5-span PC compo-bridge (approach)

Bridge Length : 900m+640m+675m

Span : 20@45m+(155m+330m+155m)+15@45m

Width : 13.5m (effective width)

Design : Chodai Co.,Ltd. Oriental Consultants Global

Co., Ltd. JV

Construction: Sumitomo Mitsui Construction Co., Ltd.

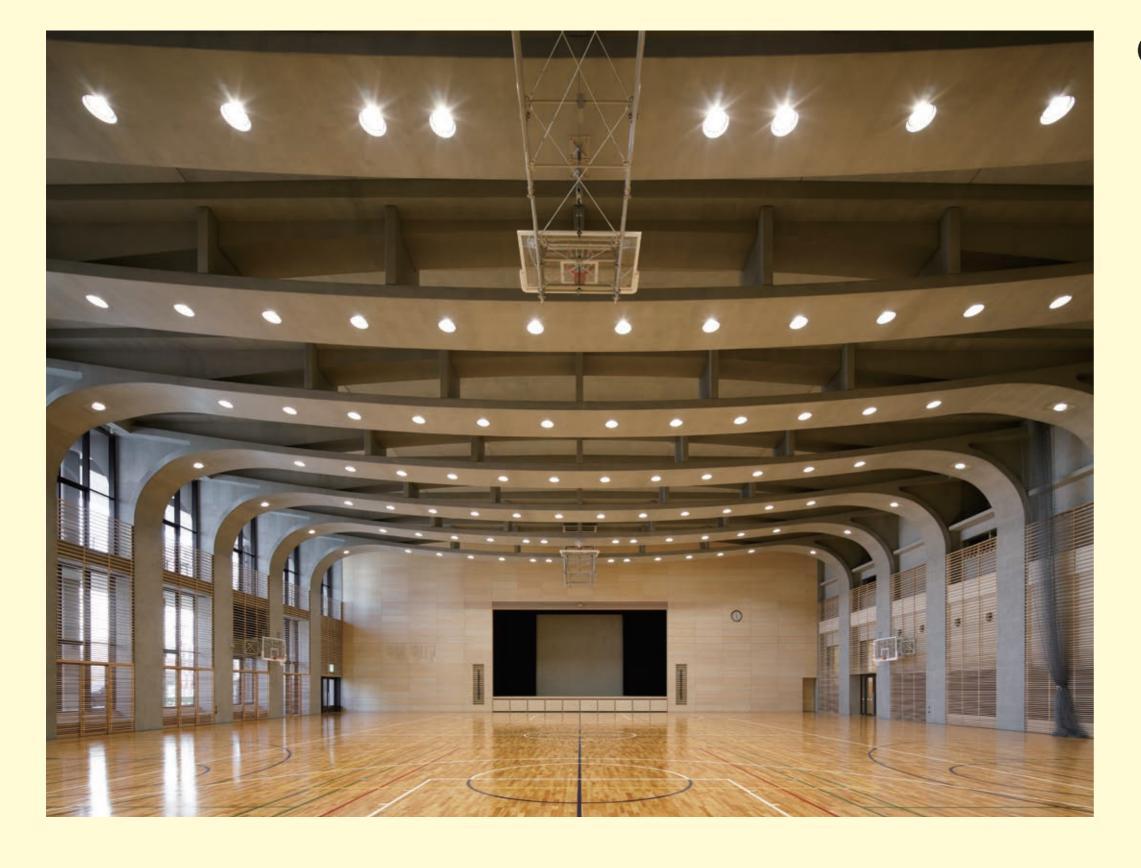


Suita City Football Stadium

Location : Suita City, OsakaStructural Type : RC+PC+SNumber of Stories : 6 stories

Building use : Football Stadium **Floor Space** : 24,717.59m² **Total floor space** : 66,509.36m²

Design : Takenaka CorporationConstruction : Takenaka Corporation



Shiroganenooka Gakuen

Location : Tokyo

Structural Type : Low-rise building :

Reinforced concrete (RC) structure
In part precast prestressed concrete

structure (PCaPC)
Medium-rise building:

Reinforced concrete (RC) structure

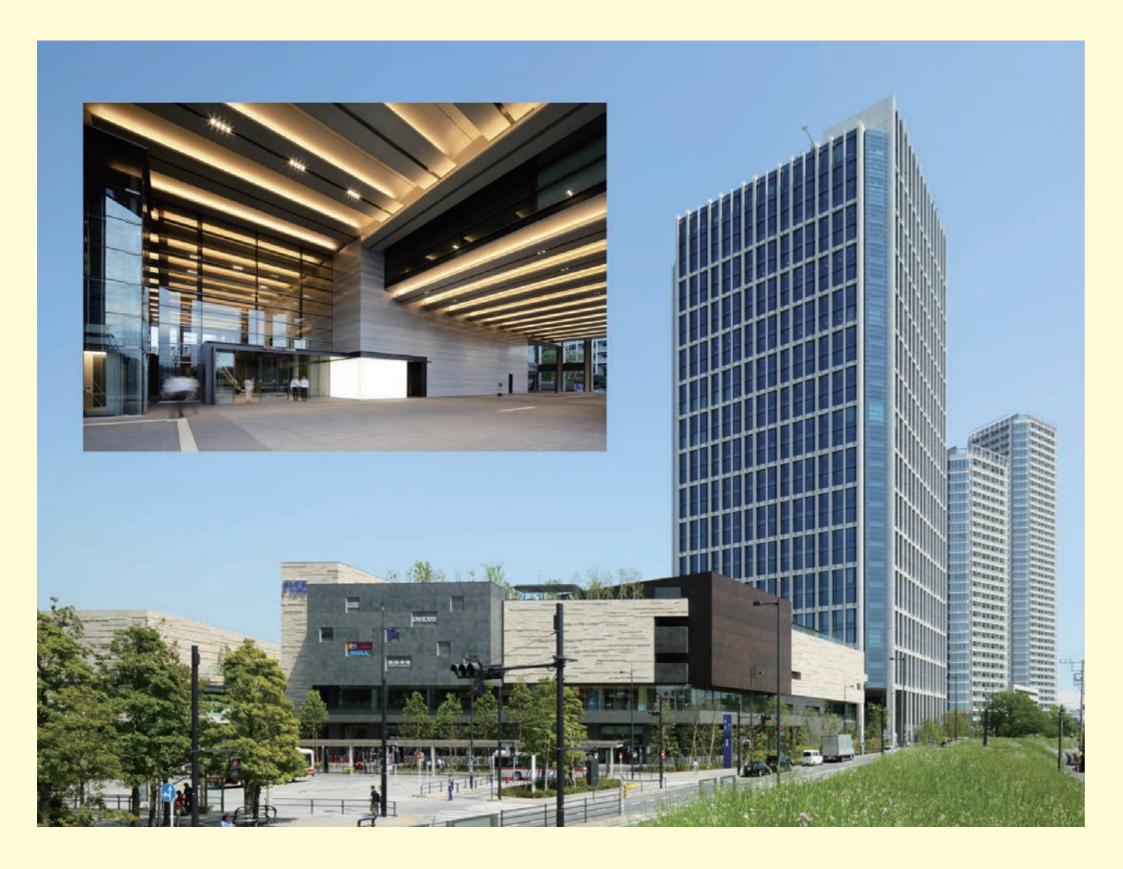
Number of Stories: 1 basement level, 6 stories above ground,

1 penthouse level

Building use : school facility
 Floor Space : 7,519.5m²
 Total floor space : 17,967.66 m²
 Design : NIKKEN SEKKEI
 Construction : TAISEI CORPORATION

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Futakotamagawa Rise II - a

Location : Tokyo

Structural Type : RC(Precast-Prestressed concrete), with

base isolation system

Number of Stories: penthouse 2 stories + 2 stories basement

and 30 stories above ground

Building use : Office and Hotel

Floor Space : $22,466 \text{ m}^2$

Total floor space $: 156,422 \text{m}^2 (101,210 \text{m}^2 \text{ for High-rise})$

building)

Design : NIKKEN SEKKEI/RIA/TOKYU

ARCHITECTS & ENGINEERS JV

Construction : KAJIMA CORPORATION



● The Main Stand of the Todoroki Athletics Stadium

Location : Kanagawa Prefecture

Structural Type : RC+S+Precast concrete

Number of Stories : 6 stories

Building use : Stadium

Floor Space : 10,154.02m²

Total floor space : 21,853.86m²

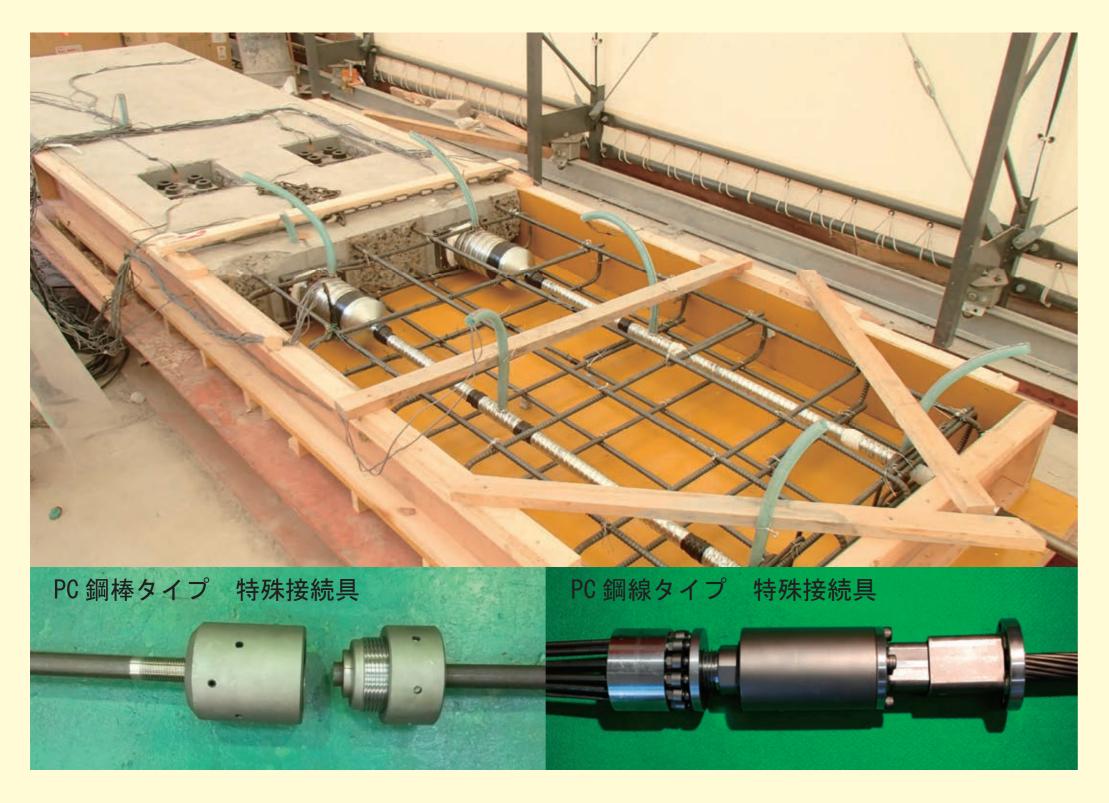
Design : NIHON SEKKEI +TAISEI DESIGN PAEConstruction : TAISEI • TOBISHIMA • OGAWA • NUMATA

NIHON SEKKEI



JPCI Award 2015

[JPCI Award for Outstanding Engineering Innovations]



Development of the widening method for PC bridge

Summary:

We developed widening construction method for the improvement of the function of PC bridge. Our results of research include.

- Development of intermediate anchorage device for connecting transverse PC tendon.
- Development of special connection device for connecting transverse PC tendon.
- Confirmation of construction method.
- Confirmation of performance of widening slab using these device.

Development:

- Metropolitan Expressway Co., Ltd.
- Sumitomo Mitsui Construction Co., Ltd.

[JPCI Award for Outstanding Accomplishments of Constructions]



Development of the Construction Period Shortening Method for Prestressed Concrete LNG Storage Tank using precast concrete form (Dual PC Speed Erection Method)

Location : Ishikari, Hokkaido Structure : LNG Storage Tank

 $\textbf{Gross Capacity} \hspace{0.1in} : \hspace{0.1in} 200,\hspace{-0.1in} 000kl$

Structural Type : Full Containment LNG TankOuter wall type : Prestressed Concrete outer wall

Inner Dim. of wall: 83.2m Height of wall: 43.1m

Design : Tasei CorporationConstruction : Tasei Corporation



Reinforcement work of Chuo-Expressway Kaminagafusa Bridge(up line)

Location : Tokyo

Structural Type: 3 span continuous non-synthetic steel girder

bridge×2 series

 $\begin{array}{lll} \textbf{Bridge Length} & : 161.9m \\ \textbf{Span} & : 3@26.7m \times 2 \end{array}$

Width : 11.1m(effective width)

Design : Central Nippon Highway Engineering Tokyo

Company Limited

Oriental Shiraishi Corporation

Construction: Oriental Shiraishi Corporation

Summary : Replacement of the slab by cross-section

division(20.0m), Increasing the thickness of the upper surface of the slab by cross-section division(141,9m), Replacement of the expansion Metal spray of the bearing,

Repainting of the pier.

