THICKENED SLAB

4' BRG. (TYP.)

CONC. BEAM

4' - Ø (TYPICAL)

VARIES

DETAIL

SCALE 1" = 1'-0"

3
PROVIDE REINFORCEMENT FOR MAX. NEGATIVE MOMENT.

CONC. BEAM

4' BRG. (TYP.)

CANTILEVER JOIST

DETAIL

SCALE 1" = 1'-0"
CONC. BEAM BY OTHERS

PRECAST JOIST

4' BRG. (TYP.)

DETAIL

SCALE 1" = 1'-0'

SPi

STRUCTURAL
PRESTRESSED
INDUSTRIES,
INC.

DRWG.BY: H.PEREZ
DATE: 06-26-09
JOB NO.
STANDARDS

CHK'D.BY: R.H.
DATE: 06-26-09
SHT. NO.

NO REVISIONS DATE
RECESS CAN NOT EXTEND ACROSS SUPPORT BEAM USE THICKENED SLAB OR JOIST BUILD-UP.
PRECAST JOIST

4' BRG (TYP)

CONC. BEAM BY OTHERS

PRECAST JOIST

TYPICAL JOIST SPACING

DETAIL

SCALE 1" = 1'-0"
PIN HOLES FOR FORMING.
HOLES ARE NOT PATCHED
CONSTRUCTION JOINT

\[ \frac{1}{2}'' \]

SEE PLAN

DETAIL

SCALE 1" = 1'-0''

---

SPI

STRUCTURAL PRESTRESSED INDUSTRIES, INC.

DRWG. BY: H. PEREZ
DATE: 06-26-09

JOB NO.
STANDARDS

CHK'D. BY: R.H.
DATE: 06-26-09

SHT. NO.

14
Shear friction connection. Connection used when full joist bearing conflicts with vert. reinf.
P.I.P. BEAM

PRECAST JOIST

DETAIL

SCALE 1" = 1'-0"
Top notch if req'd to clear beam reinforcing.

<table>
<thead>
<tr>
<th>Joist Size</th>
<th>Max. Bottom Notch</th>
</tr>
</thead>
<tbody>
<tr>
<td>8'</td>
<td>1⅛'</td>
</tr>
<tr>
<td>12''</td>
<td>3⅛'</td>
</tr>
<tr>
<td>16'</td>
<td>6⅛'</td>
</tr>
<tr>
<td>20'</td>
<td>8½'</td>
</tr>
<tr>
<td>24'</td>
<td>9½'</td>
</tr>
<tr>
<td>28'</td>
<td>10½'</td>
</tr>
</tbody>
</table>

Shallow DAPs (less than 0.2 H), DAP reinforcing not required, as per PCI.
HARPED STRAND PATTERN
SCALE 1/2" = 1'-0"

END PATTERN
SCALE 3/4" = 1'-0"

MID SPAN
SCALE 3/4" = 1'-0"

STRANDS
DETAIL

SCALE 1" = 1'-0"

PRECAST JOIST

PRECAST SOFFIT BEAM

2'-0"

6'-0"

AS REQUIRED

23
PRECAST JOIST

PRECAST SOFFIT BEAM

ROOF PAD OR SLIDE
BRG. ASSEMBLY.

DESIGN PRECAST SOFFIT
AS LEDGER BEAM

4\" BRG.
(TYP.)

2' - 0\'

DETAIL
SCALE 1" = 1' - 0\" (24)

STRUCTURAL
PRESTRESSED
INDUSTRIES,
INC.

DRWG.BY: H. PEREZ
DATE: 06-26-09
JOB NO.
STANDARDS

CHK'D.BY: R.H.
DATE: 06-26-09
SHT. NO.
24
DETAIL
SCALE 1" = 1'-0''

CONC. SLAB
(BY OTHERS)

DEPRESSION

4'-0'' (TYP.)

THICKENED SLAB

PRECAST JOIST

4' BRG.
(TYP.)

1'-4''

PRECAST SOFIT BEAM

SPI
STRUCTURAL
PRESTRESSED
INDUSTRIES,
INC.

DRWG.BY: H.PEREZ
DATE: 06-26-09
JOB NO.
STANDARDS

CHK'D.BY: R.H.
DATE: 06-26-09
SHT. NO.

28
SOFFIT TO COLUMN CONNECTION DETAIL

SCALE 3/4" = 1'-0"

PRECAST SOFFIT BEAM

SHEAR FRICTION REINFORCING

CONC. COLUMN (BY OTHERS)

CAST IN SOFFIT BEAM

STIRRUP SPACING AS REQUIRED

© COL.
THRU-HOLES @ 20" O.C.
FOR FORM SUPPORT HDWE.
HOLES REMAIN OPEN.

PRECAST JOIST

CONC. Shim

SOFFIT BEAM

4' BRG.
(TYP.)

16" OR 24"

DETAIL

SCALE 1" = 1'-0"

32
S.P.I. recommends as a minimum a control joint parallel to joist length every other joist in exposed deck. EOR must determine if other control joints are required. S.P.I. is not responsible for overall serviceability of concrete deck.
DETAIL
SCALE 1" = 1'-0"

HANGER BRG. 3'
JOIST HANGER
VARIES
24' OR 28' JOIST

SEAT
9 1/2

PRECAST SOFFIT BEAM
1'-4'
1/2 1/2 (TYP)

STRUCTURAL PRESTRESSED INDUSTRIES, INC.

DRWG.BY: H.PEREZ
DATE: 06-26-09

CHK'D.BY: R.H.
DATE: 06-26-09
DETAIL
SCALE 1" = 1'-0"
FORMING DETAIL
SCALE 1" = 1'-0"
### TYPICAL SECTION

**JOISTS DIMENSIONS**

<table>
<thead>
<tr>
<th>H</th>
<th>B</th>
<th>T</th>
<th>WT. PLF</th>
</tr>
</thead>
<tbody>
<tr>
<td>8'</td>
<td>5½'</td>
<td>6'</td>
<td>45.5</td>
</tr>
<tr>
<td>12'</td>
<td>5¼'</td>
<td>6'</td>
<td>67</td>
</tr>
<tr>
<td>16'</td>
<td>5¼'</td>
<td>6¾'</td>
<td>95</td>
</tr>
<tr>
<td>20'</td>
<td>6¾'</td>
<td>8'</td>
<td>154</td>
</tr>
<tr>
<td>24'</td>
<td>6½'</td>
<td>8'</td>
<td>174</td>
</tr>
<tr>
<td>28'</td>
<td>6½'</td>
<td>8½'</td>
<td>210</td>
</tr>
</tbody>
</table>

**TEMP. REINF.**

- Typical main deck reinforcement
- Single layer at mid-depth
- Intentionally roughened

**JOIST EMBEDMENT**

- ± ½" 8' & 12' joist
- ± ¼" 16' joist
- ± ½" 20', 24', & 28' joist

**TYPICAL JOIST SPACING**

- 3'-6", 4'-6", 5'-6", 6'-6½" (8" & 12" joist)
- 4'-6½", 5'-6¾", 6'-6¾" (16" joist)
- 4'-8", 5'-8", 6'-8", 7'-8", 8'-8¼" (20", 24", 28" joist)

---

**NOTES:**

- *3 @ 6" O.C. 8' JOIST*
- *3 @ 9" O.C. 12' JOIST*
- *3 @ 12" O.C. 16', 20', 24', & 28' JOIST*