TEMPORARY DETOUR BRIDGE DETAILS

STEEL PIPE PILE FOUNDATIONS

DESCRIPTION:

1. **Plan View Steel Pipe Cap Assembly**
   - Bearing Plates and Bearing Keeper Bars are not shown for clarity.

2. **Partial View A-A**
   - Steel Pipe Cap Plate
   - 24" Ø Steel Pipe Pile (see plans for pipe wall thickness)

3. **View B-B**
   - 1" Strut Connector Plate (see detail)
   - 6" x 1" x 1-10" x 1-10" (Stiffener Plate)
   - 2 - 4" x 10½" x 1-10" (Stiffener Plates)
   - Ø 1½" Hole in HP 12 x 24 Strut Beam (Typ. each end)
   - HP 12 x 74 (Strut Beam)
   - 1½" Ø Heavy Hex Bolt, Nut and Washers

4. **View C-C**
   - 1" Pile Tip Stiffener Plates (tight fit)
   - 1" Pile Tip Seal Plate (tight fit)
   - 1½" Ø Hole (Typ.)

Revisions:

- 07/01/06

Revision No.

01

21630

1 of 3
**DESCRIPTION:**

1/2" x 1/2" Fixed Bearing Keeper Bar (Typ.)

Typ. both legs

2'-2" Ø x 1/2" x 5'-0" Steel Pipe Pile Cap

24" Ø Steel Pipe Pile

**Note:**

Use Shim Plates as required to provide equal bearing seat elevations across the bent. Vary thickness of Shim Plate across the pile cap plate to provide a level bearing area in the transverse direction.

**FIXED BEARING DETAILS**
ABUTMENT AND INTERMEDIATE EXPANSION BEARING DETAILS

PARTIAL PLAN VIEW

- 3' - 4"
- 2' - 4"
- 6' - 0"
- 6' - 0"

PARTIAL ELEVATION VIEW

- 24" Ø Steel Pipe Pile
- 2'-2" Ø x b" x 5'-0" Steel Pile Cap
- b" Steel Pipe Pile Cap Plate

Expansion Bearing Assembly shown dashed

Typ. both legs

Note:
Use Shim Plates as required to provide equal bearing seat elevations across the bent. Vary thickness of Shim Plate across the pile cap plate to provide a level bearing area in the transverse direction.

EXPANSION BEARING KEEPER BAR DETAIL

END VIEW

- 1' - 2"
- 2' - 4"
- 1' - 6"
- 3' - 4"

ABUTMENT AND INTERMEDIATE EXPANSION BEARING DETAILS

PARTIAL PLAN VIEW

- 3' - 4"
- 2' - 4"
- 6' - 0"
- 6' - 0"

PARTIAL ELEVATION VIEW

- 24" Ø Steel Pipe Pile
- 2'-2" Ø x b" x 5'-0" Steel Pile Cap
- b" Steel Pipe Pile Cap Plate

Expansion Bearing Assembly shown dashed

Typ. both legs

Note:
Use Shim Plates as required to provide equal bearing seat elevations across the bent. Vary thickness of Shim Plate across the pile cap plate to provide a level bearing area in the transverse direction.