

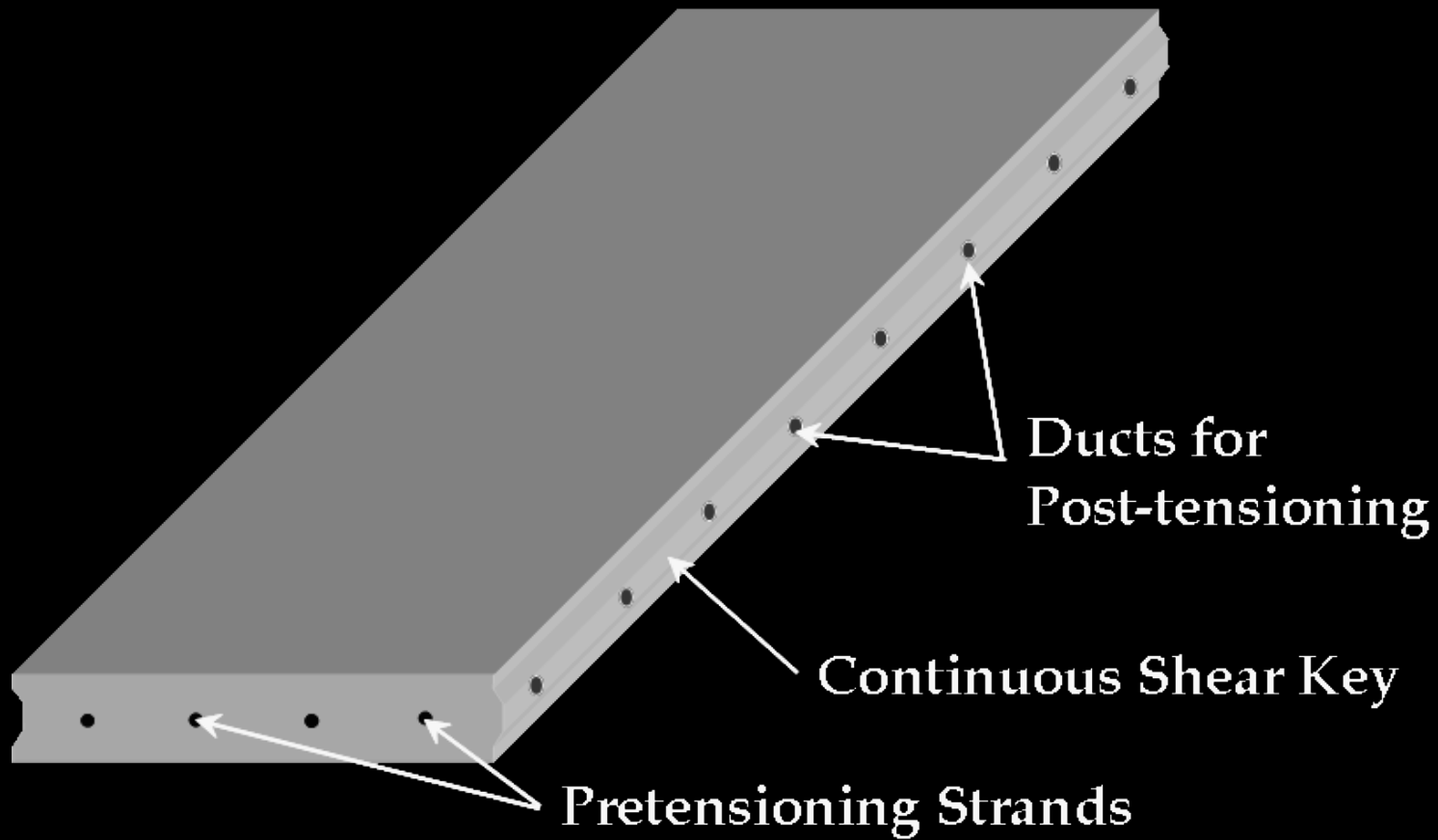
# What is PPCP?

- ◆ *Precast* Prestressed Concrete Pavement
  - “Standardized” full-depth precast panels
  - Keyed panel joints for vertical alignment during assembly (generally, not match-cast)
  - Constructed over a prepared base (HMA, LCB, Aggregate Base, etc.)

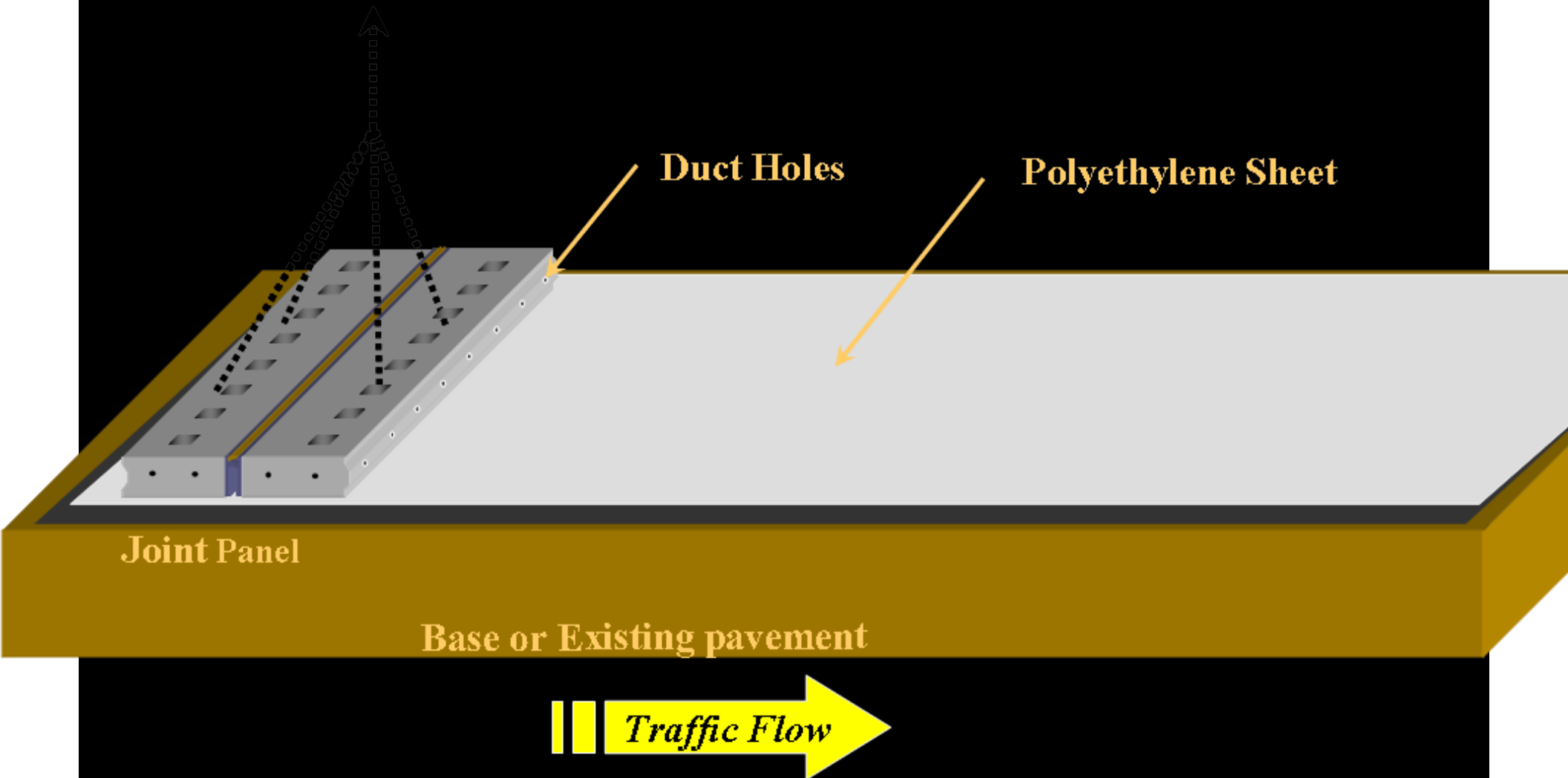
# What is PPCP?

- ◆ Precast *Prestressed* Concrete Pavement
  - 2-way prestressing
  - Combination of pretensioning/post-tensioning
  - *Or* 2-way post-tensioning
  - Bonded/grouted P-T system

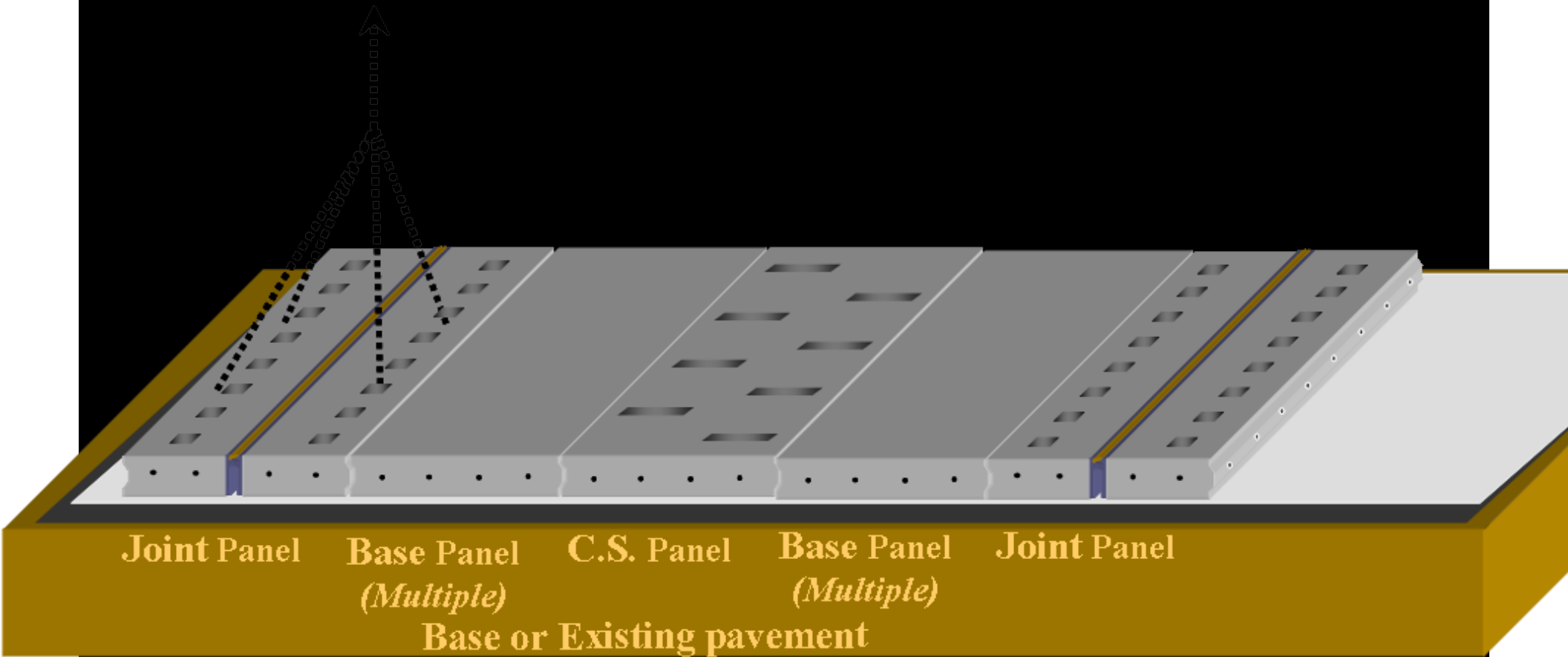
# Typical PPCP Panel



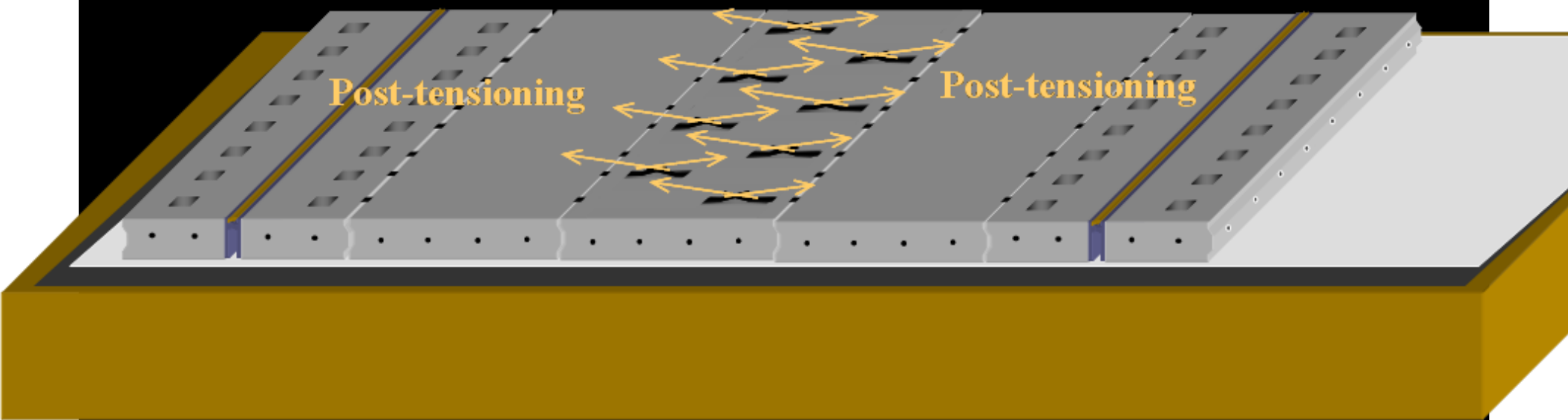
# Typical PPCP Panel Layout



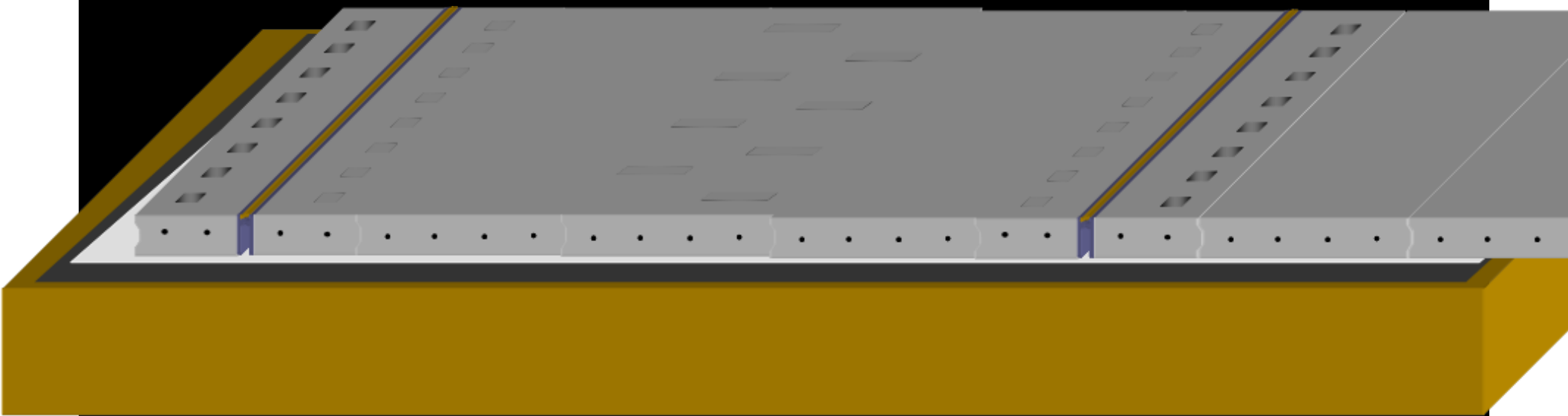
# Typical PPCP Panel Layout



# Typical PPCP Panel Layout



# Typical PPCP Panel Layout



# Benefits

- ◆ *Why Prestressed Concrete?*
  - Reduces/eliminates slab cracking (maintenance)
  - Reduced number of joints (maintenance/smoothness)
  - Reduced Slab Thickness (8” vs. 12”)
    - Material savings
    - Allows for replacement of pavement **in-kind**
  - Ability to **span voids/unsound support layers**
  - **Proven Long-Term Performance**
    - 6” CIP post-tensioned pavement constructed in 1985 (near West, Texas)
    - Virtually no maintenance in 23 years