SUGGESTED MASTER SPECIFICATION
SECTION 03 21 00 SLIP DOWEL SYSTEM

PART 1 GENERAL
1.01 SECTION INCLUDES:
   A. Provision for assuring proper field positioning and alignment of slip dowels at concrete flatwork construction joints and expansion joints.
   B. Provision for allowing free shrinkage and expansion of concrete surfaces adjacent to construction or expansion joints while providing proper load transfer and preventing differential settlement.

1.02 RELATED SECTIONS:
   A. Section 03 10 00 - Concrete Forming and Accessories
   B. Section 03 20 00 - Concrete Reinforcing
   C. Section 03 30 00 - Cast-In-Place Concrete

1.03 REFERENCES:
   A. American Concrete Institute (ACI):
      1. ACI 117: Specifications for Tolerances for Concrete Construction and Materials and Commentary
      2. ACI 302.1R: Guide for Concrete Floor and Slab Construction
      4. ACI 223: Standard Practice for the Use of Shrinkage Compensating Concrete
      5. ACI 224.3R: Joints in Concrete Construction
      7. ACI 360R: Guide to Design of Slabs-on-Ground

PART 2 PRODUCTS
2.01 MANUFACTURER
   A. Sika (St. Louis Sales Office). Phone: 800-325-9504 Fax: 800-551-5145, USA.Sika.com

2.02 MATERIALS
   A. Provide two component SPEED DOWEL system, to accept___ “ diameter x ___” long slip dowel (fill in appropriate slip dowel dimensions).
   B. SPEED DOWEL System is comprised of a reusable base and a plastic sleeve. Both pieces shall be manufactured from polypropylene plastic.
PART 3 EXECUTION

3.01 INSTALLATION

A. Attach bases to the face of concrete forms at the specified on center spacing using a double-headed nail or self-tapping screw.
B. Center of base shall be centered on form (or positioned as directed by engineer).
C. Prior to pouring concrete, SPEED DOWEL sleeve shall be slipped over base.
D. Pour concrete minimum 18” from SPEED DOWEL System and work concrete around the SPEED DOWEL System.
E. Concrete forms shall be removed with bases still attached. Bases may be reused.
F. Install slip dowels to the full depth of the embedded SPEED DOWEL Sleeve and proceed with next concrete pour.

3.02 FIELD QUALITY CONTROL

A. Greasing of dowels is not required. Embedded SPEED DOWEL sleeve accommodates expansion and shrinkage movements that may occur.
B. Bent or badly sheared slip dowels shall not be used. Saw cut dowels recommended.
C. Concrete shall not be poured directly over the SPEED DOWEL System.
D. Place edge forms plumb. Out of plumb forms may result in misaligned dowels.

END OF SECTION