

## Use of Open Graded Friction Course

HWY 1 NORTH, MORRO BAY, CALIFORNIA – May 2008

### Project Details:

**Location:** Northbound lanes of Highway 1, outskirts of Morro Bay, California

**Agency:** California DOT (Caltrans)

**Contractor:** R.H. Burke Construction

**Producer:** Union Asphalt Inc., Paso Robles California

**Tonnage (WMA):** 600-700 tons of polymer – modified asphalt

**Temp Range (WMA):** 260°-290°F

**Haul Time:** 45 min – 1 hour

**Placement temp. (WMA):** 260°F

**Working Conditions:** Changed from cool and foggy to warm during construction hours

### Mix Design:

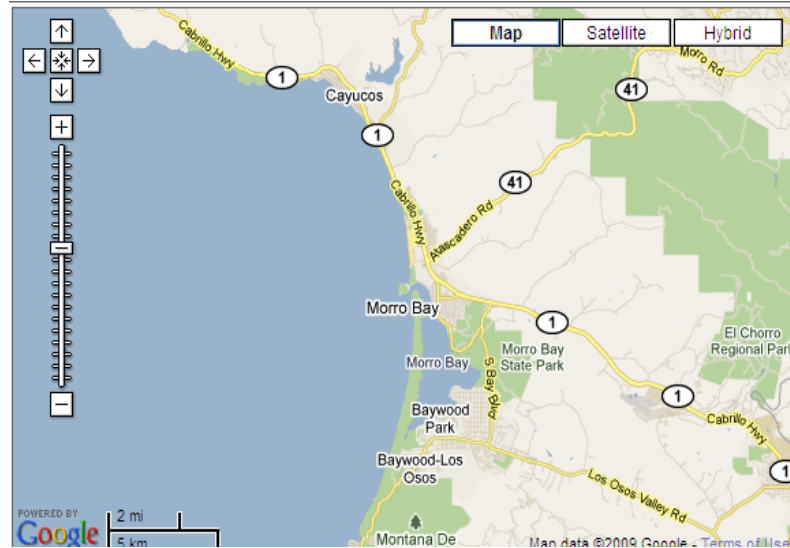
10" OGFC with PG 58-34 CT Mix design: 6.5% OBC  
Final Compaction: 220°F

### Placement:

R.H. Burke Construction laid down a 1.2 inch lift of open grade asphalt, along with 600-700 tons of polymer – modified asphalt.

The paving was done on the northbound lanes of California Highway 1, just outside Morro Bay. The mixes were produced by Union Asphalt Inc.'s plant in Paso Robles, California.

"Open –graded mixes can get stiff quickly, but the warm-mix additives opened up the window for workability



### ADVERA® WMA Benefits:

- Visible reduction of fumes and harmful emissions
- Reduced energy costs up to 30% from lower
- Decreased binder aging
- Combat weather related paving challenges and long haul distances
  - Successful haul 1+ hour haul
- Drastic reduction in the aging of the binder