

Asphalt concrete T-patch

1. GENERAL

- A. If a saw cut in the direction of vehicular travel is within a wheel path, ENGINEER order additional pavement removal so saw cut falls outside of a wheel path.

2. PRODUCTS

- A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel base course without ENGINEER's permission.
- B. Flowable Fill: Target is 60 psi in 28-days and 90 psi maximum in 28 days, APWA Section 31 05 15. It must flow easily requiring no vibration for consolidation.
- C. Reinforcement. Galvanized or epoxy coated, 60 ksi yield grade steel, ASTM A 615.
- D. Concrete: Class 4000, APWA Section 03 30 04.
- E. Tack Coat: APWA Section 32 12 13.13.
- F. Asphalt Concrete. APWA Section 32 12 05.
 - 1. Warm weather patch – AC-20-DM-1/2 unless indicated otherwise.
 - 2. Cold weather patch – modified MC-250-FM-1, APWA Section 33 05 25.

3. EXECUTION

- A. Base Course Placement: APWA Section 32 05 10. Maximum lift thickness before compaction is 8-inches when using riding equipment or 6-inches when using hand tamping equipment. Compaction is 95 percent or greater relative to a modified proctor density. APWA Section 31 23 26.
- B. Tack Coat. Clean all horizontal and vertical surfaces. Apply full coverage.
- C. Asphalt Pavement. Match existing thickness plus 1 inch but not more than 6-inches residential thoroughfares or 8-inches non residential thoroughfares. Install in lifts no greater than 3-inches after compaction. Compact to 94 percent of ASTM D 2041 (Relative density) plus or minus 2 percent. If asphalt pavement is substituted for concrete substrate, omit rebar and provide 1.25 inches of pavement for each 1 inch of concrete substrate substituted.
- D. Reinforcement: Required if thickness of existing Portland-cement concrete substrate 6-inches or greater. Not required if (1) less than 6-inches thick, (2) if existing concrete is deteriorating, (3) if excavation is less than 3 feet square, or (4) if asphalt pavement substituted for Portland-cement concrete substrate.
- E. Concrete Substrate. Cure to initial set before placing new asphalt concrete patch.
- F. Joint Repair. If a crack occurs at a connection to an existing pavement or at any structure fixture, flush seal the crack per Plan 265.
- G. Patch Repair: Repair patch if any of the following conditions within the patch occur.
 - 1) Pavement surface distortion exceeds 1/4-inch deviation in 10 feet. Repair option: Plane off surface distortions. Coat planed surfaces with a cationic or anionic emulsion that complies with APWA Section 32 12 03.
 - 2) Cracks at least 1-foot long and 1/4-inch wide occur more often than 1 in 10 square feet. Repair option: Crack seal, APWA Section 32 01 17.
 - 3) Asphalt raveling is greater than 1 square foot per 100 square feet. Repair option: Mill and inlay.