

SECTION 02523

RESTORING SIDEWALKS, DRIVEWAYS, CURBS, GUTTERS AND STORM DRAINAGE STRUCTURES

PART 1 GENERAL

1.01 SCOPE OF WORK

WORK included in this Section consists of repair or replacement of sidewalks, curbs and gutters, driveways, and storm drainage structures.

1.02 RELATED WORK

A. Section 02225 - Earthwork for Utilities

B. Section 03300 - Concrete

1.03 REFERENCES

Georgia Department of Transportation (GADOT) Standard Specifications, Construction of Roads and Bridges, Latest Edition.

PART 2 PRODUCTS

2.01 CRUSHED STONE BASE

Stone base shall be a Graded Aggregate Base conforming to Section 815 of GADOT Standard Specifications.

2.02 CONCRETE

Shall be ready-mixed concrete conforming to Class "C" (3,000 psi) as specified under Section 03300 of these Specifications.

2.03 HOT MIX ASHALT CONCRETE

Mix Type "F" conforming to Section 400 of GADOT Standard Specifications.

2.04 STORM DRAIN PIPE

In accordance with Section 550 of GADOT Standard Specifications.

2.05 TACK COAT

Cutback asphalt, grade RC-70 or RC-250, or emulsified asphalt, EAP-1, conforming to Section 412 of GADOT Standard Specifications.

PART 3 EXECUTION

3.01 GENERAL

- A. Restore all sidewalks, driveways, curbs, gutters and storm drains to or better than the original, but not less thickness or quality than specified herein or shown on the Drawings.
- B. Carefully backfill any excavated area on which sidewalks, driveways or curbs and gutters are to be placed as specified in Section 02225 of these Specifications as applicable.
- C. If, prior to the expiration of the warranty period, any sidewalk, driveway or curb and gutter which has been damaged, due to undermining, or for any other cause which may be attributed to the work of the CONTRACTOR/DEVELOPER, the CONTRACTOR/DEVELOPER shall remove such damaged work and all loose earth. He shall then backfill with crushed stone base, properly compact and replace damaged sidewalks, driveways, curbs or gutters.
- D. WORK which the DEVELOPER/CONTRACTOR may do in connection with the replacement and repair of damaged work during the period of maintenance, shall be done at his expense, in accordance with the rules and requirements of the authority within whose jurisdiction such pavement is located, and in accordance with the additional requirements of the specifications, and the DEVELOPER/CONTRACTOR shall furnish evidence to the TOWN OF BRASELTON that the work has been completed to the satisfaction of such authority.
- E. Before replacing any sidewalk, driveway, curb or gutter, remove the existing sidewalk, driveway and/or curb and gutter back from the edge of excavation at least 12 inches or to the nearest joint if the nearest joint is within two (2) feet.
- F. All cuts shall be made by channeling machine, pneumatic tools, or such other methods as will furnish a straight clean cut in the concrete without undue shattering.
- G. The DEVELOPER/CONTRACTOR shall provide crushed stone base over trenches after completion of backfill.
- H. Should settlement, cracks or other indications of failure appear in concrete, pavement, driveways, curbs, pipes or other structures, the defective material shall be removed to the extent necessary to secure firm, undisturbed bearing and shall be re-laid in a satisfactory manner.

3.02 CURBS AND GUTTERS

- A. Portland Cement Concrete curbs and gutters shall conform to Georgia D.O.T. Standard Specifications. Match existing curb. Construct 1/2" wide expansion joints with

premolded joints filler across curb at all tangent points and at fifty feet intervals and one inch wide expansion joint filler and 3/4" joint sealing between curbs and concrete paving. Finish curb surface with dense uniform texture equal to burlap drag, and cross-score with 1/4" deep cross-joints at ten-foot intervals.

- B. Concrete curbs and gutters shall be finished in accordance with Section 03300. Face forms shall be removed as soon as possible and the exposed surfaces finished with a wood float. Straight edging, done along the edge of the gutter and top of curb and median shall conform to those requirements for the adjacent pavement, but with no irregularities to exceed 1/4 inch in 10 feet.
- C. Machine methods of placing may be used, providing the end result is satisfactory.

3.03 SIDEWALKS AND DRIVEWAYS

- A. CONTRACTOR/DEVELOPER shall replace/restore all sidewalks and/or driveways disturbed during construction.
- B. Sidewalks shall conform to requirements of Georgia D.O.T. Standard Specifications. Minimum sidewalk thickness shall be 4 inches. Provide transverse contraction joints at 6' interval by cutting a groove in the fresh concrete 1" deep with a jointer having an approved radius and a cutting blade not over 1/8" thick.
- C. Construct 1/2" wide expansion joints with premolded joint filler across walks at a maximum of fifty feet intervals. Finish to a broom and burlap drag gritty surface. Tool all joints and all edges to provide smooth border between sections. Match existing sidewalks.
- D. Concrete sidewalks and driveways shall be given a finish made by stiff-bristle brooming. The surface shall be tested with a 10-foot straightedge laid parallel to the centerline. Any irregularities in excess of 1/4 inch in 10 feet shall be eliminated while the concrete is still plastic. Concrete sidewalks constructed as curb cut (wheelchair) ramps, shall have a rough or textured finish.
- E. Prepare aggregate base and install hot mix Asphaltic Concrete on driveways in conformance with Sections 310 and 400 of GADOT Standard Specifications.

3.04 RESTORING STORM DRAINAGE PIPE

- A. CONTRACTOR/DEVELOPER shall restore and replace storm drainage pipe and appurtenances when they are disturbed during construction.
- B. Storm drainage structures shall be replaced to the same horizontal and vertical locations prior to their removal or disturbance due to construction.
- C. Materials used in the replacement or restoration of storm drainage structures shall be of the same or better quality, size, type and length of that removed or disturbed during construction.

- D. Storm drainage pipe damaged due to the negligence on the part of the DEVELOPER/CONTRACTOR shall be replaced at the DEVELOPER/CONTRACTOR's expense.

3.05 CLEAN UP

- A. Before work shall be considered complete, remove material not used and rubbish from job site.
- B. Any subsequent settlement of pavement, exposed surfaces or backfill shall be repaired and the surface shall be brought to grade.
- C. Any, and all items disturbed by the construction shall, in every case, be restored to their original or better condition, prior to completion of the construction.

END OF SECTION