

SECTION LS 404

ASPHALT CONCRETE SURFACE COURSE

PART 1 – GENERAL

1.1 DESCRIPTION

- A. This work shall consist of constructing a surface course of aggregate and asphalt cement mixed in a central plant and spread and compacted on a prepared surface in accordance with these specifications and in reasonably close conformity with the lines, grades and typical sections shown on the plans or established by The City of Lakewood.
- B. This item may also be used to provide a leveling course as required to remove irregularities in the pavement and to re-establish the profile or cross-slope of the roadway.
- C. The general Asphalt Concrete Pavement specifications, LS 401, shall apply; deviations from these are as follows.

PART 2 – PRODUCTS

2.1 COMPOSITION

- A. Coarse limestone aggregate and fine limestone aggregate shall be combined in such proportions that the resulting blend shall be as directed by The City of Lakewood but within the following limits:

Sieve	Total Passing, % by Wt.
1½ inch	
1 inch	
¾ inch	
½ inch	100
3/8 inch	90 to 100
No. 4	45 to 57
No. 8	30 to 45
No. 16	17 to 35
No. 30	12 to 25
No. 50	5 to 18
No. 100	2 to 10
No. 200	
Asphalt Binder:	5.8 to 10.0 percent of total mix

Virgin Asphalt Binder (min.):	5.0%
F/A Ratio, max.:	1.2 using effective asphalt binder content
F-T Value:	+2 percentage points maximum
Blows:	50 (AASHTO T 245)
Stability, min., pounds: (N):	1200 (AASHTO T 245) (5338)
Flow, 0.25 mm:	8 to 16 (AASHTO T 245)
Design Air Voids:	3.5%, per ODOT Supplement 1036
VMA, min.:	16%, per ODOT Supplement 1037

PART 3 -- EXECUTION

3.1 CONDITIONING EXISTING SURFACE

In areas where the surface is required to be feathered to meet an adjoining surface, the existing surface shall be coated uniformly with a thin coat of asphalt cement approximately two (2) feet in width.

3.2 SPREADING AND FINISHING

- A. Where the mixture is placed as a surface course or as a leveling course for correcting irregularities in the existing pavement, the maximum compacted depth of any one (1) layer shall be two (2) inches.
- B. Traffic shall not be permitted on the compacted mixture until it has cooled sufficiently to prevent glazing as determined by The City of Lakewood.

3.3 JOINTS

- A. Transverse construction joints shall be made against a full depth face that has been formed or cut in the previously placed mixture and coated with asphalt material.
- B. Longitudinal joints that are not made hot shall be made against a vertical face that has been coated uniformly with asphalt material.

3.4 SURFACE TOLERANCES

The completed surface/leveling course will be checked with straightedges and/or rolling straightedges by The City of Lakewood. The variation of the surface/leveling course from the testing edge of the 10-foot straightedge shall not exceed 1/4 inch. Variations in excess of slope or surface tolerances shall be corrected by removal of mixture to neat lines and replacement or by surface grinding in a manner satisfactory to The City of Lakewood.

PART 4 – PAYMENT

4.1 METHOD OF MEASUREMENT

- A. The City of Lakewood will measure and pay for Asphalt Concrete Surface Course by the actual Cubic Yards installed

4.2 BASIS OF PAYMENT

- A. Payment for accepted quantities, complete in place, will be made at the contract price for:

<u>Item</u>	<u>Unit</u>	<u>Description</u>
LS 404	Cubic Yard	Asphalt Concrete Surface Course, PG _____
LS 404	Cubic Yard	Asphalt Concrete Leveling Course, PG _____

END OF SECTION LS 404