

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 aggregate and fine 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