

SECTION 32 12 16

HOT BITUMINOUS PAVING

PART 1 GENERAL

1.01 SUMMARY

A. Section Includes:

1. Hot plant mixed asphalt-aggregate for wearing and non-wearing pavement courses.
2. Bituminous tack coat.

1.02 REFERENCES

A. North Dakota Department of Transportation “Standard Specifications for Road and Bridge Construction” 2014 Edition, As Revised

1. Section 430 – Hot Mix Asphalt

1.03 SUBMITTALS

A. Submit mix design report to the Engineer for review.

1.04 QUALITY ASSURANCE

A. The Contractor shall hire an independent testing laboratory approved by the Engineer to do gradations and compaction tests.

1.05 SEQUENCING AND SCHEDULING

A. Aggregate Base Course to be completed and accepted prior to paving.

PART 2 PRODUCTS

2.01 MATERIALS

A. The bituminous material for Hot Bituminous Pavement shall be PG 58-28 asphalt cement.

B. Bituminous material shall be accepted by certification. Asphalt supplier shall supply the following:

1. Bituminous material complies with the Strategic Highway Research Program binder specification for PG58-28.

C. Bituminous material for tack coat shall be SS-1 or SS-h1.

- D. Aggregates for Hot Bituminous Pavement shall be FAA 43 conforming to the requirements of NDDOT Specification Section 430.
- E. Recycled Asphalt Pavement, 25% maximum, may be allowed for the base course and intermediate course. No recycled asphalt pavement shall be allowed for the wear course. Aggregate for the Recycled Asphalt Pavement shall be FAA 43 conforming to the requirements of NDDOT Specification Section 430.

PART 3 EXECUTION

3.01 GENERAL

- A. Hot Bituminous Pavement shall be constructed in conformance with NDDOT Specification Section 430.
- B. Lifts shall not exceed 2 inches in thickness.
- C. Prior to the placement of the final lift.
 - 1. Clean bituminous surface with a power pickup broom.
- D. Where new construction meets existing bituminous surfacing, the existing bituminous surface shall be uniformly milled or saw-cut straight and bituminous tack coat applied prior to placement of each bituminous lift.
- E. Hot Bituminous Pavement shall be placed by means of a mechanical self-powered paver.
- F. On new developments and street reconstructs, the top lift of pavement shall not be placed until the following summer.

3.02 RESRICTIONS

- A. Existing bituminous surface must be dry prior and during placement of any bituminous pavements.
- B. Pavement shall not be placed when the air temperature is 50 degrees or less, unless approved by the Engineer.

3.03 EQUIPMENT

- A. Conform to NDDOT Specification Section 430.02.

3.04 TREATMENT OF SURFACE

A. Tack Coat

1. Bituminous tack coat shall be constructed in conformance with the requirements of NDDOT Specification Section 401.03 and 401.04.
2. Bituminous Material applied at a rate not to exceed 0.05 gallons per square yard.

3.05 PAVEMENT DENSITY

- A. Compaction shall conform to NDDOT Specification Section 430.04.I.3, Ordinary Compaction.