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| STATE OF SOUTH DAKOTA | PROJECT | SHEET | TOTAL SHEETS |
| | PH 0040(214) | F1 | F5 |

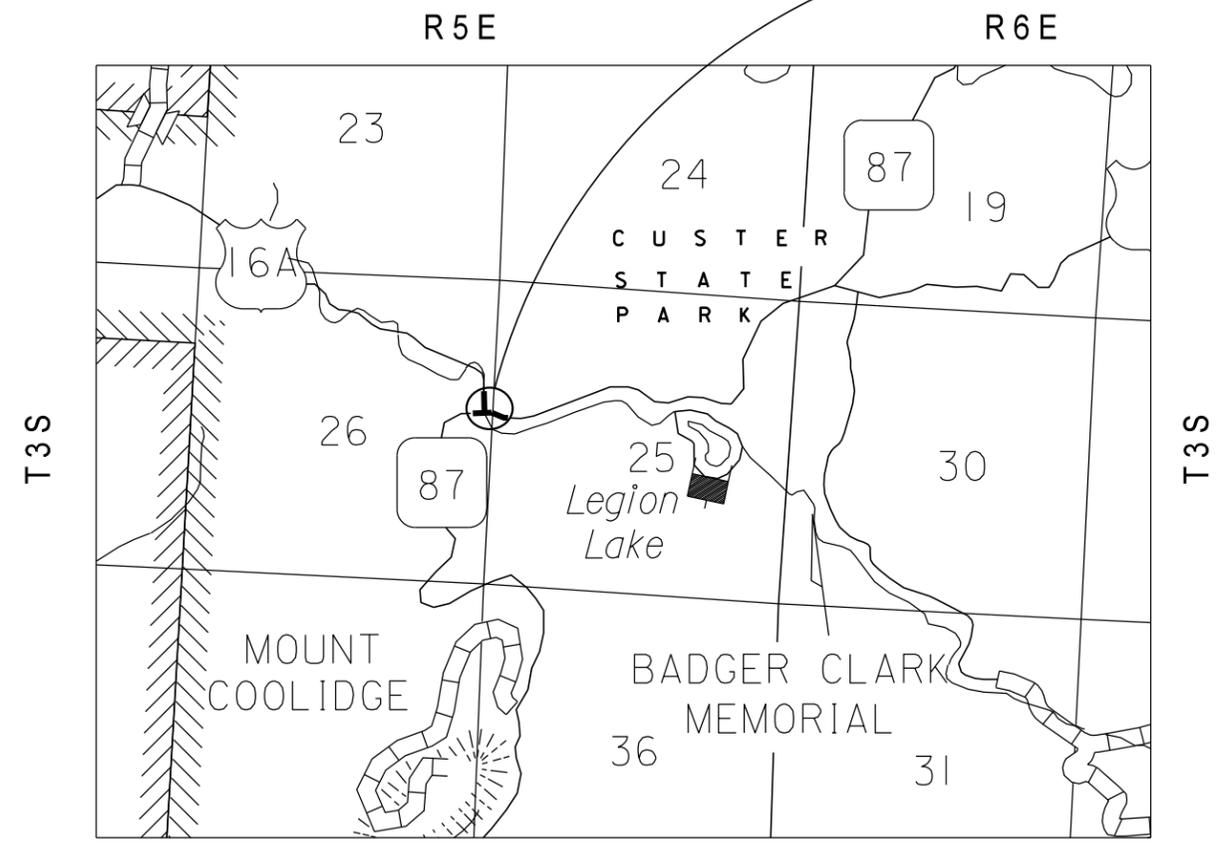
Plotting Date: 10/22/2015

Section F: Surfacing Plans

INDEX OF SHEETS

- F1: General Layout W/Index
- F2 to F3: Estimate of Quantities & Plan Notes
- F4: Typical Section
- F5: Edge of Asphalt Surfacing Detail

Project PH 0040(214)
Sta 0+50 to 9+25
MRM 29.110 to 29.244
R 6 E



Plot Scale - 1:200

Plotted From - trcs11951

PLOT NAME - ..\p1\p040\CURST\@gr\HE@G\N\T\TLEF.DGN

SECTION F ESTIMATE OF QUANTITIES

| | | | |
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| BID ITEM NUMBER | ITEM | QUANTITY | UNIT |
|-----------------|-----------------------------|----------|------|
| 009E3320 | Checker | Lump Sum | LS |
| 120E6200 | Water for Granular Material | 42.8 | MGal |
| 260E1010 | Base Course | 2,527.2 | Ton |
| 260E1030 | Base Course, Salvaged | 1,041.0 | Ton |
| 320E1200 | Asphalt Concrete Composite | 1,053.0 | Ton |

SAWING EXISTING ASPHALT CONCRETE

Where new asphalt concrete is placed adjacent to existing asphalt concrete or portland cement concrete the existing asphalt concrete or portland cement concrete shall be sawed full depth to a true line with a vertical face. Saw cutting will not be required at locations where cold milling is used to match existing surfacing elevations.

No separate payment shall be made for sawing and shall be incidental to the various asphalt concrete bid items on the project.

SURFACING THICKNESS DIMENSIONS

Plans tonnage shall be applied even though the thickness may vary from that shown in the plans. At those locations where material must be placed to achieve a required elevation, plans tonnage may be varied to achieve the required elevation.

BASE COURSE, SALVAGED

Base Course, Salvaged estimated at 1041 tons shall be obtained from the material produced and stockpiled on this project and may be used without further testing.

All other requirements for Base Course, Salvaged shall apply.

CHECKING SPREAD RATES

The Contractor shall be responsible for checking the Asphalt Concrete Surfacing and Base Course spread rates and take the weigh delivery tickets as the surfacing material arrives on the project and is placed onto the roadway.

The Contractor shall compute the required spread rates for each typical surfacing section and create a spread chart prior to the start of material delivery and placement. The Engineer will review and check the Contractor's calculations and spread charts.

The station to station spread shall be written on each ticket as the surfacing material is delivered to the roadway.

At the end of each day's shift, the Contractor shall verify the following:

- All tickets are present and accounted for.
- The quantity summary for each item is calculated,
- The amount of material wasted if any,
- Each day's ticket summary is marked with the corresponding 'computed by',
- The ticket summary is initialed and certified that the delivered and placed quantity is correct.

All daily tickets and the summary by item shall be given to the Engineer no later than the following morning.

If the checker is not properly and accurately performing the required duties, the Contractor shall correct the problem or replace the checker with an individual capable of performing the duties to the satisfaction of the Engineer. Failure to do so will result in suspension of the work.

The Department will perform depth checks. The Contractor shall be responsible for placement of material to the correct depth unless otherwise directed by the Engineer. If the placed material is not within a tolerance of $\pm 1/4$ " of the plan shown depth, the Contractor shall correct the problem at no additional cost to the Department. Excess material above the tolerance will not be paid for. Achieving the correct depth may require picking up and moving material or other action as required by the Engineer.

All costs for providing the Contractor furnished checker and performing all related duties shall be incidental to the contract lump sum price for the CHECKER. No allowances will be made to the contract lump sum price for CHECKER due to authorized quantity variations unless the quantities for the material being checked vary above or below the estimated quantities by more than 25%. Payment for the CHECKER shall then be increased or decreased by the same proportion as the placed material quantity bears to the estimated material quantity.

RATES OF MATERIALS

**US 16A
Sta. 0+50 to Sta. 9+25**

The Estimate of Quantities is based on the following quantities of materials per station.

ASPHALT CONCRETE COMPOSITE 2-2.5" LIFTS

1st – 2.5" Lift of Asphalt Concrete Composite at the rate of 18.5 ton for a 12' width.

2nd – 2.5" Lift of Asphalt Concrete Composite at the rate of 18.5 ton for a 12' width.

Base Course shall be applied at the rate of 88.9 ton for a 12' width.

Water for Granular Material at the rate of 1.1 M. Gallons for a 12' width (12 gallons per ton)

The exact proportions of these materials will be determined on construction.

**SD 87
NORTHBOUND & SOUTHBOUND**

The Estimate of Quantities is based on the following quantities of materials per station.

ASPHALT CONCRETE COMPOSITE 2-2.5" LIFTS

1st – 2.5" Lift of Asphalt Concrete Composite at the rate of 18.5 ton for a 12' width.

2nd – 2.5" Lift of Asphalt Concrete Composite at the rate of 18.5 ton for a 12' width.

Base Course shall be applied at the rate of 88.9 ton for a 12' width.

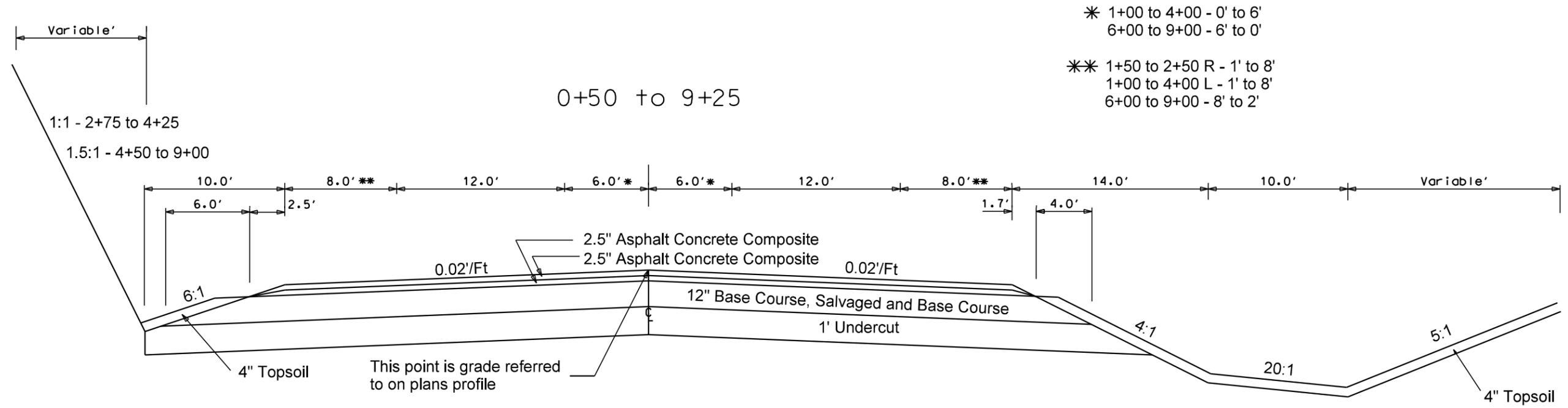
Water for Granular Material at the rate of 1.1 M. Gallons for a 12' width (12 gallons per ton)

The exact proportions of these materials will be determined on construction

TABLE OF QUANTITIES

| Route | Sta. to | Sta. | Area (SqFt) | Base Course (Ton) | Base Course, Salvaged (Ton) | Asphalt Concrete Composite (Ton) | Water for Granular Material (Mgal) |
|-------|------------|------|----------------|----------------------|-----------------------------------|---|---|
| US16A | 0+50 | 9+25 | 39527.0 | 1,886.9 | 1,041.0 | 786.2 | 35.1 |
| SD 87 | Southbound | | 4532.0 | 335.7 | | 139.9 | 4.0 |
| SD 87 | Northbound | | 4112.0 | 304.6 | | 126.9 | 3.7 |
| | | | | 2,527.2 | 1,041.0 | 1,053.0 | 42.8 |

TYPICAL GRADING AND SURFACING SECTION



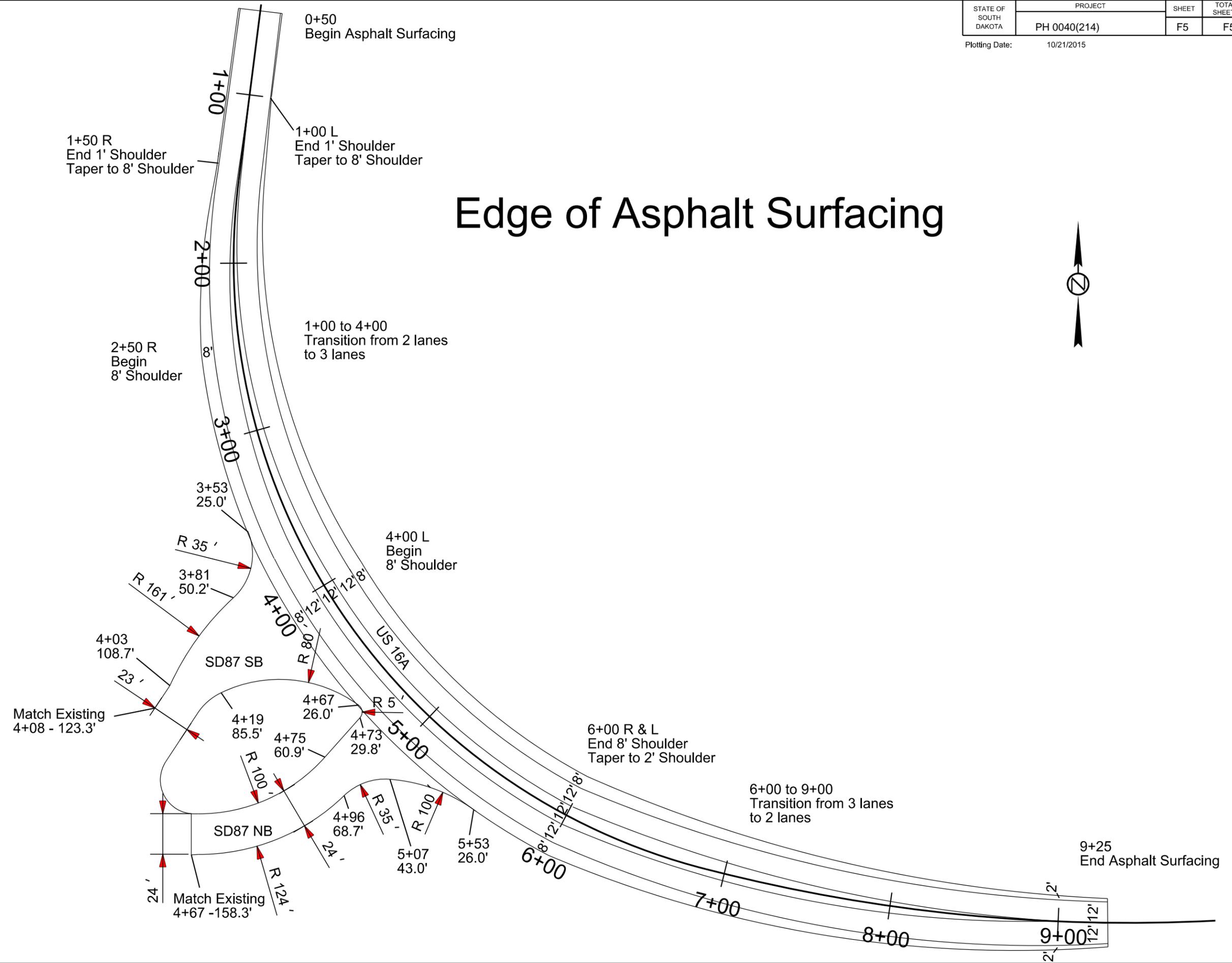
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| STATE OF SOUTH DAKOTA | PROJECT | SHEET | TOTAL SHEETS |
| | PH 0040(214) | F5 | F5 |

Plotting Date: 10/21/2015

Plot Scale - 1:55

Plotted From - trcs11951

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Edge of Asphalt Surfacing

