



# North Dakota Department of Transportation

Grant Levi, P.E.  
*Director*

Jack Dalrymple  
*Governor*

December 12, 2016

## ADDENDUM 2 – JOB 11

TO: All prospective bidders on project NH-4-083(135)182, Job No. 11 scheduled for the December 16, 2016 bid opening.

The following plan revisions shall be made:

### Plan Revisions:

**Remove and replace sheets 6-1, 8-1, 8-2, 20-1, 90-1 and 100-1 with the enclosed sheets revised 12/7/2016, 12/9/2016 or 12/12/16.**

#### Sheet 6-1:

Note 704-P01 was revised.

#### Sheet 8-1:

Item 401 0050 TACK COAT; quantity increased from 49,752 to 49,936 GAL.

Item 430 0145 RAP-SUPERPAVE FAA 45; quantity increased from 53,399 to 54,077 TON.

Item 430 6428 PG 64-28 ASPHALT CEMENT; quantity increased from 2403 to 2433 TON.

Item 704 1000 TRAFFIC CONTROL SIGNS; quantity increased from 3467 to 3677 UNIT.

Item 754 0110 FLAT SHEET FOR SIGNS – TYPE XI REFL SHEETING; 40 SF was deleted.

Item 754 0112 FLAT SHEET FOR SIGNS – TYPE IV REFL SHEETING; quantity decreased from 86 to 42 SF.

Item 754 0206 STEEL GALV POSTS-TELESCOPING PERFORATED TUBE; quantity decreased from 140 to 97 LF.

#### Sheet 8-2:

Items shifted due to deleted item on sheet 8-1.

#### Sheet 20-1:

Revised Tack, Superpave and Asphalt Cement quantities on median crossovers.

#### Sheet 90-1:

Revised breakdown of additional paving quantities on turn lanes.

#### Sheet 100-1:

Quantity of Traffic Control Signs was revised.

Request for Proposal Revisions:

**Remove and replace pages 5-7 of 9 of the Proposal pages located at the beginning of the Request for Proposal, with the enclosed pages revised 12/9/2016.**

Page 5 of 9:

- Item 401 0050 TACK COAT; quantity increased from 49,752 to 49,936 GAL.
- Item 430 0145 RAP-SUPERPAVE FAA 45; quantity increased from 53,399 to 54,077 TON.
- Item 430 6428 PG 64-28 ASPHALT CEMENT; quantity increased from 2403 to 2433 TON.
- Item 704 1000 TRAFFIC CONTROL SIGNS; quantity increased from 3467 to 3677 UNIT.

Page 6 of 9:

- Item 754 0110 FLAT SHEET FOR SIGNS – TYPE XI REFL SHEETING; 40 SF was deleted.
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Page 7 of 9:

Items shifted due to deleted item.

This addendum is to be incorporated into the bidder's proposal for this project. AASHTOWare Project Bids files should be updated by downloading the addendum file from the Bid Express on-line bidding exchange at <http://www.bidx.com/> and load it into the AASHTOWare Project Bids program.



For  
CAL J. GENDREAU – CONSTRUCTION SERVICES ENGINEER  
80:plm  
Enclosure

BID ITEMS

Project: NH-4-083(135)182 (PCN-21502)

**Bidder must type or neatly print unit prices in numerals, make extensions for each item, and total. Do not carry unit prices further than three (3) decimal places.**

Item No.	Spec No.	Code No.	Description	Unit	Approx. Quantity	Unit Price		Amount	
						\$\$\$\$\$	000	\$\$\$\$\$	00
001	103	0100	CONTRACT BOND	L SUM	1.				
002	203	0218	GUARDRAIL EMBANKMENT	EA	1.				
003	216	0100	WATER	M GAL	250.				
004	230	0125	SHOULDER PREPARATION	MILE	30.448				
005	261	0112	FIBER ROLLS 12IN	LF	760.				
006	302	0120	AGGREGATE BASE COURSE CL 5	TON	500.				
007	401	0050	TACK COAT	GAL	49,936.				
008	401	0060	PRIME COAT	GAL	210.				
009	411	0100	MILLING PAVEMENT SURFACE	TON	18,218.				
010	430	0145	RAP - SUPERPAVE FAA 45	TON	54,077.				
011	430	1000	CORED SAMPLE	EA	175.				
012	430	6428	PG 64-28 ASPHALT CEMENT	TON	2,433.				
013	702	0100	MOBILIZATION	L SUM	1.				
014	704	0100	FLAGGING	MHR	400.				
015	704	1000	TRAFFIC CONTROL SIGNS	UNIT	3,677.				
016	704	1052	TYPE III BARRICADE	EA	20.				

BID ITEMS

Project: NH-4-083(135)182 (PCN-21502)

**Bidder must type or neatly print unit prices in numerals, make extensions for each item, and total. Do not carry unit prices further than three (3) decimal places.**

Item No.	Spec No.	Code No.	Description	Unit	Approx. Quantity	Unit Price		Amount	
						\$\$\$\$\$	000	\$\$\$\$\$	00
017	704	1060	DELINEATOR DRUMS	EA	81.				
018	704	1067	TUBULAR MARKERS	EA	400.				
019	704	1087	SEQUENCING ARROW PANEL-TYPE C	EA	2.				
020	706	0550	BITUMINOUS LABORATORY	EA	1.				
021	706	0600	CONTRACTOR'S LABORATORY	EA	1.				
022	754	0112	FLAT SHEET FOR SIGNS-TYPE IV REFL SHEETING	SF	42.				
023	754	0206	STEEL GALV POSTS-TELESCOPING PERFORATED TUBE	LF	97.				
024	754	0557	INTERSTATE MILE POSTS-TYPE C	EA	1.				
025	754	0592	RESET SIGN PANEL	EA	2.				
026	760	0005	RUMBLE STRIPS - ASPHALT SHOULDER	MILE	30.448				
027	760	0010	RUMBLE STRIPS - INTERSECTION	SET	.670				
028	762	0111	EPOXY PVMT MK 12IN LINE	LF	220.				
029	762	0112	EPOXY PVMT MK MESSAGE	SF	1,088.				
030	762	0113	EPOXY PVMT MK 4IN LINE	LF	182,761.				
031	762	0115	EPOXY PVMT MK 8IN LINE	LF	7,955.				
032	762	0117	EPOXY PVMT MK 24IN LINE	LF	60.				



**NOTES**

REVISED  
12-12-16

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	NH-4-083(135)182	6	1

**411-P01 MILLED PAVEMENT SURFACE:** Deliver milled material not required for RAP production to the NDDOT Maintenance yard at 1305 Hwy. 2 Bypass E. in Minot. Stockpile milled material using a payloader. Keep payloader tires off of stockpile. Include all costs associated with this work in the contract price bid for "MILLING PAVEMENT SURFACE".

Contact Project Engineer 24 hours prior to milling to determine location in maintenance yard where millings will be delivered and stockpiled.

Do not allow traffic on 1" milled pavement surface. (RP 182.302 – 197.526 NB)

**430-P01 SUPERPAVE FAA 45:** Paver lay 1" leveling course and 2" wearing course.

**704-P01 TRAFFIC CONTROL FOR HMA OVERLAYS:** Provide traffic control consisting of a temporary lane closure and flagging.

The maximum work zone length is limited to one day's production. One day's production is defined as the length of roadway that can be paved in a single day plus the length of roadway that can be milled in a single day.

For estimating purposes, the traffic control device list is based on an 8 mile work zone and the following list:

1. Standard D-704-20, Type G. Signing will be required at junctions: ND 23, Ward Co. 20, and Ward Co. 14;
2. Standard D-704-22, Types K and L;
3. Standard D-704-26, Type CC, EE, and GG;
4. Standard D-704-34 – quantities include 60 delineator drums for approaches
5. Standard D-704-34A.

If all or portions of the lane closure are removed and uneven lanes exist, provide traffic control as specified in Section 704.04 O, "Traffic Control for Uneven Pavement".

Complete work in a manner such that lane closures can safely be removed if no work is to take place for more than 3 consecutive days. Remove lane closures if no work is to take place for more than 3 consecutive days.

The Department will pay for all necessary deployed devices, regardless of the number and length of the lane closures.

**706-P01 BITUMINOUS LABORATORY:** Supply a copy machine, with reduction capabilities, and toner for the "Bituminous Laboratory".

Include payment for these items in the price bid for "BITUMINOUS LABORATORY".

This document was originally issued and sealed by Chad E. Beggs, Registration Number PE-5436, on 12/12/16 and the original document is stored at the North Dakota Department of Transportation.

# ESTIMATE OF QUANTITIES

Revised  
12/12/16

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
<b>ND</b>	NH-4-083(135)182	<b>8</b>	<b>1</b>

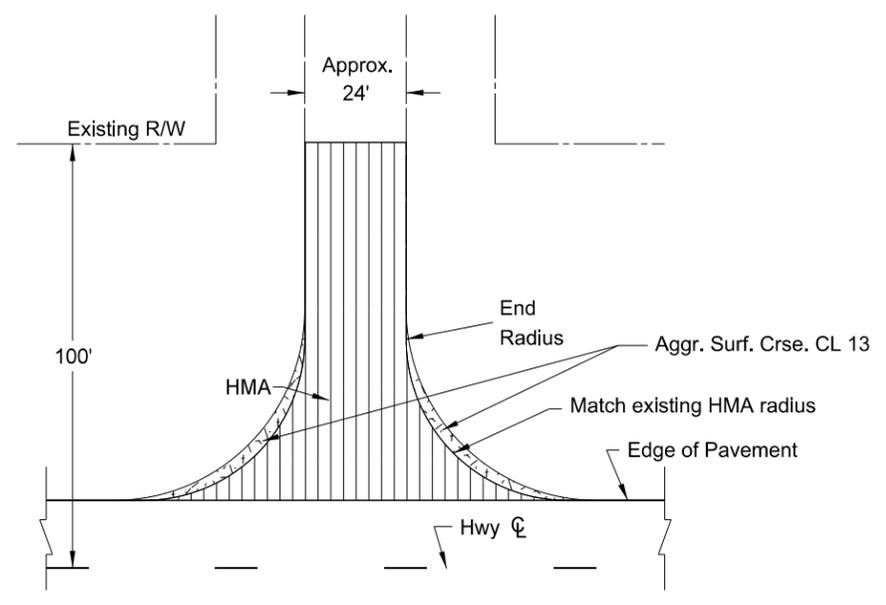
SPEC CODE	ITEM DESCRIPTION	UNIT	MAINLINE	TOTAL
-----	-----	-----	-----	-----
103	0100 CONTRACT BOND	L SUM	1	1
203	0218 GUARDRAIL EMBANKMENT	EA	1	1
216	0100 WATER	M GAL	250	250
230	0125 SHOULDER PREPARATION	MILE	30.448	30.448
261	0112 FIBER ROLLS 12IN	LF	760	760
302	0120 AGGREGATE BASE COURSE CL 5	TON	500	500
401	0050 TACK COAT	GAL	49,936	49,936
401	0060 PRIME COAT	GAL	210	210
411	0100 MILLING PAVEMENT SURFACE	TON	18,218	18,218
430	0145 RAP - SUPERPAVE FAA 45	TON	54,077	54,077
430	1000 CORED SAMPLE	EA	175	175
430	6428 PG 64-28 ASPHALT CEMENT	TON	2,433	2,433
702	0100 MOBILIZATION	L SUM	1	1
704	0100 FLAGGING	MHR	400	400
704	1000 TRAFFIC CONTROL SIGNS	UNIT	3,677	3,677
704	1052 TYPE III BARRICADE	EA	20	20
704	1060 DELINEATOR DRUMS	EA	81	81
704	1067 TUBULAR MARKERS	EA	400	400
704	1087 SEQUENCING ARROW PANEL-TYPE C	EA	2	2
706	0550 BITUMINOUS LABORATORY	EA	1	1
706	0600 CONTRACTOR'S LABORATORY	EA	1	1
754	0112 FLAT SHEET FOR SIGNS-TYPE IV REFL SHEETING	SF	42	42
754	0206 STEEL GALV POSTS-TELESCOPING PERFORATED TUBE	LF	97	97
754	0557 INTERSTATE MILE POSTS-TYPE C	EA	1	1
754	0592 RESET SIGN PANEL	EA	2	2
760	0005 RUMBLE STRIPS - ASPHALT SHOULDER	MILE	30.448	30.448
760	0010 RUMBLE STRIPS - INTERSECTION	SET	0.67	0.67
762	0111 EPOXY PVMT MK 12IN LINE	LF	220	220
762	0112 EPOXY PVMT MK MESSAGE	SF	1,088	1,088
762	0113 EPOXY PVMT MK 4IN LINE	LF	182,761	182,761
762	0115 EPOXY PVMT MK 8IN LINE	LF	7,955	7,955
762	0117 EPOXY PVMT MK 24IN LINE	LF	60	60
762	0430 SHORT TERM 4IN LINE-TYPE NR	LF	20,096	20,096

# ESTIMATE OF QUANTITIES

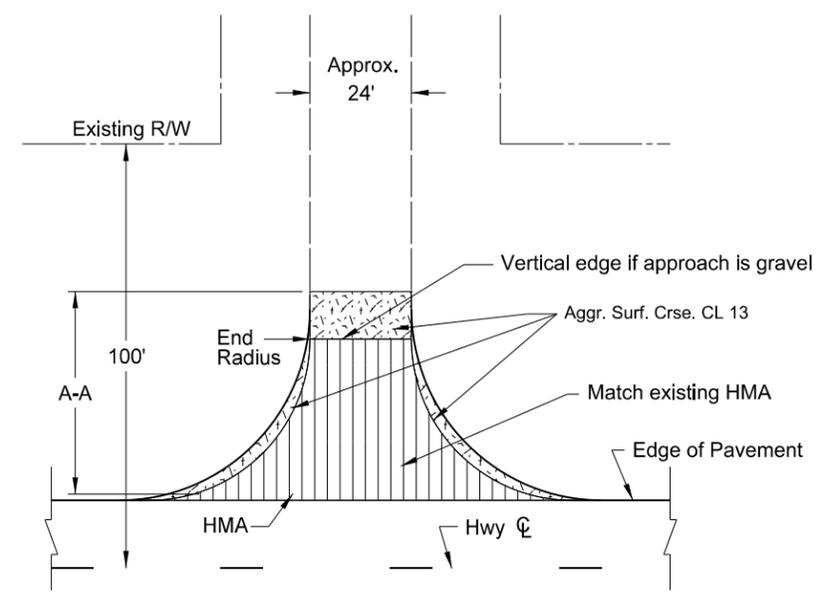
Revised  
12/12/16

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
<b>ND</b>	NH-4-083(135)182	<b>8</b>	<b>2</b>

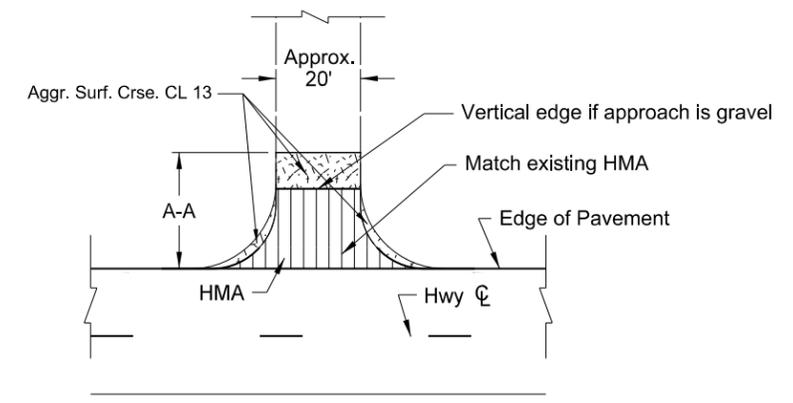
SPEC CODE	ITEM DESCRIPTION	UNIT	MAINLINE	TOTAL
-----	-----	-----	-----	-----
764 0131	W-BEAM GUARDRAIL	LF	1,077	1,077
764 0145	W-BEAM GUARDRAIL END TERMINAL	EA	1	1
764 0151	REMOVE W-BEAM GUARDRAIL & POSTS	LF	963	963
764 1050	RESET W-BEAM GUARDRAIL	LF	213	213
764 2081	REMOVE END TREATMENT & TRANSITION	EA	1	1



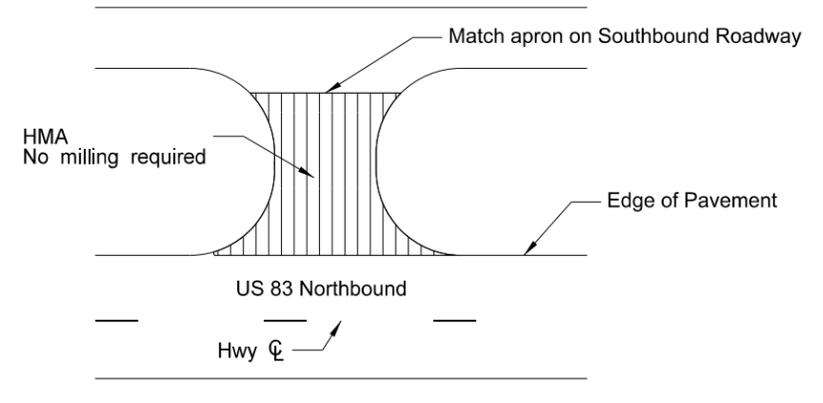
(1) Paved Section Line, County Road, or Street Approach



(2) Gravel Section Line, County Road, or Street Approach



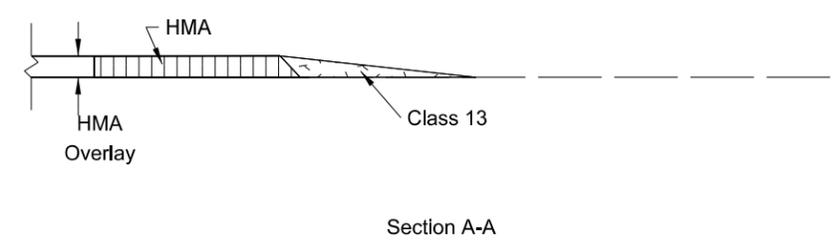
(3) Private Drives and Field Approaches



(4) Median Cross-overs

Notes:

1. A longer HMA wedge may be needed if an existing elevation difference between the mainline and the approach exists. Actual HMA paving and salvaged base locations may vary in the field for situations, as approved by the Engineer.
2. Quantity totals have been included in the bid items of the "Estimate of Quantities" of the plans.

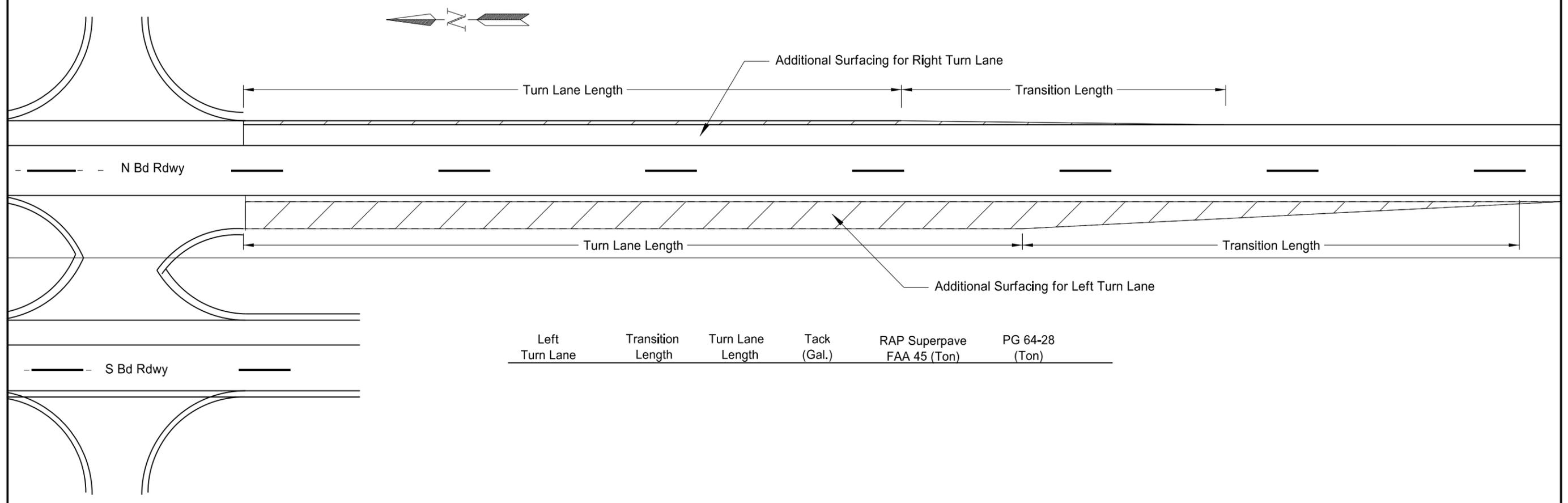


Section A-A

BASIS OF ESTIMATE	UNIT	(1)	(2)	(3)	(4)	TOTALS
		Paved Section Line	Gravel Section Line	Private Drives and Field Approaches	Median Cross-overs	
Number of Locations	EACH	3	25	20	46	94
Aggr. Surf. Cl. 5	TON	2 Ton ea. 6	2 Ton ea. 50	2 Ton ea. 40	2 Ton ea. 92	188
Tack Coat	GAL	17 Gal. ea. 51	9 Gal. ea. 225	1 Gal. ea. 20	6 Gal. ea. 276	572
Superpave FAA 45	TON	38 Ton ea. 114	20 Ton ea. 500	6 Ton ea. 120	15 Ton ea. 690	1424
PG 64-28 @ 4.5%	TON	5	23	5	31	64

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Approach Paving Details for Preventive Maintenance or Minor Rehabilitation Projects



Left Turn Lane	Transition Length	Turn Lane Length	Tack (Gal.)	RAP Superpave FAA 45 (Ton)	PG 64-28 (Ton)
TOTALS			247	528	23.8

Right Turn Lane	Transition Length	Turn Lane Length	Tack (Gal.)	RAP Superpave FAA 45 (Ton)	PG 64-28 (Ton)
182.618	125	590	15	29	1.3
185.725	135	300	8	16	0.7
187.751	125	240	7	13	0.6
188.737	65	360	9	17	0.8
189.766	50	240	6	12	0.5
190.244	125	275	8	15	0.7
190.765	125	170	5	10	0.5
191.767	110	200	6	11	0.5
193.755	55	315	8	15	0.7
195.238	115	180	5	11	0.5
195.689	100	640	15	31	1.4
196.782	50	210	5	10	0.5
196.957	50	175	4	9	0.4
197.343	50	190	5	10	0.4
TOTALS			106	209	9.5

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Turn Lane Paving Layout

