



October 18, 2019

To: Prospective Bidders
Subject: Addendum One: Answers to Questions and Clarifications
Project: ST-302 Street Repairs and Repaving

This addendum is to answer additional questions, clarify information provided in the Pre-Bid Meeting, replace the Bid Sheet, provide a new street list, and include a Speed Hump Detail.

The following Attachments are included in this Addendum:

Attachment A - New Bid Sheet

Attachment B – Revised Street List

Attachment C – Speed Hump Specifications

Question: Where is B Mix and C Mix being placed?

Answer: Asphalt 9.5B will be used in neighborhoods and 9.5C will be used on thoroughfares.

Question: Are manhole risers accepted?

Answer: Yes. The City of Durham Standards allow a maximum of 18” between the rim and top of the manhole.

Question: Will milling include concrete?

Answer: No. If a road has a concrete subbase the City will not want the concrete to be milled.

Question: Some of the roads selected have low hanging trees. Will the contractor be responsible for dealing with low hanging limbs or tree roots in the road?

Answer: No. The City of Durham will evaluate all of the trees and make arrangements to mitigate the problems.

Question: Is it the contractor's responsibility to handle on street parking?

Answer: Yes. It is the contractor's responsibility to contact residents to notify them of the schedule and to not park on the street. If a vehicle is parked on the street the contractor can tow the vehicle out of the work zone and submit the bill to the City for reimbursement.

Question: Are manhole risers accepted?

Answer: Yes. The City of Durham Standards allow a maximum of 18” between the rim and top of the manhole.

Question: What is the timeline for paving back the road after milling?

Answer: The road will need to be repaved within 72 hours after milling.

Question: Are manhole risers accepted?

Answer: Yes. The City of Durham Standards allow a maximum of 18” between the rim and top of the manhole.

Question: Can patching be done before milling?

Answer: No.

Question: Are all manholes and valves to be paid as adjustments or just when they do not match the evaluation of the road?

Answer: The City will pay one adjustment for every manhole and valve.

Thank you for your interest in this project.

Sincerely,



Clint A. Blackburn, PE

Senior Engineer

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Attachment A

ST-302: Street Repairs and Repaving 2020					
Item No.	Item Name	Units	Quantity	Unit Price	Cost
1	Asphalt Binder for Plant Mix - Grade PG64-22	TON	1,890		
2	Asphalt Surface Course - Type S9.5B	TON	10,922		
3	Asphalt Surface Course - Type S9.5C	TON	7,635		
4	Asphalt Intermediate Course - Type I19.0B	TON	6,814		
5	Manhole Frame and Cover Replacement	EA	70		
6	Manhole Adjustments	EA	225		
7	Removal of Pavement Structure- 0 to 1.5"	SY	6,500		
8	Removal of Pavement Structure - >1.5" to 3"	SY	101,355		
9	Removal of Pavement Structure - >3" to 6"	SY	48,000		
10	Asphalt Patching using B25.0C (Asphalt Removal is Insidental)	TON	8,289		
11	Stabilize Base (Rolling Subgrade)	SY	4,000		
12	Seeding & Mulching	SY	4,000		
13	Valve and Meter Box Adjustments	EA	300		
14	Valve and Meter Box Frame and Cover Replacement	EA	50		
15	Thermo Pvmt Marking Yellow Double Center (4", 120 mils)	LF	5,600		
16	Thermo Pvmt Marking Lines (4", 90 mils)	LF	2,000		
17	Thermo Pvmt Marking Lines (4", 120 mils)	LF	20,000		
18	Thermo Pvmt Marking Lines (8", 90 mils)	LF	2,000		
19	Thermo Pvmt Marking Lines (8", 120 mils)	LF	3,490		
20	Thermo Pvmt Marking Lines (24", 120 mils)	LF	825		
21	Thermoplastic Pavement Marking Characters	EA	5		
22	Thermoplastic Pavement "ONLY"	EA	5		
23	Thermoplastic Turn Arrow	EA	30		
24	Thermoplastic Through Arrow	EA	23		
25	Thermoplastic Combo Right/Straight Arrow	EA	12		
26	Thermoplastic Bicycle Symbol	EA	5		
27	Thermoplastic Bicycle Straight Arrow	EA	5		
28	Thermoplastic Sharrow	EA	5		
29	Speed Humps	EA	10		
30	Inductive Loop Sawcut	LF	5,500		
31	Variable Message Boards	EA	25		
32	Traffic Control	LS	1		
33	Mobilization	LS	1		
TOTAL BID AMOUNT					

Attachment B

Thoroughfares	Carpenter Fletcher Rd	Bluestone Rd	Sandstone Dr	3" Mill / 3" of S9.5C with 20% Patching
		Sandstone Dr	Kemmont Dr	
		Kemmont Dr	Wedgewood Ln	
		Wedgewood Ln	Bluestone Rd	
		Bluestone Rd	Woodcroft	
	Main Street	Elizabeth St	Angier Av	4" mill / 2.5" of I19.0C and 1.5" of S9.5C with 20% Patching
		Angier Av	Morning Glory Av	
		Morning Glory Av	Elm	
		S Elm St	N Elm St	
		N Elm St	Stokes St	
		Stokes St	N Alston Av	
		N Alston Av	S Holman St	
		S Holman St	N Blacknall St	
		N Blacknall St	S Goley St	
		N Guthrie Av	N Briggs Av	
		N Driver St	N Guthrie Av	
		Roberson St	N Driver St	
		Cherry Grove St	Roberson St	
		S Goley St	Young Av	
		N Maple St	Cherry Grove St	
		N Hyde Park Ave	N Maple St	
		N Plum St	N Hyde Park Ave	
		Young Av	N Plum St	
		S Goley St	Young Av	
		Young Av	Plum St	
	Plum St	Hyde Park Av		
	Hyde Park Av	Maple St		
	Hermine St	Rowemont Dr	Chandellay Dr	1.5" Mill / 1.5" of S9.5B with 10% Patching
Kirkwood Dr		Rowemont Dr		
Kirkwood Dr	Heermine St	Guess Rd	3" Mill / 3" of S9.5B with 20% Patching	
	Preston Ave	Hermine St		
	Britt St	Preston Ave		
	Stadium Dr	Britt St		
Kenmore Rd	Stadium Dr	Duke Homstead	3" Mill / 3" of S9.5B with 20% Patching	

Thoroughfares	Britt St	Rowemont Dr	End	3.5" Mill (Stabilize Base) / 2.5" I19.0C and 1" S9.5B
		Kirkwood Dr	Rowemont Dr	
	Murray Avenue	LEDNUM ST	BROAD ST	3.5" Mill (Stabilize Base) / 2.5" I19.0C and 1" S9.5B
		WILBON ST	LEDNUM ST	
		N DUKE ST	WILBON ST	4" Mill / 2" of S9.5C with 15% Patching
GLENDAL AV HERRING BV		N DUKE ST GLENDAL AV		
ELGIN ST SHENANDOAH AV E MURRAY AV W MURRAY AV	HERRING BV ELGIN ST SHENANDOAH AV N ROXBORO ST	4" mill / 2.5" of I19.0C and 1.5" of S9.5C with 20% Patching		
Carpenter Fletcher	Reams Run Rd	REAMS RUN RD	MIDDLETON RD	3" Mill / 3" of S9.5B with 20% Patching
		MIDDLETON RD	REAMS RUN RD	
	Kemmont Rd	End	Middleton Rd	
		MIDDLETON RD	HIGHGROVE LN	
		Highgrove Ln	PENRITH DR	
	Middleton Rd	KEMMONT RD	PROVIDENCE RIDGE LN	
		SILKWOOD DR	REAMS RUN RD	
		PROVIDENCE RIDGE LN	SILKWOOD DR	
		REAMS RUN RD	RAVENSWOOD PL	
		RAVENSWOOD PL	CHARING PL	
	Silkwood Dr	CHARING PL	PENRITH DR	
		End	Middleton Rd	
	Highgrove Ln	Middleton Rd	End	
		Kemmont Rd	End	
	Ravenswood Pl	Middleton Rd	End	
	Charing Pl	Middleton Rd	End	
	Sedgewood Ct	End	Lacy Rd	
Lacy Rd	SEDGEWOOD CT	BRITNEY CT		
Welkin Ct	End	Penrith Dr		
	Penrith Dr	End		

Carpenter Fletcher	Penrith Dr	WELKIN CT	MIDDLETON RD
		LAKE ELTON RD	WELKIN CT
		MIDDLETON RD	CHRISTIE LN
		CHRISTIE LN	KEMMONT DR
	Bluestone Rd	NUTMEG CT	CARPENTER FLETCHER RD
		KEMMONT DR	NUTMEG CT
	Kemmont Dr	PENRITH DR	BLUESTONE RD
		BLUESTONE RD	CARPENTER FLETCHER RD
	Loyal Pl	End	Lake Elton Rd
	Christie Ln	PENRITH DR	LORELEI CT
		Lorelei Ct	End
	Lorelei Ct	Christie Ln	End
	Wedgewood Ln	SHANNAS WY	HENNER PL
Carpenter Fletcher Rd		Shannas Way	
Shannas Way	Wedgewood Ln	End	
Sugar Tree Pl	Ranbir Dr	Ranbir Dr	
Garrett Farms	Cambridge Rd	BRANCHWOOD DR	HULON DR
	Corning Ct	RICELAND DR	CUL DE SAC
	Cottonwood Dr	PEACHWAY DR	DEAD END
		TAULTON CT	PEACHWAY DR
		N POSTON CT	HULON DR
		HULON DR	PEACHWAY CT
		PEACHWAY CT	TAULTON CT
	Hayward Dr	SPRINGSTOP LN	HULON DR
	Hulon Dr	CAMBRIDGE RD	COTTONWOOD DR
		COTTONWOOD DR	SCYTHE CT
		SCYTHE CT	SPRINGSTOP LN
		SPRINGSTOP LN	INDIGO DR
		HAYWARD DR	RICELAND DR
		INDIGO DR	HAYWARD DR
		RICELAND DR	CUL DE SAC
Beginning of Phase		End of Phase	
Indigo Dr	HULON DR	KLEIN DR	

3" Mill / 3" of S9.5B with 20% Patching

Garrett Farms	Klein Dr	DEAD END	INDIGO DR	3" Mill / 3" of S9.5B with 20% Patching
		INDIGO DR	RICELAND DR	
		RICELAND DR	CUL DE SAC	
	N Poston Ct	COTTONWOOD DR	CUL DE SAC	
	Peachway Ct	CUL DE SAC	COTTONWOOD DR	
		PEACHWAY CT	SPRINGSTOP LN	
		SPRINGSTOP LN	STREAMLEY CT	
		STREAMLEY CT	COTTONWOOD DR	
	Riceland Dr	HULON DR	CORNING CT	
		CORNING CT	KLEIN DR	
		KLEIN DR	CUL DE SAC	
	S Poston Ct	COTTONWOOD DR	CUL DE SAC	
	Scythe Ct	HULON DR	CUL DE SAC	
	Springstop Ln	HULON DR	HAYWARD DR	
HAYWARD DR		PEACHWAY DR		
Streamley Ct	PEACHWAY DR	CUL DE SAC		
Taulton Ct	Cottonwood Dr	End		
Crossland Drive	NC 54 Service Rd	Celeste Cr	4" Mill / 2.5" of I19.0C and 1.5" of S9.5B	

SECTION 32 15 00

BLOCK BORDER SPEED HUMP

1.1 SUMMARY

- A. Section Includes:
 - 1. Installing Block Border Speed Humps
- B. Related Sections:
 - 1. Section 01 20 00 – Price and Payment Procedures.
 - 2. Section 01 30 00 – Administrative Requirements.
 - 3. Section 01 33 00 – Submittal Procedures.
 - 4. Section 01 40 00 – Quality Requirements.
 - 5. Section 01 50 00 – Temporary Facilities and Controls.
 - 6. Section 01 60 00 – Product Requirements.
 - 7. Section 01 70 00 – Execution and Closeout Requirements.

1.2 UNIT PRICE – MEASUREMENT AND PAYMENT

- A. Block Border Speed Hump
 - 1. Basis of Measurement: Per Linear Foot.
 - 2. Basis of Payment: Includes removal of existing speed hump, milling, furnishing and placing all new materials required for installation of new speed hump and any incidentals required to complete the work.

1.3 INSTALLING BLOCK BORDER SPEED HUMPS

- A. The Contractor shall schedule notification and milling operations in accordance with the specifications. Immediately prior to construction of the speed hump, the contractor shall thoroughly clean the designated locations of all dirt, loose stone and other debris. The designated locations shall be tacked, in accordance with NCDOT Specifications. Special care shall be taken to avoid spraying the bituminous tack coat on adjacent curbs, driveways and miscellaneous structures. Contractor will be responsible for all clean-up should such over spray occur.
- B. Masonry blocks shall be set in a straight line and extend from side taper edge to side taper edge. Masonry block shall be saw cut to fit, and secured to prevent movement during paving. Masonry block shall be NCDOT approved 4" x 8" x 16" solid masonry block and have a nominal height of 3⁵/₈" and have a minimum strength of 3000 psi. Contractor shall place asphalt to the lines and grades specified for the speed hump. The placing and rolling operation shall be such that the masonry blocks are not displaced, the required compaction is achieved, and the final profile and thickness is within the tolerance of the grade indicated. The tolerance is 1/2" off centerline and 1" overall.
- C. The Contractor shall immediately measure the speed hump to assure compliance with the established tolerances. A copy of the measurements shall be provided to the Inspector at the end of each day. The measurements shall be taken along three axes; the street centerline and the centerline of the two travel lanes. Two measurements shall be taken

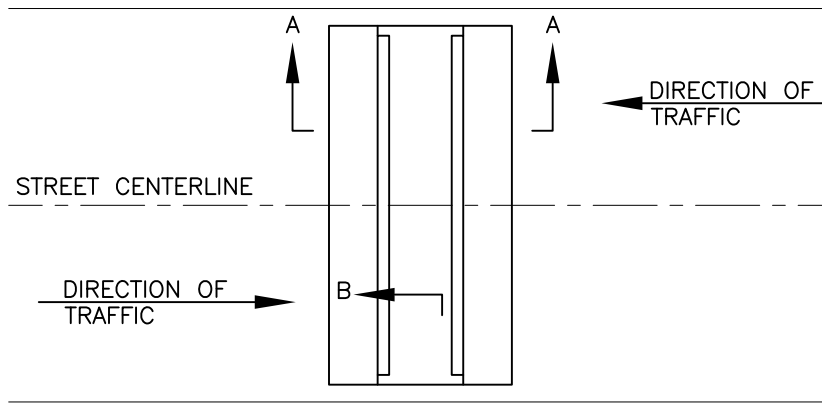
Attachment C
CONTRACT: ST-302
STREET REPAIRS AND REPAVING 2020

ENGINEERING SERVICES DIVISION
DEPARTMENT OF PUBLIC WORKS
CITY OF DURHAM, NORTH CAROLINA

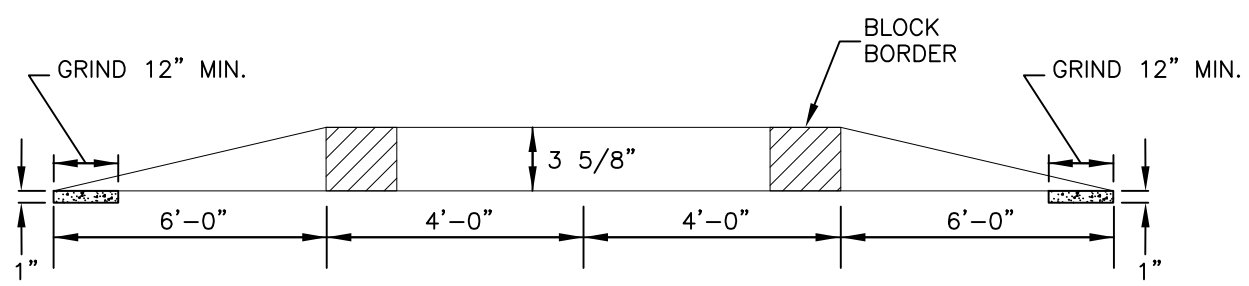
along each axis; at the 1/3 and 2/3 positions. Any speed hump whose finished grade exceeds the allowable tolerance will be immediately removed and replaced by the Contractor, at no additional cost to the City. The Contractor shall schedule the work such that an installation at a particular location is completed by the end of the day on which it is started.

END OF SECTION

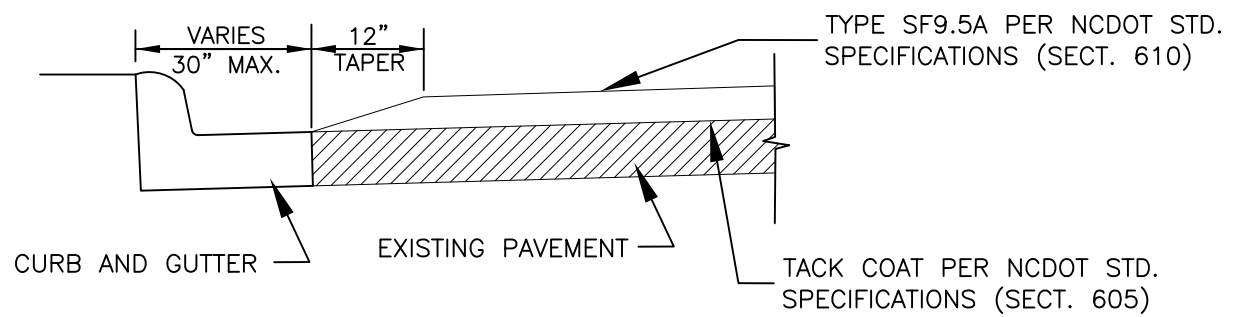
SPEED HUMP



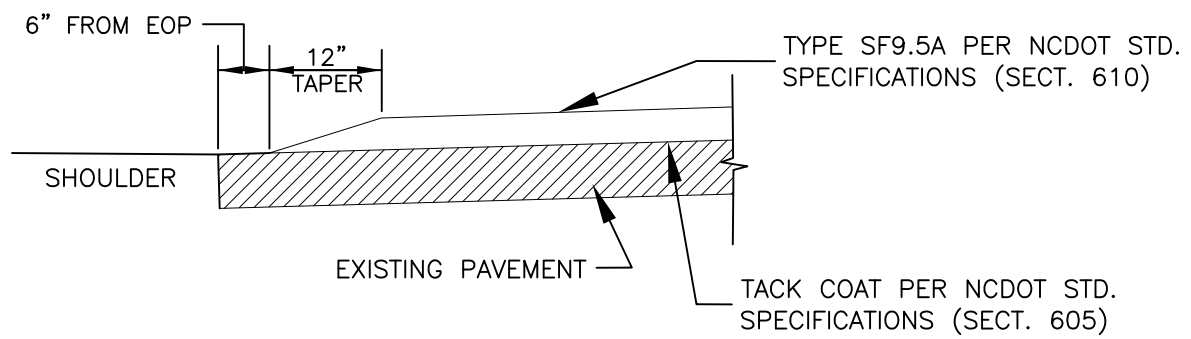
PLAN VIEW



SECTION A-A



SECTION B-B (WITH CURB)



SECTION B-B (WITHOUT CURB)



REVISION DATE: 2/21/2014	SPEED HUMP	SCALE: NONE
REVISED BY: C. BLACKBURN		CITY OF DURHAM, NORTH CAROLINA DEPARTMENT OF PUBLIC WORKS