# CITY AND COUNTY OF DENVER STATE OF COLORADO



### **DEPARTMENT OF PUBLIC WORKS**

**Contract Documents** 

Contract Number: 201844724

. . . . . . . . . . . . . . . . . . . .

**South Bond Paving** 

November 5, 2018



#### NOTICE OF APPARENT LOW BIDDER

Martin Marietta Materials, Inc. 1627 Cole Boulevard Suite 200 Lakewood, Colorado 80401

The EXECUTIVE DIRECTOR OF PUBLIC WORKS has considered the Bids submitted on **December 6**, **2018**, for work to be done and materials to be furnished in and for:

#### CONTRACT NO: 201844724 SOUTH BOND PAVING

as set forth in detail in the Contract Documents for the City and County of Denver, Colorado. It appears that your Bid is fair, equitable, and to the best interest of the City and County; therefore, said Bid is hereby accepted at the bid price contained herein, subject to the approval and execution of the Contract Documents by the City in accordance with the Charter of the City and County of Denver, and to your furnishing the items specified below. The award is based on the total bid items: (202-00240 through 626-01103: Twenty-Four (24) total bid items, the total estimated cost thereof being: Four Million Six Hundred Twenty-Six Thousand Four Hundred Eighty-Four Dollars and Eighty Cents (\$4,626,484.80).

It will be necessary for you to appear forthwith at the office of the Department of Public Works, Contract Administration, 201 W. Colfax Ave., Dept 614, Denver, Colorado 80202, to receive the said Contract Documents, execute the same and return them to the Department of Public Works, Contract Administration within the time limit set forth in the Bid Package Documents.

In accordance with the requirements set forth in the Contract Documents, you are required to furnish the following documents:

- a. Insurance Certificates: General Liability and Automotive Liability, Workman's Compensation and Employer Liability;
- b. Payment and Performance Bond along with One original Power of Attorney relative to Performance and/or Payment Bond; and,

All construction Contracts made and entered into by the City and County of Denver are subject to Affirmative Action and Equal Opportunity Rules and Regulations, as adopted by the Manager of Public Works, and each contract requiring payment by the City of one-half million dollars (\$500,000.00) or more shall first be approved by the City Council acting by ordinance and in accordance with Section 3.2.6 of the Charter of the City and County of Denver.

Prior to issuance of Notice to Proceed, all Equal Opportunity requirements must be completed. Additional information may be obtained by contacting the Director of Contract Compliance at (720-913-1700).



cc:

NOTICE OF APPARENT LOW BIDDER CONTRACT NO. 201844724 Page 2

The Bid Security submitted with your Bid, will be returned upon execution of the Contract and furnishing of the Performance Bond. In the event you should fail to execute the Contract and to furnish the performance Bond within the time limit specified, said Bid Security will be retained by the City and County of Denver as liquidated damages, and not as a penalty for the delay and extra work caused thereby.

Dated at Denver, Colorado this 13 th day of December 2018.

CITY AND COUNTY OF DENVER

Eulois Cleckle

**Executive Director of Public Works** 

Kristen Moore (CAO), Treasury (taxauditadmin@denvergov.org), DSBO Inbox (dsbo@denvergov.org), Cindy Ackerman, Norm Shaw, Prevailing Wage(prevailingwage@denvergov.org), Veronica Totten, File.

# CITY AND COUNTY OF DENVER STATE OF COLORADO



### **DEPARTMENT OF PUBLIC WORKS**

**Bid Form Package** 

Contract Number: 201844724

**South Bond Paving** 

November 5, 2018

# CITY AND COUNTY OF DENVER DEPARTMENT OF PUBLIC WORKS

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This Checklist is provided solely for the assistance of the bidders, and need <u>not</u> be returned by Bidders with your BID FORM PACKAGE.

### **BIDDER'S CHECKLIST**

These forms comprise the Bid Form and Submittal Package. Designated forms must be completed and turned in at the time of Bid Opening. Bidders should refer to the Contract Documents, particularly the Instructions to Bidders, accompanying this package, in completing these forms.

FORM/ PAGE NO.	COMMENTS	COMPLETE
BF-4 – BF-5	Legal name, address, Acknowledgment signature and attestation (if required.)	
BF-6+	a.) Fill in individual bid item dollars and totals in Numerical figures only	
	b.) Complete all blanks	
	c.) Legal name required	
BF-7	a.) Write out bid total or bid totals in words and figures in the blank form space(s) provided	
	b.) Calculate Textura® Construction Payment Management System Fee from chart on pg. BF-3 and write % and fee in the space provided	
BF-8	a.) List all subcontractors who are performing work on this project	
BF-9 – BF-10	a.) Fully complete List of Proposed Minority /Woman Business Enterprise Bidders, Subcontractors, Suppliers, Manufacturers, or Brokers – check appropriate boxes.	
BF-11	<ul><li>a.) Complete all blanks</li><li>b.) If Addenda have been issued, complete bottom section.</li></ul>	0
BF-12	a.) Complete appropriate sections - signature(s) required.	
dustante - 9 3	b.) If corporation, then corporate seal required.	
BF-13	a.) Fully complete Commitment to Participation	
BF-16	a.) If applicable, fully complete Joint Venture Affidavit (Submit 10 days prior to Bid Opening date)	
BF-17 – BF-19	a.) If applicable, fully complete Joint Venture Eligibility Form (Submit 10 days prior to Bid Opening date)	
BF-20	a.) Fill in all Bid Bond blanks	
	b.) Signatures required	Ö
	c.) Corporate Seal if required	ñ
	d.) Dated	
	e.) Attach Surety Agents Power of Attorney	
	or	
	Certified or cashier's check made out to the Manager of Revenue	
	referencing Bidder's Company and Contract Number.	
BF-21- BF-24	a.) Each bidder, as a condition of responsiveness to this solicitation, shall complete and return the "Diversity and	
	Inclusiveness in City Solicitations Information Request Form" with their Bid.	

Textura ® Construction Payment Management System ("Textura")

Bidder recognizes and agrees that it shall be required to use the Textura® Construction Payment Management System ("Textura") for this Project to request payment from the City and to pay subcontractors. All certified subcontractors or suppliers who are listed for participation towards any assigned program goal must be paid via Textura. All fees associated with Textura are to be paid by the bidder for billings for work performed. Bidders are required, when preparing a bid, to enter the price of Textura on the line provided for the service. The fee is all inclusive of all subcontractor, project and subscription fees associated with Textura. The bidder will calculate the fee based on a percentage of their total bid, and then include it on the line item provided in the bid form labeled "Textura® Construction Payment Management System Fee". This expense becomes part of the contract and billable to the City. All costs including, but not limited to, costs associated with training, entering data, and/or utilizing Textura other than the Textura Construction Payment Management System Fee are overhead and shall not be reimbursed by the City. Bidder will be responsible for any tax on the Textura fee. As with other taxes, the City will not reimburse bidder for this cost and therefore this cost should be included in bidder's bid. Textura will invoice the awarded bidder directly.

Project Value	Project Fee (GC + Sub Usage)
\$250,000 - \$499,999.99	\$1,625
\$500,000 - \$999,999.99	\$3,250
\$1,000,000 - \$2,999,999.99	\$5,850
\$3,000,000 - \$4,999,999.99	\$9,100
\$5,000,000 - \$9,999,999.99	\$12,220
\$10,000,000 - \$19,999,999.99	\$20,345
\$20,000,000 - \$49,999,999.99	\$32,500
\$50,000,000 - \$99,999,999.99	\$48,750
\$100,000,000 - \$199,999,999.99	\$69,095
\$200,000,000 - \$299,999,999.99	\$85,345
\$300,000,000 - \$399,999,999	\$109,720
\$400,000,000 - \$499,999,999.99	\$142,220
\$500,000,000 - \$999,999,999.99	\$162,500
\$1,000,000,000 - \$1,999,999,999	\$345,345
\$2,000,000,000 - \$4,999,999,999.99	\$650,000
\$5,000,000,000 - \$9,999,999,99	\$1,015,625
\$10,000,000,000 or greater	\$1,503,125

For more information:

http://www.denvergov.org/content/denvergov/en/contract-administration/bidding-process.html

## CITY AND COUNTY OF DENVER DEPARTMENT OF PUBLIC WORKS

### BID FORM AND SUBMITTAL PACKAGE ACKNOWLEDGMENT

#### **CONTRACT NO. 201844724**

#### SOUTH BOND PAVING

BIDDER:	Martin Marietta Materials, Inc. (Legal Name per Colorado Secretary of State)	
ADDRESS:	1627 Cole Boulevard, Suite 200	
	Lakewood, CO 80401	-

The undersigned bidder states that the undersigned bidder has received and had an opportunity to fully and thoroughly examine a complete set of the Contract Documents for Contract No. 201844724, SOUTH BOND PAVING, made available to the undersigned bidder pursuant to Notice of Invitation for Bids dated November 5, 2018.

The undersigned bidder acknowledges that a complete and final set of the Contract Documents for the referenced Project, the components of which are identified below, are bound and maintained as the record set of Contract Documents by the Contract Administration Division of the Department of Public Works and that this Record Set is available for examination by the undersigned bidder.

The undersigned bidder, having thoroughly examined each of the components identified below and contained in Contract Documents, HEREBY SUBMITS THIS BID FORM AND SUBMITTAL PACKAGE, fully understanding that the Contract Documents, as defined in Paragraph 1 of the contract, including this executed Bid Form and Submittal Package, constitute all of the terms, conditions and requirements upon which this submission is based and further understanding that, by submission of this Bid Form and Submittal Package, the City shall rely on the representations and commitments of the undersigned bidder contained herein.

The following completed documents comprising this Bid Form and Submittal Package will be included with and, by this reference, are expressly incorporated into the Contract Documents specified at Paragraph 1 of the Contract:

Bid Form and Submittal Package Acknowledgment Form
Bid Form
List of Proposed Minority/Woman Owned Business Enterprise(s)
Commitment to Minority/Woman Owned Business Enterprise Participation
Minority/Woman Owned Business Enterprise(s) of Intent
Joint Venture Affidavit (if applicable)
Joint Venture Eligibility Form (if applicable)
Bid Bond
Certificate of Insurance

The following designated documents constitute that portion of the Contract Documents made available by the Notice of Invitation for Bids, but not included in the Bid Form and Submittal Package:

Notice of Invitation for Bids Instructions to Bidders Addenda (as applicable) Equal Employment Opportunity Provisions (Appendix A and Appendix F) Contract Form **General Contract Conditions Special Contract Conditions** Performance and Payment Bond Notice to Apparent Low Bidder Notice to Proceed Contractor's Certification of Payment Form Final/Partial Lien Release Form **Final Receipt** Change Orders (as applicable) Federal Requirements (as applicable) Prevailing Wage Rate Schedule(s) Technical Specifications Contract Drawings Accepted Shop Drawings

The undersigned bidder expressly assumes responsibility for the complete contents of these designated documents as bound together with the Bid Form and Submittal Package submitted herewith and designated the Contract Documents.

IN WITNESS WHEREOF, the undersigned bidder has signed personally or by duly authorized officer or agent and duly attested.

BIDDER:

Name: Martin Marietta Materials, Inc.

By: \_\_\_\_\_\_

Title: Abbott Lawrence - Division President

ATTEST:

[SEAL]

STEFANIE L. KUMMET
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20174033681
MY COMMISSION EXPIRES AUGUST 10, 2021

# CITY AND COUNTY OF DENVER DEPARTMENT OF PUBLIC WORKS

#### **BID FORM**

#### CONTRACT NO. 201844724 SOUTH BOND PAVING

BIDDER Martin Marietta Materials, Inc.

(Legal Name per Colorado Secretary of State)

TO:

The Manager of Public Works City and County of Denver c/o Contract Administration 201 West Colfax, Dept. 614 Denver, Colorado 80202

The Undersigned Bidder, having examined the plans, technical specifications, and remainder of the proposed Contract Documents as designated and enumerated in the General and Special Contract Conditions and any and all addenda thereto; having investigated the location of and conditions affecting the proposed Work; and being acquainted with and fully understanding the extent and character of the Work covered by this bid, and all factors and conditions affecting or which may be affected by Work, HEREBY SUBMITS THIS BID, pursuant to an advertisement of a Notice of Invitation for Bids as published on November 5, 2018, to furnish all required materials, tools, appliances, equipment and plant; to perform all necessary labor and to undertake and complete: CONTRACT NO. 201844724, SOUTH BOND PAVING, in Denver, Colorado, in full accordance with and conformity to the Plans, Technical Specifications, and Contract Documents hereto attached or by reference made a part hereof, at and for the following price(s) set forth on this Bid Form.

The following documents, which taken as a whole constitute the Contract Documents for this Project, and which are incorporated herein, by reference, were made available to the Bidder as provided in the Advertisement of Notice of Invitation for Bids, were received by the bidder, and form the basis for this bid:

Advertisement of Notice of Invitation for Bids

Instructions to Bidders

Commitment to M/WBE Participation

Article III, Divisions 1 and 3 of Chapter 28, D.R.M.C.

Bid Bond

Addenda (as applicable)

Equal Employment Opportunity Provisions (Appendix A and Appendix F)

Bid Form

Contract Form

**General Contract Conditions** 

Special Contract Conditions

Performance and Payment Bond

Notice to Apparent Low Bidder

Notice to Proceed

Contractor's Certification of Payment Form

Final/Partial Lien Release Form

Final Receipt

Change Orders (as applicable)

Federal Requirements (as applicable)

Prevailing Wage Rate Schedule(s)

Technical Specifications

Contract Drawing

Accepted Shop Drawings

Certificate of Insurance

Item No.	Description and Price	Estimated Quantity	Estimated Cost
202-00240	Removal of Asphalt Mat (Planing) at the unit price of \$ 2.2\$_per SQUARE YARD.	191,000 SY	s <u>429,750.00</u>
202-00246	Removal of Asphalt Mat (Planing)(Special) at the unit price of per SQUARE YARD.	1,000 SY	\$ 5,550.00
202-00203	Removal of Curb and Gutter at the unit price of \$(	5,000 LF	\$ 33,450.00
208-00050	Reset Ground Sign at the unit price of \$/60. 24per SQUARE FOOT.	10 SF	s <u>1,602.60</u>
210-00810	Reset Inlet Grate and Frame at the unit price of \$	17 EA	\$ 6,902.00
210-04010	Adjust Manhole/Meter/Valve at the unit price of \$60.00 per EACH.	246 EA	s <u> </u>
212-01200	Restore Landscaping at the unit price of \$	1,500 SF	\$ /0,035.00
403-00720	HBP Patch at the unit price of  \$	4,000 TN	\$ 500,000.00
403-34741	HBP Type Grading S (75) (PG 64-22)3" at the unit price of \$70.00 per TON.	15,400 TN	\$ 1,078,000.00
403-09221	Stone Matrix Asphalt- Top Lift 2" at the unit price of  \$	15,400 IN 16,600 TN	\$_1,726,400.00
412-00000	Testing at the unit price of \$	64 EA	\$ 7,360.00

Item No.	Description and Price	Estimated Quantity	Estimated Cost
412-00000	12 HR High Early Strength Concrete		
	at the unit price of \$	300 CU YD	\$_36,807.00
608-00010	Concrete Curb Ramp at the unit price of  \$	300 SY	s <u>28,443.00</u>
608-00015	Truncated Domes (Wet Set) at the unit price of \$39.64_per SQUARE FOOT.	630 SF	\$_24,595.20
609-21020	Curb & Gutter Type II, Section 2B at the unit price of \$	5,000 LF	\$
623-00204	Traffic Control (Arterial) at the unit price of \$3,356.\$\sqrt{S}\$ per LUMP SUM/DAY.	100 LS/DAY	\$_335,650.00
623-00204	Traffic Control (Collector) at the unit price of \$	40 LS/DAY	s <u>104,800.00</u>
625-00001	Construction Surveying at the unit price of \$ 170. 50 per HOUR.	20 HR	\$ 3,410.00
627-00005	Epoxy Pavement Markings at the unit price of  \$(20.59er GALLON.	100 GAL	\$ 12,050.00
627-00310	Thermo Plastic Pavement Markings( X-Walk, Stop Line) at the unit price of  \$	10,000 SF	\$ 99,000.00
627-30205	Preformed Plastic Pavement Markings Word Symbol		
	at the unit price of \$	2,000 SF	\$26,200.00

Item No.	Description and Price	Estimated Quantity	Estimated Cost
630-00015	Uniformed Traffic Control at the unit price of \$	100 HR	\$ 13,000.00
630-80355	Portable Message Sign Panel at the unit price of \$\frac{10.80}{O} \text{ per LUMP SUM/DAY.}	112 LS/DAY	\$ 12,320.00
626-01103	Public information at the unit price of \$6,900. ∞ per LUMP SUM.	l LS	\$ 6,900.00

Bid Items Total Amount (202-00240 through 626-01103 (Twenty-Four [24]) total bid items)

Textura ® Fee from table on Page BF-3 (based on Bid Items Total Amount)

Bid Items Total Amount plus Textura® Fee equals Total Bid \$4,626,484.80

Amount

Total Bid Amount:

Total Bid Amount:
Four Millian Six Hundred Twenty Six Thousand Four Hundred Eighty
Four Dollars and 80/100

Dollars (\$4,626,484.80)

If the Manager mails a written Notice of Apparent Low Bidder, addressed to the Bidder's business address stated on this Bid Form, the Undersigned Bidder shall, in accordance with the Contract Documents, be ready to, and shall, within five (5) days after the date of the Notice: (i) execute the attached form of Contract in conformity with this bid; (ii) furnish the required proofs of insurance; and (iii) furnish the required bond or bonds in the sum of the full amount of this bid, executed by a surety company acceptable to the Manager.

The Martin Marietta Materials, Inc., a corporation of the State of Morth Carolina, is hereby offered as Surety on said bond. If such surety is not approved by the Manager, another and satisfactory surety company shall be furnished.

Enclosed with this bid is a bid guarantee, as defined in the attached Instructions to Bidders, in the amount of 5000 P.OMO. The Undersigned Bidder agrees that the entire amount of this bid guarantee is to be paid to and become the property of the City as liquidated damages, and not as a penalty, if: (i) the bid is considered to be the best by the City; (ii) the City notifies the Undersigned Bidder that it is the Apparent Low Bidder; and (iii) the Undersigned Bidder fails to execute the Contract in the form prescribed or to furnish the required bond and proofs of insurance, within five (5) days after the date of such notification.

The following persons, firms or corporations are interested with the Undersigned Bidder in this bid:

If there are no such persons, firms, or corporations, please so state in the following space:

The Undersigned Bidder proposes to subcontract the following Work in accordance with General Contract Conditions, Title 5, SUBCONTRACTS, and represents that, to the greatest degree practical, all subcontractors known at the time of bid submittal have been identified.

Item of Work	Percent (%) of Total;	Proposed Subcontractor and Address
ASPHALT PATCH MY	Work (0,37	METRO PAVERS
ASPHALT MILLING	3.98	Colorpo Milling
PUBLIC INFORMATION	0.12	2020 GROUP
Pavement Striping	2.70	ROAD SAFE TRAFFIC
MATERIAL TESTING	0.13	Geocal
TRAFFIC CONFROR	8.3	ROAD SAFE TRAFFIC
Concrete	4.50	KEENE
		where the same transfer and

(Copy this page if additional room is required.)



## List of Proposed MWBE

Bidders, Subcontractors, Suppliers (Manufacturers) or Brokers Office of Economic Development
Division of Small Husiness Opportunity
Compilance Unit
201 W. Coffax Ave. Dept. 907
Denver, CO 80202
Phone: 720-913-1999
DSBO(2denvergov.org

		Billian series and the			
City & County of Denver Co	ontract No.: 20	19447	24		
The undersigned Bidder propos CURRENTLY certified by the Co opening will count toward satisfor Brokers. MWBE prime bidders additional MWBE.	ly and County of Deni action of the project or	ver. Only the le	vel of MWBE part	cipation listed at the bid	
Business Namer Martin Mar	THE RESERVE TO SHARE THE PARTY OF THE PARTY	Bidder			
Address 1627 Cole Blvd.	2 40E-5000 - 07 18E	ATTACKY, CO.	erson: Steve Wa	leh	
Type of Service:		72-17-90-18		Tuesday and the second	
Asphalt Paving	THE STREET AND ADDRESS OF THE STREET	Dollar Am	ount: \$:	Percent of Project	
	Certified MWI	BE Prime Bid	der		
Business Name:	THE PERSON NAMED AND ADDRESS OF THE PERSON				
Address:		Contact Po	erson:		
Type of Service:		Dollar Am	ount: \$:	Percent of Project:	
Subcontracto	rs, Suppliers Manu	facturers or	Brokers (check o	na box)	
Subcontractor((1)	Supplier (√)		rufacturer (1)	Broker (√)	
Business Name: Colorso	0 MILLING			1	
Address: Po Box 716 1	Nessmisten	Type of Se	ervice: ASPHALI	MILLING	
Contact Person: CHRIS Vo	nhies	Dollar Amo	ount: \$: 193,44	7 Percent of 4.2 0/6	
Subcontractor (1)	Subcontractor (1) Supplier (1)		macturer (√)	Broker (√)	
Business Name: METAO					
Address: 7875 I-76 S	Envice RO Herbe	Type of Se	rvice: ASPANU	PATCHING	
Contact Person: Mikey	ASINA	Dollar Amo	unt: \$: 490,000	Percent of Project: 10,30	
Subcontractor (1)	Supplier (1)	Man	uiacturer (√)	Broker (√)	
Business Name: 2020 (	grave				
Address: 2450 W. VIAS	HINOTEN ST	Type of Se	rvice: Pobus	C INFORMATION	
Contact Person: HELDI ROW		-	Dollar Amount: \$: 5,762 Percent of Project 5,12		

Rev 0318161E

Subcontra	ctors, Suppliers Manuf	acturers or Brokers (check on	o box)	
Subcontractor (v)	Supplier (√)	Manufacturer (√)	Broker (v)	
Business Name: Gccc	CAL			
Address: 7290 S. FRAS	en St. Cerrennal	Type of Service: TOSTN	6	
Contact Person: RONAC	) Vasquez	VASQUEZ Dollar Amount: \$: 6,464 Percent of Project.		
Subcontractor (1)	Supplier (1)	Manufacturer (√)	Broker (√)	
Business Name: ROAD	TRUCKING			
Address: 9868 E 113	TE HENDERSW	Type of Service: Marchie	al HAUL	
Contact Person: Bonce	60	Dollar Amount: \$: 100 p00	Percent of 2.16	
Subcontractor (1)	Supplier (1)	Mamufacturer (√)	Broker (v)	
Business Name: WHEE	13-NTRILLS			
Address: 7100 Brown	onay Her	Type of Service: MATCALE	L HAVE	
Contact Person: STE/C	VINCPANDO	Dollar Amount: \$97,000 Percent Project		
Subcontractor (v)	Supplier (√)	Manufacturer (√)	Broker (1)	
Business Name:	2000-0030	a Capacita India		
Address:		Type of Service:		
Contact Person:		Dollar Amount: \$:	Percent of Project:	
Subcontractor (V)	Supplier (√)	Manufacturer (1)	Broker (v)	
Business Name:				
Address:		Type of Service:		
Contact Person:		Dollar Amount: \$:	Percent of Project:	
Subcontractor (v)	Supplier (√)	Manufacturer (1)	Broker (√)	
Business Name:				
Address:		Type of Service:		
Contact Person:		Dollar Amount: \$: Percent or Project:		
Subcontractor (v)	Supplier (√)	Manufacturer (√)	Broker (v)	
Business Name:	30 E-820 TTHE 5			
Address:		Type of Service:		
		Percent of Project		

Rev 031816JE

The undersigned Bidder hereby certifies that the aforementioned subcontractors and suppliers have full knowledge that their names have been offered as subcontractors and suppliers for the work, and the Bidder further certifies that the dollar amount of work to be performed by the aforementioned M/WBE(s) was furnished to the Bidder prior to the bid opening. The undersigned Bidder agrees that after the bid opening, it shall submit to the City an executed and completed W/MBE "Letter of Intent" in three working days (3) on each of its M/WBE subcontractors. The "Letter of Intent" form is contained in the Contract Documents.

The undersigned Bidder acknowledges the right of the City to reject any or all bids submitted, to waive informalities in bids and to readvertise this Project for bids.

The undersigned certifies that it has carefully checked all works and figures and all statements made in these Bid Forms.

This bid is submitted upon the declaration that neither, I (we), nor, to the best of my (our) knowledge, none of the members of my (our) firm or company have either directly or indirectly entered into any agreement, participated in any collusion or otherwise taken any action in restraint of free competitive bidding in connection with this bid.

Business Address	ss of Bidder: 1627 Cole Boulevard, Suite 200				
City, State, Zip	Code:	Lakewood, CO 80401			
Telephone Num	ber of Bidder:	720-245-6400	Fax No3	303-657-4414	10
Social Security	or Federal Employer	ID Number of Bidder:	56-18485	578	
Name and locati	on of the last work o	f this kind herein contempl 4430 South Adams	ated upon which the E County Parkway,	Bidder was engaged: Brighton, CO 80601	
For information	relative thereto, plea	se refer to:			
Name:	Gordon Stever	ns, 303-947-9633			120
Title:			i iii		
Address:	4430 South Ad	lams County Parkway,	Brighton, CO 8	30601	
The undersigned	acknowledges recei	pt, understanding, and full	consideration of the fo	ollowing addenda to the Contr	ract Documents:
		a Number1			
	Addend	a Number	_ Date _ 11 / 28 /	18	
	Addend	a Number	_ Date		
Dated this8t	h day of	Novemeber	2018		

ature of Bidder:			
If an Individual:		! 	doing business
	as		
If a Partnership:			
	by:		General Partner
If a Corporation:	Martin Marie	tta Materials, Inc.	
	a North Care	olina	Corporation,
	by: Abbott L	7 bun	, its President.
Attest: Secretary  oint Venture, signature of	(Corporate Seal) all Joint Venture participan	ts.	
	thin ( ) on ( ) Timin J Tint !!!		
	ship ( ) or ( ) Limited Liabili		
		(If a Corporation) Attest:	
Title:			(0)
Firm:		Secretary	(Corporate Seal)
Corporation ( ), Partners	hip ( ) or ( ) Limited Liability	y Company	
Ву:		(If a Corporation)	
Title:		Attest:	
		Secretary	(Corporate Seal)
Firm:	<u> </u>		
Corporation ( ), Partners	hip ( ) or ( ) Limited Liability	Company	
_	hip ( ) or ( ) Limited Liability	(If a Corporation)	
By:			



Office of Economic Development
Division of Small Business Opportunity
Compliance Unit

201 W. Colfax Ave. Dept. 907
Denver, CO 80202
Phone: 720-913-1999
DSBO@denvergov.org

# PARTICIPATION

The undersigned has satisfied the MWBE participant requirements in the following manner (Please check the appropriate box): The Bidder/Proposer is committed to the minimum \_ | 9 % MWBE utilization on the project, and will submit Letters of Intent (LOI) for each subcontractor/subconsultant listed in the Bid Forms as follows: Hard Bids: Three (3) business days after the bid opening. Request for Proposals/Qualifications: With the proposal when due. Compliance Plans: With each task/work order ☐ The Bidder/Proposer is unable to meet the project goal of \_\_\_\_\_\_% MWBE, but is committed to a .% MWBE utilization on the project. The Bidder/Proposer understands that they must minimum of \_\_\_ submit a detailed statement of their good faith effort under sealed bid procedures, as a matter of responsiveness, or with initial proposals, under contract negotiation procedures; or no later than three (3) days after bid opening as a matter of responsibility as in accordance with DRMC Section 28-62 and 28-67 of Ordinance 85 to the Division of Small Business Opportunity. ☐ The Bidder/Proposer is a certified MWBE in good standing with the City and is committed to self-perform a minimum of \_\_\_\_\_\_% of the work on the contract. Bidder/Proposer (Name of Firm): Martin Marietta Materials, Inc. Firm's Representative (Please print): Abbott Lawrence Signature (Firm's Representative): Title: Division President Address: 1627 Cole Boulevard, Suite 200 City: Lakewood State: CO Zip: 80401 Phone: 720-245-6400 Fax: 303-657-4414 Email:Steve.Walsh@martinmarietta.com A copy of the MWBE Certification letter must be attached to each Letter of Intent (LOI).



Office of Economic Development Division of Small Business Opportunity Compliance Unit 201 West Colfax Ave., Dept. 907

Denver, CO 80202 Phone: 720-913-1999

## LETTER OF INTENT (LOI) INSTRUCTIONS FOR COMPLETION & SUBMISSION:

- All lines must be completed or marked N/A for Not Applicable
- Certification Letter must be submitted with LOI
- Submit the attached completed checklist with this letter
- Email to debo@denvergov.org ,
- FOR RFPs and RFQs: LOIs should be included with Submittal

Contract No.:	Project Na	me:				
A. The Following Section Is To Be Completed by the Bidder/Consultant This Letter of Intent Must be Signed by the Bidder/Consultant and M/WBE, SBE, EBE or DBE						
Name of Bidder/Consultant:		1 8	Self-Perf	orming:	Phone	
Contact Person:		Ema	il:		Fax:	
Address:		City:			State:	Zip:
B. The Following Section This Letter of Intent Mo		Charles Agency and the Co.		A SECURITION OF THE PARTY OF TH		
Name of Certified Firm:		•		•	Phone:	
Contact Person:		Email:			Fax:	
Address:		City:			State:	Zip:
Please check the designation whi applies to the certified firm.	M/WBE		SBE (V)	EBE		OBE (v)
Indirect Utilization: If this M/WBE, broker to the Bidder/ Consultant, plea utilizing the participation of this firm:  A Copy of the M/WB	se indicate th	e name of	the subcontrac	ctor/subcons	ultant, su	pplier or broker which is
Identify the scope of the work to be poprice bids only, identify which bid I						
Subcontractor/Subconsultan	(1)	Suppli	er (v)			Broker (√)
Bidder intends to utilize the aforement of the work and percentage of the total						ribed above. The cost
\$						%
Consultant intends to utilize the afore the Work/Supply described above. To consultant MWBE, SBE, EBE or DBE	ne percentage	of the wor				%
If the fee amount of the work to be pe	rformed is req	uested, the	e fee amount,	is: s		
Bidder/Consultant's Signature:				Date	ž.	
Title:						
MWBE, SBE, EBE or DBE or Self-Pe Firm's Signature:	rforming			Date	:	
Title: If the above named Bidden/Consultant is not de	termined to be th	e successful	Ridden/Consultan	this latter of	Intent shall	he null and void

#### Letter of Intent (LOI) Checklist

All lines must be completed or marked N/A for Not Applicable Submit the attached completed checklist with this letter.

,	Countries and one of the control that the letter
Completed ✓	
П	
	Project Number & Project Name  Section A: Name of Bidder/Consultant, Contact Person, Address, City, State, Zip, Phone, Email
	Section B: Name of Certified Firm, Contact Person, Address, City, State, Zip, Phone, Email
	Designation checked for MBE/WBE, SBE, EBE or DBE
	Indirect Utilization: Name of subcontractor/subconsultant, supplier or broker is indicated if using the participation of a 2 <sup>nd</sup> tier subcontractor/subconsultant, supplier or broker.
	Scope of work performed or item supplied by MWBE, SBE, EBE or DBE
	Line items performed, if line-item bid.
	Copy of M/WBE, SBE, EBE or DBE Letter of Certification Attached
	Designation checked for Subcontractor/Subconsultant, Supplier or Broker
	If project is a hard bid
	Bidder has indicated dollar amount for value of work going to Subcontractor/ Subconsultant, Supplier or Broker
	Bidder has indicated percentage for value of work going to Subcontractor/ Subconsultant, Supplier or Broker
	If project is an RFP/RFQ
	Consultant has indicated percentage for value of work going to Subcontractor/ Subconsultant, Supplier or Broker Name & contact name for MWBE.
	Fee amount if fee amount of work to be performed is requested.
	Bidder/Consultant's Signature, Title & Date
	M/WBE, SBE, EBE or DBE Firm's Signature, Title and Date
Select One ✓	SUBMITTED VIA For Construction Hard Bids ONLY, Bidders are strongly urged to deliver the LOI via one of the methods below. (The preferred method is to scan/email completed forms to email address below. Delivery to any other point cannot be guaranteed timely delivery.)
	Email to DSBO@denvergov.org

The complete and accurate information that is required for the Letter of Intent is based on the following sections of the Ordinance 85: Section 28-63 and Section 28-68. Failure to complete this information on the Letter of Intent (LOI) may automatically deem a bid or proposal non-responsive.



### **Joint Venture Affidavit**

Office of Economic Development Division of Small Business Opportunity Compliance Unit 201 W. Coffax Ave. Dept. 807 Denver, CO 80202 Phone: 720-913-1800 DSBO@denvernov.om

The <u>Undersigned</u> swears that the foregoing statements are correct and include all material information necessary to identify and explain the terms and operation of our joint venture and the intended participation by each joint venturer in the undertaking. Further, the <u>Undersigned</u> covernant and agree to provide the City current, complete, and accurate information regarding actual joint venture work and the payment thereof and any proposed changes in any of the joint venture arrangements and to permit the audit and examination of the books, records, and files of the joint venture, by authorized representatives of the City or Federal funding agency, if applicable. Any material misrepresentation will be grounds for terminating any contract which may be awarded and for initialing action under Federal or State laws concerning false statements.

Name of Firm:		
Print Name:		Title
Signature:		Date:
	Note	y Public
County of	State of	My Commission Expires:
Subscribed and sworn before m	e this	
Notary Signature:		
Name of Firm:		
Print Name:		Title
Signature:		Date:
	Notar	y Public
County of Subscribed and sworn before me		
Notary Signature: Notary Commission #: Address:		Notary Seat



# JOINT VENTURE ELIGIBILITY FORM

Office of Economic Development
Division of Small Business Opportunity
Compliance Unit
201 W. Colfax Ave. Dept. 807
Denver, CO 80202
Phone: 720-013-1098
D8BO@denvernov.org

Joint Venture means an association of two (2) or more business enterprises to constitute a single business enterprise to perform a City construction or professional design and construction services contract for which purpose they combine their property, capital, efforts, skills and knowledge, and in which each joint venturer is responsible for a distinct, clearly defined portion of the work of the contract, performs a commercially useful function, and whose share in the capital contribution, control, management responsibilities, risks and profits of the joint venture are equal to its ownership interest. Joint ventures must have an agreement in writing specifying the terms and conditions of the relationships between the joint venturers and their relationship and responsibility to the contract.

The Division of Small Business Opportunity (DSBO) requires the following information be provided from participants of a prospective joint venture, to assist DSBO in evaluating the proposed joint venture. This Joint Venture Eligibility form and the Joint Venture Affidavit apply if SBEs, EBEs, MBEs, WBEs or DBEs participate in this joint venture.

Please return this form, the Joint Venture Affidavit, and a copy of your Joint Venture Agreement to: Division of Small Business Opportunity, 201 West Colfax Avenue, Denver, CO 60202, at least ten (10) working days prior to bid opening or proposal.

If you have questions regarding this process, please contact DSBO at 720-913-1999. Joint Venture Information Name: **Contact Person** Address: City: State: Zip: Phone: Joint Venture Participants Name: Contact Person: Address: City: % Ownership: Certifying Type Certification & Date: Entity: (S/E/M/W or DBE) Type of Work for which Certification was granted: Name: Contact Person: Address: City State: Phone: Certifying % Ownership: Type Certification & Date: (S/E/M/W or DBE) Entity: Type of Work for which Certification was granted: **General Information** SBE/EBE/MBE/WBE/DBE Initial Capital Contributions: \$ % Future capital contributions (explain requirements) (attach additional sheets if necessary): Source of Funds for the SBE/EBE/MBE/WBE/DBE Capital Contributions: Describe the portion of the work or elements of the business controlled by the SBE/EBE/MBEAWBE or DBE: (attach additional sheets if necessary)

Describe the portion of the work or elements of the business controlled by non-SBE/EBE/MBE/WBE or DBE: (attach additional sheets if necessary)	
and a motoscity	
JOINT VENTURE ELIGIBILITY FORM	
General information	
Describe the SBE/EBE/MBEWBE or DBE's involvement in the overall management of the joint venture (e.g., participation on a management committee or managing board voting rights, etc.) (attach additional sheets if necessary)	
Describe the SBE/EBE/MBE/WBE or DBE's share in the profits of the joint venture:	
The profits of the part venture:	
Describe the SBE/EBE/MBE/WBE or DBE's share in the risks of the joint venture:	_
Describe there rules and responsibilities of each joint venture participant with respect to managing the joint venture (use at difficult sheets if necessary):  a. SBE/EBE/MBE/WBE or DBE joint venture participant:	
. OSCILISCIANOC III DOC Junt veniure paracipant	_
Non-SBE/EBE/MBE/WBE or DBE joint venture participant:	
	_
describe the roles and responsibilities of each joint venture participant with respect to operation of the joint venture (use diditional sheets if necessary):	
. S8E/E8E/MBE/WBE or D8E joint venture participant:	
Non- SBE/EBE/MBE/WBE or DBE joint venture participant	
	_

Which firm will be n	sponsible for accounting functions relative to the	e joint venture's business?	
Explain what author institutions, supplier	ity each party will have to commit or obligate the s, subcontractors, and/or other parties?	other to insurance and bonding	companies, financing
		14 12 17 17 17	
nonederness entitle	mation relating to the approximate <u>number</u> of m yees that will be required to operate the busines n- S/E/MWBE/OBE or joint venture:	anagement, administrative, supp s and indicate whether they will b	ort and non- e employees of the
	Non-SBE/EBE/M/WBE/DBE	\$BE/EBE/M/WBE/DBE	Joint Venture
Management			
Administrative			
Support			
Hourly Employees			
	JOINT VENTURE EL	JGIBILITY FORM	
	General Info	emation	
Vho will they be em	ame of the person who will be responsible for his blood by?  sed joint venture employees currently employee		Yes No
HE STATE OF STATE	number and positions and indicate which firm co	mently employs the individual(s),	(use additional sheets if
lumber of imployees	Position	Employe	ed By
ttach a copy of the greements between	proposed joint venture agreement, promissory no the joint venture partners.	ote or loan agreement (if applicab	le), and any and all written
	relationships between the joint venture particip	ants, including other joint venture	agreements in which the
,,			
there are any signif	cant changes in or pertaining to this submittal, t	ne joint venture members must in	mediately notify the Division
Small Business Op	portunity.		

# CITY AND COUNTY OF DENVER DEPARTMENT OF PUBLIC WORKS

### **BID BOND**

KNOW ALL MEN BY THESE PRESENTS:	
Liberty Mutual Insurance Companty, 175 Berkeley S by virtue of the laws of the State of Massachusetts held and firmly bound unto the City and County of D Five Percent of the Bid Amount	Dollars, (\$5% of the Bid Amount ), lawful money of the United States, for ide, we bind ourselves, our heirs, executors, administrators, successors and
construction of: Contract No. 201844724, South Bo and County of Denver, Colorado, and said Obligee specified bid security in the amount of not less than five for the City, conditioned that in event of failure of the	ubmitting its bid, dated <u>December 6</u> , 2018, for the ond Paving, as set forth in detail in the Contract Documents for the City has required as a condition for receiving said bid that the Principal deposit we percent (5%) of the amount of said bid, as it relates to work to be performed e Principal to execute the Contract, for such construction and furnish required affered him that said sum be paid immediately to the Obligee as liquidated ure to perform.
prescribed form presented to him for signature, enter if and give Performance and Payment Bond with good at the faithful performance and the proper fulfillment specified, or upon the payment to the Obligee of the specified.	if the aforesaid Principal shall, within the period specified therefore, on the into a written contract with the Obligee in accordance with his bid as accepted and sufficient surety or sureties, upon the form prescribed by the Obligee, for of said Contract, or in the event of withdrawal of said bid within the time sum determined upon herein, as liquidated damages and not as penalty, in the ad give such Performance and Payment Bond within the time specified, then smain in full force and effect.
Signed, sealed and delivered this 21st	_ day of, 20 <u>18</u> .
ATTEST  Loselyn & Bar  Secretary, Roselyn R. Bar	Martin Marietta Materials, Inc.  Principal By  Title Vice President & Treasurer, Byron Creech
	Liberty Mutual Insurance Company
Seal if Bidder is Corporation	By Pabeca L. Gómez Porras

(Attach Power-of-Attorney)

[SEAL]

#### THIS POWER OF ATTORNEY IS NOT VALID UNLESS IT IS PRINTED ON RED BACKGROUND.

This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

Certificate No. 8138654

pm EST on any business day.

Attorney

To confirm the validity of this Power of Att 1-610-832-8240 between 9:00 am and 4:30

Liberty Mutual Insurance Company

The Ohio Casualty Insurance Company

West American Insurance Company

#### **POWER OF ATTORNEY**

KNOWN ALL PERSONS BY THESE PRESENTS: That The Ohio Casualty Insurance Company is a corporation duly organized under the laws of the State of New Hampshire, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Byron Creech; Todd Crump; Rebeca L. Gomez Porras; Kristy W. Kretzschmar; Dan Welsh

all of the city of Raleigh, state of NC each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 26th day of June \_\_\_\_\_\_, 2018\_\_.



STATE OF PENNSYLVANIA COUNTY OF MONTGOMERY

SS

The Ohio Casualty Insurance Company Liberty Mutual Insurance Company West American Insurance Company

By: Afand / My

David M. Carey, Assistant Secretary

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at King of Prussia, Pennsylvania, on the day and year first above written.



COMMONWEALTH OF PENNSYLVANIA

Notarial Seal Teresa Pastella, Notary Public Upper Merion Twp., Montgomery County My Commission Expires March 28, 2021

Member, Pennsylvania Association of Notaries

By: Lerisa Pastella
Teresa Pastella, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-laws and Authorizations of The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company which resolutions are now in full force and effect reading as follows:

ARTICLE IV – OFFICERS – Section 12. Power of Attorney. Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and execution of any such instruments and to attach thereto the seal of the Corporation. When so executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

ARTICLE XIII – Execution of Contracts – SECTION 5. Surety Bonds and Undertakings. Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

Certificate of Designation – The President of the Company, acting pursuant to the Bylaws of the Company, authorizes David M. Carey, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

Authorization – By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, Renee C. Llewellyn, the undersigned, Assistant Secretary, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this

1919 CONTROLLED TO THE PROPERTY OF THE PROPERT

By: Renee C. Llewellyn, Assistant Secretary

65 of 300



Office of Economic Development Division of Small Business Opportunity 201 W. Coffet Ave, Dept. 907 Denver, 00 80202 p: 720.913.1809 c. 720.913.1809 www.denvergov.org/dsbo

# Diversity and Inclusiveness \* in City Solicitations Information Request Form

Type in your response, print out, sign and date; or print out and complete manually. Please print legibly.

Denver Executive Order No. 101 establishes strategies between the City and private industry to use diversity and inclusiveness to promote economic development in the City and County of Denver and to encourage more businesses to compete for City contracts and procurements. The Executive Order requires, among other things, the collection of certain information regarding the practices of the City's contractors and consultants toward diversity and inclusiveness and encourages/requires City agencies to include diversity and inclusiveness policies in selection criteria where legally permitted in solicitations for City services or goods.

Answer each question below. Missing or incomplete responses will be recorded as "no", "not applicable", or "none". A proposal or response to a solicitation by a contractor/consultant that does not include this <u>completed</u> form shall be deemed non-responsive and rejected.

Agency Name:Arts and VenueAuditor OfficeCommunity PlanningDenver International AirportEnvironmental HealthFire Department Project Name:	Purch Huma Econd Parks Police x_Public	asing Division in Services omic Developme and Recreation Department	Sh Te entOt	eriff Departi chnology Se her		
BID / RFP No.:		1				
Name of Contractor/Consultant: _	151					
What industry is your business?	oncrete,	Aggregate,	Asphalt	Supplier	& Asphalt	Pavin
Address:						
	Inc					
Martin Marietta Materials, 1627 Cole Blvd., Suite 200						

OED - Executive Order No. 101
Diversity and inclusiveness in City Solicitations Information Request Form
Rev. 12/29/2015

1. How many employees does you	r company emplo	ny?		
☐ 1-10 ☐ ☐ 11-50 ☒	51-100 over 100			
1.1. How many of your company's	employees are:			
Full-time All	Part-Time			
2. Do you have a Diversity and Incl	lusiveness Progra	ım? 🗌 Yes	X No	
If No, and your company size is Complete and sign the form.	less than 10 em	ployees continue	e to question 11.	
If Yes, does it address: 2.1 Employment and retention? 2.2 Procurement and supply chi 2.3 Customer service?		☐ Yes ☐ Yes ☐ Yes	No No No	
3. Provide a detailed narrative of y programs. This may include, for programs, equal opportunity pol for workplace diversity; or (ii) divimprove customer service.	example, (i) dive licies, and the bu	rsity and inclusi dget amount sp	veness employee ent on an annual	training basis
			3:	
4. Does your company regularly comployees?  If Yes, how does your complication inclusiveness policies to each part of the par	pany regularly co	mmunicate its d	liversity and	to
Not Applicable				

n)		
often do you pro	vide training in diversity and in	clusiveness principles?
Monthly	☐ Annually	
Quarterly	■ Not Applicable	Other
at percentage of	the total number of employees	s générally participate?
0 - 25%	□ 51 - 75%	The second secon
26 - 50%	☐ 76 - 100%	☐ Not Applicable
		- CON 20 - 11
may include, for or sity or inclusiven amount and description	example, narratives of training ess partnership programs, mer ription of budget spent on an a	n supply and procurement active programs, equal opportunity proteins and outreach programs innual basis for procurement a
rsity or inclusiven	example, narratives of training ess partnership programs, mer ription of budget spent on an a	programs, equal opportunity programs
rsity or inclusiven amount and desci	example, narratives of training ess partnership programs, mer ription of budget spent on an a	programs, equal opportunity programs
rsity or inclusiven amount and desci	example, narratives of training ess partnership programs, mer ription of budget spent on an a	programs, equal opportunity programs
rsity or inclusiven amount and desc dier diversity and	example, narratives of training ess partnership programs, mer ription of budget spent on an a	programs, equal opportunity programs, equal opportunity proving and outreach programs innual basis for procurement a
rsity or inclusiven amount and desc dier diversity and	example, narratives of training ess partnership programs, mer ription of budget spent on an all inclusiveness.	programs, equal opportunity programs and outreach programs innual basis for procurement a
rsity or inclusiven amount and describiler diversity and out the diversity and div	example, narratives of training ess partnership programs, mer ription of budget spent on an all inclusiveness.  y and inclusiveness committee it meet?	programs, equal opportunity programs, equal opportunity proving and outreach programs innual basis for procurement a
risity or inclusiven amount and describiler diversity and but and describiler diversity and but have a diversity and but	example, narratives of training ess partnership programs, mer ription of budget spent on an all inclusiveness.	programs, equal opportunity programs and outreach programs innual basis for procurement a
ou have a diversity and but have a diversity of the control of the	example, narratives of training ess partnership programs, mer ription of budget spent on an all inclusiveness.  y and inclusiveness committee it meet?  Annually Other	programs, equal opportunity programs, equal opportunity proving and outreach programs innual basis for procurement a series of the series of t
ou have a diversity and was the control of the cont	example, narratives of training ess partnership programs, mer ription of budget spent on an all inclusiveness.  y and inclusiveness committee it meet?  Annually Other  tyou do not have a diversity and inclusiveness.	programs, equal opportunity propries and outreach programs innual basis for procurement a series of the series of
ou have a diversity and was the control of the cont	example, narratives of training ess partnership programs, mer ription of budget spent on an all inclusiveness.  y and inclusiveness committee it meet?  Annually Other	programs, equal opportunity propries and outreach programs innual basis for procurement a series of the series of

9. Do you have	e a budget for dive	rsity and inclusiveness	efforts?		Yes		No
10. Does your	company integrat	e diversity and inclusion	competen	cies			
into execu	itive/manager peri	formance evaluation pla	ns?		Yes		No
11. Would you program?	like information d	letailing how to impleme	ent a Diver	sity a	and inc	lusiver	1065
	Yes	™ No					
lf yes, please (	email <u>XO101@den</u>	vergov.org					
i attest that th my knowledge	e information repr	esented herein is true, c	correct and	con	pplete,	to the	best of
Mitt	tru		11/8/20	018			
Signature of Po	erson Completing	Form	Date				
Abbott Lawre	nce						
Printed Name	of Person Complet	ing Form					

NOTE: Attach additional sheets or documentation as necessary for a complete response.

<sup>\*&</sup>quot;Diversity and inclusiveness program" means a program that invites values, perspectives and contributions of people from diverse backgrounds, and integrates diversity into its hiring and retention policies, training opportunities, and business development methods to provide an equal opportunity for each person to participate, contribute, and succeed within the organization's workplace. "Diversity" encompasses a wide variety of human differences, including differences such as race, age, gender, gender identity, sexual orientation, ethnicity, physical disabilities, appearance, historically underutilized and disadvantaged persons, as well as social identities such as religion, marital status, socio-economic status, lifestyle, education, parental status, geographic background, language ability, and veteran status."

# CITY AND COUNTY OF DENVER STATE OF COLORADO



### **DEPARTMENT OF PUBLIC WORKS**

**Bid Documents Package** 

Contract Number: 201844724

South Bond Paving

**November 5, 2018** 

### CITY AND COUNTY OF DENVER

### DEPARTMENT OF PUBLIC WORKS

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### STATEMENT OF QUANTITIES

Item No.	Description	Estimated	Quantity
202-00240	Removal of Asphalt Mat (Planing)	191,000	SY
202-00246	Removal of Asphalt Mat (Planing)(Special)	1,000	SY
202-00203	Removal of Curb and Gutter	5,000	LF
208-00050	Reset Ground Sign	10	SF
210-00810	Reset Inlet Grate and Frame	17	EA
210-04010	Adjust Manhole/Meter/Valve	246	EA
212-01200	Restore Landscaping	1,500	SF
403-00720	HBP Patch	4,000	TN
403-34741	HBP Type Grading S (75) (PG 64-22)3"	15,400	TN
403-09221	Stone Matrix Asphalt- Top Lift 2"	16,600	TN
412-00000	Testing	64	EA
412-00000	12 HR High Early Strength Concrete	300	CU YD
608-00010	Concrete Curb Ramp	300	SY
608-00015	Truncated Domes (Wet Set)	630	SF
609-21020	Curb & Gutter Type II, Section 2B	5,000	LF
623-00204	Traffic Control (Arterial)	100	LS/DAY
623-00204	Traffic Control (Collector)	40	LS/DAY
625-00001	Construction Surveying	20	HR
627-00005	Epoxy Pavement Markings	100	GAL



### STATEMENT OF QUANTITIES

Item No.	Description	Estimated	Quantity
627-00310	Thermo Plastic Pavement Markings( X-Walk, Stop Line)	10,000	SF
627-30205	Preformed Plastic Pavement Markings Word Symbol	2,000	SF
630-00015	Uniformed Traffic Control	100	HR
630-80355	Portable Message Sign Panel	112	LS/DAY
626-01103	Public information	1	LS

# CITY AND COUNTY OF DENVER

DEPARTMENT OF PUBLIC WORKS

# NOTICE FOR INVITATION FOR BIDS FOR CONTRACT NO. 201844724

## SOUTH BOND PAVING

BID SCHEDULE: 11:00 a.m., Local Time December 6, 2018

Sealed bids will be received in Room 6.G.7, 201 W. Colfax Ave., Denver, CO 80202, beginning at 10:30 a.m., no later than 11:00 a.m., on bid day. All properly delivered bids will then be publicly opened and read aloud.

Bids submitted prior to 10:30 a.m. on the specified bid opening date/time shall be presented at the Office of Contract Administration, Attention: Diane Mora, Public Works Contract Administration, 201 W. Colfax Ave., Department 614, Denver, CO 80202.

Prior to submitting a bid, the bidder shall consult the Contractor's Bulletin Board located at 201 W. Colfax Ave., 2<sup>nd</sup> Floor, Denver, CO 80202 and/or www.work4denver.com.

# **ELEVATE DENVER BOND PROGRAM:**

Elevate Denver is a 10-year, \$937 million general obligation bond program approved by voters in 2017, that will enhance the City and County of Denver by providing critical improvements to the city's infrastructure – improving our roads, sidewalks, parks, recreation centers, libraries, cultural centers, public-owned buildings and safety facilities.

# **GENERAL STATEMENT OF WORK:**

This project consists of Milling and Overlaying Streets within the City and County of Denver. This includes all traffic control, striping and some minimal concrete work.

# **ESTIMATED CONSTRUCTION COST:**

The estimated cost of construction for this project is between \$4,900,000.00 and \$5,400,000.00.

## TEXTURA CONSTRUCTION PAYMENT MANAGEMENT:

Bidders are required, when preparing a bid, to agree it shall use the Textura® Construction Payment Management System ("Textura") to request payment from the City and to pay subcontractors. All certified subcontractors or suppliers who are listed for participation towards any assigned program goal must be paid via Textura. All fees associated with Textura are to be paid by the awarded Contractor. Bidders shall use the pricing scale provided in Instructions to Bidders to price the Textura service appropriately. For details on the company and service, contact the Textura® Corporation at 866-TEXTURA or <a href="www.texturacorp.com">www.texturacorp.com</a>.

# DOCUMENTS AND BID INFORMATION AVAILABLE:

Contract Documents complete with Technical Specifications and, if applicable, construction drawings will be available on the first day of publication at: <a href="www.work4denver.com">www.work4denver.com</a>. To download digital Contract Documents at a cost of \$15.00 per download, reference eBid Document Number #5955612. Contact QuestCDN at 952-233-1632 or <a href="mailto:info@questcdn.com">info@questcdn.com</a> for assistance.

## PRE-BID CONFERENCE:

A pre-bid conference will be held for this Project at 9:00 a.m., local time, on November 15, 2018. This meeting will take place at: Gary Price Building, 1271 S Bayaud St, Training Room., Denver, Colorado 80223.

**DEADLINE TO SUBMIT QUESTIONS:** November 21, 2018 by 10:00 a.m. local time.

# PREQUALIFICATION REQUIREMENTS:

Each bidder must be prequalified in the 1F(1) - ASPHALT category at the \$6,000,000.00 monetary level in accordance with the City's Rules and Regulations Governing Prequalification of Contractors. Each bidder must have submitted a prequalification application a minimum of ten (10) calendar days prior to the bid opening date. Applications must be

Contract No. 201844724 BDP - 2 November 5, 2018

submitted to the Department of Public Works, Prequalification Section, 201 W. Colfax Ave., Department 614, Denver, CO 80202. To view the Rules and Regulations and to obtain a prequalification application, please visit our website at www.denvergov.org/prequalification or call 720-865-2539 for prequalification information ONLY.

# MINORITY AND WOMAN BUSINESS ENTERPRISE PARTICIPATION:

Construction, reconstruction and remodeling contracts made and entered into by the City and County of Denver are subject to Article III, Divisions 1 and 3 of Chapter 28 of the Denver Revised Municipal Code, (Sections 28-31 to 28-36 and 28-52 to 28-90 D.R.M.C) and all Minority and Woman Business Enterprise and Equal Employment Opportunity Rules and Regulations adopted by the Director of the Division of Small Business Opportunity.

Article III, Division 3 of Chapter 28 of the D.R.M.C. directs the Director of the Division of Small Business Opportunity to establish a project goal for expenditures on construction, reconstruction, and remodeling work contracted by the City and County of Denver. The specific goal for this project is:

# 19% Minority and Woman Business Enterprise (M/WBE) Participation

Project goals must be met with certified participants as set forth in Section 28-60, D.R.M.C. or through the demonstration of a sufficient good faith effort under Section 28-62 D.R.M.C. For compliance with good faith requirements under Section 28-62(b), the M/WBE percentage solicitation level required for this project is 100%.

The Director of the Division of Small Business Opportunity urges all participants in City construction, reconstruction and remodeling projects to assist in achieving these goals.

## **MISCELLANEOUS:**

Contracts for construction, reconstruction, and remodeling are subject to the City prevailing wage rate requirements established pursuant to Section 20-76, D.R.M.C.

As its best interest may appear, the City and County of Denver reserves the right to reject any or all bids and to waive informalities in bids.

A modified version of this Notice of Invitation for Bids and the project's Statement of Quantities is available on the City and County of Denver's website at: <a href="www.work4denver.com">www.work4denver.com</a>.

Publication Dates: November 5, 6, 7, 2018
Published In: The Daily Journal

# CITY AND COUNTY OF DENVER

## DEPARTMENT OF PUBLIC WORKS

#### INSTRUCTIONS TO BIDDERS

## IB-1 INSTRUCTION TO BIDDERS

These Instructions to Bidders are a part of the Contract Documents and are intended to serve as a guide to bidders. They are general in nature and may be amended or supplemented as needed to support any one specific invitation to bid. Each bidder shall prepare its bid in strict compliance with all requirements of the Contract Documents and by careful application of these instructions.

## IB-2 BIDDING

The copy of the Contract Documents contains the Bid Form and Submittal Package for this Project, which must be used to submit a bid hereunder. The bidder must fully complete, execute and submit this Bid Form and Submittal Package, along with any other specified components of the Contract Documents, as its bid for the referenced Project.

A bidder is not required to submit as part of its bid the entire set of Contract Documents distributed by the City pursuant to the Notice of Invitation for Bids, if the bidder executes and submits the Bidder Acknowledgment Form included with the Bid Form and Submittal Package as part of its bid. However, each bidder, by submitting its bid, shall be conclusively presumed to have received and reviewed all of the information contained in the Contract Documents as this term is further defined herein.

Each bid must be enclosed in a sealed envelope, must be addressed to the Manager and must show on the face of the envelope the full name of the bidder, the City Project number, and descriptive title of the Project for which the bid is made.

The advertisement for Notice of Invitation for Bids will identify where and when the bid must be delivered.

# IB-3 CONTRACT DOCUMENTS AS PUBLISHED BY CITY

Each bidder shall be responsible for, and shall be deemed to have received, all the information contained in the Contract Documents as distributed by the City pursuant to the Notice of Invitation for Bids, including addenda, whether or not such bidder has reviewed all or part of the Contract Documents in either its hard copy form or in any other format. If organizations or companies other than the City or its design professional distribute the City's Contract Documents for review by prospective bidders, whether in hard copy or via electronic or other media, neither the City nor its design professional shall be responsible for the content, completeness or accuracy of any information distributed or transmitted by any such organization or company.

# IB-4 COMPLETING AND SIGNING THE BID FORMS

The bidder must complete the Bid Form by legibly writing or printing in ink, in words and figures as required, all the bidder's prices offered for the Work to be performed. All blank spaces, which require a response of the bidder, must be properly completed in full. If in the process of evaluating a bid, words and figures, as written on the Bid Form by the bidder, do not agree, the written words will govern.

For Bid Forms requiring unit price bids, the bidder shall write in the Bid Form spaces provided a unit price for each item for which a quantity is given and shall also write the product of each unit price and the quantity specified in the "Amount" or "Total" space provided.

Each bidder must sign the Bid Form and give the bidder's current business address. If an individual, the signature must be of the individual offering the bid; if a partnership, the signature must be that of a general partner; and if a corporation, both the president and the secretary must sign and the seal of the corporation must be affixed. Signatures of other persons may be acceptable if the bid contains sufficient evidence, satisfactory to the City in its sole discretion, to indicate that the other persons are authorized to bind the bidder.

## IB-5 UNACCEPTABLE BIDS

The City will not accept bids from Bidders not prequalified with the Department of Public Works (if prequalification is required for this project), in arrears to the City upon debt or contract, or which are defaulters (as surety or otherwise) upon any obligation to the City.

## IB-6 INFORMAL AND UNBALANCED BIDS

Any alteration, interlineations, erasure, omission, deletion or addition by the bidder to the Bid Form and Submittal Package or other parts of the Contract Documents submitted with the Bid Form and Submittal Package, as originally issued to the bidder, shall render the accompanying bid informal and may constitute cause for rejection.

Any unauthorized addition, conditional or alternate bids, failure to provide a unit price, lump sum amount or authorized alternate item specified or other irregularities of any kind which tend to render the bid incomplete, indefinite or ambiguous shall render the bid informal and may constitute cause for rejection.

Bids that are unbalanced so that each item does not reasonably carry its own proportion of cost or that contain inadequate or unreasonable prices for any item may be rejected. Bids, which have not acknowledged all addenda to the Contract Documents issued for this bid, may also be rejected.

The right is reserved by the City to reject any or all bids and to waive any informalities where it is deemed by the City to be in the best interests of the City to do so.

# IB-7 ONLY ONE BID ACCEPTED

The City will accept only one bid for the same work from any one bidder. This includes bids that may be submitted under different names by one business enterprise.

## **IB-8 BID GUARANTEE**

As a guarantee of good faith on the part of the bidder, each bid must be accompanied by a bid guarantee, consisting of either a certified or cashier's check made payable without condition to the order of the City and County of Denver or a bid bond written by an approved corporate surety in favor of the City and County of Denver. If the bid of a bidder is acceptable and the bidder is notified by the Manager that it is considered to be the Apparent Low Bidder and said bidder fails to execute a contract in the form prescribed or to furnish a performance and payment bond with a legally responsible and approved surety or to furnish the required evidence of insurance or satisfy all conditions precedent to contract execution within five (5) days after such notice is made by the City, said bid guarantee shall be forfeited to the City as liquidated damages and not as a penalty.

The bid guarantee shall be in the amount of five percent (5%) of the total bid unless otherwise specified in the Notice of Invitation for Bids and on the form appearing in the Contract Documents in the Bid Form and Submittal Package. Failure to submit a properly executed bid guarantee, on the form provided herein may, in the City's sole discretion, constitute cause for rejection.

Following award and execution of the Contract by the Apparent Low Bidder, or earlier in the sole discretion of the City, bid guarantees of all but the Apparent Low Bidder will be returned. When the Apparent Low Bidder executes the Contract and delivers to the City satisfactory performance and payment bonds, required insurance documentation, and has satisfied all conditions precedent to contract execution by the City, and after approval, if any, by the Council of the City of the proposed Contract with the Apparent Low Bidder, the bid guarantee of the Apparent Low Bidder shall be returned. Such return shall be made within one hundred twenty (120) days from date bids are opened unless otherwise specified in the Special Contract Conditions.

# **IB-9 SITE INSPECTION AND INVESTIGATIONS**

Prior to submitting a bid, the bidder is invited to inspect the work site and its surroundings. Although the bidder is not required to make such an inspection before bidding, for purposes of the Contract it shall be conclusively presumed that by failing to make such an inspection, the bidder has waived the right to later claim additional compensation or time extensions for conditions which would have been evident had the site been inspected.

Drawings and Technical Specifications, defining the Work to be done, were prepared on the basis of interpretation by the design professionals of information derived from investigations of the work site. Such information and data are subject to sampling errors, and the interpretation of the information and data depends to a degree on the judgment of the design professional. In view of this, the bidder is invited to make such additional investigations as the bidder's judgment dictates the need for such investigations. Information about

the degree of difficulty of the Work to be done cannot totally be derived from either the Drawings or Technical Specifications or from the Manager or his representatives.

Since the bid information cannot be guaranteed, the Contractor shall have assumed the risks attendant to successful performance of the Work and shall never make claim for additional compensation or time extensions on the grounds that the nature or amount of work to be done was not understood by the bidder at the time of the bidding.

## **IB-10 INCONSISTENCIES**

Any seeming inconsistencies or ambiguities between different provisions of the Contract Documents or any point which the bidder believes requires a decision or interpretation by the City must be inquired into by the bidder by addressing a formal written communication to the Manager of Public Works and sending or delivering it to the offices of the Division of Public Works advertising this Project for bid at least forty-eight (48) hours, excluding Saturdays, Sundays, and holidays, before the time set for the opening of bids

Information about the decision or interpretation made in response to any inquiry will be posted on the Contractor's Bulletin Board (refer to IB-12 CONTRACTOR'S BULLETIN BOARD, for the location of the Contractor's Bulletin Board). If the matter raised requires, in the sole discretion of the Manager, that an addendum to the bid documents be issued, such addendum will be published and each bidder shall be required to acknowledge the addendum by signing and identifying it in the Bid Form when submitting the bid.

After bids are opened, all bidders must abide by the formal response of the Manager, as to any interpretation. The City shall not be bound and the bidder shall not rely on any oral communication, interpretation clarification or determination of the Contract Documents prior to bid opening.

## IB-11 WITHDRAWAL OF BID

A bidder may withdraw its bid at any time prior to the time for receipt of bids set forth in the Notice of Invitation for Bids by making written request upon the Manager of Public Works. After such time, no bid may be withdrawn or modified.

Such request must be signed by the persons authorized to bind the bidder as defined in IB-3, COMPLETING AND SIGNING BID FORMS.

## IB-12 CONTRACTOR'S BULLETIN BOARD

It shall be conclusively presumed that the bidder has, before submitting any bid, read and shall take full responsibility for all addenda, posted decisions, and other information relevant to the bid posted by the City on the Contractor's Bulletin Board. The Contractor's Bulletin Board is located at 201 W. Colfax, 2<sup>nd</sup> Floor, Denver, CO 80202, in the Wellington E. Webb Municipal Office Building.

# **IB-13 PRE-BID MEETING**

Bidders are urged to attend the pre-bid meeting(s) scheduled for this Project. Attendance is not mandatory; however, bidders will be held responsible for all information presented at such meeting(s).

#### IB-14 ADDENDA

As its best interests may require, the City may issue addenda to the Contract Documents. Such addenda shall be posted on the Contractor's Bulletin Board and made available to all persons having purchased a set of Contract Documents as set forth in the Notice of Invitation for Bids contained herein. All bidders must acknowledge receipt of all addenda on the Bid Form at the time of submission of the bid.

# **IB-15 BID OPENING**

Bidders are invited to be present at the bid opening. Unless otherwise suspended, delayed or canceled by posted notice from the Manager, bid opening will occur at the time and place designated in the Notice of Invitation for Bid.

## IB-16 EVALUATION OF BIDS AND BASIS OF BID SELECTION

Bids will be evaluated after being read in open meeting at the place designated for such bid opening. All low bidders' bids will be reviewed for responsiveness to the requirements of the Contract Documents and whether or not the bids contain irregularities which could give any bidder an unfair advantage.

Selection will be made on the basis of the lowest, total, responsive, qualified bid, which bid shall include the total base bid set forth on the Bid Form, plus the total of any alternates set forth on the Bid Form and selected by the City during evaluation. Alternates, if any are included in the bid, will be selected in the priority shown on the Bid Form, subject to the limits of available funds. Bid selection will be subject to all requirements and special bidder qualifications contained herein and subject to approval of such resulting Contract in accordance with the Charter and Revised Municipal Code of the City and County of Denver. In addition to all other specified requirements, the City will correct arithmetical errors in all bids and corrected totals only will be considered as the basis of selection.

Upon concluding that the bid is, in fact, the lowest, total, responsive bid to the bidding conditions and that of a responsible, qualified bidder, the City will notify the Apparent Low Bidder.

As its best interests may appear, the City and County of Denver reserves the right to waive informalities in bids, to reject any and all bids and to rebid the Project.

# IB-17 NOTICE TO APPARENT LOW BIDDER

The Notice to Apparent Low Bidder, a form of which is included in the Contract Special Conditions Section of the Contract Documents, is issued by the City directly to the selected bidder and informs the bidder that the Manager intends to seek approval of the execution of the Contract by the City in accordance with the Charter and Revised Municipal Code of the City and County of Denver. Specifically, it informs the bidder of its obligations with respect to execution of the Contract and instructs the bidder on how to proceed toward execution of the Contract. The City reserves the right to notify the Apparent Low Bidder, at any time within one hundred twenty (120) days from the date of the opening of the bids, that approval to contract with the Apparent Low Bidder shall be sought in accordance with the Charter and Revised Municipal Code of the City and County of Denver.

In accordance with the terms and conditions contained in the Bid Form and Submittal Package and any additional requirements set forth in the Notice to Apparent Low Bidder or elsewhere in the Contract Documents, the Apparent Low Bidder shall execute the Contract Form contained in the Contract Documents made available by the City for execution in the appropriate number of counterparts. The Apparent Low Bidder shall return the fully executed Contract Document sets, along with any supplemental documents required herein, to the City and shall comply with all other conditions precedent to Contract execution within five (5) days of the date of issuance of the Notice to Apparent Low Bidder by the City. Failure to comply with each of these requirements within five (5) days of the date of issuance of the Notice to Apparent Low Bidder by the City shall render the bid nonresponsive and may constitute cause for rejection.

Issuance of such Notice shall not, however, constitute a commitment on the part of the City or create any rights in the Apparent Low Bidder to any contract with the City.

# IB-18 EXECUTION OF CONTRACT

The process of executing a contract requires action by both the apparent low bidder and the City. After it notifies the Apparent Low Bidder, the City will prepare the Contract Documents by incorporating all of the documents submitted by the Apparent Low Bidder into one or more executable copies. Upon notification that contracts documents are ready for execution the Apparent Low Bidder shall execute the contract documents. At this time, the successful bidder shall also provide certain supplemental documents for incorporation into the Contract Documents. These supplemental documents shall include: the properly executed Certificate of Insurance Forms evidencing the apparent low bidder's satisfactory compliance with the insurance requirements set forth in the Contract Documents; a properly executed Payment and Performance Bond Form and appropriate Power of Attorney evidencing the Apparent Low Bidder's satisfactory compliance with the bonding requirements set forth in the Contract Documents; and documentation of compliance with any other conditions precedent to execution of the Contract by the City set forth in the Contract Documents. The insurance and bond forms contained in the Contract Special Conditions Section of the Contract Documents must be used in satisfying these supplemental document requirements.

These documents are then delivered to the City within the prescribed time period for examination of the documents to determine whether or not the Contractor has correctly executed the Contract and has correctly provided the required supplemental documents and that these documents are satisfactorily and properly completed. From here, all of the documents are forwarded to the City Attorney who will, if the insurance

and bonding offered is acceptable and if all other elements of the Contract Documents are in order, recommend that the Manager and the Mayor approve the documents and, when required by the City Charter, prepare an ordinance for submittal to City Council authorizing the execution of the Contract. The City Attorney shall in all applicable instances submit the proposed contract and ordinance to City Council. After City Council approval, the Contract shall be reviewed by the City Attorney and routed for execution by the Mayor, the Clerk for attestation and the Auditor for countersignature and registration. When the total process of contract execution is complete, a Notice to Proceed will be issued and a single executed copy of the Contract will be delivered to the Contractor. Any work performed or a material purchased prior to the issuance of Notice to Proceed is at the Contractor's risk.

# **IB-19 BONDING REQUIREMENTS**

In accordance with the provisions of General Contract Conditions, Title 15, PERFORMANCE AND PAYMENT BONDS, the minimum bonding requirements for this Contract are set forth in the form CITY AND COUNTY OF DENVER PERFORMANCE AND PAYMENT BOND contained in the Special Conditions Section of the Contract Documents. Upon receipt of Notice to Apparent Low Bidder, the apparent low bidder must cause this form bond to be purchased, executed and furnished, along with appropriate Powers of Attorney and a surety authorization letter (in form similar to the one attached), to the City in accordance with the instructions contained herein.

## **IB-20 INSURANCE REQUIREMENTS**

The minimum insurance requirements for this Contract are set forth in the Special Conditions Section of the Contract Documents. Bidders are urged to consider, in preparing a bid hereunder, that each condition, requirement or specification set forth in the form certificate must be complied with by the Contractor and all subcontractors performing Work on the Project, unless such requirements are specifically accepted in writing by the City's Risk Management Office. The Contractor must either include all subcontractors performing work hereunder as insureds under each required policy or furnish a separate certificate for each subcontractor. In either case, the Contractor shall insure that each subcontractor complies with all of the coverage requirements.

# **IB-21 PERMITS AND LICENSES**

All permits, licenses and approvals required in the prosecution of the work shall be obtained and paid for by the Contractor.

## **IB-22 PREVAILING WAGE REQUIREMENTS**

Contractor shall comply with, and agrees to be bound by, all requirements, conditions and City determinations regarding the Payment of Prevailing Wages Ordinance, Sections 20-76 through 20-79, D.R.M.C. including, but not limited to, the requirement that every covered worker working on a City owned or leased building or on City-owned land shall be paid no less than the prevailing wages and fringe benefits in effect on the date the bid or request for proposal was advertised. In the event a request for bids, or a request for proposal, was not advertised, Contractor shall pay every covered worker no less than the prevailing wages and fringe benefits in effect on the date funds for the contract were encumbered.

Date bid or request for qualifications/proposals was advertised: November 5, 2018.

Prevailing wage and fringe rates will adjust on, and only on, the anniversary of the date the Contract was fully executed. Unless expressly provided for in this Agreement, Contractor will receive no additional compensation for increases in prevailing wages or fringe benefits.

Contractor shall provide the Auditor with a list of all subcontractors providing any services under the contract.

Contractor shall provide the Auditor with electronically-certified payroll records for all covered workers employed under the contract.

Contractor shall prominently post at the work site the current prevailing wage and fringe benefit rates. The posting must inform workers that any complaints regarding the payment of prevailing wages or fringe benefits may be submitted to the Denver Auditor by calling 720-913-5000 or emailing auditor@denvergov.org.

If Contractor fails to pay workers as required by the Prevailing Wage Ordinance, Contractor will not be paid until documentation of payment satisfactory to the Auditor has been provided. The City may, by written notice, suspend or terminate work if Contractor fails to pay required wages and fringe benefits.

# **IB-23 TAX REQUIREMENTS**

<u>General</u>. Bidders are referred to the General Contract Condition 323, TAXES, as to taxes to which they may be subject in performing the Work under this Contract, including but not limited to sales and use taxes and the Denver Occupational Privilege Tax. The following instructions are to be considered along with the General Contract Conditions and not in lieu of them.

<u>Sales and Use Tax.</u> Construction and building materials sold to contractors and subcontractors for use on structures, roads, streets, highways, and other public works owned by the City and County of Denver are exempt from state, RTD, and Cultural Facilities District sales and use taxes. However, such materials will be subject to sales and use taxes imposed by the City and County of Denver.

It is the responsibility of the Contractor and its subcontractors to apply to the Colorado Department of Revenue ("CDOR") for a certificate, or certificates, of exemption indicating that their purchase of construction or building materials is for a public project, and to deliver to the City copies of such applications as soon as possible after approval by the CDOR. Bidders shall not include in their bid amounts the exempt state, RTD, and Cultural Facilities District Sales and Use Taxes.

<u>Denver Occupational Privilege Tax</u>. Any employee working for a contractor, or a subcontractor, who earns over \$500 working in Denver during a calendar month, is subject to the payment of the Employee Occupational Privilege Tax. The Contractor and any subcontractor must pay the Business Occupational Privilege Tax for each of its employees who are subject to such tax.

# IB-24 DIVERSITY AND INCLUSIVENESS IN CITY SOLICITATIONS

Each bidder shall, as a condition of responsiveness to this solicitation, complete and return the "Diversity and Inclusiveness in City Solicitations Information Request Form" with their Bid.

Using the "Diversity and Inclusiveness in City Solicitations Information Request Form" provided, please state whether you have a diversity and inclusiveness program for employment and retention, procurement and supply chain activities, or customer service and provide the additional information requested on the form. The information provided on the "Diversity and Inclusiveness in City Solicitations Information Request Form" will provide an opportunity for City contractors to describe their own diversity and inclusiveness practices. Contractors are not expected to conduct intrusive examinations of its employees, managers, or business partners in order to describe diversity and inclusiveness measures. Rather, the City simply seeks a description of the contractor's current practices, if any.

Diversity and Inclusiveness information provided by City contractors in response to City solicitations for services or goods will be collated, analyzed, and made available in reports consistent with City Executive Order No. 101. However, no personally identifiable provided by or obtained from contractor's will be in such reports.

# IB-25 MINORITY AND WOMAN BUSINESS ENTERPRISE (M/WBE) REQUIREMENTS

Article III, Divisions 1 and 3 of Chapter 28, Denver Revised Municipal Code (D.R.M.C.), designated as Sections 28-31 – 28-36 and 28-52 – 28-90 D.R.M.C. and referred to in these Bid Documents as the "M/WBE Ordinance" and any Rules or Regulations promulgated pursuant thereto apply to this Project and are incorporated into these Bid Documents by reference. Generally, the M/WBE Ordinance provides for the adoption of a good faith goals program, to be administered by the Division of Small Business Opportunity (DSBO), devised to provide increased bidding opportunities for Minority and Woman Business Enterprises (M/WBEs). As such, each bidder must comply with the terms and conditions of the M/WBE Ordinance in making its bid and, if awarded the Contract, in performing all Work thereunder. A bidder's failure to comply with the M/WBE Ordinance, any Rules or Regulations promulgated pursuant thereto, or any additional requirement contained herein shall render the bid non-responsive and shall constitute cause for rejection. Failure by the contractor awarded the contract to comply with M/WBE Ordinance requirements during the performance of the contract is a material breach of the contract, which may result in the in the imposition of sanctions on the Contractor, as deemed appropriate by DSBO. Copies of the M/WBE Ordinance and its accompanying Rules and Regulations are available for the use and review of bidders from DSBO. In order to comply with the bid requirements of the M/WBE Ordinance, a bidder shall either meet the established

project goal or, in the alternative, demonstrate that the bidder has made sufficient good faith efforts to meet the goal in accordance with the M/WBE Ordinance.

# Meeting Established Goal

In preparing a bid to meet the established Project goal, bidders should consider the following instructions relating to compliance with the M/WBE Ordinance:

- 1. Under the M/WBE Ordinance, the Director of DSBO ("Director") is directed to establish project goals for expenditures on construction, reconstruction, and remodeling work performed for the City and County of Denver. The specific goal for this project is stated in the Notice of Invitation for Bids bound herein.
- 2. In preparing its bid, each bidder shall list on the Bid Form pages entitled "List of Proposed MWBE Bidders, Subcontractors, Suppliers, Manufacturers, Manufacturers' Representatives or Brokers" the name, address, work description/supply, committed level of participation and other required information for each M/WBE of any tier which the bidder intends to use in performing the work on this Project. Only the M/WBEs identified and the precise levels of participation listed for each on the Bid Form page, at the time of bid opening, will be considered in determining whether the bidder has met the designated participation goal. Additional, revised or corrected participation submitted after bid opening will not be considered. M/WBE bidders may count self-performance or joint venture activity in meeting the M/WBE project goal, but only for the scope of work performed as a commercially useful function and at a percentage level the M/WBE will be performing itself.
- 3. Any agreement between a bidder or proposer and an MBE or WBE in which the bidder or proposer requires that the MBE or WBE not provide subcontracting quotations to other bidders or proposers is prohibited and shall render a bidder's bid or proposer's proposal nonresponsive. D.R.M.C. 28-63(f)
- 4. If a bidder/proposer is participating in a joint venture with a certified M/WBE firm, complete the Joint Venture Eligibility Form and Joint Venture Affidavit contained in this bid document/RFP. Submit the aforementioned forms with the firm's Joint Venture Agreement, to the DSBO Director, at least 10 working days prior to the proposal submittal. The Joint Venture must be approved prior to the bid opening or proposal submittal by the DSBO Director. Approval by the DSBO Director includes determining the amount the Joint Venture will count towards meeting the project goal.
- 5. All M/WBEs listed on the Bid Form must be properly certified by the City on or before the date bids are opened in order to count towards meeting the designated goal. DSBO maintains an M/WBE Directory ("Directory"), which is a current listing of M/WBEs that have been certified by the City. A copy of the DSBO Directory is located at DSBO web site at <a href="https://www.denvergov.org/dsbo">https://www.denvergov.org/dsbo</a>. Bidders are encouraged to use the Directory to assist in locating M/WBEs for the work and supplies required on the Project. Bidders are reminded that changes may be made to the Directory at anytime in accordance with the City's M/WBE Ordinance and procedures established to administer this program and a current copy of the Directory must always be used in preparing a bid. M/WBE certification or listing in the Directory is not a representation or warranty by the City as to the qualifications of any listed M/WBE.
- 6. In accordance with the provisions of the M/WBE Ordinance, DSBO will evaluate each bid to determine the responsiveness of the bid to the requirements of the M/WBE Ordinance. In determining whether a bidder's committed level of participation meets or exceeds the stated M/WBE goal, DSBO shall base its calculation of applicable amounts and percentages on the total base bid amount, not including any listed alternates, of each bid as follows:
  - a. The bid information provided by the agency will be used to determine the total base bid amount of each bid. Each bidder's total base bid amount will be multiplied by the M/WBE percentage established for the project to determine the exact dollar amount of required M/WBE participation for the Project. This amount will then be compared against the exact dollar amounts for the M/WBE committed for participation by the bidder. If the total dollar

- amount of participation listed meets or exceeds the established M/WBE dollar amount goal listed, then DSBO will determine that the goal has been met.
- b. In addition, DSBO will determine the exact commitment percentage for each listed M/WBE by dividing the dollar amount listed for each M/WBE by the total base bid dollar amount submitted by the bidder. These individual percentages, when totaled for all listed M/WBE, will establish the total committed percentage level of M/WBE participation that the bidder must comply with during the life of the contract. In all cases, the committed percentage level of M/WBE participation must equal or exceed the assigned M/WBE goal for the Project.
- c. In providing the exact dollar amount of participation for each listed M/WBE, a bidder should take care never to round up in determining whether or not the total of these amounts meets or exceeds the established percentage goal. The goal must be met or exceeded by dollar amounts and percentages in order for DSBO to determine that the bidder has met or exceeded the applicable M/WBE goal.
- d. As previously mentioned, compliance with the M/WBE goal will be determined on the base bid alone. If a bid contains alternates, participation contained in any alternate will not count towards satisfaction of the Project goal. However, should any designated alternate be selected by the City for inclusion in the contract ultimately awarded, the M/WBE goal percentage level submitted at bid time, on the base bid, will also apply to the selected alternates and must be maintained for the life of the contract on the total contract amount, including any alternate work. Thus, even though such participation will not be considered in evaluating bids, bidders are urged to consider participation in preparing bids for designated alternates.
- e. On projects where force account or allowance bid items have been included, bidders must meet the M/WBE goal percentage based upon the total base bid, including all such items that are submitted to the City. However, when a force account or allowance is designated by the City to be either performed or purchased from a specific company, the bidder may back out the dollar amount of the force account or allowance from the total base bid and meet the M/WBE goal on the remaining reduced amount.
- f. On bids which, at the time of bid opening, are equal to or exceed Five Million Dollars (\$5,000,000.00), including any alternates which may be selected, only sixty percent (60%) of the value of the commercially useful function performed by M/WBE suppliers shall count toward satisfaction of the Project goal. On Projects under Five Million (\$5,000,000.00) the value of the commercially useful function of M/WBE supplier(s) will count at a one hundred percent (100%) level. Manufacturer's representatives and packagers shall be counted in the same manner as brokers.
- g. In utilizing the M/WBE participation of a Broker only the bona fide commissions earned by such Broker for its performance of a commercially useful function will count toward meeting the Project goals. The bidder must separate the bona fide brokerage commissions from the actual cost of the supplies or materials provided to determine the actual dollar amount of participation that can be counted towards meeting the goal.
- 7. On or before the third (3<sup>rd</sup>) working day after bid opening, all of the Bidders are required to submit an executed "Letter of Intent" for each M/WBE listed on the Bid Form as a joint venture member, subcontractor, supplier, manufacturer, manufacturers' representative or broker of any tier. **An MBE or WBE Prime Bidder needs to submit a Letter of Intent for itself for self performed work**, and must identify their level of participation on the designated M/WBE participation page bound herein. A Letter of Intent shall be submitted only for the M/WBEs listed at the time of bid opening, since this is the only participation that will be counted toward satisfaction of the project goal. A form for the M/WBE Letter of Intent is included with the Bid Form. The M/WBE Letter of Intent is a written communication from the Bidder to the City evidencing an understanding that the Bidder has or will enter into a contractual relationship with the M/WBE or that its subcontractor(s) and supplier(s), manufacturer(s), manufacturers' representative(s) and broker(s) will do so. Each M/WBE Letter of Intent shall be accompanied by a copy of the City and County of Denver's M/WBE

certification letter for each proposed M/WBE identified at bid time. Bidders are urged to carefully review these Letters before submission to the City to ensure that they are properly completed and executed by the appropriate parties.

# **Good Faith Effort.**

In preparing a bid to demonstrate a good faith effort, bidders should consider the following instructions relating to compliance with the M/WBE Ordinance:

- 1. If the bidder or proposer has not fully met the project goal as provided in section 28-60, then it shall demonstrate that it has made good faith efforts to meet such goal. The bidder or proposer shall furnish to the director, within three (3) working days after bid opening by the City or on or before the time of the final project-specific proposal submitted to and authorized by the City pursuant to a competitive selection process, or bid selection by a private owner, a detailed statement of its good faith efforts to meet the project goal set by the director. This statement shall address each of the items in subsection (b) and any additional criteria that the director may establish by rule or regulation consistent with the purposes of this division 3. Good faith efforts must be demonstrated to be meaningful and not merely for formalistic compliance with this Division 3. The scope and intensity of the efforts will be considered in determining whether the bidder or proposer has achieved a good faith effort.
- 2. The statement of good faith efforts shall include a specific response and verification with respect to each of the following good faith effort categories, which may be further defined by rule or regulation. A bidder or proposer may include any additional information it believes may be relevant. Failure of a bidder or proposer to show good faith efforts as to any one (1) of the following categories shall render its overall good faith effort showing insufficient and its bid or proposal non-responsive:
  - a. If prebid or preselection meetings are scheduled by the City at which MBEs and WBEs may be informed of subcontracting or joint venture opportunities under a proposed contract to be bid, or procured pursuant to the competitive selection process, attendance at such prebid or preselection meetings is not mandatory; however, bidders and proposers are responsible for the information provided at these meetings.
  - b. The bidder or proposer must solicit through all reasonable and available means, the interest of all MBEs and WBEs certified in the scopes of work of the contract. The bidder or proposer must solicit the interest of such MBEs and WBEs within sufficient time, prior to the bid opening or date of final project-specific proposal in the case of a competitive selection process, to allow such MBEs and WBEs to respond to the solicitation. The bidder or proposer must determine with certainty if the MBEs and WBEs are interested by demonstrating appropriate steps to follow up initial solicitations.
  - The bidder or proposer must select portions of the work of the contract to be c. performed by MBEs and WBEs in order to increase the likelihood that the project goal will be achieved. This includes, where appropriate, breaking out contract work items into economically feasible units to facilitate MBE and WBE participation as subcontractors or joint venturers, and for bidder or proposer selfperformed work, as suppliers, manufacturers, manufacturer's representatives and brokers, all reasonably consistent with industry practice, even when the bidder or proposer would otherwise prefer to perform these work items with its own forces. The bidder or proposer must identify what portions of the contract will be selfperformed and what portions of the contract will be opened to solicitation of bids, proposals and quotes from MBE and WBEs. All portions of the contract not selfperformed must be solicited for MBE and WBE participation. The ability or desire of a bidder or proposer to perform the work of a contract with its own forces does not relieve the bidder or proposer of the responsibility to meet the project goal or demonstrate good faith efforts to do so.
  - d. The bidder or proposer, consistent with industry practice, must provide MBEs and WBEs at a clearly stated location with timely, adequate access to and information about the plans, specifications, and requirements of the contract, including bonding and insurance requirements, if any, to assist them in responding to a solicitation.

- e. The bidder or proposer must negotiate in good faith with interested MBEs and WBEs and provide written documentation of such negotiation with each such MBE or WBE.
- f. For each MBE or WBE which contacted the bidder or proposer or which the bidder or proposer contacted or attempted to subcontract or joint venture with, consistent with industry practice, the bidder or proposer must supply a statement giving the reasons why the bidder or proposer and the MBE or WBE did not succeed in negotiating a subcontracting, supplier, manufacturer, manufacturer's representative, broker or joint venture agreement, as applicable.
- 3. The bidder or proposer must provide verification that it rejected each non-utilized MBE and WBE because the MBE or WBE did not submit the lowest bid or it was not qualified. Such verification shall include a verified statement of the amounts of all bids received from potential or utilized subcontractors, suppliers, manufacturers, manufacturer's representatives, brokers or joint venturers on the contract, whether or not they are MBEs or WBEs. In making such a determination of not being qualified, the bidder or proposer shall be guided by the definition of qualified in section 28-54(42), but evidence of lack of qualification must be based on factors other than solely the amount of the MBE's or WBE's bid. For each MBE or WBE found not to be qualified by the bidder or proposer, the verification shall include a statement giving the bidder's or proposer's reasons for its conclusion. A bidder's or proposer's industry standing or group memberships may not be the cause of rejection of an MBE or WBE. A bidder or proposer may not reject an MBE or WBE as being unqualified without sound reasons based on a reasonably thorough investigation and assessment of the MBE's or WBE's capabilities and expertise.
- 4. If requested by a solicited MBE or WBE, the bidder or proposer must make reasonable efforts to assist interested MBEs and WBEs in obtaining bonding, lines of credit, or insurance as required by the City or by the bidder or proposer, provided that the bidder or proposer need not provide financial assistance toward this effort.
- 5. If requested by a solicited MBE or WBE, the bidder or proposer must make reasonable efforts to assist interested MBEs and WBEs in obtaining necessary and competitively priced equipment, supplies, materials, or related assistance or services for performance under the contract, provided that the bidder or proposer need not provide financial assistance toward this effort.
- 6. The bidder or proposer must use the DSBO MBE/WBE directories to identify, recruit, and place MBEs and WBEs.
- 7. In determining whether a bidder or proposer has satisfied good faith efforts as to a project goal, the success or failure of other bidders or proposers on the contract in meeting such project goal may be considered.

## **Continuing Commitments.**

In accordance with the provisions of the M/WBE Ordinance, the bidder agrees that it is committed to meeting either the M/WBE participation goal or the M/WBE participation set forth in its statement of good faith. This commitment must be expressly indicated on the "Commitment to MWBE SBE Participation" form included with the Bid Form. This commitment includes the following understandings:

- 1. The bidder understands it must maintain M/WBE goals throughout the performance of the Contract pursuant to the requirements set out in D.R.M.C. 28-72.
- 2. The bidder understands that it must establish and maintain records and submit regular reports, as required, which will allow the City to assess progress in achieving the M/WBE participation goal.
- 3. The bidder understands that if change orders or any other contract modifications are issued under the contract, the bidder shall have a continuing obligation to immediately inform DSBO in writing of any agreed upon increase or decrease in the scope of work of such contract, upon any of the bases discussed in Section 28-73 of the M/WBE Ordinance, regardless of whether such increase or decrease in scope of work has been reduced to writing at the time of notification.

4. The bidder understands that if change orders or other contract modifications are issued under the contract, that include an increase in scope of work of a contract for construction, reconstruction, or remodeling, whether by amendment, change order, force account or otherwise which increases the dollar value of the contract, whether or not such change is within the scope of work designated for performance by an M/WBE at the time of contract award, such change orders or contract modification shall be immediately submitted to DSBO for notification purposes. Those amendments, change orders, force accounts or other contract modifications that involve a changed scope of work that cannot be performed by existing project subcontractors or by the contractor shall be subject to a goal for M/WBEs equal to the original goal on the contract which was included in the bid. The contractor shall satisfy such goal with respect to such changed scope of work by soliciting new M/WBEs in accordance with Section 28-73 of the M/WBE Ordinance as applicable, or the contractor must show each element of modified good faith set out in Section 28-75(c) of the M/WBE Ordinance. The contractor shall supply to the director the documentation described in Section 28-75(c) of the M/WBE Ordinance with respect to the increased dollar value of the contract.

All bidders are charged with knowledge of and are solely responsible for complying with each and every provision of the M/WBE Ordinance in making a bid and, if awarded, in performing the work described in the Contract Documents. Failure to comply with these provisions could constitute cause for rejection of a bid or subject the selected contractor to sanctions set forth in the M/WBE Ordinance. These instructions are intended only to generally assist the bidder in preparing and submitting a compliant bid. Should any questions arise regarding specific circumstances, bidders must consult the M/WBE Ordinance or contact the Project's designated DSBO representative at (720) 913-1999.

## IB- 26 DISCLOSURE OF INFORMATION

All submissions and other materials provided or produced pursuant to this Invitation for Bids may be subject to the Colorado Open Records Law, C.R.S. 24-72-201, et seq. As such, bidders are urged to review these disclosure requirements and any exceptions to disclosure of information furnished by another party and, prior to submission of a bid to the City, appropriately identify materials that are not subject to disclosure. In the event of a request to the City for disclosure of such information, the City shall advise the bidder of such request to give the bidder an opportunity to object to the disclosure of designated confidential materials furnished to the City. In the event of the filing of a lawsuit to compel such disclosure, the City will tender all such material to the court for judicial determination of the issue of disclosure and each bidder agrees to intervene in such lawsuit to protect and assert its claims of privilege against disclosure of such material. Each bidder further agrees to defend, indemnify and save and hold harmless the City, its officers, agents and employees, from any claim, damages, expense, loss or costs arising out of the bidder's intervention to protect and assert its claims of privilege against disclosure under the Open Records Law including, but not limited to, prompt reimbursement to the City of all reasonable attorney fees, costs and damages that the City may incur directly or may be ordered to pay by such court.

# **IB-27 GENERAL BIDDING INFORMATION**

Bidders are instructed to contact the Contract Administrator designated below for this Project for pre-bid, post-bid and general City bidding information. Bidders can also visit <a href="www.work4denver.com">www.work4denver.com</a> for information, both general and project specific. The Contract Administrator assigned to this project is Diane Mora who can be reached via email at <a href="pw.procurement@denvergov.org">pw.procurement@denvergov.org</a>.

#### **IB-28 PAYMENT PROCEDURE REQUIREMENTS**

Bidder recognizes and agrees that it shall be required to use the Textura® Construction Payment Management System ("Textura") for this Project to request payment from the City and to pay subcontractors. All certified subcontractors or suppliers who are listed for participation towards any assigned program goal must be paid via Textura. All fees associated with Textura are to be paid by the bidder for billings for work performed. Bidders are required, when preparing a bid, to enter the price of Textura on the line provided for the service. The fee is all inclusive of all subcontractor, project and subscription fees associated with Textura. The bidder will calculate the fee based on a percentage of their total bid, and then include it on the line item provided in the bid form labeled "Textura® Construction Payment Management System Fee". This expense becomes part of the contract and billable to the City. All costs including, but not limited to, costs associated with training, entering data, and/or utilizing Textura other than the Textura Construction Payment Management System Fee are overhead and shall not be reimbursed by the City. Bidder will be responsible for any tax on the Textura fee. As with other taxes, the City will not reimburse bidder for this cost and therefore this cost should be included in bidder's bid. Textura will invoice the awarded bidder directly.

Project Value	Project Fee (GC + Sub Usage)
\$250,000 - \$499,999.99	\$1,625
\$500,000 - \$999,999.99	\$3,250
\$1,000,000 - \$2,999,999.99	\$5,850
\$3,000,000 - \$4,999,999.99	\$9,100
\$5,000,000 - \$9,999,999.99	\$12,220
\$10,000,000 - \$19,999,999.99	\$20,345
\$20,000,000 - \$49,999,999.99	\$32,500
\$50,000,000 - \$99,999,999.99	\$48,750
\$100,000,000 - \$199,999,999.99	\$69,095
\$200,000,000 - \$299,999,999.99	\$85,345
\$300,000,000 - \$399,999,999.99	\$109,720
\$400,000,000 - \$499,999,999.99	\$142,220
\$500,000,000 - \$999,999,999.99	\$162,500
\$1,000,000,000 - \$1,999,999,999.99	\$345,345
\$2,000,000,000 - \$4,999,999,999.99	\$650,000
\$5,000,000,000 - \$9,999,999,999.99	\$1,015,625
\$10,000,000,000 or greater	\$1,503,125

# For more information:

http://www.denvergov.org/content/denvergov/en/contract-administration/bidding-process.html

# RULES AND REGULATIONS REGARDING EQUAL EMPLOYMENT OPPORTUNITY

Promulgated and adopted by the Manager of Public Works pursuant to and by authority of Article III, Division 2, Chapter 28 of the Revised Municipal Code of the City and County of Denver, and for the purpose of insuring that contractors, subcontractors and suppliers soliciting and receiving compensation for contract work from or through the City and County of Denver provide equal opportunity in employment without regard to race, color, creed, sex, national origin, age, religion, marital status, political opinion or affiliation or mental or physical handicap and meet certain requirements for the hiring, training, promotion, and treatment during employment of members of ethnic groups subject to differential treatment, including persons of African descent (Black), Spanish-surnamed (Hispanic), Asian-American and American Indian Groups.

## **RULE I - DEFINITIONS**

- A. "City" means the City and County of Denver.
- B. "Manager" shall mean the Manager of Public Works for the City and County of Denver.
- C. "Contract" means a contract entered into with the City and County of Denver, financed in whole or in part by local resources or funds of the City and County of Denver, for the construction of any public building or prosecution or completion of any public work.
- D. "Contractor" means the original party to a contract with the City and County of Denver, also referred to as the "general" or "prime" contractor.
- E. "Director" means the Director of the Division of Small Business Opportunity.
- F. "Subcontractor" means any person, company, association, partnership, corporation, or other entity, which assumes by subordinate agreement some or all of the obligations of the general or prime contractor.
- G. The phrase "Bidding Specifications" as used in Article III, Division 2 of Chapter 28 of the Revised Municipal Code shall include BID CONDITION, INVITATION TO BID, and NOTICE OF PROPOSAL.
- H. "Affirmative Action Program" means a set of specific and result-oriented procedures or steps to which a contractor commits himself to apply every good faith effort to employ members of ethnic minority groups, to include persons of African descent (Black), Spanish surnamed (Hispanic), Asian-American, American Indians, and persons with mental or physical handicap.
- I. "Division of Small Business Opportunity" means the City agency established pursuant to Article III, Division 1 of Chapter 28 of the Denver Revised Municipal Code.

## **RULE II - NOTICE OF HEARING**

When results of conciliation efforts are unsatisfactory to the Manager and he is informed in accordance with Article III, Division 2 of Chapter 28 of the Revised Municipal code that a contractor or subcontractor has apparently failed to meet affirmative action and equal employment opportunity requirements after a reasonable period of notice to correct deficiencies, the Manager will, prior to imposition of any sanctions, afford the general contractor a hearing in order to determine whether the contractor or his subcontractors have failed to comply with the affirmative action and equal employment opportunity requirements of Article III, Division 2 of Chapter 28 of the Revised Municipal Code or of the contract. Written notice of such hearing shall be delivered personally or sent by certified mail, return receipt requested, to the contractor and to any subcontractor involved, at least ten (10) days prior to the date scheduled for the hearing.

## **RULE III - HEARING**

- A. Contractors will appear at hearings and may be represented by counsel, and may present testimony orally and other evidence.
- B. Hearings shall be conducted by one or more hearing examiners designated as such by the Manager.
- C. The Director of the Division of Small Business Opportunity may participate in hearings as a witness.
- D. Hearings shall be held at the place specified in the notice of hearing.
- E. All oral testimony shall be given under oath or affirmation and a record of such proceedings shall be made.
- F. All hearings shall be open to the public.
- G. The hearing officer shall make recommendations to the Manager who shall make a final decision.

## REGULATIONS

# **REGULATION NO. 1 - ORDINANCE:**

The Rules and Regulations of the Manager shall be inserted in the bidding specifications for every contract for which bidding is required.

## **REGULATION NO. 2 - EXEMPTIONS:**

Each contract and subcontract, regardless of the dollar amount, shall be subject to affirmative action requirements unless specifically exempted in writing individually by the Manager. Exemptions apply only to "affirmative action" in equal employment opportunity, and are not to be construed as condonation in any manner of "discrimination" or "discriminatory practices" in employment because of race, color, creed, sex, age, national origin, religion, marital status, political opinion or mental or physical handicap.

## **REGULATION NO. 3 - DIRECTOR OF CONTRACT COMPLIANCE:**

The Director of the Division of Small Business Opportunity shall perform the duties assigned to such official by Article III, Division 2 Chapter 28 of the Revised Municipal Code and by the Manager. (1) The Director of the Division of Small Business Opportunity or designated representatives shall inform bidders and contractors of affirmative action procedures, programs, and goals in accordance with the Ordinance at prebid and pre-construction conference; (2) make regular on-site inspections; (3) supply contractors and subcontractors with report forms to be completed by them when requested, and furnished to the Director of the Division of Small Business Opportunity; and (4) review payroll records, employment records and practices of general contractors and their subcontractors and suppliers during the performance of any contract. The Director of the Division of Small Business Opportunity shall promptly report apparent affirmative action deficiencies to the Manager.

# **REGULATION NO. 4 - GOALS AND TIMETABLES:**

In general, goals and timetables should take into account anticipated vacancies and the availability of skills in the market place from which employees should be drawn. In addition, where discrimination in employment by a general contractor or any of his subcontractors is indicated, a corrective action program will take into account the need by the general contractor and his subcontractors to correct past discriminatory practices and reach goals of minority manpower utilization on a timely basis through such recruiting and advertising efforts as are necessary and appropriate.

# **REGULATION NO. 5 - AWARD OF CONTRACTS:**

It shall be the responsibility of the Director of the Division of Small Business Opportunity to determine the affirmative action capability of bidders, contractors and subcontractors and to recommend to the Manager the award of contracts to those bidders, contractors and subcontractors and suppliers who demonstrate the ability and willingness to comply with the terms of their contract.

# REGULATION NO. 6 - PUBLICATION AND DUPLICATION:

Copies of these Rules and Regulations as amended by the Manager from time to time, shall as soon as practicable and after Notice being published will be made a part of all City Contracts.

# **REGULATION NO. 7 - NOTICE TO PROCEED:**

Prior to issuance of the Notice to Proceed, a sign-off will be required of the Director of the Division of Small Business Opportunity or his designee.

# **REGULATION NO. 8 - CONTRACTS WITH SUBCONTRACTORS:**

To the greatest extent possible, the contractor shall make a good faith effort to contract with minority contractors, subcontractors and suppliers for services and supplies by taking affirmative actions, which include but are not limited to the following:

- 1. Advertise invitations for subcontractor bids in minority community news media.
- 2. Contact minority contractor organizations for referral of prospective subcontractors.
- 3. Purchase materials and supplies from minority material suppliers.

## **REGULATION NO. 9 - AGENCY REFERRALS:**

It shall be no excuse that the union with which the contractor or subcontractor has an agreement providing for referral, exclusive or otherwise, failed to refer minority employees.

# **REGULATION NO. 10 - CLAUSES:**

The Manager shall include the appropriate clauses in every contract and the contractor shall cause to be inserted in every subcontract the appropriate clauses:

- 1. APPENDIX A: City and County of Denver Equal Opportunity Clause ALL CONTRACTS funded only with City and County of Denver monies.
- 2. APPENDIX B: Equal Opportunity Clause (11246) ALL FEDERAL ASSISTED.
- 3. APPENDIX C: Section 3 Assurance of Compliance HUD ASSISTED PROJECTS.
- 4. APPENDIX D: Section 3 Clause HUD ASSISTED PROJECTS.

All amendments to the appendices shall be included by reference.

## **REGULATION NO. 11 - SHOW CAUSE NOTICES:**

When the Manager has reasonable cause to believe that a contractor has violated Article III, Division 2 of Chapter 28 of the Denver Revised Municipal Code, he may issue a notice requiring the contractor to show cause, within fifteen (15) days why enforcement procedures, or other appropriate action to insure compliance, should not be instituted.

# REGULATION NO. 12 - BID CONDITIONS - AFFIRMATIVE ACTION REQUIREMENTS - EQUAL EMPLOYMENT OPPORTUNITY:

- 1. APPENDIX E: The Bid Conditions Affirmative Action Requirements Equal Employment Opportunity as amended and published by the U.S. Department of Labor Employment Standards Administration, Office of Federal Contract Compliance, shall be inserted verbatim for bidding specification for every non-exempt contract involving the use of Federal funds.
- 2. APPENDIX F: The Bid Conditions Affirmative Action Requirements Equal Employment Opportunity as published by the Department of Public Works, City and County of Denver, shall be inserted verbatim as bidding specifications for every non-exempt contract using City funds.

# CITY AND COUNTY OF DENVER

#### DEPARTMENT OF PUBLIC WORKS

## APPENDIX A

# CITY AND COUNTY OF DENVER EQUAL OPPORTUNITY CLAUSE - ALL CONTRACTS

- 1. The Contractor will not discriminate against any employee or applicant for employment because of race, creed, color, sex, age, national origin, religion, marital status, political opinion or affiliation, or mental or physical handicap. The Contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, creed, color, sex, age, national origin, religion, marital status, political opinion or affiliation, or mental or physical handicap. Such action shall include, but not be limited to the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.
- 2. The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, creed, color, sex, age, national origin, religion, marital status, political opinion or affiliation, or mental or physical handicap.
- 3. The Contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided, advising the said labor union or workers' representatives of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
- 4. Each Contractor will comply with all provisions of Article III, Division 2 of Chapter 28 of the Revised Municipal Code, and the rules, regulations, and relevant orders of the Manager and the Director.
- 5. The Contractor will furnish all information and reports required by Article III, Division 2 of Chapter 28 of the Revised Municipal Code, and by rules, regulations and orders of the Manager and Director or pursuant thereto, and will permit access to his books, records, and accounts by the Manager, Director, or their designee for purposes of investigation to ascertain compliance with such rules, regulations, and orders.
- 6. In the event of the Contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations or orders, this contract may be canceled, terminated, or suspended in whole or in part and the Contractor may be declared ineligible for further City contracts in accordance with procedures authorized in Article III, Division 2, Chapter 28 of the Revised Municipal Code, or by rules, regulations, or order of the Manager.
- 7. The Contractor will include Regulation 12, Paragraph 2 and the provisions of paragraphs (1) through (6) in every subcontract of purchase order unless exempted by rules, regulations, or orders of the Manager issued pursuant to Article III, Division 2, Chapter 28 of the Revised Municipal Code, so that such provisions will be binding on each subcontractor or supplier. The Contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for noncompliance.

The applicant further agrees to be bound by the above equal opportunity clauses with respect to its own employment practices when it participates in City contracts. The Contractor agrees to assist and cooperate actively with the Manager and the Director in obtaining compliance of subcontractors and suppliers with the equal opportunity clause and the rules, regulations and relevant orders of the Manager, and will furnish the Manager and the Director such information as they may require for the supervision of compliance, and will otherwise assist the Manager and Director in the discharge of the City's primary responsibility for securing compliance. The Contractor further agrees to refrain from entering into any contract or contract modification

subject to Article III, Division 2 of Chapter 28 of the Revised Municipal Code with a contractor debarred from, or who has not demonstrated eligibility for, City contracts.

The Contractor will carry out such sanctions and penalties for violation of the equal opportunity clause as may be imposed upon contractors and subcontractors by the Manager and Director. In addition, the Contractor agrees that failure or refusal to comply with these undertakings the Manager may take any or all of the following actions:

- A. Cancellation, termination, or suspension in whole or in part of this contract.
- B. Refrain from extending any further assistance to the applicant under the program with respect to which the failure occurred until satisfactory assurance of future compliance has been received from such applicant.
- C. Refer the case to the City Attorney for appropriate legal proceedings.

**SUBCONTRACTS:** Each prime Contractor or Subcontractor shall include the equal opportunity clause in each of its subcontracts.

# CITY AND COUNTY OF DENVER DEPARTMENT OF PUBLIC WORKS

## APPENDIX F

# AFFIRMATIVE ACTION REQUIREMENTS

# **EQUAL EMPLOYMENT OPPORTUNITY**

For All Non-Exempt Construction Contracts to Be Awarded by the City and County of Denver, Department of Public Works.

# **NOTICE**

EACH BIDDER, CONTRACTOR OR SUBCONTRACTOR (HEREINAFTER THE CONTRACTOR) MUST FULLY COMPLY WITH THE REQUIREMENTS OF THESE BID CONDITIONS AS TO EACH CONSTRUCTION TRADE IT INTENDS TO USE ON THIS CONSTRUCTION CONTRACT, AND ALL OTHER CONSTRUCTION WORK (BOTH CITY AND NON-CITY) IN THE DENVER AREA DURING THE PERFORMANCE OF THIS CONTRACT OR SUBCONTRACT. THE CONTRACTOR COMMITS ITSELF TO THE GOALS FOR MINORITY MANPOWER UTILIZATION, AS APPLICABLE, AND ALL OTHER REQUIREMENTS, TERMS AND CONDITION OF THESE BID CONDITIONS BY SUBMITTING A PROPERLY SIGNED BID.

THE CONTRACTOR SHALL APPOINT A COMPANY EXECUTIVE TO ASSUME THE RESPONSIBILITY FOR THE IMPLEMENTATION OF THE REQUIREMENTS, TERMS AND CONDITIONS OF THESE BID CONDITIONS.

<u>/s/</u>

Manager of Public Works City and County of Denver

# A. REQUIREMENTS - AN AFFIRMATIVE ACTION PLAN:

Contractors shall be subject to the provisions and requirements of these bid conditions including the goals and timetables for minority\* and female utilization, and specific affirmative action steps set forth by the Division of Small Business Opportunity (DSBO). The contractor's commitment to the goals for minority, and female utilization as required constitutes a commitment that it will make every good faith effort to meet such goals.

# 1. GOALS AND TIMETABLES:

The goals and timetables for minority and female participation, expressed in percentage terms for the contractor's aggregate workforce in each trade are as follows:

# GOALS FOR MINORITY PARTICIPATION FOR EACH TRADE

From January 1, 1982 to Until Further Notice

21.7% - 23.5%

# GOALS FOR FEMALE PARTICIPATION FOR EACH TRADE

From January 1, 1982 to Until Further Notice

6.9%

The goals for minority and female utilization above are expressed in terms of hours of training and employment as a proportion of the total number of hours to be worked by the contractor's aggregate workforce, which includes all supervisory personnel, in each trade, on all projects for the City and County of Denver during the performance of its contract (i.e., The period beginning with the first day of work on the City and County of Denver funded construction contract and ending with the last day of work).

The hours of minority and female employment and training must be substantially uniform throughout the length of the contract in each trade and minorities and females must be employed evenly on each of a contractor's projects. Therefore, the transfer of minority or female employees from contractor to contractor or from project to project for the purpose of meeting the contractor's goals shall be a violation of these Bid Conditions.

If the Contractor counts the nonworking hours of apprentices they must be employed by the Contractor during the training period; the Contractor must have made a commitment to employ apprentices at the completion of their training subject to the availability of employment opportunities; and the apprentices must be trained pursuant to training programs approved by the Bureau of Apprenticeship and Training.

\* "Minority" is defined as including, Blacks, Spanish Surname Americans, Asian Americans, and American Indians, and includes both men and minority women.

# 2. SPECIFIC AFFIRMATIVE ACTION STEPS:

No contractor shall be found to be in noncompliance solely on account of its failure to meet its goals, but will be given an opportunity to demonstrate that the contractor has instituted all the specific affirmative action steps specified and has made every good faith effort to make these steps work toward the attainment of its goals within the timetables, all to the purpose of expanding minority and female utilization in its aggregate workforce. A contractor, who fails to comply with its obligation under the Equal Opportunity Clause of its contract and fails to achieve its commitments to the goals for minority and female utilization has the burden of proving that it has engaged in an Affirmative Action Program directed at increasing minority and female utilization and that such efforts were at least as extensive and as specific as the following:

a. The Contractor should have notified minority and female organizations when employment opportunities were available and should have maintained records of the organization's response.

- b. The Contractor should have maintained a file of the names and addresses of each minority and female referred to it by any individual or organization and what action was taken with respect to each such referred individual, and if the individual was not employed by the Contractor, the reasons. If such individual was sent to the union hiring hall for referral and not referred back by the union or if referred, not employed by the Contractor, the file should have documented this and their reasons.
- c. The Contractor should have promptly notified the Department of Public Works, and the Division of Small Business Opportunity when the union or unions with which the Contractor has collective bargaining agreements did not refer to the contractor a minority or female sent by the contractor, or when the Contractor has other information that the union referral process has impeded efforts to meet its goals.
- d. The Contractor should have disseminated its EEO policy within its organization by including it in any employee handbook or policy manual; by publicizing it in company newspapers and annual reports and by advertising such policy at reasonable intervals in union publications. The EEO policy should be further disseminated by conducting staff meetings to explain and discuss the policy; by posting of the policy; and by review of the policy with minority and female employees.
- e. The Contractor should have disseminated its EEO policy externally by informing and discussing it with all recruitment sources; by advertising in news media, specifically including minority and female news media; and by notifying and discussing it with all subcontractors.
- f. The Contractor should have made both specific and reasonably recurrent written and oral recruitment efforts. Such efforts should have been directed at minority and female organizations, schools with substantial minority and female enrollment, and minority and female recruitment and training organizations within the Contractor's recruitment area.
- g. The Contractor should have evidence available for inspection that all tests and other selection techniques used to select from among candidates for hire, transfer, promotion, training, or retention are being used in a manner that does not violate the OFCCP Testing Guidelines in 41 CFR Part 60-3.
- h. The Contractor should have made sure that seniority practices and job classifications do not have a discriminatory effect.
- i. The Contractor should have made certain that all facilities are not segregated by race.
- j. The Contractor should have continually monitored all personnel activities to ensure that its EEO policy was being carried out including the evaluation of minority and female employees for promotional opportunities on a quarterly basis and the encouragement of such employees to seek those opportunities.
- k. The Contractor should have solicited bids for subcontracts from available minority and female subcontractors engaged in the trades covered by these Bid Conditions, including circulation of minority and female contractor associations.

NOTE: The Director and the Division of Small Business Opportunity will provide technical assistance on questions pertaining to minority and female recruitment sources, minority and female community organizations, and minority and female news media upon receipt of a request for assistance from a contractor.

## 3. NON - DISCRIMINATION:

In no event may a contractor utilize the goals and affirmative action steps required in such a manner as to cause or result in discrimination against any person on account of race, color, religion, sex, marital status, national origin, age, mental or physical handicap, political opinion or affiliation.

#### 4. COMPLIANCE AND ENFORCEMENT:

In all cases, the compliance of a contractor will be determined in accordance with its obligations under the terms of these Bid Conditions. All contractors performing or to perform work on projects subject to these Bid Conditions hereby agree to inform their subcontractors in writing of their respective obligations under the terms and requirements of these Bid Conditions, including the provisions relating to goals of minority and female employment and training.

# B. CONTRACTORS SUBJECT TO THESE BID CONDITIONS:

In regard to these Bid Conditions, if the Contractor meets the goals set forth therein or can demonstrate that it has made every good faith effort to meet these goals, the Contractor shall be presumed to be in compliance with Article III, Division 2 of Chapter 28 of the Revised Municipal Code, the implementing regulations and its obligations under these Bid Conditions. In the event, no formal sanctions or proceedings leading toward sanctions shall be instituted unless the contracting or administering agency otherwise determines that the contractor is violating the Equal Opportunity Clause.

- 1. Where the Office of Contract Compliance finds that a contractor failed to comply with the requirements of Article III, Division 2 of Chapter 28 of the Revised Municipal Code or the implementing regulations and the obligations under these Bid Conditions, and so informs the Manager, the Manager shall take such action and impose such sanctions, which include suspension, termination, cancellation, and debarment, as may be appropriate under the Ordinance and its regulations. When the Manager proceeds with such formal action it has the burden of proving that the Contractor has not met the goals contained in these Bid Conditions. The Contractor's failure to meet its goals shall shift to it the requirement to come forward with evidence to show that it has met the good faith requirements of these Bid Conditions.
- 2. The pendency of such proceedings shall be taken into consideration by the Department of Public Works in determining whether such contractor can comply with the requirements of Article III, Division 2 of Chapter 28 of the Revised Municipal Code, and is therefore a "responsible prospective contractor".
- 3. The Division of Small Business Opportunity shall review the Contractor's employment practices during the performance of the contract. If the Division of Small Business Opportunity determines that the Contractor's Affirmative Action Plan is no longer an acceptable program, the Director shall notify the Manager.

# C. OBLIGATIONS APPLICABLE TO CONTRACTORS:

It shall be no excuse that the union with which the Contractor has a collective bargaining agreement providing for exclusive referral failed to refer minority or female employees. Discrimination in referral for employment, even if pursuant to provisions of a collective bargaining agreement, is prohibited by the National Labor Relations Act, as amended, Title VI of the Civil Rights Act of 1964, as amended, and Article III, Division 2 of Chapter 28 of the Revised Municipal Code. It is the policy of the Department of Public Works that contractors have a responsibility to provide equal employment opportunity, if they wish to participate in City and County of Denver contracts. To the extent they have delegated the responsibility for some of their employment practices to a labor organization and, as a result, are prevented from meeting their obligations pursuant to Article III, Division 2, Chapter 28 of the Revised Municipal Code, such Contractors cannot be considered to be in compliance with Article III, Division 2, Chapter 28 of the Revised Municipal Code, or its implementing rules and regulations.

# D. GENERAL REQUIREMENTS:

Contractors are responsible for informing their subcontractors in writing regardless of tier, as to their respective obligations. Whenever a Contractor subcontracts a portion of work in any trade covered by these Bid Conditions, it shall include these Bid Conditions in such subcontracts and each subcontractor shall be bound by these Bid Conditions to the full extent as if it were the prime contractor. The Contractor shall not, however, be held accountable for the failure of its subcontractors to fulfill their obligations under these Bid Conditions. However, the prime contractor shall give notice to the Director of any refusal or failure of any subcontractor to fulfill the obligations under these Bid Conditions. A subcontractor's failure to comply will be treated in the same manner as such failure by a prime contractor.

- 1. Contractors hereby agree to refrain from entering into any contract or contract modification subject to Article III, Division 2, Chapter 28 of the Revised Municipal Code with a contractor debarred from, or who is determined not to be a "responsive" bidder for the City and County of Denver contracts pursuant to the Ordinance.
- 2. The Contractor shall carry out such sanctions and penalties for violation of these Bid Conditions and the Equal Opportunity Clause including suspension, termination and cancellation of existing subcontracts and debarment from future contracts as may be ordered by the Manager pursuant to Article III, Division 2, Chapter 28 of the Revised Municipal Code and its implementing regulations.
- 3. Nothing herein is intended to relieve any contractor during the term of its contract from compliance with Article III, Division 2, Chapter 28 of the Revised Municipal Code, and the Equal Opportunity Clause of its contract with respect to matters not covered in these Bid Conditions.
- 4. Contractors must keep such records and file such reports relating to the provisions of these Bid Conditions as shall be required by the Office of Contract Compliance.
- 5. Requests for exemptions from these Bid Conditions must be made in writing, with justification, to the Manager of Public Works, 201 W. Colfax, Dept. 608, Denver, Colorado 80202, and shall be forwarded through and with the endorsement of the Director.

# CITY AND COUNTY OF DENVER

## DEPARTMENT OF PUBLIC WORKS

## **CONTRACT NO. 201844724**

## SOUTH BOND PAVING

# **CONTRACT**

**THIS CONTRACT AND AGREEMENT**, made and entered into by and between the City and County of Denver, a municipal corporation of the State of Colorado, hereinafter referred to as the "City," party of the first part, and,

Martin Marietta Materials, Inc. 1627 Cole Boulevard Suite 200 Lakewood, Colorado 80401

hereinafter referred to as the "Contractor," party of the second part,

WITNESSETH, commencing on November 5, 2018, and for at least three (3) days the City advertised that sealed bids would be received for furnishing all labor, tools, supplies, equipment, materials, and everything necessary and required for the following:

# CONTRACT NO. 201844724 SOUTH BOND PAVING

**WHEREAS**, bids pursuant to said advertisement have been received by the Manager of Public Works, who has recommended that a Contract for said work be made and entered into with the above named Contractor who was the lowest, responsive, qualified bidder therefore, and

WHEREAS, said Contractor is now willing and able to perform all of said work in accordance with said advertisement and its bid.

**NOW THEREFORE**, in consideration of the compensation to be paid the Contractor, the mutual agreements hereinafter contained, and subject to the terms hereinafter stated, it is mutually agreed as follows:

# 1. CONTRACT DOCUMENTS

It is agreed by the parties hereto that the following list of documents, instruments, technical specifications, plans, drawings and other materials which are attached hereto and bound herewith, incorporated herein by reference or otherwise referenced in these documents constitute and shall be referred to either as the "Contract Documents" or the "Contract," and all of said documents, instruments, technical specifications, Plans, Drawings and other materials taken together as a whole constitute the Contract between the parties hereto, and they are as fully a part of this agreement as if they were set out verbatim and in full herein:

Advertisement of Notice of Invitation for Bids
Instructions to Bidders
Commitment to M/WBE Participation
Article III, Divisions 1, 2, and 3 of Chapter 28, D.R.M.C.
Bid Bond
Addenda (as applicable)

Equal Employment Opportunity Provisions (Appendix A and Appendix F)

Bid Form

Contract Form

General Contract Conditions

Special Contract Conditions

Performance and Payment Bond

Notice to Apparent Low Bidder

Notice to Proceed

Contractor's Certification of Payment Form

Final/Partial Lien Release Form

Certificate of Contract Release

Change Orders (as applicable)

Federal Requirements (as applicable)

Prevailing Wage Rate Schedule(s)

**Technical Specifications** 

Contract Drawings

Accepted Shop Drawings

# 2. SCOPE OF WORK

The Contractor agrees to and shall furnish all labor, tools, supplies, equipment, materials and everything necessary for and required to do, perform and complete all of the Work described, drawn, set forth, shown and included in said Contract Documents.

## 3. TERMS OF PERFORMANCE

The Contractor agrees to undertake the performance of the Work under this Contract within ten (10) days after being notified to commence work by issuance of a Notice to Proceed in substantially the form contained herein from the Manager and agrees to fully complete said Work within **200** (Two Hundred Days) consecutive calendar days from the effective date of said Notice, plus such extension or extensions of time as may be granted in accordance with the provisions of the General Contract Conditions and any applicable Special Contract Conditions.

# 4. TERMS OF PAYMENT

The City agrees to pay the Contractor for the performance of all of the Work required under this Contract, and the Contractor agrees to accept as the Contractor's full and only compensation therefore, such sum or sums of money as may be proper in accordance with the price or prices set forth in the Contractor's Bid Form hereto attached and made a part hereof for **bid item numbers** 202-00240 through 626-01103 (Twenty-Four [24]) total bid items, the total estimated cost thereof being Four Million Six Hundred Twenty-Six Thousand Four Hundred Eighty-Four Dollars and Eighty Cents (\$4,626,484.80). Adjustments to said Contract Amount and payment of amounts due hereunder shall be made in accordance with the provisions of the General Contract Conditions and any applicable Special Contract Conditions.

# 5. NO DISCRIMINATION IN EMPLOYMENT

In connection with the performance of work under this contract, the Contractor may not refuse to hire, discharge, promote or demote, or discriminate in matters of compensation against any person otherwise qualified, solely because of race, color, religion, national origin, gender, age, military status, sexual orientation, gender identity or gender expression, marital status, or physical or mental disability. The Contractor shall insert the foregoing provision in all subcontracts.

# 6. COMPLIANCE WITH M/WBE REQUIREMENT

This Contract is subject to all applicable provisions of Divisions 1 and 3 of Article III, of Chapter 28, Denver Revised Municipal Code (D.R.M.C.), designated as Sections 28-31 – 28-36 and 28-52 – 28-90 D.R.M.C. and referred to in this Contract as the "M/WBE Ordinance". Without limiting the general applicability of the foregoing, the Contractor acknowledges its continuing duty, pursuant to Sections 28-72, 28-73 and 28-75 of the D.R.M.C., to maintain throughout the duration of this Contract, compliance with the level of minority and Woman business enterprise participation, upon which the City approved the award of this Contract to the Contractor and the Contractor further acknowledges that failure to maintain such participation commitments or otherwise comply with the requirements of the M/WBE Ordinance shall subject the Contractor to sanctions in accordance with Section 28-77 of the D.R.M.C. Nothing contained in this

provision or in the M/WBE Ordinance shall negate the City's right to prior approval of subcontractors, or substitutes therefore, under this Contract

## 7. WAGE RATE REQUIREMENTS

In performance of all Work hereunder, the Contractor agrees to comply with and be bound by all requirements and conditions of the City's Payment of Prevailing Wages Ordinance, Sections 20-76 through 20-79, D.R.M.C. and any determinations made by the City pursuant thereto.

#### 8. APPLICABILITY OF LAWS

The Agreement between the Contractor and the City shall be deemed to have been made in the City and County of Denver, State of Colorado and shall be subject to, governed by, and interpreted and construed by or in accordance with the laws of the State of Colorado and the Charter, Revised Municipal Code, Rules, Regulations, Executive Orders and fiscal rules of the City. As such, the Contractor shall at all times comply with the provisions of the Charter, Revised Municipal Code, Rules, Regulations, Executive Orders and fiscal rules of the City, and those State of Colorado and Federal Laws, Rules and Regulations, which in any manner limit, control or apply to the actions or operations of the Contractor, any subcontractors, employees, agents or servants of the Contractor engaged in the Work or affecting the materials and equipment used in the performance of the Work, as the same may be, from time to time, promulgated, revised or amended. The Charter and Revised Municipal Code of the City and County of Denver, as the same may be amended from time to time, are hereby expressly incorporated into this Agreement as if fully set out herein by this reference.

# 9. APPROPRIATION

The amount of money, which has been appropriated and encumbered for the purpose of this contract, to date, is equal to or in excess of the Contract Amount. The Manager, upon reasonable written request, will advise the Contractor in writing of the total amount of appropriated and encumbered funds, which remain available for payment for all Work under the Contract.

The issuance of any change order or other form or order or directive by the City which would cause the aggregate payable under the contract to exceed the amount appropriated for the contract is expressly prohibited. In no event shall the issuance of any change order or other form of order or directive by the City be considered valid or binding if it requires additional compensable work to be performed, which work will cause the aggregate amount available under the Contract to exceed the amount appropriated and encumbered for this Contract, unless and until such time as the Contractor has been advised in writing by the Manager that a lawful appropriation, sufficient to cover the entire cost of such additional work, has been made.

It shall be the responsibility of the Contractor to verify that the amounts already appropriated for this Contract are sufficient to cover the entire cost of such work, and any work undertaken or performed in excess of the amount appropriated is undertaken or performed in violation of the terms of this contract, without the proper authorization for such work, and at the Contractor's own risk.

# 10. APPROVALS

In the event this Contract calls for the payment by the City of five hundred thousand dollars (\$500,000.00) or more, approval by the Board of Councilmen of the City and County of Denver, acting by ordinance, in accordance with Section 3.2.6 of the Charter of the City and County of Denver, is and shall be an express condition precedent to the lawful and binding execution and effect and performance of this contract.

# 11. ASSIGNMENT

The Contractor shall not assign any of its rights, benefits, obligations or duties under this Contract except upon the prior written consent and approval of the Manager to such assignment.

# 12. DISPUTES RESOLUTION PROCESS

It is the express intention of the parties to this Contract that all disputes of any nature whatsoever regarding the Contract including, but not limited to, any claims for compensation or damages arising out of breach or default under this Contract, shall be resolved by administrative hearing pursuant to the provisions of Section 56-106, D.R.M.C., or, as applicable, Section 28-33 D.R.M.C. for Minority and Woman Business Enterprise disputes. The Contractor expressly agrees that this dispute resolution process is the only dispute resolution mechanism that will be recognized by the parties for any claims put forward by the Contractor, notwithstanding any other claimed theory of entitlement on the part of the Contractor or its subcontractors or suppliers.

# 13. CONTRACT BINDING

It is agreed that this Contract shall be binding on and inure to the benefit of the parties hereto, their heirs, executors, administrators, assigns and successors.

# 14. PARAGRAPH HEADINGS

The captions and headings set forth herein are for convenience of reference only and shall not be construed so as to define or limit the terms and provisions hereof.

## 15. SEVERABILITY

It is understood and agreed by the parties hereto that, if any part, term, or provision of this Contract, except for the provisions of this Contract requiring prior appropriation and limiting the total amount to be paid by the City, is by the courts held to be illegal or in conflict with any law of the State of Colorado, the validity of the remaining portions or provisions shall not be affected, and the rights and obligations of the parties shall be construed and enforced as if the Contract did not contain the particular part, term or provision held to be invalid.

## 16. ELECTRONIC SIGNATURES AND ELECTRONIC RECORDS

Contractor consents to the use of electronic signatures by the City. The Agreement, and any other documents requiring a signature hereunder, may be signed electronically by the City in the manner specified by the City. The Parties agree not to deny the legal effect or enforceability of the Agreement solely because it is in electronic form or because an electronic record was used in its formation. The Parties agree not to object to the admissibility of the Agreement in the form of an electronic record, or a paper copy of an electronic document, or a paper copy of a document bearing an electronic signature, on the ground that it is an electronic record or electronic signature or that it is not in its original form or is not an original.

<b>Contract Control Number:</b>	
IN WITNESS WHEREOF, the parties h Denver, Colorado as of	ave set their hands and affixed their seals at
SEAL	CITY AND COUNTY OF DENVER
ATTEST:	By
APPROVED AS TO FORM:	REGISTERED AND COUNTERSIGNED
	By
By	
	By



Contract Control Nu	mber: 201844724
Vendor Name:	Martin Marietta Materials, Inc.
	By: Most Trenum
	Name: ABBOTT LAWRENCE (please print)
	Title: DIVISION PRESIDENT (please print)
	ATTEST: [if required]
	By: Stycni H. Man
	Name: STEFANIE Kummet (please print)
	Title: Job Cost Admin. (please print)



# CITY AND COUNTY OF DENVER DEPARTMENT OF PUBLIC WORKS

# **General Contract Conditions**

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# CITY AND COUNTY OF DENVER

## DEPARTMENT OF PUBLIC WORKS

## SPECIAL CONTRACT CONDITIONS

# SC-1 CONSTRUCTION SPECIFICATIONS

Except as amended herein or in the attached Technical Specifications, all Work performed under the terms of this Contract shall be governed by the applicable provisions of the following latest editions:

## City and County of Denver:

Standard Specifications for Construction, GENERAL CONTRACT CONDITIONS, 2011 Edition.

Transportation Standards and Details for the Engineering Division

City and County of Denver Traffic Standard Drawings

# Wastewater Management Division

- Standard Detail Drawings
- Public Works Wastewater Capital Projects Management Standard Construction Specifications

# **Colorado Department of Transportation:**

Standard Specifications for Road and Bridge Construction (Sections 200 through 700 of the 2011 Edition)

# Federal Highway Administration:

Manual on Uniform Traffic Control Devices for Streets & Highways (MUTCD)

## Building & Fire Codes:

Building Code of the City and County of Denver (International Building Code 2015 Series, City and County of Denver Amendments 2016)

National Fire Protection Association Standards
(As referenced in the Building Code of the City and County of Denver)

The aforementioned City and County of Denver documents are available for review at the Capital Projects Management Office, 201 W. Colfax Ave., Dept. 506, (5<sup>th</sup> floor), Denver, CO 80202. The *Standard Specifications for Construction*, *GENERAL CONTRACT CONDITIONS* is available at: <a href="https://www.denvergov.org/content/denvergov/en/contract-administration/contractor-resources.html">https://www.denvergov.org/content/denvergov/en/contract-administration/contractor-resources.html</a>. *Transportation Standards and Details for the Engineering Division* and the Wastewater Management Division – *Standard Detail Drawings*, are available at <a href="http://www.denvergov.org">http://www.denvergov.org</a>.

The "Colorado Department of Transportation Standard Specifications for Road and Bridge Construction" is available for review on CDOT's website at <a href="http://www.coloradodot.info/">http://www.coloradodot.info/</a> and can be purchased from the Colorado Department of Transportation.

The Manual on Uniform Traffic Control Devices for Streets & Highways is available for review at the Federal Highway Administration Website at: <a href="www.fhwa.dot.gov">www.fhwa.dot.gov</a>, The FHWA website also contains purchasing information.

### SC-2 DEPUTY MANAGER / CITY ENGINEER

General condition 109 DEPUTY MANAGER is hereby deleted in its entirety and replaced with the following:

The "Deputy Manager" means the official who reports directly to the Manager and exercises supervisory responsibility in the City agency defined in Title 2 herein that is responsible for the Project. The Manager hereby designates the City Engineer as the Deputy Manager for purposes of this Contract. The City Engineer shall have responsibility for this Project and shall undertake all duties, responsibilities, rights and authority, including specific actions and decisions, delegated to the Deputy Manager under the various terms and conditions of this Contract.

## SC-3 ENGINEERING DIVISION / CITY ENGINEER

The Engineering Division is a unit of the Department of Public Works and is supervised by the City Engineer, who is subordinate to the Manager of Public Works. This Division is responsible for the planning, design, construction, operation and maintenance of all of the City's transportation facilities and the planning, design and construction of all of the City's wastewater facilities, except for the City's Municipal Airport System. All other references to the Transportation Division or the Deputy Manager of Public Works for Transportation are deleted and replaced with references to the Engineering Division and City Engineer, respectively.

## SC-4 WASTEWATER MANAGEMENT DIVISION

The Wastewater Management Division is a unit of the Department of Public Works and is supervised by the Deputy Manager of Public Works for Wastewater Management, who is subordinate to the Manager of Public Works. This Division is responsible for the operation and maintenance of the City's wastewater facilities.

## SC-5 CITY DELEGATION OF AUTHORITY

With reference to General Contract Condition 109, DEPUTY MANAGER and General Contract Condition 212, CITY'S CONTRACT ADMINISTRATION LINE OF AUTHORITY, the Manager hereby designates the City Engineer as the City official responsible for those certain actions and decisions designated as the responsibility of the Deputy Manager under the General Conditions and delegates to the City Engineer the authority necessary to undertake those responsibilities under this Contract. The Director shall have supervisory responsibility over the Project Manager. Additionally, Contractor questions concerning the Plans and Technical Specifications shall be directed to:

Denver Department of Public Works / Engineering Division,

<u>City Project Manager</u> <u>Telephone</u>

Norm Shaw (303) 446-3546

## SC-6 LIQUIDATED DAMAGES

Should the Contractor fail to complete all Work within the Contract Time allocated under the Contract Form at Paragraph 3, TERMS OF PERFORMANCE, the Contractor shall become liable to the City and County of Denver for liquidated damages, and not as a penalty, at the rate of \$500.00 for each day that the Contractor exceeds the time limits herein specified, all in accordance with provisions of General Contract Condition 602, LIQUIDATED DAMAGES; ADMINISTRATIVE COSTS; ACTUAL DAMAGES.

Representative hourly rates for the City administrative costs described in General Contract Condition 602.2 shall be as follows for this Project:

Project Manager \$69 per hour
Project Engineer \$63 per hour
Inspector \$49 per hour
Surveying, if necessary \$100 per hour

## SC-7 SUBCONTRACTS

In accordance with General Contract Condition 501, SUBCONTRACTS, no limit shall apply to that percentage of the Work, which may be sublet providing that the subcontractors receive prior approval in accordance with General Contract Condition 502, SUBCONTRACTOR ACCEPTANCE.

## SC-8 RESERVED

## SC-9 PAYMENTS TO CONTRACTORS

The application for payment shall be submitted through Textura® Corporations Construction Management Website. Contractor recognizes and agrees that it shall be required to use the Textura Construction Payment Management System for this Project to request payment from the City and to pay subcontractors. All certified subcontractors or suppliers who are listed for participation towards any assigned program goal must be paid via Textura®. Contractor further agrees that, to the fullest extent possible within Textura, the City shall be entitled to all non-Confidential records, reports, data and other information related to the project that are available to Contractor through Textura, including, but not limited to, information related to Contractor and subcontractor billings. To that end, Contractor agrees it will activate any available settings within Textura necessary to grant the City access to such non-Confidential information related to the contract and the project. Applications for payment shall be based on the Contract Unit Prices or the approved Schedule of Values described in GC 903.1

In accordance with General Contract Condition 902, PAYMENT PROCEDURE, the party(ies) responsible for review of all Pay Applications shall be:

Agency/FirmNameTelephonePublic WorksNorm Shaw(303) 446-3546

In accordance with General Contract Condition 906, APPLICATIONS FOR PAYMENT, each Application submitted shall include the following:

- 1. The estimate of Work completed shall be based on the approved schedule of values or unit prices, as applicable, and the percent of the Work complete.
- 2. Each Application for Payment shall include each and every independent subcontractor's payroll information including pay dates and pay amounts.
- 3. The Contractor shall also submit to the Auditor and other appropriate officials of the City in a timely fashion, information required by General Contract Condition 1004, REPORTING WAGES PAID.
- 4. Applications for Payment must be accompanied by completed Partial or Final Claim Release Form, as appropriate, from EACH subcontractor and supplier, <u>AND</u> the Contractors' Certification of Payment Form (CCP), unless an exception is approved pursuant to General contract condition 907.

The forms, Final/Partial Release and Certificate of Payment (Subcontractor/Supplier) and the Contractor's Certification of Payment (CCP), both of which must be used are attached below. If subcontractor or supplier payments are disbursed via Textura® CPM, those systems generated Release and CCP forms are acceptable.

## DEPARTMENT OF PUBLIC WORKS

## FINAL/PARTIAL RELEASE AND CERTIFICATE OF PAYMENT (SUBCONTRACTOR/SUPPLIER)

	Date:	, 20 .
(PROJECT NO. and NAME)		
	Subcontract #:	
(NAME OF CONTRACTOR)		
	Subcontract Value: \$_	: t: \$
	Last Progress Paymen	t: \$
(NAME OF SUBCONTRACTOR/SUPPLIER)	Date:	·
Check Applicable Box:	Total Paid to Date: \$_	<u>.</u>
[ ] MBE [ ] WBE	Date of Last work:	<u> </u>
The Undersigned hereby certifies that all costs, charges or expension undersigned for any work, labor or services performed and for any material referenced Project or used in connection with the above referenced in full.	naterials, supplies or equipm	ent provided on the above
The Undersigned further certifies that each of the undersigned's subcincurred, on their behalf, costs, charges or expenses in connection referenced Project have been duly paid in full.		
In consideration of \$ representing the Last Progress Payr the Total Paid to Date, also referenced above, and other good and undersigned this day of, 20, the Und County of Denver (the "City"), the above referenced City Project referenced Contractor from all claims, liens, rights, liabilities, demandered the performance of the contractor of the contract	valuable consideration rece lersigned hereby releases an ct, the City's premises and ands and obligations, wheth	ived and accepted by the d discharges the City and property and the above
As additional consideration for the payments referenced above, the wood harmless the City, its officers, employees, agents and assigns a all costs, losses, damages, causes of action, judgments under the subwith any claim or claims against the City or the Contractor which arientees and which may be asserted by the Undersigned or any of its representatives, officers, agents, or employees.	and the above-referenced Co ocontract and expenses arising ise out of the Undersigned's	intractor from and agains ing out of or in connection performance of the Worl
t is acknowledged that this release is for the benefit of and may be r	relied upon by the City and t	he referenced Contractor
The foregoing shall not relieve the undersigned of any obligation unas the subcontract may have been amended, which by their nature including, without limitation, warranties, guarantees, insurance required	survive completion of the U	
STATE OF COLORADO ) ss. CITY OF)		
	(Name of Subcontractor)	
Signed and sworn before me this day of, 20 By:		
<u>.</u>		
My Commission Expires		

DENIVED.					Office of Economic Development					
<b>DENVER</b>		City and County of Denver						Comp	oliance Unit	
OFFICE OF ECONO	MIC							201 W. Colfax Ave	e., Dept. 907	
DEVELOPMENT		Division of Small Business Opportunity					Denver, CO 80202			
							Phone: 72	20.913.1999		
		Contractor's/Consultant's Certification of Payment (CCP)								
Prime Contractor or Consultant:			Phone:			Project Manager:				
Pay Application #:		Pay Period:				Amount Requested: \$				
Project #:		Project Name:								
Current Completion Date:	Percent Complete:				Prepared By:					
(I) - Original Contract Amount: \$					(II) - Curre	ent Contract Amount: \$				
		A	В	C	U	E	ŀ	G	Н	
Prime/Subcontractor/Supplier Name	M/W/S/E DBE/ NON	Original Contract Amount	% Bid (A/I)	Current Contract Amount including Amendments	% Revised (C/II)	Requested Amount of this Pay Application	Amount Paid on the Previous Pay Application #	Net Paid To Date	Paid % Achieved (G/II)	
Totals										
The undersigned certifies that the info and listed herein. Please use an add				rue, accurate and that the	payment	s shown have been made	to all subcontractors a	ind suppliers used on th	nis project	
Prepared By (Signature):						Date:				
				Page	of					
	COMP-FRM-027 rev 031816									



## Instructions for Completing the Contractor/Consultant Certification of Payment Form

Office of Economic Development Division of Small Business Opportunity Compliance Unit 201 W. Colfax Ave. Dept. 907 Denver, CO 80202 Phone: 720-913-1999 DSBO@denvergov.org

Note: The attached Contractor/Consultant Certification of Payment form must be completed by the Contractor/
Subconsultant and all subcontractors/subconsultant or suppliers used on the project at any tier and submitted with each
pay application. The Contractor/Consultant is responsible for the accuracy of all information provided and is required to
have each subcontractor/subconsultant or supplier fill out the appropriate forms. Please be sure to complete all
information requested at the top of the form, including the name of the person who prepared this form.

If you reproduce this form, you must continue to list each of the originally listed firms, as well as any additional firms used during the performance period of the contract. Please complete an additional CCP if there is second tier-ing involved.

If you have any questions, please call the Compliance Unit of DSBO at 720.913.1999.

Instructions for Completing the Contractor/Consultant Certification of Payment Form, per Column

Contractor/Subcontractor or Subconsultant/Supplier Name: In the space provided, list all subcontractors/

subconsultants and suppliers used on the project. For all M/W/S/E/DBEs use the exact name listed in the

DSBO Directory.

M/W/S/E/DBE/NON: For each name listed, indicate whether the entity is a certified M/W/S/E/DBE.

Column A: Provide the contract amount, as listed at bid time, for the Contractor/Consultant and each

subcontractor/subconsultant or supplier.

Column B: Provide the percentage portion of each listed subcontractor/subconsultant or supplier contract amount

(Column A) compared to the total original contract amount in (I).

Column C: Provide the original contract amount (Column A) for each subcontractor/subconsultant or supplier plus any

awarded alternate and/or change order amounts applicable. If an alternate/change order does not apply

to the listed firm, re-enter the original contract amount (Column A).

Column D: Provide the percent portion of each listed subcontractor/subconsultant or supplier contract amount

(Column C) compare to the current total contract amount in (II).

Column E: Provide the amount requested for work performed or materials supplied by each listed

subcontractor/subconsultant or supplier for this pay application. The sum of the items in this column

should equal the estimated amount requested for this pay application.

Column F: Provide the amount paid to each subcontractor/subconsultant or supplier on the previous pay

application. Enter the previous pay application number in the column heading. The sum of the items listed in this column should equal the warrant amount paid to the Contractor/Consultant on the previous pay application. The amounts paid to the subcontractor/subcontractor or suppliers should be the actual

amount of each check issued.

Column G: Provide the net paid to date for the Contractor/Subconsultant and each listed subcontractor/subconsultant

or supplier.

Column H: Provide the percent portion of the net paid to date (Column G) for the Contractor/Subconsultant and each

listed subcontractor/subconsultant or supplier of the current total contract amount in (II).

Rev 031816

### SC-10 CONTRACT FORMS

In accordance with the terms and conditions of the Contract Documents, the City requires the use of certain form documents in complying with or satisfying various obligations, notifications and conditions in contracting with the City or performing Work hereunder. These form documents are referenced by title throughout the Contract Documents for mandatory use as directed. The following are the forms that shall be detached and utilized in accordance with the Contract Documents:

- 1. Performance and Payment Bond
- 2. Performance and Payment Bond Surety Authorization Letter (Sample)
- 3. Final/Partial Lien Release.

The following are forms that will be issued by the City during construction:

- 1. Notice to Apparent Low Bidder (Sample)
- 2. Notice to Proceed (Sample)
- 3. Certificate of Contract Release (Sample)

### SC-11 CONSTRUCTION INSPECTION BY THE CITY

General Condition 1701, CONSTRUCTION INSPECTION BY THE CITY, is modified as follows:

- .1 Persons who are employees of the City or who are under contract to the City or the City as lessee will be assigned to inspect and test the Work. These persons may perform any tests and observe the Work to determine whether or not designs, materials used, manufacturing and construction processes and methods applied, and equipment installed satisfy the requirements of the drawings and specifications, accepted Shop Drawings, Product Data and Samples, and the General Contractor's warranties and guarantees. The General Contractor shall permit these inspectors unlimited access to the Work and provide means of safe access to the Work, which cost shall be included as a Cost of the Work without any increase to the Guaranteed Maximum Price. In addition, General Contractor shall provide whatever access and means of access are needed to off-site facilities used to store or manufacture materials and equipment to be incorporated into the Work and shall respond to any other reasonable request to further the inspector's ability to observe or complete any tests. Such inspections shall not relieve the General Contractor of any of its quality control responsibilities or any other obligations under the Contract. All inspections and all tests conducted by the City are for the convenience and benefit of the City. These inspections and tests do not constitute acceptance of the materials or Work tested or inspected, and the City may reject or accept any Work or materials at any time prior to the inspections pursuant to G.C. 2002, whether or not previous inspections tests were conducted by the inspector or a City
- .2 Building Inspection will perform building code compliance inspections for structures designed for human occupancy. It is the General Contractor's responsibility to schedule and obtain these inspections. If a code compliance inspection results in identification of a condition which will be at variance to the Contract Documents, the General Contractor shall immediately notify the Project Manager and confirm such notification with formal correspondence no later than forty-eight (48) hours after the occurrence.
- .3 When any unit of government or political subdivision, utility or Railroad Corporation is to pay a portion of the cost of the Work, its respective representatives shall have the right to inspect the Work. This inspection shall not make any unit of government or political subdivision, utility or Railroad Corporation a party to the Contract, and shall not interfere with the rights of either party.

## SC-12 DISPOSAL OF NON-HAZARDOUS WASTE AT DADS

In accordance with the Landfill Agreement made between the City and Waste Management of Colorado, Inc., bidders will be required to haul dedicated loads (non-hazardous entire loads of waste) to the Denver-Arapahoe Disposal Site ("DADS") for disposal. DADS is located at Highway 30 and Hampden Avenue in Arapahoe County, Colorado. The City will pay all fees associated with such disposal but the bidder shall be responsible for the costs of transporting the loads. Non-hazardous waste is defined as those substances and materials not defined or classified as hazardous by the Colorado Hazardous Waste Commission pursuant to C.R.S. §25-15-101(6), as amended from time to time, and includes construction debris, soil and asbestos. Bidders shall not use Gun Club Road between I-70 and Mississippi Avenue as a means of access to DADS.

### SC-13 PROHIBITION ON USE OF CCA-TREATED WOOD PRODUCTS

The use of any wood products pressure-treated with chromated copper arsenate (CCA) is prohibited. Examples of CCA-treated wood products include wood used in play structures, decks, picnic tables, landscaping timbers, fencing, patios, walkways and boardwalks.

## SC-14 WAIVER OF: PART 8 OF ARTICLE 20 OF TITLE 13, COLORADO REVISED STATUTES.

The Contractor specifically waives all the provisions of Part 8 of Article 20 of Title 13, Colorado Revised Statutes regarding defects in the Work under this Construction Contract.

## SC-15 ATTORNEY'S FEES

Colorado Revised Statute 38-26-107 requires that in the event any person or company files a verified statement of amounts due and unpaid in connection with a claim for labor and materials supplied on this project, the City shall withhold from payments to the Contractor sufficient funds to insure the payment of any such claims. Should the City and County of Denver be made a party to any lawsuit to enforce such unpaid claims or any lawsuit arising out of or relating to such withheld funds, the Contractor agrees to pay to the City its costs and a reasonable attorney's fee which cost shall be included as a Cost of the Work.

Because the City Attorney Staff does not bill the City for legal services on an hourly basis, the Contractor agrees a reasonable fee shall be computed at the rate of one hundred dollars per hour of City Attorney time.

### SC-16 INSURANCE

General Condition 1601 is hereby deleted in its entirety and replaced with the following:

- Contractor agrees to secure, at or before the time of execution of this **General Conditions:** Agreement, the following insurance covering all operations, goods or services provided pursuant to this Agreement. Contractor shall keep the required insurance coverage in force at all times during the term of the Agreement, or any extension thereof, during any warranty period, and for eight (8) years after termination of the Agreement. The required insurance shall be underwritten by an insurer licensed or authorized to do business in Colorado and rated by A.M. Best Company as "A-"VIII or better. Each policy shall contain a valid provision or endorsement requiring notification to the City in the event any of the required policies be canceled or non-renewed before the expiration date thereof. Such written notice shall be sent to the parties identified in the Notices section of this Agreement. Such notice shall reference the City contract number listed on the signature page of this Agreement. Said notice shall be sent thirty (30) days prior to such cancellation or non-renewal unless due to non-payment of premiums for which notice shall be sent ten (10) days prior. If such written notice is unavailable from the insurer, contractor shall provide written notice of cancellation, non-renewal and any reduction in coverage to the parties identified in the Notices section by certified mail, return receipt requested within three (3) business days of such notice by its insurer(s) and referencing the City's contract number. If any policy is in excess of a deductible or self-insured retention, the City must be notified by the Contractor. Contractor shall be responsible for the payment of any deductible or self-insured retention. The insurance coverages specified in this Agreement are the minimum requirements, and these requirements do not lessen or limit the liability of the Contractor. The Contractor shall maintain, at its own expense, any additional kinds or amounts of insurance that it may deem necessary to cover its obligations and liabilities under this Agreement.
- **Proof of Insurance:** Contractor shall provide a copy of this Agreement to its insurance agent or broker. Contractor may not commence services or work relating to the Agreement prior to placement of coverage. Contractor certifies that the certificate of insurance attached as part of the Contract Documents, preferably an ACORD certificate, complies with all insurance requirements of this Agreement. The City requests that the City's contract number be referenced on the Certificate. The City's acceptance of a certificate of insurance or other proof of insurance that does not comply with all insurance requirements set forth in this Agreement shall not act as a waiver of Contractor's breach of this Agreement or of any of the City's rights or remedies under this Agreement. The City's Risk Management Office may require additional proof of insurance, including but not limited to policies and endorsements.
- (3) <u>Additional Insureds:</u> For Commercial General Liability and Auto Liability, Contractor and subcontractor's insurer(s) shall name the City and County of Denver, its elected and appointed officials, employees and volunteers as additional insured.
- **(4)** <u>Waiver of Subrogation:</u> For all coverages, Contractor's insurer shall waive subrogation rights against the City.
- (5) <u>Subcontractors and Subconsultants:</u> All subcontractors and subconsultants (including independent contractors, suppliers or other entities providing goods or services required by this Agreement) shall be subject to all of the requirements herein and shall procure and maintain the same coverages required of the Contractor. Contractor shall include all such subcontractors as additional insured under its policies (with the exception of Workers' Compensation) or shall ensure that all such subcontractors and subconsultants maintain the required

coverages. Contractor agrees to provide proof of insurance for all such subcontractors and subconsultants upon request by the City.

- **Workers' Compensation/Employer's Liability Insurance:** Contractor shall maintain the coverage as required by statute for each work location and shall maintain Employer's Liability insurance with limits of \$100,000 per occurrence for each bodily injury claim, \$100,000 per occurrence for each bodily injury caused by disease claim, and \$500,000 aggregate for all bodily injuries caused by disease claims. Contractor expressly represents to the City, as a material representation upon which the City is relying in entering into this Agreement, that none of the Contractor's officers or employees who may be eligible under any statute or law to reject Workers' Compensation Insurance shall effect such rejection during any part of the term of this Agreement, and that any such rejections previously effected, have been revoked as of the date Contractor executes this Agreement.
- (7) <u>Commercial General Liability:</u> Contractor shall maintain a Commercial General Liability insurance policy with limits of \$1,000,000 for each occurrence, \$1,000,000 for each personal and advertising injury claim, \$2,000,000 products and completed operations aggregate, and \$2,000,000 policy aggregate.
- (8) <u>Business Automobile Liability:</u> Contractor shall maintain Business Automobile Liability with limits of \$1,000,000 combined single limit applicable to all owned, hired and non-owned vehicles used in performing services under this Agreement

## (9) Additional Provisions:

- (a) For Commercial General Liability, the policies must provide the following:
  - (i) That this Agreement is an Insured Contract under the policy;
  - (ii) Defense costs in excess of policy limits;
  - (iii) A severability of interests or separation of insureds provision (no insured vs. insured exclusion); and
  - (iv) A provision that coverage is primary and non-contributory with other coverage or self-insurance maintained by the City.
- (b) For claims-made coverage:
  - (i) The retroactive date must be on or before the contract date or the first date when any goods or services were provided to the City, whichever is earlier
- (c) Contractor shall advise the City in the event any general aggregate or other aggregate limits are reduced below the required per occurrence limits. At their own expense, and where such general aggregate or other aggregate limits have been reduced below the required per occurrence limit, the Contractor will procure such per occurrence limits and furnish a new certificate of insurance showing such coverage is in force.

## SC-17 GREENPRINT DENVER REQUIREMENTS

In accordance with the City and County of Denver Executive Order 123: Greenprint Denver Office and Sustainability Policy, as amended, Contractor shall adhere to sections of Executive Order 123 pertinent to the construction of the built environment. This includes but is not limited to: all construction and renovation of buildings shall follow instructions and memorandum for high performance buildings; horizontal projects shall include the use of fly ash concrete and recycled aggregate where possible; and, all projects shall recycle construction and demolition waste, and install materials that contain recycled content whenever possible using the U.S. Green Building Council Leadership in Energy and Environmental Design (LEED) as guidance. Non-hazardous solid waste that is eligible for reuse or recycling is not subject to the DADS disposal requirement defined in SC-12.

A completed "Greenprint Denver Closeout Form for Construction Projects" shall be delivered to the Project Manager as a submittal requirement of Final Acceptance.

http://www.denvergov.org/constructioncontracts/Home/ContractorResources/tabid/443154/Default.aspx

## CITY AND COUNTY OF DENVER DEPARTMENT OF PUBLIC WORKS

### PERFORMANCE AND PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned Martin Marietta Materials, Inc., 1627 Cole Blvd Suite 200, Lakewood, Colorado 80401, a corporation organized and existing under and by virtue of the laws of the State of Colorado, hereafter referred to as the "Contractor", and Liberty Mutual Insurance Company, a corporation organized and existing under and by virtue of the laws of the State of Massachusetts, and authorized to transact business in the State of Colorado, as Surety, are held and firmly bound unto the CITY AND COUNTY OF DENVER, a municipal corporation of the State of Colorado, hereinafter referred to as the "City", in the penal sum of Four Million Six Hundred Twenty-Six Thousand Four Hundred Eighty-Four Dollars and Eighty Cents (4,626,484.80), lawful money of the United States of America, for the payment of which sum, well and truly to be made, we bind ourselves and our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents;

## THE CONDITION OF THE FOREGOING OBLIGATION IS SUCH THAT:

WHEREAS, the above bounden Contractor has entered into a written contract with the aforesaid City for furnishing all labor and tools, supplies, equipment, superintendence, materials and everything necessary for and required to do, perform and complete the construction of CONTRACT NO. 201844724, SOUTH BOND PAVING, Denver, Colorado, and has bound itself to complete the project within the time or times specified or pay liquidated damages, all as designated, defined and described in the said Contract and Conditions thereof, and in accordance with the Plans and Technical Specifications therefore, a copy of said Contract being made a part hereof;

NOW, THEREFORE, if the said Contractor shall and will, in all particulars well and truly and faithfully observe, perform and abide by each and every Covenant, Condition and part of said Contract, and the Conditions, Technical Specifications, Plans, and other Contract Documents thereto attached, or by reference made a part thereof and any alterations in and additions thereto, according to the true intent and meaning in such case, then this obligation shall be and become null and void; otherwise, it shall remain in full force and effect;

PROVIDED FURTHER, that if the said Contractor shall satisfy all claims and demands incurred by the Contractor in the performance of said Contract, and shall fully indemnify and save harmless the City from all damages, claims, demands, expense and charge of every kind (including claims of patent infringement) arising from any act, omission, or neglect of said Contractor, its agents, or employees with relation to said work; and shall fully reimburse and repay to the City all costs, damages, and expenses which it may incur in making good any default based upon the failure of the Contractor to fulfill its obligation to furnish maintenance, repairs or replacements for the full guarantee period provided in the Contract Documents, then this obligation shall be null and void; otherwise it shall remain in full force and effect;

PROVIDED FURTHER, that if said Contractor shall at all times promptly make payments of all amounts lawfully due to all persons supplying or furnishing it or its subcontractors with labor and materials, rental machinery, tools or equipment used or performed in the prosecution of work provided for in the above Contract and that if the Contractor will indemnify and save harmless the City for the extent of any and all payments in connection with the carrying out of such Contract, then this obligation shall be null and void; otherwise it shall remain in full force and effect;

PROVIDED FURTHER, that if the said Contractor fails to duly pay for any labor, materials, team hire, sustenance, provisions, provender, gasoline, lubricating oils, fuel oils, grease, coal, or any other supplies or materials used or consumed by said Contractor or its subcontractors in performance of the work contracted to be done, or fails to pay any person who supplies rental machinery, tools or equipment, all amounts due as the result of the use of such machinery, tools or equipment in the prosecution of the work, the Surety will pay the same in any amount not exceeding the amount of this obligation, together with interest as provided by law;

Bond No. 016217190

Attorney-In-Fact, Rebeca L. Gómez Porras

PROVIDED FURTHER, that the said Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the Contract, or to contracts with others in connection with this project, or the work to be performed thereunder, or the Technical Specifications and Plans accompanying the same, shall in any way affect its obligation on this bond and it does hereby waive notice of any change, extension of time, alteration or addition to the terms of the Contract, or contracts, or to the work, or to the Technical Specifications and Plans.

IN WITNESS WHEREOF, said Contractor and said Surety have executed these presents as of this

Asst. Corporate

Asst. Corporate

Asst. Corporate

Asst. Corporate

Asst. Corporate

Asst. Corporate

Liberty Mutual Insurance Company

Surety

(Accompany this bond with Attorney-in-Fact's authority from the Surety to execute bond, certified to include the date of the bond).

APPROVED AS TO FORM:

day of

Attorney for the City and County of

Denver

By:

Assistant City Attorney

APPROVED FOR THE CITY AND COUNTY OF

By:

MAYDI

By:

EXECUTIVE DIRECTOR OF PURLIC WORKS

5

THIS POWER OF ATTORNEY IS NOT VALID UNLESS IT IS PRINTED ON RED BACKGROUND.

This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

Certificate No. 8138700

Liberty Mutual Insurance Company

The Ohio Casualty Insurance Company

West American Insurance Company

## **POWER OF ATTORNEY**

KNOWN ALL PERSONS BY THESE PRESENTS: That The Ohio Casualty Insurance Company is a corporation duly organized under the laws of the State of New Hampshire, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Byron Creech; Todd Crump; Rebeca L. Gomez Porras; Kristy W. Kretzschmar; Dan Welsh

each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge all of the city of Raleigh , state of NC and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 26th day of June 2018



STATE OF PENNSYLVANIA COUNTY OF MONTGOMERY

On this 26th day of June 2018, before me personally appeared David M. Carey, who acknowledged himself to be the Assistant Secretary of Liberty Mutual Insurance Company, The Ohio Casualty Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at King of Prussia, Pennsylvania, on the day and year first above written.



COMMONWEALTH OF PENNSYLVANIA

Notanal Seal Teresa Pastella, Notary Public Upper Merion Two . Montgomery County My Commission Expires March 28, 2021

The Ohio Casualty Insurance Company Liberty Mutual Insurance Company

West American Insurance Company

David M. Carey, Assistant Secretary

This Power of Attorney is made and executed pursuant to and by authority of the following By-laws and Authorizations of The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company which resolutions are now in full force and effect reading as follows:

To confirm the validity of this Power of Attorney call 1-610-832-8240 between 9:00 am and 4:30 pm EST on any business day. ARTICLE IV - OFFICERS - Section 12. Power of Attorney. Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and execution of any such instruments and to attach thereto the seal of the Corporation. When so executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

ARTICLE XIII - Execution of Contracts - SECTION 5. Surety Bonds and Undertakings. Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

Certificate of Designation - The President of the Company, acting pursuant to the Bylaws of the Company, authorizes David M. Carey, Assistant Secretary to appoint such attorneys-infact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

Authorization - By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, Renee C. Llewellyn, the undersigned, Assistant Secretary, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this

NINSU





## PERFORMANCE AND PAYMENT BOND **SURETY AUTHORIZATION** (SAMPLE)

FAX NUMBER:

720-913-3183

**TELEPHONE NUMBER:** 

720-913-3267

Assistant City Attorney 201 W. Colfax Ave. Dept 1207 Denver, Colorado 80202

RE:

(Company name)

Martin Marietta Materials, Inc.

Contract No:

201844724

Project Name:

SOUTH BOND PAVING

Contract Amount:

\$4,626,485.80

Performance and Payment Bond No.:

016217190

Dear Assistant City Attorney,

The Performance and Payment Bonds covering the above captioned project were executed by this agency, through							
Liberty	Mutual Insurance Cor	mpany			insurance cor	npany,	
on	January 9	. 2019.					

We hereby authorize the City and County of Denver, Department of Public Works, to date all bonds and powers of attorney to coincide with the date of the contract.

If you should have any additional questions or concerns, please don't hesitate to give me a call at 919.510.4746

Thank you.

Sincerely,

Rebeca L. Gómez Porras

Attorney-In-Fact

Denver Public Works/Office of the Executive Director 201 West Colfax Avenue, Dept 608 | Denver, CO 80202 www.denvergov.org/dow p. 720.865.8630 | f. 720.865.8795

311 | POCKETGOV.COM | DENVERGOV.ORG | DENVER 8 TV

This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

Certificate No. 8138703

Liberty Mutual Insurance Company

The Ohio Casualty Insurance Company

West American Insurance Company

## POWER OF ATTORNEY

KNOWN ALL PERSONS BY THESE PRESENTS: That The Ohio Casualty Insurance Company is a corporation duly organized under the laws of the State of New Hampshire, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Byron Creech; Todd Crump; Rebeca L. Gomez Porras; Kristy W. Kretzschmar; Dan Welsh

each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge all of the city of Raleigh , state of NC and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 26th day of June 2018



STATE OF PENNSYLVANIA COUNTY OF MONTGOMERY

interest rate or residual value quarantees

loan, letter of credit,

for mortgage, note,

Not valid currency

Liberty Mutual Insurance Company West American Insurance Company

David M. Carey, Assistant Secretary

The Ohio Casualty Insurance Company

On this 26th day of June 2018, before me personally appeared David M. Carey, who acknowledged himself to be the Assistant Secretary of Liberty Mutual Insurance Company, The Ohio Casualty Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at King of Prussia, Pennsylvania, on the day and year first above written.



COMMONWEALTH OF PENNSYLVANIA

Notarial Seal Teresa Pastella, Notary Public Upper Merion Two . Montgomery County My Commission Expires March 28, 2021

Teresa Pastella, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-laws and Authorizations of The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company which resolutions are now in full force and effect reading as follows:

ARTICLE IV - OFFICERS - Section 12. Power of Attorney. Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and execution of any such instruments and to attach thereto the seal of the Corporation. When so executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

ARTICLE XIII - Execution of Contracts - SECTION 5. Surety Bonds and Undertakings. Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

Certificate of Designation - The President of the Company, acting pursuant to the Bylaws of the Company, authorizes David M. Carey, Assistant Secretary to appoint such attorneys-infact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

Authorization - By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, Renee C. Llewellyn, the undersigned, Assistant Secretary, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this

Renee C. Llewellyn, Assistant Secretary



## **CERTIFICATE OF LIABILITY INSURANCE**

DATE (MM/DD/YYYY) 01/03/2019

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

	is certificate does not confer rights t							require an endorsement	. A st	tatement on
	DUCER	-			CONTA NAME:		7-			
	Marsh USA Inc.				PHONE   FAX (A/C, No, Ext): (A/C, No):					
	100 North Tryon Street, Suite 3600 Charlotte, NC 28202				E-MAIL ADDRE			(AC, NO):		
	Attn: CA NON-RESIDENT NO. OB22889				ADDRE		ELIDEDIOL AEEOE	RDING COVERAGE		NAIC#
CN1	)2458548-1.MMM-GAWX-18-19 RM201				INCLIDE		ican Insurance Co			22667
INSU	RED						Ins Co Of North A			43575
	Martin Marietta Materials, Inc. Attn: Todd Crump				100	RC: N/A	ino do di monarri	monod		N/A
	2710 Wycliff Road				INSURE					
	PO Box 30013 Raleigh, NC 27622				INSURE					
	Taloign, 110 27022				INSURE					
CO	VERAGES CER	TIFIC	CATE	NUMBER:		-004892983-01		REVISION NUMBER:		
IN CE EX	IIS IS TO CERTIFY THAT THE POLICIES DICATED. NOTWITHSTANDING ANY RE ERTIFICATE MAY BE ISSUED OR MAY ICLUSIONS AND CONDITIONS OF SUCH	EQUIF PERT POLI	REME AIN, CIES.	NT, TERM OR CONDITION THE INSURANCE AFFORD LIMITS SHOWN MAY HAVE	OF AN'	Y CONTRACT THE POLICIE REDUCED BY	OR OTHER I S DESCRIBEI PAID CLAIMS.	DOCUMENT WITH RESPECT D HEREIN IS SUBJECT TO	OT TO	WHICH THIS
INSR	TYPE OF INSURANCE	INSD	SUBR WVD			POLICY EFF (MM/DD/YYYY)		LIMIT	S	
Α	X COMMERCIAL GENERAL LIABILITY			HDOG71209659		09/30/2018	09/30/2019	EACH OCCURRENCE DAMAGE TO RENTED	\$	3,000,000
	CLAIMS-MADE X OCCUR			= =	=			PREMISES (Ea occurrence)	\$	50,000
				= =				MED EXP (Any one person)	\$	0.000.000
		==		_ = = =				PERSONAL & ADV INJURY	\$	3,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:							GENERAL AGGREGATE	\$	6,000,000
	X POLICY PRO- OTHER:			= = = =				PRODUCTS - COMP/OP AGG	\$	6,000,000
Α	AUTOMOBILE LIABILITY			ISAH25272274		09/30/2018	09/30/2019	COMBINED SINGLE LIMIT (Ea accident)	\$	5,000,000
	X ANY AUTO							BODILY INJURY (Per person)	\$	
	OWNED SCHEDULED AUTOS ONLY							BODILY INJURY (Per accident)	\$	
	X HIRED X AUTOS ONLY X AUTOS ONLY X AUTOS ONLY							PROPERTY DAMAGE (Per accident)	\$	
- 1	ASTOS CINET							(r or accident)	\$	
	UMBRELLA LIAB OCCUR							EACH OCCURRENCE	\$	
	EXCESS LIAB CLAIMS-MADE							AGGREGATE	\$	
=	DED RETENTION\$					7.0			\$	_
В	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY			WLRC6543586A (AOS)		09/30/2018	09/30/2019	X PER OTH-		
Α	ANYPROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBEREXCLUDED?	N/A		WLRC65435901 (CA)		09/30/2018	09/30/2019	E.L. EACH ACCIDENT	\$	2,000,000
	(Mandatory in NH)	"'^						E.L. DISEASE - EA EMPLOYEE	\$	2,000,000
	If yes, describe under DESCRIPTION OF OPERATIONS below							E.L. DISEASE - POLICY LIMIT	\$	2,000,000
				· = =		_111		5 g 9		= = = _
DESC	RIPTION OF OPERATIONS / LOCATIONS / VEHICL	LES (A	CORD	101, Additional Remarks Schedu	le, may b	attached if mor	e space is require	ed)		-
	outh Bond Paving, Contract Control #201844724 City and County of Denver, its Elected and Appointed	Officia	ls, Emr	ployees and Volunteers are addition	al insured	under General Li	iability and Automo	obile Liability as their interest may:	appear. it	required by written
	act with the named insured, subject to the terms and							,		= ===
CEF	RTIFICATE HOLDER				CANO	ELLATION				
	City & County of Denver Department of Denver Public Works ATTN: Diane Mora 201 W. Colfax Ave.			= = = = = = = = = = = = = = = = = = = =	THE	EXPIRATION	N DATE THE	ESCRIBED POLICIES BE CA EREOF, NOTICE WILL B Y PROVISIONS.		
	Dept. 614 Denver, CO 80202			_		RIZED REPRESE h USA Inc.	NTATIVE			

Annotte Stefani

Annette Stefani



## PERFORMANCE AND PAYMENT BOND SURETY AUTHORIZATION (SAMPLE)

FAX NUMBER: TELEPHONE NUM	720-91 BER: 720-91	
Assistant City Attorn 201 W. Colfax Ave. l Denver, Colorado 80	Dept 1207	
RE: (Company n	ame)	
Performance and Pa	Contract No: Project Name: Contract Amount: ayment Bond No.:	201844724 SOUTH BOND PAVING
Dear Assistant City A	Attorney,	
The Performance and	Payment Bonds cove	ering the above captioned project were executed by this agency, through insurance company.
on		
	the City and County ovith the date of the cor	of Denver, Department of Public Works, to date all bonds and powers of ntract.
If you should have an	y additional questions	s or concerns, please don't hesitate to give me a call at
Thank you.		
Sincerely,		

Denver Public Works/Office of the Executive Director 201 West Colfax Avenue, Dept 608 | Denver, CO 80202 www.denvergov.org/dpw p. 720.865.8630 | f. 720.865.8795

311 | POCKETGOV.COM | DENVERGOV.ORG | DENVER 8 TV



## NOTICE OF APPARENT LOW BIDDER (SAMPLE)

Current Date

Company Street City/State/Zip

Gentlemen:

The MANAGER OF PUBLIC WORKS has considered the Bids submitted on <u>December 6, 2018</u> for work to be done and materials to be furnished in and for:

## PROJECT No. 201844724, SOUTH BOND PAVING

as set forth in detail in the Contract Documents for the City and County of Denver, Colorado. It appears that your Bid is fair, equitable, and to the best interest of the City and County; therefore, said Bid is hereby accepted at the bid price contained herein, subject to execution of the Contract Documents and your furnishing the items specified below, the total cost thereof (Contract Amount Written), (Contract Amount Numeric).

It will be necessary for you to appear forthwith at the office of the Department of Public Works, Finance and Administration, 201 W. Colfax Ave. Dept 614, Denver, Colorado 80202, to receive the said Contract Documents, execute the same and return them to the Department of Public Works, Finance and Administration, within the time limit set forth in the Bid Proposal.

In accordance with the requirements set forth in the Contract Documents, you are required to furnish the following documents:

- a. Insurance Certificates: General Liability and Automotive Liability, Workers' Compensation and Employer Liability; or any other coverage required by the contract; and
- b. One original plus four copies of the Power of Attorney relative to Performance and/or Payment Bond;

All construction Contracts made and entered into by the City and County of Denver are subject to Affirmative Action and Equal Opportunity Rules and Regulations, as adopted by the Manager of Public Works, and each contract requiring payment by the City of one-half million dollars (\$500,000.00) or more shall first be approved by the City Council acting by ordinance and in accordance with Section 3.2.6 of the Charter of the City and County of Denver.

Prior to issuance of Notice to Proceed, all Equal Opportunity requirements must be completed. Additional information may be obtained by contacting the Director of Contract Compliance at (720-913-1700).

# NOTICE OF APPARENT LOW BIDDER (SAMPLE)

PROJECT NO. <u>201844724</u> Page 2

Performance Bond. In the event you should fail to execute the Contract and to furnish the performance Bond within
he time limit specified, said Bid Security will be retained by the City and County of Denver as liquidated damages, and not as a penalty for the delay and extra work caused thereby.
Dated at Denver, Colorado this day of20
CITY AND COUNTY OF DENVER

By

**Executive Director of Public Works** 

Denver Public Works/Office of the Executive Director 201 West Colfax Avenue, Dept 608 | Denver, CO 80202 www.denvergov.org/dpw p. 720.865.8630 | f. 720.865.8795

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**Current Date** 

# NOTICE TO PROCEED (SAMPLE)

Name Company Street City/State/Zip

## CONTRACT NO. 201844724, SOUTH BOND PAVING

In accordance with General Contract Condition 302 of the Standard Specifications for Construction,
General Contract Conditions, 2011 Edition, you are hereby authorized and directed to proceed on
with the work of constructing contract number 201844724, as set forth in detail in the contract
documents for the City and County of Denver.
With a contract time of calendar days, the project must be complete on or before
<del></del>
If you have not already done so, you must submit your construction schedule, in accordance with
General Contract Condition 306.2.B, to the Project Manager within 10 days. Additionally, you must submit your tax exempt certificate, and copies of your subcontractors' certificates, in accordance with
General Contract Condition 323.5, to the Project Manager as soon as possible. Failure to submit these certificates will delay processing of payment applications.
Sincerely,
Lesley B. Thomas
City Engineer
cc:

Denver Public Works/Office of the Executive Director 201 West Colfax Avenue, Dept 608 | Denver, CO 80202 www.denvergov.org/dpw p. 720.865.8630 | f. 720.865.8795

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## Certificate of Contract Release (SAMPLE)

Date	
Name Company Street City/State/Zip  RE: Certificate of C 201844724, SOUTE	
provided for in the foregoing contract,  (\$), in cash, being the remainder of the contract; said cash also covering and including furnished by the undersigned in the construction of	as full and final payment of the cost of the improvements
•	performing work upon or furnishing materials for said en paid in full and this payment to be made is the last or
Contractor's Signature	Date Signed

Denver Public Works/Office of the Executive Director 201 West Colfax Avenue, Dept 608 | Denver, CO 80202 www.denvergov.org/dpw

If there are any questions, please contact me by telephone at (720) 913-XXXX. Please return this

document via facsimile at (720) 913-1805 and mail to original to the above address.

p. 720.865.8630 | f. 720.865.8795

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# CITY AND COUNTY OF DENVER STATE OF COLORADO



## **DEPARTMENT OF PUBLIC WORKS**

Addenda #1

Contract Number: 201844724

**South Bond Paving** 

**November 5, 2018** 

# CITY AND COUNTY OF DENVER DEPARTMENT OF PUBLIC WORKS

# CONTRACT NO. 201844724 PROJECT NAME: SOUTH BOND PAVING

## ADDENDUM NO. 1 TO CONTRACT DOCUMENTS

Bidders are hereby instructed that the drawings, specifications, and other contract documents are modified, corrected, supplemented and/or superseded for the above-mentioned project as hereinafter described in the following attachments:

## Postponement of Bid Opening:

City and County of Denver Department of Public Works Bid "Time" Postponement Notice

> Contract No. 201844724 South Bond Paving

Notice is hereby given that the Sealed Bid Opening for Contract No. 201844724 - South Bond Paving, is hereby postponed. Sealed bids will be received in Room 6.G.7., 201 W. Colfax Ave., Denver, CO 80202, no later than:

1:00 p.m., local time

December 6, 2018

Published in the Daily Journal on November 19, 20, and 21, 2018.

This ADDENDUM shall be attached to, become a part of, and be returned with the Bid Proposal.

				Lesley B. Thomas
			11/15	City Engineer
				Date
a undersioned hidden sel	knowledges rece	ipt of this Addendu	m. The Proposal subm	itted herewith is in accor
			1	
th the stipulations set for		•	n =	Contractor

# CITY AND COUNTY OF DENVER STATE OF COLORADO



## **DEPARTMENT OF PUBLIC WORKS**

Addenda #2

Contract Number: 201844724

**South Bond Paving** 

November 5, 2018

## CITY AND COUNTY OF DENVER DEPARTMENT OF PUBLIC WORKS

## CONTRACT NUMBERS 201844724 PROJECT NAMES: SOUTH BOND PAVING

## ADDENDUM NO. 2 TO CONTRACT DOCUMENTS

Bidders are hereby instructed that the drawings, specifications, and other contract documents are modified, corrected, supplemented and/or superseded for the above-mentioned project as hereinafter described in the following attachments:

## 1. WORK LOCATIONS PER PROJECT

South Bond Contract	2" SMA	3" HMA
Alameda, Quebec to Dayton Cherry Creek Drive, S Monaco to COLI Tamarac, Hampden to Quincy Belleview, Wadsworth to Kipling Dartmouth, Sheridan to Irving Buchtel, Logan to Downing	x x x	x x
		1.000

## 2. GENERAL QUESTIONS & ANSWERS FOR BOND PAVING PROJECTS

- Q1- I was unable to attend the pre-bid meeting. It is my understanding perhaps some lists of work locations were provided during the meeting. Would it be possible to get a copy of each list as well as any other documents provided?
- A1- Work locations are provided as Section 1. to this Addendum. All other documents are available to plan holders, via Quest CDN.
- Q2- Would CCD consider having the three bond paving project bids on subsequent weeks instead of all on one day? This would give both prime contractors and M/WBE subs the option to bid one, two, or all three based on their individual capacities. Due to the M/WBE goal and the limited number of M/WBE subcontractors available to bid, we don't want to discourage firms that may want to bid one package and not all three.
- A2- Two of the projects have changed their bid opening time as provided on previously issued addenda. All projects will however be opened on the same day as originally advertised.

## 3. PROJECT SPECIFIC QUESTIONS & ANSWERS FOR SOUTH BOND PAVING

- Q1- Based on takeoffs done on the maps provided, the total milling square yards appear to be close to the bid quantity, but there is a discrepancy in HMA quantities. Based on our takeoffs at 3" HMA Tons are 6300, versus 15400 tons in the bid form. Can you please confirm the quantities?
- A1- HMA quantities are as on the bid documents.

Q2- Are there areas identified for the concrete work? Will the HMA patching quantity be used to do a 2' patch back along all concrete work?

A2-NO, YES

Q3- Are there areas identified for the HMA patching? There are 4000 tons of HMA patching in the bid form, which seems significantly high.

**A3-NO** 

Q4- Would the owner consider adding a mobilization item since the work is spread out?

**A4-NO** 

Q5- If work is being performed on multiple streets, e.g. milling one street on the same day that paving is occurring on another street will multiple Traffic Control days be paid?

A5-YES

Q6- How many VMS's are anticipated being used at one time? Are there areas that are identified to use VMS's? A6- 2 VMS are to be placed on each street prior to milling operations.

Q7- There is currently no Erosion Control pay item, what is expected for erosion control? Are rock-socks used during working operations sufficient? How will erosion control be paid?

A7- Milling does not require erosion control, yes, incidental to the work.

Q8- On the Adjust Manhole/Meter/Valve item, is the intention to lower prior to milling and paving and raise after paving is complete? Or are riser rings acceptable?

A8- Riser rings are acceptable, work method is up to the contractor, manholes to be paid each.

Q9- When will certified wages be required for haul vehicles? E.g. milling, paving and concrete delivery.

A9- When Truck Drivers load on-site and returns to the site, he is paid prevailing wage for the round trip. When Truck Drivers load on-site and do not return to the site, he is paid prevailing wage until the material is dumped

Q10- What is the contract time for the completion of the project? When is the NTP expected? Is there any flexibility to the NTP day?

A10- 10/1/19, NTP anticipate 4/1/19, YES

Q11- What is the scope of work for the "Removal of Asphalt Plaining Special" item?

A11-Bridge decks on Speer Blvd.

Q12- Will the City be waiving the Street Occupancy Permits/Lane Rental Fees and Construction Permit fees? A12-YES

Q13- It's our understanding that trucking for asphalt delivery does not need to be paid Prevailing Wages due to "Delivery". Is this true of the rotomilling operation and the trucking necessary for rotomilling?

A13- When Truck Drivers load off-site and dumps the materials on-site, he is not paid prevailing wage.

Q14- Should we assume the depth of milling is the same as the pavement depth specified on the location map? **A14-YES** 

	Q15- Is there any co	oncrete milling anticipate	ed?			
	Q16- What sizes of	patching are anticipated	?			
	A16- AS Needed.					
	definition of residue	02.09, there is a requirer e? waive that requirement		and gutter to remove	e residue. What is the	3
	Q18- Does the VMS A18- each per day	S item assume one unit p	er day?			
	**					
Thi	is <b>ADDENDUM</b> sha	ll be attached to, become	a part of, and he return	ed with the Bid Propos	sal.	
	S / EDDE NO CIVE SING	n se unached to, secome	a part or, and oo folding	Seslay B In	ey B. Thomas City Engineer	
				11 20 18		
				11.28.18	Date	
		<u> </u>			Date	-
	e undersigned bidder h the stipulations set	acknowledges receipt of forth herein.	this Addendum. The P	Proposal submitted here	with is in accordance	
				<u> 0</u>	Contractor	
AD	DENDUM NO	2	DA	TE:		

# CITY AND COUNTY OF DENVER STATE OF COLORADO



## **DEPARTMENT OF PUBLIC WORKS**

**Prevailing Wage Rates** 

Contract Number: 201844724

• • • • • • • • • • • • • • • • • •

**South Bond Paving** 

November 5, 2018





201 W. Colfax, Department 412
Denver, CO 80202
p: 720.913.5751
f: 720.913.5720
www.denvergov.org/csa

TO: All Users of the City of Denver Prevailing Wage Schedules

FROM: Susan Keller, Human Resources Technician, Classification & Compensation

DATE: Monday, July 16, 2018

SUBJECT: Latest Change to Prevailing Wage Schedules

Please be advised, prevailing wage rates for some building, heavy, highway, and residential construction trades have not been updated by the United States Department of Labor (DOL) since March 1, 2002. The Career Service Board, in their meeting held on April 21, 2011, approved the use of the attached supplemental wage rates until prevailing wage rates for these classifications of work are again published by the United States Department of Labor in accordance with the Davis-Bacon Act.

The effective date for this publication is **Friday**, **July 13**, **2018** and applies to the City and County of Denver for **HIGHWAY CONSTRUCTION PROJECTS** in accordance with the Denver Revised Municipal Code, Section 20-76(c).

General Wage Decision No. CO180019
Superseded General Decision No. CO20170019
Modification No. 1
Publication Date: 07/13/2018
(5 pages)

Unless otherwise specified in this document, apprentices shall be permitted only if they are employed pursuant to, and individually registered in, a bona fide apprenticeship program registered with the U.S. Department. Of Labor (DOL). The employer and the individual apprentice must be registered in a program, which has received prior approval, by the DOL. Any employer, who employs an apprentice and is found to be in violation of this provision, shall be required to pay said apprentice the full journeyman scale.

Attachments as listed above.



General Decision Number: CO180019 07/13/2018 CO19

Superseded General Decision Number: CO20170019

State: Colorado

Construction Type: Highway

Counties: Denver and Douglas Counties in Colorado.

### HIGHWAY CONSTRUCTION PROJECTS

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.35 for calendar year 2018 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.35 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2018. The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number Publication Date 0 01/05/2018 1 07/13/2018

\* CARP9901-008 05/01/2018

	Rates	Fringes	
CARPENTER (Form Work Only)	\$ 25.50	9.47	
ELEC0068-016 03/01/2011			•

Rates Fringes

TRAFFIC SIGNALIZATION:

Traffic Signal Installation

Zone 1......\$ 26.42 4.75%+8.68 Zone 2.....\$ 29.42 4.75%+8.68

## TRAFFIC SIGNAL INSTALLER ZONE DEFINITIONS

Zone 1 shall be a 35 mile radius, measured from the following addresses in each of the following cities:

Colorado Springs - Nevada & Bijou

Denver - Ellsworth Avenue & Broadway

Ft. Collins - Prospect & College

Grand Junction - 12th & North Avenue

Pueblo - I-25 & Highway 50

All work outside of these areas shall be paid Zone 2 rates.

-----

ENGI0009-	กกล	05/01	/2017

	Rates	Fringes
POWER EQUIPMENT OPERATOR: (3)-Hydraulic Backhoe (Wheel Mounted, under 3/4 yds), Hydraulic Backhoe (Backhoe/Loader combination), Drill Rig Caisson (smaller than Watson 2500 and similar),		
Loader (up to and including 6 cu. yd.) (3)-Loader (under 6 cu. yd.)	\$ 27.60	10.10
Denver County	\$ 27.60	10.10
Douglas County	\$ 27.60	10.10
bowl, under 40 cu. yd) (4)-Loader (over 6 cu. yd)		10.10
Denver County(5)-Drill Rig Caisson (Watson 2500 similar or larger), Crane (51-90		10.10
<pre>tons), Scraper (40 cu.yd and over), (5)-Motor Grader (blade- finish)</pre>	\$ 27.92	10.10
Douglas County		10.10 10.10
SUCO2011-004 09/15/2011		
	Rates	Fringes
CARPENTER (Excludes Form Work).	\$ 19.27	5.08
CEMENT MASON/CONCRETE FINISHER Denver Douglas		5.75 3.00
ELECTRICIAN (Excludes Traffic Signal Installation)	\$ 35.13	6.83
FENCE ERECTOR (Excludes Link/Cyclone Fence Erection)	\$ 13.02	3.20
GUARDRAIL INSTALLER	\$ 12.89	3.20
HIGHWAY/PARKING LOT STRIPING:Painter		
Denver Douglas		3.21 3.21
IRONWORKER, REINFORCING		

IRONWORKER, REINFORCING
(Excludes Guardrail

Installation)\$	16.69	5.45
IRONWORKER, STRUCTURAL (Includes Link/Cyclone Fence Erection, Excludes Guardrail		
Installation)\$	18.22	6.01
LABORER		
Asphalt Shaveler		4.25 4.25
Asphalt Shoveler\$ Asphalt Spreader\$		4.25
Common or General		
Denver\$		6.77
Douglas\$ Concrete Saw (Hand Held)\$		4.25 6.14
Landscape and Irrigation\$		3.16
Mason Tender-		
Cement/Concrete Denver\$	16.06	4.04
Douglas\$		4.04
Pipelayer	10.27	1.25
Denver\$		2.41
Douglas\$		2.18
Traffic Control (Flagger)\$ Traffic Control (Sets	9.55	3.05
Up/Moves Barrels, Cones,		
Install Signs, Arrow		
Boards and Place		
Stationary Flags)(Excludes	10.40	2 00
Flaggers)\$	12.43	3.22
PAINTER (Spray Only)\$	16.99	2.87
PAINTER (Spray Only)\$  POWER EQUIPMENT OPERATOR:	16.99	2.87
POWER EQUIPMENT OPERATOR: Asphalt Laydown		
POWER EQUIPMENT OPERATOR: Asphalt Laydown Denver\$	22.67	8.72
POWER EQUIPMENT OPERATOR: Asphalt Laydown Denver\$ Douglas\$	22.67	
POWER EQUIPMENT OPERATOR: Asphalt Laydown Denver\$	22.67 23.67	8.72 8.47
POWER EQUIPMENT OPERATOR: Asphalt Laydown Denver\$ Douglas\$ Asphalt Paver	22.67 23.67 24.97	8.72
POWER EQUIPMENT OPERATOR:  Asphalt Laydown  Denver\$  Douglas\$  Asphalt Paver  Denver\$  Douglas\$  Asphalt Roller	22.67 23.67 24.97 25.44	8.72 8.47 6.13 3.50
POWER EQUIPMENT OPERATOR:  Asphalt Laydown  Denver\$  Douglas\$  Asphalt Paver  Denver\$  Douglas\$  Asphalt Roller  Denver\$	22.67 23.67 24.97 25.44 23.13	8.72 8.47 6.13 3.50 7.55
POWER EQUIPMENT OPERATOR:  Asphalt Laydown  Denver\$  Douglas\$  Asphalt Paver  Denver\$  Douglas\$  Asphalt Roller  Denver\$  Douglas\$	22.67 23.67 24.97 25.44 23.13 23.63	8.72 8.47 6.13 3.50 7.55 6.43
POWER EQUIPMENT OPERATOR:  Asphalt Laydown  Denver\$  Douglas\$  Asphalt Paver  Denver\$  Douglas\$  Asphalt Roller  Denver\$	22.67 23.67 24.97 25.44 23.13 23.63	8.72 8.47 6.13 3.50 7.55
POWER EQUIPMENT OPERATOR:  Asphalt Laydown  Denver \$  Douglas \$  Asphalt Paver  Denver \$  Douglas \$  Asphalt Roller  Denver \$  Douglas \$  Asphalt Spreader \$  Backhoe/Trackhoe  Douglas \$	22.67 23.67 24.97 25.44 23.13 23.63 22.67	8.72 8.47 6.13 3.50 7.55 6.43
POWER EQUIPMENT OPERATOR:  Asphalt Laydown  Denver\$  Douglas\$  Asphalt Paver  Denver\$  Douglas\$  Asphalt Roller  Denver\$  Douglas\$  Asphalt Spreader\$  Backhoe/Trackhoe  Douglas\$  Bobcat/Skid Loader\$	22.67 23.67 24.97 25.44 23.13 23.63 22.67 23.82 15.37	8.72 8.47 6.13 3.50 7.55 6.43 8.72 6.00 4.28
POWER EQUIPMENT OPERATOR:  Asphalt Laydown  Denver	22.67 23.67 24.97 25.44 23.13 23.63 22.67 23.82 15.37	8.72 8.47 6.13 3.50 7.55 6.43 8.72 6.00
POWER EQUIPMENT OPERATOR:  Asphalt Laydown  Denver	22.67 23.67 24.97 25.44 23.13 23.63 22.67 23.82 15.37 22.67	8.72 8.47 6.13 3.50 7.55 6.43 8.72 6.00 4.28 8.72
POWER EQUIPMENT OPERATOR:  Asphalt Laydown  Denver	22.67 23.67 24.97 25.44 23.13 23.63 22.67 23.82 15.37 22.67	8.72 8.47 6.13 3.50 7.55 6.43 8.72 6.00 4.28
POWER EQUIPMENT OPERATOR:  Asphalt Laydown  Denver	22.67 23.67 24.97 25.44 23.13 23.63 22.67 23.82 15.37 22.67 22.47 22.96 26.90	8.72 8.47 6.13 3.50 7.55 6.43 8.72 6.00 4.28 8.72 8.72 8.72 8.22 5.59
POWER EQUIPMENT OPERATOR:  Asphalt Laydown  Denver. \$ Douglas. \$ Asphalt Paver  Denver. \$ Douglas. \$ Asphalt Roller  Denver. \$ Douglas. \$ Asphalt Spreader \$ Backhoe/Trackhoe  Douglas. \$ Boom. \$ Broom/Sweeper  Denver. \$ Douglas. \$ Bulldozer. \$ Concrete Pump. \$	22.67 23.67 24.97 25.44 23.13 23.63 22.67 23.82 15.37 22.67 22.47 22.96 26.90	8.72 8.47 6.13 3.50 7.55 6.43 8.72 6.00 4.28 8.72 8.72 8.72
POWER EQUIPMENT OPERATOR:  Asphalt Laydown  Denver. \$ Douglas. \$ Asphalt Paver  Denver. \$ Douglas. \$ Asphalt Roller  Denver. \$ Douglas. \$ Asphalt Spreader \$ Backhoe/Trackhoe  Douglas. \$ Bobcat/Skid Loader \$ Boom. \$ Broom/Sweeper  Denver. \$ Douglas. \$ Bulldozer. \$ Concrete Pump. \$ Drill	22.67 23.67 24.97 25.44 23.13 23.63 22.67 23.82 15.37 22.67 22.47 22.96 26.90 21.60	8.72 8.47 6.13 3.50 7.55 6.43 8.72 6.00 4.28 8.72 8.72 8.72 8.22 5.59 5.21
POWER EQUIPMENT OPERATOR:  Asphalt Laydown  Denver	22.67 23.67 24.97 25.44 23.13 23.63 22.67 23.82 15.37 22.67 22.47 22.96 26.90 21.60 20.48	8.72 8.47 6.13 3.50 7.55 6.43 8.72 6.00 4.28 8.72 8.72 8.72 8.22 5.59 5.21 4.71
POWER EQUIPMENT OPERATOR:  Asphalt Laydown  Denver. \$ Douglas. \$ Asphalt Paver  Denver. \$ Douglas. \$ Asphalt Roller  Denver. \$ Douglas. \$ Asphalt Spreader \$ Backhoe/Trackhoe  Douglas. \$ Bobcat/Skid Loader \$ Boom. \$ Broom/Sweeper  Denver. \$ Douglas. \$ Bulldozer. \$ Concrete Pump. \$ Drill	22.67 23.67 24.97 25.44 23.13 23.63 22.67 23.82 15.37 22.67 22.47 22.96 26.90 21.60 20.48 20.71	8.72 8.47 6.13 3.50 7.55 6.43 8.72 6.00 4.28 8.72 8.72 8.72 8.22 5.59 5.21
POWER EQUIPMENT OPERATOR:  Asphalt Laydown  Denver	22.67 23.67 24.97 25.44 23.13 23.63 22.67 23.82 15.37 22.67 22.47 22.96 26.90 21.60 20.48 20.71 15.91	8.72 8.47 6.13 3.50 7.55 6.43 8.72 6.00 4.28 8.72 8.72 8.72 8.22 5.59 5.21 4.71 2.66 4.68
POWER EQUIPMENT OPERATOR:  Asphalt Laydown  Denver	22.67 23.67 24.97 25.44 23.13 23.63 22.67 23.82 15.37 22.67 22.47 22.96 26.90 21.60 20.48 20.71 15.91	8.72 8.47 6.13 3.50 7.55 6.43 8.72 6.00 4.28 8.72 8.72 8.72 8.22 5.59 5.21 4.71 2.66 4.68 8.72
POWER EQUIPMENT OPERATOR:  Asphalt Laydown  Denver	22.67 23.67 24.97 25.44 23.13 23.63 22.67 23.82 15.37 22.67 22.47 22.96 26.90 21.60 20.48 20.71 15.91	8.72 8.47 6.13 3.50 7.55 6.43 8.72 6.00 4.28 8.72 8.72 8.72 8.22 5.59 5.21 4.71 2.66 4.68

Douglas\$	21.67	8.22
Mechanic		
Denver\$	22.89	8.72
Douglas\$		8.22
Oiler	20.00	0.22
Denver\$	22 72	8.41
Douglas\$	24.90	7.67
Roller/Compactor (Dirt and		
Grade Compaction)		
Denver\$		5.51
Douglas\$	22.78	4.86
Rotomill\$	16.22	4.41
Screed		
Denver\$	22 67	8.38
Douglas\$		1.40
Tractor\$		
ractor	13.13	2.95
EDITER CICIDITED TO		
TRAFFIC SIGNALIZATION:		
Groundsman		
Denver\$		3.41
Douglas\$	18.67	7.17
TRUCK DRIVER		
Distributor		
Denver\$	17.81	5.82
Douglas\$		5.27
Dump Truck	10.90	3.27
	15 07	5.27
Denver\$		
Douglas\$		5.27
Lowboy Truck\$		5.27
Mechanic\$	26.48	3.50
Multi-Purpose Specialty &		
Hoisting Truck		
Denver\$	17.49	3.17
Douglas\$		2.88
Pickup and Pilot Car	20.03	2.00
<del>-</del>	14 24	2 77
Denver\$		3.77
Douglas\$		3.68
Semi/Trailer Truck\$		4.13
Truck Mounted Attenuator\$	12.43	3.22
Water Truck		
Denver\$	26.27	5.27
Douglas\$	19.46	2.58

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

# Office of Human Resources Supplemental rates (Specific to the Denver Projects) Revised 4/11/2017)

<u>Classification</u>		<u>Base</u>	<u>Fringe</u>
Ironworker (Ornamental)		\$26.05	\$12.00
Laborer	Removal of Asbestos	\$21.03	\$8.55
Line Construction	Lineman, Gas Fitter/Welder	\$36.88	\$9.55
	Line Eq Operator/Line Truck Crew	\$25.74	\$8.09
Millwright		\$28.00	\$10.00
Pipefitter		\$30.45	\$12.85
Plumber		\$30.19	\$13.55
Power Equipment Operator (Tunnels Above and Below			
Ground, shafts and raises):	Group 1	\$25.12	\$10.81
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	Group 2	\$25.47	\$10.85
	Group 3	\$25.57	\$10.86
	Group 4	\$25.82	\$10.88
	Group 5	\$25.97	\$10.90
	Group 6	\$26.12	\$10.91
	Group 7	\$26.37	\$10.94
Power Equipment Operator	Group 1	\$22.97	\$10.60
	Group 2	\$23.32	\$10.63
	Group 3	\$23.67	\$10.67
	Group 4	\$23.82	\$10.68
	Group 5	\$23.97	\$10.70
	Group 6	\$24.12	\$10.71
	Group 7	\$24.88	\$10.79
Truck Driver	Group 1	\$18.42	\$10.00
	Group 2	\$19.14	\$10.07
	Group 3	\$19.48	\$10.11
	Group 4	\$20.01	\$10.16
	Group 5	\$20.66	\$10.23
	Group 6	\$21.46	\$10.31

Go to  $\underline{\text{http://www.denvergov.org/Auditor}} \text{ to view the Prevailing Wage Clarification Document for a list of complete classifications used.}$ 

# CITY AND COUNTY OF DENVER STATE OF COLORADO



## **DEPARTMENT OF PUBLIC WORKS**

**Technical Specifications** 

Contract Number: 201844724

• • • • • • • • • • • • • • • • • •

**South Bond Paving** 

November 5, 2018



## 2018 CITYWIDE CONTRACTED OVERLAY

# STREET MAINTENANCE DIVISION SPECIAL PROVISIONS

## STANDARD CONSTRUCTION SPECIFICATIONS

The Standard Construction Specifications used for this Project shall be the Colorado Department of Transportation "Standard Specifications for Road and Bridge Construction," adopted in 2017 and as hereinafter modified shall be used.

### **DETAILED CONSTRUCTION SPECIFICATIONS**

The Construction Specifications for this Project shall consist of the applicable sections and subsections, numbered Section 200 through Section 700, of the above-referenced "Colorado Department of Transportation Standard Construction Specifications."

The Colorado Department of Transportation General Provisions consist of Sections 100 through 109 of the above referenced "Standard Specifications" and are not applicable to this Project and are hereby deleted. In place of the deleted sections, the City and County of Denver (the "City" or "CCoD") "Standard Specifications for Construction, General Contract Conditions," 2011 edition, shall apply on this contract.

The following Special Project Provisions take precedence over Specifications or Plans and supplement or amend the referenced "Standard Specifications for Road and Bridge Construction" adopted in 2017 by the Colorado Department of Transportation, which is to be used to control construction of this Project.

References to "Division" or "CDOT" in the Standard Specifications shall be considered to mean CCoD and County of Denver for the purposes of this Project.

That which follows supplements or amends provisions of the "Construction Specifications" referenced under Paragraph SC-1 of the Special Contract Conditions.

#### STANDARD CONSTRUCTION DETAILS

It is the intent of the City to use the City of Denver Public Works "Transportation Standards and Details for the Engineering Division" 2017 edition, the Wastewater Management Division Standard Details and Drawings (when applicable) and the Contractor shall additionally abide by all rules and guidelines as required by: City and County of Denver Right of Way Street Occupancy Permit.

It is further the intent of the City to use applicable specifications from the Colorado Department of Transportation "Standard Specifications for Road and Bridge" 2017 edition with revisions listed in the "Index of Revisions to the 2017 Colorado Department of Transportation Standard Specifications for Road and Bridge Construction."

## INDEX OF REVISIONS TO THE

## 2017 CDOT Standard Specifications for Road and Bridge Construction

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## **APPENDICES**

A. Potential Work Locations Map

# REVISION OF SECTION 201 CLEARING AND GRUBBING

Section 201.01 of the Standard Specifications is hereby revised as follows:

The Contractor shall only perform work consisting of clearing, grubbing, removing, and disposing of vegetation and debris within 12" of the proposed concrete repair and only as needed to set forms and complete the required concrete construction or repairs unless otherwise directed by the Project Inspector/Manager.

Section 201.03 of the Standard Specifications shall be deleted and replaced with:

Clearing and Grubbing shall not be measured separately and all costs associated with Clearing and Grubbing shall be included in the related concrete construction or repair work.

Section 201.04 of the Standard Specifications shall be deleted and replaced with:

Clearing and Grubbing shall not be paid separately and all costs associated with Clearing and Grubbing shall be included in the related concrete construction or repair work.

When the Contract does not include pay items in Section 201, "Clearing and Grubbing", the removal will not be paid for separately but shall be included in the work.

**END OF REVISION OF SECTION 201** 

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# REVISION OF SECTION 202 REMOVAL OF STRUCTURES AND OBSTRUCTIONS

Section 202 of the Standard Specifications is hereby revised as follows:

All equipment, labor, hauling, sorting, removal, delivery and documentation of recyclable materials as per SC-20 "Greenprint Denver Requirements" will not be paid separately; all costs incurred by the Contractor to meet the requirements of SC-20 shall be included in the removal of the related appurtenance. All non-hazardous waste is to be hauled to Denver Arapahoe Disposal Site (DADS) as per "SC-12 DISPOSAL OF NON-HAZARDOUS WASTE AT DADS" of the Contract. All costs of removal, loading, hauling and disposal of all excavations, unsuitable and excess materials and removal items are included in the related Removal Pay Item and will not be paid separately.

Subsection 202.02 shall be revised to include the following:

The Project Inspector will mark the limits of removals in the field.

Removed concrete and asphalt material may not be used to construct embankments.

Culverts, pipes or sewers may not be left in place and filled, unless directed by the Project Manager. Storm sewers shall be removed per approved plan details.

Storm drain inlet protection devices shall be installed prior to the commencement of removal activities.

Removals in the vicinity of trees to remain shall conform to applicable provisions of the Tree Retention and Protection specification, as prepared by Denver Forestry. It shall be the responsibility of the Contractor to notify the City of Denver Forestry and coordinate with the Construction Project Manager and the adjacent property owner for any damages to the tree, its roots and/or the need to coordinate with City of Denver Forestry to remove the tree.

### Subsection 202.03 is hereby replaced as follows:

All salvageable material shown on the plans shall be removed, without unnecessary damage, in sections or pieces that may be readily transported, and delivered by the Contractor to the location noted on the plans, or as directed by the Project Manager. The Contractor shall be held responsible for the safekeeping of all salvageable materials during the period of the Contract until they are delivered to the City. The Contractor shall make good or replace at the contractor's own expense any such materials damaged, stolen or otherwise lost prior to receipt by the City. All salvageable materials, as designated on the plans, shall remain the property of the City.

The bid item "Removal and Reset Flagstone (Includes Salvage and Storage) shall include all costs associated with the means and method required to carefully remove, handle, palletize, and salvage existing flagstone, store the flagstone material, transport as needed, prep subgrade as PWSTM Standard Concrete Construction Details & Technical Specifications



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needed and reset flagstone at locations designated by the Project Inspector/Manager.

## Subsection 202.07 is hereby replaced as follows:

All concrete pavement, sidewalks, structures, curbs, gutters, asphalt pavement, etc., designated for removal, shall be broken into pieces and disposed of outside the limits of the project at a concrete recycling site if possible, unless otherwise designated on the plans, or as directed by the Project Manager.

Old concrete construction which abuts new construction, edges of pavement, sidewalks, curbs, etc., to be left in place shall be saw-cut at the nearest joint to true line with a vertical face.

Where old asphalt construction abuts new construction, edges of asphalt pavement, patching, etc., asphalt to be left in place shall be saw-cut to a neat vertical face with minimal jagged edges to the satisfaction of the Project Manager.

Removal of stone curb shall include the complete removal of the curb head and concrete foundation. No payment will be made for sprinkler relocation, utility relocation, etc., beyond the limits of construction as shown on the plans. Stone curb designated for salvage shall be carefully removed to prevent damage and delivered to the location indicated in the plans or specifications, or as directed by the Project Manager.

## Subsection 202.09 shall be revised to include the following:

Removal of asphalt mat from gutters shall be accomplished by planing, and/or scraping. If the existing gutter is to remain, the gutter shall be cleaned by sandblasting until the pan is completely clean of residue. Gutters which are excessively (greater than one-quarter inch in depth) planed or damaged shall be removed and replaced by the Contractor at his expense. If gutter is designated for removal, no separate payment shall be made for asphalt removal.

Fugitive dust shall be collected using a high-powered dust control system that will prevent fugitive dust from going into the air. Gutters which are excessively (greater than one-quarter inch in depth) planed or damaged shall be removed and replaced by the Contractor at the Contractor's expense. If gutter is designated for removal, no separate payment shall be made for asphalt removal.

## Subsection 202.11 shall be revised to include the following:

All quantities to be submitted for payment must be measured in person by the Contractor with the Project Inspector and recorded by location in tabular form and summarized in manner acceptable to the Project Manager and be submitted for review and acceptance in advance of each pay application.

Removal of concrete paving, crosspans, curb ramps, driveways will be measured by area in square yards, regardless of thickness and includes re-grading.

Removal of asphalt mat will be measured by square yard. If the existing asphalt mat is over 9" asphalt mat will be paid at twice the unit price. If the asphalt mat is more than 5" and is over

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concrete pavement, both asphalt removal and concrete pavement removal will be paid. If the asphalt mat is less than 5" and is over concrete pavement, only concrete pavement removal will be paid.

Removal of asphalt mat (planning or milling) will be measured by the square yard, regardless of thickness.

Removal of trolley tracks will be measured by centerline lineal track foot, and shall include the removal of rails, ties, connections, cobblestones and concrete runners.

Removal of asphalt mat from concrete gutter and other concrete designated to remain shall be measured by the square yard. Removal of asphalt mat from gutter shall include sandblasting and compressed air cleaning as part of that pay item. Fugitive dust shall be collected using a high-powered dust control system that will prevent fugitive dust from going into the air. Remove Siphon will be measured as a lump sum for each siphon and shall include: removing the connector pipe, two (2) inlets, grates and frames, any related materials, concrete, metal, sealant, debris, excavation and suitable backfill placed and compacted, all materials, labor equipment, hauling and disposal needed to complete this item.

## Subsection 202.12 is hereby deleted and replaced as follows:

The accepted quantities will be paid for at the contract unit price for each of the pay items listed below that appear in the Contract bid schedule. Payment shall be full compensation for all labor, equipment, time and materials for each unit bid item complete in place including saw cutting, scraping, sandblasting, removal, hauling and disposal of such items, excavation of subgrade material reconditioning or installation of aggregate base course and subsequent backfill, grading and compaction (with moisture/density control per the Revision of Subsection 203.07) to proposed subgrade elevation. The price shall also include salvageable materials removed, their custody, preservation, storage, hauling and disposal as provided herein.

Clearing and grubbing includes any and all excavation, removal and hauling to DADS of all existing landscape materials including soil, sodding, plants, shrubs, landscape rock of any size or gradation, brick, stone pavers, stacked block wall, edging material, landscape fabric and fencing is included in the cost of the related work and is included in the cost of the related work and will not be paid separately unless otherwise noted under "PAY ITEMS".



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# Payment will be made under:

<u>PAY ITEMS</u>	PAY UNIT
Remove Inlet	EA
Remove Siphon	EA
Removal of Sidewalk	LF
Removal of Curbhead	LF
Removal of Curb and Gutter	LF
Removal of Combination Curb, Gutter and Sidewalk	LF
Removal of Concrete Pavement	SY
Removal of Asphalt Mat	SY

When the Contract does not include pay items in Section 202, "Removal of Structures and Obstructions", the removal will not be paid for separately but shall be included in the work.

**END OF REVISION OF SECTION 202** 



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# REVISION OF SECTION 203 EXCAVATION AND EMBANKMENT

Section 203 of the Standard Specifications is hereby revised as follows:

Subsection 203.04 shall include the following:

The Contractor shall protect and promptly dewater and recondition all excavations from water regardless of source.

Subsection 203.05 (c), first paragraph, shall include the following:

Approved backfill material shall be Aggregate Base Course (Class 6) or other material approved by the Project Manager.

#### Subsection 203.07 shall include the following:

Unless otherwise indicated on the plans, the density requirements for embankment material shall be: clay soils – 95% of the maximum density determined in accordance with AASHTO T-99; granular soils – 90% of the maximum density determined in accordance with AASHTO T-180. Proof rolling of the subgrade shall be required. Proof rolling shall be done after specified compaction has been obtained. Proof rolling shall be conducted with a double tandem ten-wheel end-dump truck, loaded to a minimum gross weight of 45,000 pounds, or other equipment as approved by the Project Manager. Areas found to be weak and those areas which failed shall be ripped, scarified, dried or wetted as necessary and re-compacted to the requirements for density and moisture at the Contractor's expense.

Where unsuitable material is encountered below proposed subgrade, the Project Manager may require the Contractor to remove the unsuitable materials and backfill to the finished grade with Class 6 aggregate base course, or other approved material. The Project Manager may designate as unsuitable those soils that are detrimental to the finished roadway. All unsuitable material shall be disposed of as directed. Excavation including unsuitable material, hauling and disposal of unsuitable material and concrete or any debris related to infrastructure removal (except asbestos or radioactive material), installation of aggregate base course, grading and compaction of suitable material or aggregate base course to proposed subgrade elevation will not be paid for separately but shall be included in the work associated with Section 202, Removal of Structures and Obstructions.

## Subsection 203.11 is hereby deleted and replaced as follows:

Muck Excavation, Barrow, Embankment Material, Stripping, Blading and Dozing will not be paid separately but shall be included in the cost of the related work.

Proof rolling, blading, wetting, drying, dozing and sub-grade reconditioning, will not be measured and paid for separately, but shall be included in the cost of the work.

Haul and disposal will not be measured and paid for separately but shall be included in the cost of the work.

Unclassified Excavation will only be measured for payment at work locations where new ADA ramps are constructed replacing sidewalk or existing landscaped areas and new crosspan installations. The measurement for Unclassified Excavation shall be equal to the newly constructed ADA Ramp/crosspan area in square yards multiplied by the depth of soil removed and converted to cubic yards for example; Take the area of the ADA ramp/crosspan measured in

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square yards then multiply by 1/3 for a quantity that is one foot of depth per square yard and convert that volume to cubic yards of Unclassified Excavation.

3-Man Labor Crew will be measured as the actual number of hours worked and shall include with each application for payment the name, date and hours worked agreed to daily as directed by the City's Construction Project Manager.

Payment will be made under:

PAY ITEMS PAY UNIT

Unclassified Excavation CY

When the contract does not include pay items for Unclassified Excavation and Embankment Material, these items will not be paid for separately but shall be included in the work.

### **END OF REVISION OF SECTION 203**

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# REVISION OF SECTION 206 EXCAVATION AND BACKFILL FOR STRUCTURES

Section 206 of the Standard Specifications is hereby revised as follows: Subsection 206.02 shall include the following:

For areas between the flowline and property lines the Contractor shall only use Structural Backfill Class 1, crushed concrete materials are not allowed between the flowline and property lines. Only Structural Backfill Class 1 or existing native sub-grade material will be allowed for fill or fine grading between the flowline and property line.

Flow fill may only be used between the flowlines in the street and only if approved by the Project Manager.

Subsection 206.03 is hereby deleted and replaced as follows:

The Contractor is required to provide submittals for approval for both Structural Backfill Class 1 and Structural Backfill (Flow Fill).

No additional payment will be made for Structural Backfill Class 1 or reused excavated material and retempering and compacting of existing/native material used between the flowline and property line if needed for fill or fine grading. Concrete Roadbase will not be allowed between the flowline and property line.

Only Structural Backfill (Flow fill) will be considered for payment and shall be measured by cubic yards delivered. For acceptance and payment, the Contractor must provide copies of load tickets with a summary in tabular form to the Project Manager for review with each pay application for which payment for this item is requested.

Payment will be made under:

PAY ITEM PAY UNIT

Structural Back Fill (Flow Fill)

CY

When the contract does not include pay items for Excavation and Backfill for Structures these items will not be paid for separately but shall be included in the work.

#### **END OF REVISION OF SECTION 206**



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# REVISION OF SECTION 208 EROSION CONTROL

Section 208 of the Standard Construction Specifications is hereby removed in its entirety and replaced with the following:

#### **PART I: DEFINITIONS**

Definitions used for this Section shall consist of those listed in Title 1 of the City and County of Denver "Standard Specifications for Construction, General Contract Conditions", 2011 edition.

Definitions used for this Section hereby incorporate those identified within the City and County of Denver Construction Activities Stormwater Manual (CASM).

Additional Definitions applicable to this Section are listed heretofore:

**Basis of Payment:** The terms under which "Work" is paid, as a designated "Pay Item" in accordance with the quantity measured and the "Pay Unit."

**Best Management Practices (BMPs):** Schedules of activities, prohibitions of practices, installation of devices, maintenance procedures, and other management practices deployed to stabilize the construction site to prevent or reduce the pollution of State Waters (see definition below). Stormwater BMPs can be classified as "structural" (i.e., devices installed or constructed on a site) or "non-structural" (procedures, such as modified landscaping practices).

**Colorado Department of Health and Environment (CDPHE):** State of Colorado, Water Quality Control Division responsible for issuance of State Construction Stormwater Permit.

Construction Activities Stormwater Discharge Permit (CASDP): Permit issued by the City for compliance with City & County of Denver Revised Municipal Code and Department of Public Works Rules & Regulations concerning the discharge of pollutants in storm generated runoff from construction sites to Municipal Separate Storm Sewer System (MS4, see definition below) or State Waters, via the Municipal Separate Storm Sewer System (MS4).

**Construction Activities Stormwater Manual (CASM):** City and County of Denver Construction Activities Stormwater Manual (CASM), 2010 edition.

**Colorado Department of Transportation (CDOT):** State agency that has published standards for Erosion Control with accompanying Erosion Control Supervisor certification courses.

**Erosion Control Supervisor (ECS):** The Erosion Control Supervisor is assigned by the Contractor to perform duties as described in this Section. The ECS shall be properly trained in BMPs per requirements of Part V below, and shall be under the direction of a Professional Engineer licensed in the State of Colorado when performing any modifications to the Project Stormwater Management Plan (SWMP), as

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required by CDPHE.

**Final Stabilization:** Point of construction when all ground surface disturbing activities at the site have been completed and uniform vegetative cover has reached 70% of pre-disturbance vegetative cover (as judged by comparison to nearest fallow vegetation), or equivalent permanent features have been employed. At this point, all temporary BMPs can be removed, all construction and equipment maintenance wastes have been disposed of properly; and all elements of the Stormwater Management Plan have been completed.

**Major SWMP Modification:** Changes to the original SWMP that removes or adds additional area to the Project, or modifies the hydrology or drainage of the Project. A Major SWMP Modification requires the submission of revised Stormwater Management Plan (SWMP) elements to the Permit Authority for review and approval. Any adjustments to a SWMP must be performed either by or under the direction of a Professional Engineer licensed in the State of Colorado.

**Minor SWMP Modification**: Modification to the SWMP that does NOT increase the scope or change hydrology of the Project but: modifies/improves specific BMPs in use at site, indicates progression in phasing of the Project, or specifies relocation of previously approved BMPs within the Project. Any adjustments to a SWMP must be performed either by or under the direction of a Professional Engineer licensed in the State of Colorado.

**Municipal Separate Storm Sewer System (MS4):** A conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains):

- a) owned or operated by a State, city, town, county, district, association, or other public body (created by or pursuant to State law) having jurisdiction over disposal of stormwater or other wastes, including special districts under State law such as a sewer district, flood control district or drainage district, or similar entity, or a designated and approved management agency under Section 208 of the Federal Clean Water Act that discharges to State Waters;
- b) designed or used for collecting or conveying stormwater;
- c) which is not a combined sewer; and
- d) which is not part of a Publicly Owned Treatment Works (POTW).

**Permit Authority:** The Department authorized by the City to review and process CASDP Applications for Capital and/ or governmental sponsored Projects. The responsible City department serving as the Permit Authority is the Engineering, Regulatory and Analytics Office. As a clarification, the Denver Department of Development Services is the single intake point for all permits

**Permit Enforcement Authority:** The Department authorized by the City to inspect and enforce CASDP Rules and Conditions for all construction Projects within the City's MS4 Boundary. The responsible City department serving as the Permit Enforcement Authority is the Wastewater Management Division of the Department of Public Works.

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**State Construction Stormwater Permit:** Colorado Revised Statues require that all construction sites/development Projects, which by definition, disturb one or more acres in area, shall be covered by a State issued general permit for construction activities. Information on the application requirements for the State permit can be obtained by phone at 303-692-3500; or by visiting their offices located at 4300 Cherry Creek Drive South, Denver, CO 80246 – 1530 or on the Web at: https://www.colorado.gov/pacific/cdphe/news/water-quality-permits

**State Waters:** Any and all surface waters which are contained in or flow in or through this State, not to include waters in sewage systems, waters in treatment works of disposal systems, waters in potable water distribution systems, and all water withdrawn for use until use and treatment have been completed.

Examples of State Waters include, but are not limited to, perennial streams, intermittent or ephemeral gulches and arroyos, ponds, lakes, reservoirs, irrigation canals or ditches, wetlands, stormwater conveyances (when they discharge to a surface water), and groundwater.

**Stormwater Management Plan (SWMP):** The Stormwater Management Plan contains the requirements necessary to accomplish all the following:

The SWMP establishes a minimum standard to construct, install, maintain, and remove required BMPs during the life of the Contract to prevent or minimize pollution of stormwater due to erosion, sediment transport, and construction related pollutant generated during all phases of the Project. A SWMP consists of the following elements:

- (i) CASDP Narrative Worksheet with Narrative Report. The Narrative Report and supporting documents should fully address the methods to be used to prevent sediment, debris, and other pollutants from entering the MS4 and/ or State Waters in and around the Project area. Proposed structural and non-structural BMPs should be described with sufficient implementation detail to ensure that the logical phases of the proposed construction Project meet the performance standards listed in the CASM.
- (ii) Proposed site drawings and Best Management Practice (BMP) installation details as they apply to the site conforming to the Urban Storm Drainage Criteria Manual, Vol. 3, "Best Management Practices", most current version as issued by the Urban Drainage and Flood Control District (UDFCD), or those established by the City's Department of Public Works. If erosion control drawings were included within the bid documents for the Project, they shall be used for bid purposes and initial planning/ deployment of BMPs on the Project. If provided drawings are signed/ sealed by a Professional Engineer, they have been pre-approved by the Permit Authority and may be used without revision for purposes of submitting for CASDP. If provided drawings do not have signature/ seal of Professional Engineer licensed by the State of Colorado, they will require revision by the Contractor with Professional Engineer signature/ seal prior to submission to the City and County of Denver for CASDP.
- (iii) Supporting documentation related to proposed BMPs that are not currently identified in PWSTM Standard Concrete Construction Details & Technical Specifications



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UDFCD Vol. 3 or as otherwise published by the City.

Any preparation of or adjustments to a SWMP must be performed either by or under the supervision of a Professional Engineer licensed in the State of Colorado. SWMP elements submitted to the City shall also meet currently established criteria of the CDPHE as the SWMP must meet all local, State and Federal requirements.

**Substantial Completion of Erosion Control:** Point of construction when permanent BMPs have been installed, initial growth is in place, and the site is waiting for vegetative cover to reach 70% of predisturbance vegetative cover.

#### **PART II: DESCRIPTION**

This Work shall consist of constructing, installing, maintaining, and removing when required, BMPs during the life of the Contract until Final Stabilization to prevent or minimize erosion, sedimentation, and pollution of any waters including storm, drainage-ways, MS4, State Waters, and/ or wetlands. Work under this Section includes the Contractor obtaining required Permits, utilizing SWMP elements provided in the Contract, and/ or SWMP elements specifically prepared by the Contractor as defined herein. The work shall also consist of providing on-going maintenance and monitoring of the SWMP as may be necessary due to the specific and/or dynamic needs of the Project as well as meet all requirements set forth within the CASM.

The Contractor shall coordinate the construction of temporary BMPs with the construction of permanent BMPs to assure economical, effective, and continuous erosion and sediment control and water pollution prevention throughout the construction period until Final Stabilization is achieved

When a provision of this Section or an order by the Permit Enforcement Authority requires that an action be immediate or taken immediately, it shall be understood that the Contractor shall at once begin effecting completion of the action and pursue it to completion in a manner acceptable to the Permit Enforcement Authority, and in accordance with applicable Permitting requirements.

#### **PART III: MATERIALS**

The materials to be used for BMPs shall conform to each specific detail as set forth within the Project SWMP or as noted on the Contract Drawings.

#### PART IV: EROSION CONTROL PERMIT STATUS

The current SWMP status for the Project is as follows:

A SWMP is currently not required for this project as the proposed disturbed area and/ or proximity to stream does not meet the minimum criteria for requiring a CASDP. However, the responsibilities for

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minimizing sediment pollution from the Project have not been waived, and as such, the City hereby requires the Contractor to perform as specified in the following notes. Because a SWMP and CASDP are not necessary for the Project, all cost for performance of the following notes shall not be paid for separately, but shall be included in the work.

"A CASDP Permit will not be required for this project, however, the <u>Contractor and/or their authorized agents</u> shall ensure that all potential pollutants generated during demolition, excavation, trenching, boring, grading, or other construction Work associated with this permit, be prevented from discharge to stormwater conveyance systems in the vicinity of the Project.

<u>The Contractor and/or their authorized agents</u> shall remove all sediment, mud, construction debris, or other potential pollutants that may have been discharged to or, accumulate in the flow lines of storm drainage appurtenances and public rights of ways of the City and County of Denver as a result of construction activities associated with this Project. All removals shall be conducted in a timely manner.

The Contractor shall be held responsible for remediation of any adverse impacts to the MS4, State Waters, waterways, wetlands, and or other public or private properties, resulting from work done as part of this Project.

<u>The Contractor and/or their authorized agents</u> shall insure that all loads of cut and fill material imported to or exported from the Project shall be properly covered to prevent loss of the material during transport on public rights of way." (Sec.49-552; Denver Revised Municipal Code)

Approved erosion and sediment control 'Best Management Practices' shall be maintained and kept in good repair for the duration of the Project. All necessary maintenance and repair shall be completed immediately upon discovery of any deficiency or defect.

The Contractor and/or their authorized agents shall implement the following Best Management Practices (BMPs) on site during construction. Best Management Practice (BMP) installation details and maintenance shall conform to the Urban Storm Drainage Criteria Manual, Vol. 3, "Best Management Practices", most current version as issued by the Urban Drainage and Flood Control District (UDFCD), or those established by the City's Department of Public Works.

- 1. VEHICLE TRACKING CONTROL: This BMP is required at all access points to a construction site that are used by vehicular traffic or construction equipment.
- INLET PROTECTION: This BMP is required on all existing or proposed storm sewer
  inlets in the vicinity of the construction site that may receive site runoff. The BMP
  must be appropriate to the type of storm inlet and appropriate for the ground
  surface at the inlet.
- 3. INTERIM SITE STABILIZATION: This BMP is required to provide a measure for preventing the discharge of sediment from construction sites where overlot grading or

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other site disturbance has occurred. This BMP is particularly necessary on sites where construction activities/disturbance will be limited to small areas of the project site. Acceptable BMPs include:

- a. Preserving existing vegetation
- b. Seeding and planting
- c. Mulching
- d. Mulching and seeding
- e. Temporary/Permanent re-vegetation operations
- f. Chemical soil stabilizer application (requires Permit Enforcement Authority approval)
- 4. WASTE MANAGEMENT/CONTAINMENT: This BMP requires that all construction wastes, fuels, lubricants, chemical wastes, trash, sanitary wastes, contaminated soils or debris shall be contained on site, protected from contact with precipitation or surface runoff, periodically removed from the construction site, and properly disposed of.
- 5. SPILL PREVENTION /CONTAINMENT: This BMP defines the measures proposed for preventing, controlling, or containing spills of fuel, lubricants, or other pollutants; and protecting potential pollutants from contact with precipitation or runoff.
- 6. CHUTE WASHOUT CONTAINMENT: Water used in the cleaning of ready mixed concrete truck delivery chutes shall be discharged into a predefined, bermed containment area on the job site. The required containment area is to be bermed so that wash water is totally contained. Wash water discharged into the containment area shall be allowed to infiltrate or evaporate. Dried concrete waste shall be removed from the containment area and properly disposed of.

  The direct or indirect discharge of water containing waste concrete to the storm sewer system is prohibited (Sec.56-102a, c; Denver Revised Municipal Code).
- 7. STREET SWEEPING: This BMP requires that paved surfaces which are adjacent to construction sites be swept in a timely manner when sediment and other materials are tracked or discharged on to them. Either sweeping by hand or use of street sweepers is acceptable. Street sweepers using water while sweeping is preferred in order to minimize dust. Flushing off paved surfaces with water is prohibited.
- 8. PERIMETER CONTROL: This BMP requires that a construction site install a perimeter control measure along the edge of the construction site, to prevent, or filter the discharge of surface runoff from the construction site. The type of perimeter control used shall be determined based on site conditions and location. Maintenance and repair of the control measure shall occur as needed, in a timely manner.
- 9. STOCK PILES: Soils that will be stockpiled for more than thirty (30) days shall be protected from wind and water erosion within fourteen (14) days of stockpile construction. Stabilization of stockpiles located within 100 feet of an MS4 or State Waters, or with slopes 3 to 1 or greater shall be completed within seven (7) days following stockpile construction. Stabilization and protection of the stockpile may be accomplished by any of the following: Mulching, Temporary/Permanent Revegetation Operations, Chemical Soil Stabilizer Application (requires Permit Enforcement Authority approval), or erosion control matting/Geotextiles. If stockpiles are located within 100 feet of top of bank of an MS4 or State Waters, a drainage-way or the site

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- perimeter, additional sediment controls shall be required.
- 10. SAW CUTTING OPERATIONS: The Contractor shall protect all storm sewer facilities adjacent to any location where pavement cutting operations involving wheel cutting, saw cutting, or abrasive water jet cutting are to occur. The Contractor shall remove and properly dispose of all waste products generated by said cutting operations on a daily basis or as needed throughout the work day. The discharge of any water contaminated by waste products from cutting operations to the storm sewer system is prohibited. (Sec.56-102a, c; Denver Revised Municipal Code).

### **PART V: CONSTRUCTION REQUIREMENTS**

## A) SCHEDULES:

At least 10 working days prior to the beginning of any construction work, the Contractor shall submit for approval a schedule for accomplishment of temporary and permanent BMPs shown in the SWMP. This schedule shall specifically indicate the sequence of clearing and grubbing, earthwork operations, and construction of temporary and permanent BMPs. The schedule shall include BMPs for all areas within the Project boundaries, including but not limited to, haul roads, borrow pits, and storage and other staging sites. Work shall not be started until the BMP schedule has been approved in writing by the Project Manager, and on-site pre-construction inspection is performed and approved by CCD's NPDES inspector. Once the work has started, and during the active construction period, the Contractor shall update the schedule for all BMPs on a regular basis, and as required to keep the SWMP in compliance.

- B) <u>CONSTRUCTION IMPLEMENTATION:</u> The Contractor shall incorporate into the Project all BMPs that are appropriate for the current phase of work, as outlined in the accepted schedule.
- C) <u>UNFORSEEN CONDITIONS:</u> The Contractor shall direct the ECS (under the supervision of a Professional Engineer licensed in the State of Colorado) to design and implement BMPs for correcting conditions unforeseen during design of the Project, or as possible for emergency situations, which arise during construction. The Project's SWMP, UDFCD Vol 3 standards and details, and CDOTs "Erosion Control and Storm-Water Quality Guide," and any approved modification to these documents as proposed by the Contractor, shall be used as reference documents for the purpose of designing appropriate BMPs. Measures and methods proposed by the Contractor to deal with unforeseen conditions shall be reviewed and approved in writing by the Permit Enforcement Authority and the Project Manager prior to implementation and construction.

In an emergency situation, the Contractor shall use best judgment for immediately responding to the emergency situation as it arises, and shall notify the Permit Enforcement Authority and ECS of the emergency situation and BMPs employed in response as soon as practical after installation.

#### D) PERMITS:

The Contractor shall obtain all required permits for the Project including those required by federal, state, and local agencies. The Contractor shall obtain (or transfer from the City when specified) required erosion control and water quality permits and shall be responsible for compliance with all requirements under any such permits.

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## E) EROSION CONTROL SUPERVISOR:

Contractor shall assign to the Project an employee or subcontractor to serve as Erosion Control Supervisor (ECS). The ECS shall be a person other than the Contractor's superintendent, foreman, or equivalent supervisory position. The ECS shall be experienced in aspects of BMP construction and have satisfactorily completed a Colorado DOT or equivalent ECS training program authorized by the City. Proof that this requirement has been met shall be submitted to the Project Manager at least ten working days prior to the beginning of any soil disturbance work. A list of authorized ECS training programs is available from the City upon request. Additionally, per definition, the ECS shall be under the direction of a Professional Engineer licensed in the State of Colorado when performing any modifications to the Project Stormwater Management Plan (SWMP).

The ECS shall be responsible for oversight of the implementation, maintenance, and revision of the SWMP for the duration of the Project. CCD requires the ECS to fulfill responsibilities as outlined by CDPS such as having financial control and authority to implement BMPs. The ECS's responsibilities shall be as follows:

- 1) Ensure compliance with all water quality permits or certifications in effect during the construction work.
- 2) Supervise the installation, construction, and maintenance of all BMPs specified in the Contract and coordinate the construction of BMPs with all other construction operations.
- 3) Direct the implementation of suitable BMPs as necessary to correct unforeseen conditions or emergency situations. Direct the dismantling of those features when their purpose has been fulfilled due to completion of each Project phase unless the Permit Enforcement Authority agrees that the features be left in place.
- 4) Attend the preconstruction conference, erosion control preconstruction inspection, Project scheduling meetings, weekly construction/ field meetings, substantial completion and final stabilization inspections, and other meetings regarding construction that could impact water quality.
- 5) Evaluate all non-stormwater coming onto the site, such as springs, seeps, and landscape irrigation return flow. If such flow is identified, the ECS shall propose appropriate SWMP modifications to the Contractor to protect off-site water from becoming contaminated with sediment or other pollutants.
- 6) Coordinate with the Contractor to implement necessary actions to reduce anticipated or presently existing water quality or erosion problems resulting from construction activities.
- 7) Coordinate with the Contractor to ensure all labor, material, and equipment deployed to meet SWMP requirements is judged appropriately.
- 8) During construction, update and record the following items in the SWMP as changes occur:
  - (i) Construction boundaries (may require Major SWMP Modification)
  - (ii) Areas of disturbance (may require Major SWMP Modification)
  - (iii) Areas used for storage of construction materials, equipment, soils, or wastes.
  - (iv) Location of any dedicated asphalt or concrete batch plants.
  - (v) Location of construction offices and staging areas.
  - (vi) Location of work access routes during construction.

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- (vii) Location of borrow and waste.
- (viii) Location of temporary and permanent stabilization

The ECS shall start a new site map before the current one becomes illegible. All site maps shall remain with the SWMP paperwork.

- 9) Amend the SWMP whenever there are: additions, deletions, or changes in locations of BMPs SWMP revisions shall be recorded immediately. Items shall be dated and signed at time of occurrence. Specifically, amendments shall include the following:
  - (i) A change in design, construction, operation, or maintenance of the site which would require the implementation of new or revised BMPs; or
  - (ii) Changes when the SWMP proves to be ineffective in achieving the general objectives of controlling pollutants in stormwater discharges associated with construction activity.
  - (iii) Changes when temporary BMPs are no longer necessary from changes in Project phase and are removed. All inspection and maintenance activities or other repairs shall be documented.

All inspection and maintenance activities or other repairs shall be documented. The SWMP and documentation shall be kept on the Project site at all times.

- 10) Modify the site map with arrows to indicate direction of surface and storm water flowing across the Project site.
- 11) When adding, or revising BMPs in the SWMP, amend the narrative to explain what, when, where, why, and how the BMP is being used, and add a detail to the SWMP.
- 12) If using existing topography, vegetation, etc. as a BMP, label it as such in the SWMP site map; amend the Narrative to explain when, why, and how the BMP is being used in the SWMP.
- 13) Record on the SWMP, and implement the approved plan for concrete and asphalt saw cutting, grinding, and milling containment and removal.
- 14) Update the potential pollutants list in the SWMP throughout construction meeting CASDP requirements.
- 15) Spills, leaks, or overflows that result in the discharge of pollutants shall be documented on the inspection form. The ECS shall record the time and date, weather conditions, reasons for spill, and how it was remediated. The ECS shall immediately report to the Contractor and Project Manager the following instances of noncompliance:
  - (i) Noncompliance which may endanger health or environment.
  - (ii) Spills or discharge of hazardous substance or oil which may cause pollution of the City MS4 or State Waters.
  - (iii) Discharge of stormwater which may cause an exceedance of a water quality standard.
- 16) Perform a thorough inspection of the stormwater management system at least every seven (7) days and within 24 hours after any precipitation or snowmelt event with the potential to cause surface erosion. If no land disturbing construction activities are present during a storm event, post-storm event inspections shall be conducted prior to commencing any new land disturbing construction activities, but no later than seventy-two (72) hours following the storm event. The inspection records shall be kept on-site in a written or previously approved format. Inspections shall be conducted during the progress of the work, during work suspensions, or until Final Stabilization of all disturbed areas is approved by Permit

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Enforcement Authority and shall include the following services at a minimum:

- (i) The construction site perimeter, disturbed areas, and areas used for material storage that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the drainage system. BMPs identified in the SWMP shall be observed to ensure that they are operating correctly.
- (ii) The description of potential pollutant sources, and the BMPs identified in the SWMP, shall be revised and modified as appropriate based on the results of the inspection as soon as practicable after such inspection. Modification to the SWMP shall be implemented in a timely manner and in accordance with applicable Permit requirements.
  - (iii) The operator shall keep a record of inspections. Uncontrolled releases of sediment or polluted storm water or measurable quantities of sediment found off the site shall be recorded with a brief explanation as to the measures taken to prevent future releases as well as any measures taken to clean up the sediment that has left the site. Inspection records shall be made available to the City upon request. Note: documentation of uncontrolled releases at site DOES NOT alleviate any State or Federal requirements for reporting of discharges or upset conditions. Care shall be taken to ensure compliance with all regulatory requirements at site.
- (iv) Seven (7) day inspections are required during construction and at all times until Final Stabilization has been achieved. Seeding and mulching of disturbed areas does NOT count as final stabilization until such time as 70% pre-disturbed vegetative cover has been achieved. Sites with growth in place sufficient to deter erosion that have not yet achieved final stabilization may petition the City to grant an alternative inspection schedule while awaiting additional growth for final stabilization. These inspections must be conducted in accordance with the above paragraphs.

### F) APPLYING BMPs TO STABILIZE SITE:

The duration of the exposure of incomplete construction to the effects of weather shall be as short as practicable. BMPs such as: seeding, surface roughening, mulching, applying tackifier, use of geotextiles and matting, permanent landscaping, or other selected BMPs shall be applied within fourteen (14) calendar days of completion of grading/soil disturbance activities to stabilize the construction site unless disturbed area is within 100 feet of an MS4 or State Waters or has slopes of 3 to 1 or greater in which case BMPs shall be implemented within seven (7) calendar days of completion of grading activities. Disturbed areas where work is temporarily halted shall be temporarily stabilized within seven (7) days after the activity ceased unless work is to be resumed within thirty (30) calendar days after the activity ceased.

Clearing and grubbing operations shall be scheduled and performed to minimize both the area of the Project disturbed at a given time and the amount of time that disturbed areas remain open. BMPs, such as temporary seeding, are required between successive construction stages when disturbed areas will not be stable or active for thirty (30) calendar days or more. No payment will be made for additional work required because the Contractor has failed to properly coordinate the BMP schedule, thus causing previously stabilized areas to be disturbed by operations that could have been performed prior to the stabilization. Upon failure of the Contractor to coordinate the

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permanent BMPs with the grading operations in a manner to effectively control erosion and prevent water pollution, the Permit Enforcement Authority can suspend the Contractor's grading operations and the Project Manager can withhold monies due to the Contractor on current estimates until such time that all aspects of the work are coordinated in an acceptable manner.

- G) <u>WORK OUTSIDE LIMITS OF CONSTRUCTION</u>: Non-contiguous areas outside the limits of construction that are used by the Contractor that include, but are not limited to, borrow pits, haul routes, storage and disposal areas, field offices, maintenance, batching areas, etc., shall have appropriate BMPs implemented by the Contractor at the Contractor's expense. Should said areas meet applicable CASDP Permit criteria, the Contractor shall obtain a separate CASDP or amend existing CASDP for each area as applicable at no additional expense to the City.
- H) <u>MAINTENANCE</u>: The Contractor shall continuously maintain erosion and sediment control BMPs on a daily basis or as directed by the ECS so that they function properly during and after construction (including work suspensions) until Final Stabilization has been approved by the Permit Enforcement Authority Maintenance includes, but is not limited to, the following items:
  - (i) From the time seeding and mulching work begins until the date the Project has reached Substantial Completion of Erosion Control, the Contractor shall keep all seeded areas stabilized at all times. Any damage to seeded areas or to mulch materials shall be promptly repaired.
  - (ii) All inspection sediment removal, and BMP maintenance activities to comply with all Federal, State & Local erosion control permit requirements until Final Stabilization is reached.
  - (iii) All removal and replacement of existing BMPs due to damage to same suffered either by the contractor, outside agencies, the public, or acts of God.
  - (iv) All required mechanical and/ or manual street sweeping.
  - (v) Discretionary changes required of any regulatory enforcement officer.

If the Contractor fails to maintain the BMPs in accordance with the Contract, or as directed, the City may at the expiration of a period of 48 hours, after having given the Contractor written notice, proceed to maintain BMPs as deemed necessary. The cost thereof will be deducted from any compensation due, or which may become due to the Contractor under this Contract.

- I) MINOR SWMP MODIFICATIONS: Shall be made in the field by the Contractor and thoroughly documented in the Contractor's SWMP narrative and drawings. Should the Permit Enforcement Authority deem minor field modifications inadequate, the Contractor may be required to a) make specific modifications as requested by the Permit Enforcement Authority or
- b) Return to the original approved design specifications. Minor SWMP Modifications are allowed, covered under the original CASDP, and required as part of standard maintenance and operation.
- J) MAJOR SWMP MODIFICATION: The City reserves the right to require changes in the Work or Project Limits that may require a Major Modification to the SWMP and/ or CASDP due to unforeseen circumstances. Should this occur, the Contractor will be responsible for the following (as applicable) and applying for CASDP amendment:
  - (i) Make required revisions to comply with changing Federal or State rulemaking if it PWSTM Standard Concrete Construction Details & Technical Specifications



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- occurs within timeframe of the Project
- (ii) Make required revisions due to unforeseen or unplanned conditions leading to deficient Drawings/ SWMP (hazardous materials encountered, landfills, expansion of work limits, etc.)
- (iii) Prepare revised SWMP elements endorsed by a Professional Engineer licensed in the State of Colorado.
- K) <u>SUBSTANTIAL COMPLETION OF EROSION CONTROL:</u> When a CASDP is required for the Project, Substantial Completion of the Project as defined by the City and County of Denver General Contract Conditions cannot be reached until Substantial Completion of Erosion Control has been granted. Granting of Substantial Completion of Erosion Control must be requested by the Contractor and be approved by the Permit Enforcement Authority in the form of a "Certificate of Substantial Completion of Erosion Control".
- L) <u>FINAL STABILIZATION:</u> Granting of Final Stabilization must be requested by the Contractor and be approved by the Permit Enforcement Authority. Other permanent soil stabilization techniques may be proposed, in writing, by the Contractor and used upon approval, in writing, by the Project Manager and Permit Enforcement Authority.

The Contractor shall follow the following procedures for approval of Final Stabilization:

- (i) The Contractor shall file Inactivation Request for Construction Activities Stormwater Discharge Permit (available within CASDP guidance documents) with the Permit Enforcement Authority.
- (ii) The Contractor shall coordinate with the Permit Enforcement Authority to hold a Final Inactivation Inspection.
- (iii) If passing, the Permit Enforcement Authority transmits a letter of approval for Final Stabilization.
- (iv) If not passing, the Permit Enforcement Authority transmits a letter of denial for Final Stabilization with associated inspection report to Contractor.
- (v) Stabilization, inspection and maintenance requirements shall continue until confirmation of having met final closure requirements have been granted in writing by the Permit Enforcement Authority.
  - When Final Stabilization has been reached, the Permit Enforcement Authority shall issue a "Certificate of Final Stabilization".
- (vi) Once the Inactivation request is approved by the City and County of Denver, the contractor can apply to close the State Stormwater Permit.

### M) FINAL ACCEPTANCE:

CASDP obligations (including reaching Final Stabilization) may hinder the ability to reach Final Acceptance for the overall Project as defined in the City General Contract Conditions.



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#### **PART VI: CONSTRUCTION OF BMPs**

BMPs shall be constructed so that they conform to all requirements as set forth within the Project SWMP. They shall meet all requirements set forth within each BMP detail and shall be installed and maintained so that they function in an effective and operable manner.

#### PART VI: METHOD OF MEASUREMENT

Because a SWMP and CASDP are not necessary for the Project, all cost for performance of the Best Management Practices, with the exception of inlet protection, shall not be paid for separately but shall be included in the work. Inlet protection shall be paid on a per unit basis.

Removal of sediment & trash that is or is not generated by construction activities will not be measured separately but shall be included in the work.

Any excavation required for the removal of sediment from traps, basins, areas adjacent to silt fences and erosion bales, and any other cleanout excavation of accumulated sediment, and removal of check dams or storm drain inlet protection will not be measured separately but shall be included in the work.

### **PART VII: BASIS OF PAYMENT**

Because a SWMP and CASDP are not necessary for the Project, all cost for performance of the Work to furnish, install, maintain, replace (if not due to contractor negligence), remove, and dispose of BMPs specified in the Contract shall not be paid for separately, but shall be included in the work. Only Storm Drainage Inlet Protection will be measured and each Bid Item unit includes all materials, equipment and labor necessary to protect each inlet regardless of the size, type or timeframe as per the current City of Denver Stormwater Management Plans / (SWMP) requirements. The cost for any corrective actions required by the State or City due to contractor's failure to obtain or comply with applicable Permits will be borne by the Contractor, including fines and penalties. In the case of failures on the part of the Contractor in controlling erosion, sedimentation, and/or water pollution, the City may provide the necessary corrective actions. All corrective action costs, including Project Managing costs, will be charged to the Contractor, and appropriate deduction will be made from the Contractor's monthly pay estimate. The sole remedy for additional costs associated with installation of BMPs as required by regulatory agencies to ensure compliance with local and State requirements shall be included in the cost of the adjacent concrete repair work as provided in the Bid Schedule of this Contract. The Contractor however may submit a separate itemized Change Order for any required Major SWMP Modification proposed by the City during the course of the Project.

All other work required as set forth in this Revised Section 208—Erosion Control including all materials, equipment and labor, to permit, set-up, maintain, document, remove and clean-up all erosion control BMP's as per current City of Denver Stormwater Management Plans/ (SWMP) requirements will not be paid separately; all costs incurred by the Contractor to meet the requirements of this Section regarding Erosion Control unless provided for in the Bid shall be included in the related appurtenance.

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Each Bid Item unit includes all materials, equipment and labor necessary to protect each inlet regardless of the size or type as per the current City of Denver Stormwater Management Plans / (SWMP) requirements. All other work required as set forth in this Revised Section 208 – Erosion Control including all materials, equipment and labor, to permit, set-up, maintain, document, remove and clean-up all erosion control BMP's as per current City of Denver Stormwater Management Plans / (SWMP) requirements will not be paid separately; all costs incurred by the Contractor to meet the requirements of this Section regarding Erosion Control unless provided for in the Bid shall be included in the related appurtenance. When the contract does not include pay items for Erosion Control, these items will not be paid for separately but shall be included in the work.

Payment for each BMP item will be full compensation for all work, materials and equipment required to furnish, install, maintain, remove, and dispose of it. BMPs as deployed per the SWMP requiring replacement due to Contractor negligence and or carelessness shall be provided at the Contactor's expense.

Temporary BMPs required due to the Contractor's negligence, carelessness, or failure to install permanent controls as a part of the work as scheduled or for the Contractor's convenience, shall be performed at the Contractor's expense.

If the Contractor fails to complete construction within the approved contract time, payment will not be made for Section 208 pay items for the period of time after expiration of the approved contract time. These items shall be provided at the Contractor's expense.

The cost for any corrective actions required by the State or City due to contractor's failure to obtain or comply with applicable Permits will be borne by the Contractor, including fines and penalties. In the case of failures on the part of the Contractor in controlling erosion, sedimentation, and/or water pollution, the City may provide the necessary corrective actions. All corrective action costs, including Project engineering costs, will be charged to the Contractor, and appropriate deduction will be made from the Contractor's monthly pay estimate.

The sole remedy for additional costs associated with installation of BMPs as required by regulatory agencies to ensure compliance with local and State requirements shall be per unit BMP as provided in the Bid Schedule of this Contract. The Contractor however may submit a separate itemized Change Order for any required Major SWMP Modification proposed by the City during the course of the Project.

When the contract does not include pay items for Erosion Control these items will not be paid for separately but shall be included in the work.

# **END OF REVISION OF SECTION 208**



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TS-24 November 2017

# REVISION OF SECTION 209 WATERING AND DUST PALLIATIVES

Section 209 of the Standard Specifications is hereby revised as follows:

Subsections 209.07 and 209.08 shall be revised as follows:

Watering and Dust Palliatives will not be measured and paid for separately but shall be included in the cost of the work.

**END OF REVISION OF SECTION 209** 

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TS-25 November 2017

# REVISION OF SECTION 210 RESET STRUCTURES

Section 210 of the Standard Specifications is hereby revised as follows: Subsection 210.09 shall include the following:

Signs and traffic signals shall be reset in accordance with the City and County of Denver Transportation Engineering Services requirements needed to remove and restore existing signage and at locations indicated on the plans, or as directed by the Project Manager. It will be the Contractor's responsibility to supply and install any new materials needed to restore the signs and traffic signals to service at the new location.

## Subsection 210.10 shall include the following:

Manholes, water meters, inlet castings, valve boxes and pull boxes shall be adjusted in accordance with the applicable standards of the Utility Owner. The Contractor shall be responsible for determining the proper Utility Owner and coordinating these adjustments. Survey range boxes shall be adjusted as directed by the Project Manager. Bid Item "Reset Inlet Grate, Frame and Adjustable Curbhead with new castings" will include for each existing single inlet all materials, equipment and labor, to remove and dispose of the existing castings and provide and place new castings with mounting hardware, grout and up to 1 course of standard brick riser as per Wastewater Standard Details DRWG NO. S-716 and all other labor, equipment, materials and hauling and disposal necessary to complete the work. Both Bid Items; "Adjust Inlet Frame" and "Adjustable Curbhead and reset Inlet Frame, Grate and Adjustable Curbhead" shall include all related work required to construct the rebar reinforced 8" x 12" x inlet width concrete Curb Head Beam as per Wastewater Standard Details Drawings 616.1-3. Restoration of landscaping beyond 12" limits outlined on the plans and/or as marked in the field by the Project Manager will not be paid for.

### Subsection 210.12 shall include the following:

All quantities to be submitted for payment must be measured in person by the Contractor with the Project Inspector and recorded by location in tabular form and summarized utilizing the Field Measurement Report (FMR), see FMR sample in APPENDICES at the end of the Technical Specifications, in manner acceptable to the Project Manager and be submitted for review and acceptance in advance of each pay application.

## Subsection 210.13 shall be revised to include the following:

The accepted quantities will be paid for at the contract unit price for each of the pay items listed below that appear in the Contract bid schedule. Payment shall be full compensation for all labor, equipment, time and materials for each unit bid item complete in place including saw cutting, scraping, sandblasting, removal, hauling and disposal of such items, excavation of subgrade material reconditioning or installation of aggregate base course and subsequent backfill, grading and compaction (with moisture/density control per the Revision of Subsection 203.07) to proposed subgrade elevation. The price shall also include salvageable materials removed, their custody, preservation, storage.



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<u>PAY ITEMS</u>	<u>PAY UNIT</u>
Reset Ground Sign	EA
Adjust Manhole, Meter, Valve Box, Pull Box	EA
Adjust Inlet Frame and Adjustable Curb Head	EA
Reset Inlet Grate, Frame and Adjustable Curbbox (New Castings)	EA

When the contract does not include pay items for Reset Structures, these items will not be paid for separately but shall be included in the work.

**END OF REVISION OF SECTION 210** 

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# REVISION OF SECTION 212 SEEDING, FERTILIZER AND SODDING

Section 212 of the Standard Specifications is hereby revised as follows:

All landscape restoration will be completed and accepted prior to consideration of the reduction of retainage. Normally landscape restoration will start as soon as possible after concrete construction has been completed but landscape restoration shall be completed within 7 calendar days after the date the adjacent concrete was poured. Minor exceptions may be requested by the Contractor in writing for consideration by the Project Manager during cold weather months when landscape work is not practical.

## Subsection 212.01 shall include the following:

This work shall include restoring all existing landscaping that is within twelve inches (12") of the concrete repair reconstruction areas that are damaged as a result of the reconstruction activity. The bid item "Restore Landscaping, In Kind" item shall apply to all landscaping within the limits of construction unless agreed upon in writing by the Project Manager in advance of the related concrete repair work. Materials used to restore landscaping shall be replaced "in-kind" unless otherwise approved by the Project Manager. All landscaped area to be restored shall be backfilled and compacted with native soil so that they may have a minimum of 4" and a maximum of 6" of amended t o p s o i l or planters mix placed in lieu of existing backfill material in the top 4" cross sectional vertical area below finish grade that is hand tamped and topped off to avoid settlement. Amended topsoil or planter's mix shall be 70% top soil with 30% compost and the source must be submitted and approved by the Project Manager prior to use. Seeding areas larger than twelve inches must include hydraulic mulching with all costs to be included in the square foot price of "Restore Landscaping, In-Kind". Only at the direction of the Project Manager will seeding be accepted in lieu of sodding. Amended Top Soil and Planter's Mix samples and mix design and supplier must be submitted for approval prior to use. "Restore Landscaping, In Kind" shall include restoring all landscaping that is disturbed within the limits of construction. This includes any and all landscape plants, trees, shrubs, or other materials including concrete, asphalt, pavers or blocks (concrete or brick), landscape rock, sodding, flowers, shrubs and landscape timbers or statuaries. The Contractor shall be required to maintain the landscaping planting in accordance with Section 214.

#### Subsection 212.01 shall include the following:

Work performed in areas under the jurisdiction of Denver Parks and Recreation Department shall conform to the standards of that Department. All costs related to acquiring the Denver Parks ROW permit are included in the Restore Landscaping, In-Kind Pay Item and will not be paid separately.

### Subsection 212.07 is hereby revised to include the following:

Only the work restoring existing landscaping that is within twelve inches (12") of the concrete repair reconstruction areas that are damaged as a result of the reconstruction activity will be measured for payment. Any areas beyond twelve inches (12") that are damaged by the Contractor will not be measured for payment and will be repaired by the Contractor at no

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expense to the City. Copies of Top Soil load tickets including a summary sheet shall be submitted for review and acceptance in advance of each pay application.

All quantities to be submitted for payment must be measured in person by the Contractor with the Project Inspector and recorded by location in tabular form and summarized utilizing the Field Measurement Report (FMR), see FMR sample in APPENDICES at the end of the Technical Specifications, in manner acceptable to the Project Manager and be submitted for review and acceptance in advance of each pay application.

PAY ITEMS PAY UNIT

Restore Landscaping, In-Kind

When the contract does not include pay items for landscape repair, top soil, fertilizer, seeding or sodding, these items will not be paid for separately but shall be included in the work.

**END OF REVISION OF SECTION 212** 

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# REVISION OF SECTION 304 AGGREGATE BASE COURSE

Section 304 of the Standard Specifications is hereby revised as follows:

#### Subsection 304.01 is revised as follows:

This work includes any type of removal or excavation of in-fill material, loading, removal, hauling and disposal of unsuitable materials and consists of furnishing and placing aggregate base course, only if required or at the direction of the Project Inspector or Project Manager on prepared sub- grade. The Contractor shall work to minimize the removal of suitable undisturbed existing subgrade when performing the removal of existing concrete or asphalt infrastructure or grading existing soil.

#### Subsection 304.02 is revised as follows:

The use of Aggregate Road Base made from recycled concrete is prohibited between the flowline and property line and in any work areas adjacent to landscaped areas.

#### Subsection 304.06 is revised as follows:

All material within the street section shall be compacted to 95% of maximum density as determined in accordance with AASHTO T-99; all areas outside the street section shall be compacted to 90% of the maximum density determined in accordance with AASHTO T-180. It is the Contractor's responsibility to provide Quality Control for material density and strength testing and provide test results in a testing frequency, method and report as per Preconstruction submittal approved by the City Project Manager. Quality Control testing, reports and submittals will not be paid for separately but shall be included in the work.

## Subsection 304.07 is hereby revised as follows:

Aggregate Base Course will be measured by the ton. All quantities to be submitted for payment must include copies of the load tickets, delivered to the project location, accompanied by a summary including the load ticket number supplier, date and weight in tabular form and summarized utilizing the Field Measurement Report (FMR), see FMR sample in APPENDICES at the end of the Technical Specifications, in manner acceptable to the Project Manager and must be submitted for review and acceptance in advance of each pay application.

### Subsection 304.08 is hereby revised as follows:

Payment for the accepted quantities of Aggregate Base Course measured per ton shall be full compensation for all labor, equipment, time and materials for each unit bid item complete in place including excavation, removal, hauling and disposal of removal items, excavation of subgrade material, installation of aggregate base course and subsequent backfill, grading and compaction (with moisture/density control per the Revision of Subsection 203.07) to proposed subgrade elevation.



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PAY ITEM PAY UNIT

Aggregate Base Course (Class 6) (Complete in-Place)

TN

When the contract does not include pay items for Aggregate Base Course, these items will not be paid for separately but shall be included in the work.

## **END OF REVISION OF SECTION 304**

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# REVISION OF SECTION 306 RECONDITIONING

Section 306 of the Standard Specifications is hereby revised as follows:

Subsection 306.01 shall be revised to include the following:

All existing subgrade on alleys and streets from back of curb to back of curb shall be reconditioned.

### Subsection 306.02 shall be revised to include:

Unless otherwise indicated on the plans, the density requirements for reconditioning shall be:

- Clay Soils 95% of the maximum density determined in accordance with AASHTO T-99
- Granular Soils 90% of the maximum density determined in accordance with AASHTO T-180

It is the Contractor's responsibility to provide Quality Control for material density and strength testing and provide test results in a testing frequency, method and compile comprehensive reports as per Pre-construction submittal approved by the City Project Manager. Quality Control material testing, reports and submittals will not be paid for separately but shall be included in the work.

The Quality Control Plan (QCP) is a required submittal that is Contract Specific and states how the process controls of materials, material testing, equipment, personnel and operations shall be maintained. As a minimum, the QCP shall include the following:

- 1. Project Contract Control Number and Name. Date of the NTP and subsequent close out date with respect to allotted calendar days.
- 2. The company name, personnel names and duties, telephone number(s), of all quality control personnel to be utilized from a certified lab including current copies of their certification letter.
- 3. Sub-grade compaction and concrete tests will be once weekly or additionally as needed for Quality Control in critical conditions. Additional concrete tests are required for each instance High Early Strength Concrete is used.
- 4. Written test reports including all pertinent information in a form acceptable to the Project Manager. Test reports must be submitted in a timely fashion, as a minimum test reports must be submitted within 30 days of the test and acceptance of the related materials or product is contingent upon receipt of acceptable reports.

## Subsection 306.04 is revised as follows:

Reconditioning will not be measured and paid for separately but shall be included in the work.

### **END OF REVISION OF SECTION 306**

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# REVISION OF SECTION 401 AND 403 PLANT MIX PAVEMENTS

Sections 401 and 403 of the Standard Specifications for Road and Bridge Construction are hereby deleted and replaced with the Comprehensive Specifications for the Metropolitan Government Pavement Project Managers Council (MGPEC), included herein. Section 9.16 and section 9.17 of the MGPEC Specifications is hereby deleted and replaced as follows:

HMAP patching or overlay shall be paid by the ton by batch ticket. Tack Coat will not be measured and paid for separately but shall be included in the cost of the work.

All Asphalt Mix Designs are a required submittal and must be approved prior to use in the City and County of Denver.

It is the Contractor's responsibility to provide Quality Control testing for material density and strength testing and provide test results in a testing frequency, method and report as per Pre-construction submittal Quality Control Plan (QCP) that must be approved by the City Project Manager prior to starting work. Quality Control material testing, reports and submittals will not be paid for separately but shall be included in the work.

The Quality Control Plan (QCP) is a required submittal that is Contract Specific and states how the process controls of materials, material testing, equipment, personnel and operations shall be maintained. As a minimum, the QCP shall include the following:

- 1. Project Contract Control Number and Name. Date of the NTP and subsequent close out date with respect to allotted calendar days.
- 2. The company name, personnel names and duties, telephone number(s), of all quality control personnel to be utilized from a certified lab including current copies of their certification letter.
- 3. Sub-grade compaction and concrete tests will be once weekly or additionally as needed for Quality Control in critical conditions. Additional concrete tests are required for each instance High Early Strength Concrete is used.
- 4. Written test reports including all pertinent information in a form acceptable to the Project Manager. Test reports must be submitted in a timely fashion, as a minimum test reports must be submitted within 30 days of the test and acceptance of the related materials or product is contingent upon receipt of acceptable reports.

Subsection 401.02 shall include the following:

Recycled Asphalt Pavement (RAP) shall not be used in Stone Matrix Asphalt (SMA).

Subsection 401.09 shall include the following:

Each SMA load shall be completely covered and securely fastened with a full tarp.

Subsection 401.16 shall include the following:

The SMA mixture shall be transported and placed on the roadway without drain-down or flushing. All flushed areas behind the paver shall be removed immediately upon discovery. If more than 50 square feet of flushed SMA pavement is ordered removed and replaced in any continuous 500 linear feet of paver width laydown, operations shall be discontinued until the PWSTM Standard Concrete Construction Details & Technical Specifications



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source of the flushing has been identified and corrected. The Project Manager will designate the depth and area of all flushed areas requiring removal and replacement. All costs associated with the removal and replacement of the flushed area shall be at the Contractor's expense.

# Subsection 401.17 shall include the following:

Rollers shall not be used in vibratory mode on SMA unless they are first used successfully in the demonstration strip specified in subsection 403.03. Pneumatic wheel rollers shall not be used on SMA mix.

Stone Matrix Asphalt Pavement shall be placed and compacted in accordance with the temperatures listed in subsection 401.07 as revised for this project.

The relative compaction for all SMA mixtures will be measured from roadway cores in accordance with CP 44, Method B (Rapid Test) or Method C (Core Dry Test), unless the SMA mixture is being placed on a structure, in which case the Project Manager may specify that nuclear gauge measurements be used.

When cores are used, the Contractor shall provide all labor and equipment for the coring operation and filling the core holes. When nuclear density gauges are used, the tests will be performed in accordance with CP 81 and CP 82.

In-place density for SMA shall be 93 to 97 percent of the SMA mix maximum specific gravity as measured according to CP 51.

Section 403 is hereby revised for this project as follows:

### Subsection 403.02 shall include the following:

The SMA gradation for this project shall be  $\frac{1}{2}$  inch nominal size and shall conform to Section 703.

Mixture design and field control testing of SMA shall be performed using either the SuperPave (CPL5115, 100 Gyrations) or the Marshall Method (AASHTO T245, 50 Blow).

The contractor shall submit to the Project Manager a mix design meeting the appropriate specification requirements for one of the following:

The SuperPave SMA mix design shall conform to the requirements of Table 403-1a:



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Table 403-1a

Property	Test Method	Value for SMA
Air Voids, percent at:	CPL 5115	3.0 - 4.0
N(Design)		
Lab compaction (Revolutions)	CPL 5115	100
N(Design)		
Accelerated Moisture	CPL 5109,	70
Susceptibility, tensile strength	Method B	
Ratio, (Lottman), minimum		
Minimum Dry Split Tensile	CPL 5109,	30
Strength, psi	Method B	
Grade of Asphalt Cement		PG 76-28
Voids in the Mineral	CP 48	17
Aggregate (VMA) %,		
minimum		
Draindown at Production	AASHTO	0.3 maximum
Temperature	T305	
% VCA <sup>1</sup> <sub>MIX</sub>	AASHTO	Less than
	R 46	$VCA_{DRC}^2$

Note: The current version of CPL 5115 is available from the Region Materials Engineer

Note: Copies of AASHTO R 46 and M 325 can be obtained from

the Region Materials Engineer Note: <sup>1</sup>Voids in the Coarse Aggregate

Note: <sup>2</sup>Dry-rodded condition

## Subsection 403.03 shall include the following:

The mineral filler for SMA shall be stored in a separate silo and added automatically in the correct proportion. The mineral filler addition equipment shall be electronically or mechanically interlocked to the aggregate feed sensors so that the proper amount of mineral filler is added whenever SMA is produced.

The SMA mineral filler shall be added at the same point the asphalt cement is added to the aggregate.

Tack coat between the existing pavement and Stone Matrix Asphalt pavement shall be placed at a rate between 0.03 and 0.05 gallons per square yard.

Before proceeding with SMA placement, the Contractor shall demonstrate the ability to produce and place a satisfactory mix in a Demonstration Control Strip (DCS). The Contractor will coordinate with the Engineer on the proposed location of the DCS. The DCS shall consist of a minimum quantity of 500 tons placed in one lane, full width. Within the last 200 tons of SMA placed in the DCS, the Contractor and CDOT shall determine properties (VMA, Voids, in-place density, AC content, gradation, and Marshall Stability, if required) of the project produced SMA mix used in the DCS and provide the results to the Engineer. The Contractor may proceed with full production if all mixture properties are within the specified tolerances.

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To determine the in-place density and roller pattern, one core shall be taken at three random locations within the last 200 tons of the DCS. The Engineer will determine the coring locations using a stratified random sampling process. The cores shall be immediately submitted to the Engineer and will be used for determining acceptance of the DCS. Densities of the random samples will be determined by cores according to CP 44. Coring shall be performed by the Contractor under CDOT observation. Coring will not be measured and paid for separately but shall be included in the work.

The DCS will be designated as a separate process. Payment for the DCS will be made in accordance with Subsection 105.05, Conformity to the Contract of Hot Mix Asphalt.

## **METHOD OF MEASUREMENT**

Subsection 401.22 and 403.04 of the Standard Specifications is hereby revised as follows:

All work performed will be measured by the ton based on copies of the approved supplier's asphalt load tickets provided with a summary table with each Application for Payment

Payment will be made under:

<u>PAY ITEM</u>	PAY UNIT
HBP Patch	TON
Hot Bituminous Pavement (S – Grading)	TON
Hot Bituminous Pavement (Stone Matrix Asphalt)	TON

When the contract does not include pay items for Plant Mix Pavements, these items will not be paid for separately but shall be included in the work.

**END OF REVISION OF SECTION 401 / 403** 



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# REVISION OF SECTION 412 PORTLAND CEMENT CONCRETE PAVEMENT

Section 412 of the Standard Specifications is hereby revised as follows: Subsection 412.01 shall be revised to include the following:

This work shall also include concrete streets, driveways, crosspans, valley gutter, bus pads and alley paving.

Subsection 412.03 shall be revised to include the following:

All Portland Cement Concrete Pavement used on this Contract shall be a minimum 4500 psi 28-day design with 20% maximum fly ash. Polypropylene fibers (FIBERMESH® or APPROVED EQUIVALENT) shall be used at the request of the Project Manager. Length of fibers shall be as recommended by the manufacturer. Add 1.5 pounds FIBERMESH® or APPROVED EQUIVALENT per cubic yard of concrete. The Contractor is required to submit copies of all concrete batch tickets for loads delivered during the previous pay period with each Application for Payment to the Project Manager on the Contract. All Portland Concrete Cement All Asphalt Mix Designs are a required submittal and must be approved prior to use in the City and County of Denver.

It is the Contractor's responsibility to provide Quality Control for material density and strength testing and provide test results in a testing frequency, method and report as per Preconstruction submittal Quality Control Plan (QCP) that must be approved by the City Project Manager prior to starting work. Quality Control material testing, reports and submittals will not be paid for separately but shall be included in the work.

The Quality Control Plan (QCP) is a required submittal that is Contract Specific and states how the process controls of materials, material testing, equipment, personnel and operations shall be maintained. As a minimum, the QCP shall include the following:

- 1. Project Contract Control Number and Name. Date of the NTP and subsequent close out date with respect to allotted calendar days.
- 2. The company name, personnel names and duties, telephone number(s), of all quality control personnel to be utilized from a certified lab including current copies of their certification letter.
- 3. Sub-grade compaction, HBP asphalt patch and concrete tests will be once weekly or additionally as needed for Quality Control in critical conditions. Additional concrete tests are required for each instance High Early Strength Concrete is used. For Concrete Strength Cylinder test a minimum of 1 set of four cylinders taken in the first 100CY then again in the second hundred cubic yards then every 500CY thereafter provided all tests exceed minimum strength requirements except as noted above for additional high early concrete tests.
- 4. Written test reports including all pertinent information in a form acceptable to the Project Manager. Test reports must be submitted in a timely fashion, as a minimum test reports must be submitted within 30 days of the test and acceptance of the related materials or product is contingent upon receipt of acceptable reports.

Subsection 412.04 shall be deleted and replaced with Subsection 601.05, with the following revisions: PWSTM Standard Concrete Construction Details & Technical Specifications

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Calcium chloride (up to 1 percent by weight of cement) or Type C or E accelerators may be used under the following conditions:

- a) The median daily temperature is less than 55 degrees (Average of previous three days).
- b) The date of placement is between September 30th and May 30th.
- c) The concrete temperature may not exceed 80 degrees F prior to placement.

Difficulties encountered as a result of use of accelerators, the costs of associated delays, and corrective action costs shall be borne by the Contractor.

When High Early Strength Concrete is requested by the City's Project Manager for the convenience of the City the concrete mix designs shall be submitted to the Project Manager for approval for High Early strength concrete that shall be a 7-sack mix with a minimum of 660 pounds of cementitious material that develops field strength of 3000 psi (minimum required for additional payment) achieved in 24 hours or less and developing 6000 psi in 28 days. The additional charge per cubic yard will be paid for high early concrete will be compensation only for the difference in concrete cost per cubic yard and extra labor per yard for all work performed using High Early Strength Concrete when directed to be used by the Project Manager. If high early concrete is placed by the contractor without the request of the City the entire additional cost will be borne by the contractor. When directed by the Project Manager, a maturity meter (James Instrument Model No. 3006) shall be used to monitor on-site maturity of pavement concrete. The Contractor shall provide the Project Manager data outlining an established maturity versus strength relationship for the concrete mixture being used. This correlation may be achieved by casting and curing cylinders on site, monitoring temperature and maturity of cylinders and paving concrete versus time, and testing cylinders at time intervals to establish the correlation.

When High Early Strength Concrete is requested by the City's Project Manager for the convenience of the City, a field strength of 3000 psi shall be achieved within 24 hours and a field strength of 6000 psi (minimum required for additional payment) shall be achieved in 28 days or less. The additional charge per cubic yard will be paid for High Early Strength Concrete will be compensation only for the difference in concrete cost per cubic yard and extra labor per yard for all work performed using High Strength Concrete when directed to be used by the Project Manager. If High Early Strength Concrete is placed by the contractor without the request of the City the entire additional cost will be borne by the contractor.

#### Subsection 412.10 shall be revised to include the following:

The Contractor is required to submit a detailed breakdown of paving equipment, vibratory devices, finishing tools, and provisions for protection from or avoidance of damage from weather impacts. This information shall be submitted for approval by the Project Manager prior to commencing any construction activities.



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### Subsection 412.12 shall be revised to include the following:

The Contractor shall insure that new concrete items built under this contract drain properly and, as such, there are no areas of standing water on new concrete items.

The Contractor shall protect all new concrete items built under this Contract against defacement, or other injury, from any cause. If said damage cannot be adequately repaired to the satisfaction of the Project Manager or if there are any areas of standing water, the Contractor shall remove and replace the unacceptable items at Contractor's expense.

# Subsection 412.13(a) 1, shall be deleted and replaced with the following:

Longitudinal Construction Joints.

Deformed steel tie bars of specified length, size, spacing, and material shall be placed perpendicular to the longitudinal joints by an approved method. When adjacent lanes of pavement are constructed separately, Grade 40 (not Grade 60) tie bars may be bent at right angles against the form of the first lane constructed and straightened into final position before the concrete of the adjacent lane is placed. If epoxy-coated steel tie bars are bent and then straightened into final position, at the Project Manager's discretion the bars shall be repainted with epoxy coating prior to placement of the adjacent concrete. The tie bars shall be inserted into the plastic state concrete between the auger and the vibrators. Other methods of the bar placement may be acceptable if the Contractor can demonstrate satisfactory performance of his alternate method. Proposals of alternate methods or additional costs associated with other methods shall be at the Contractor's expense.

# Subsection 412.13(b), delete the first sentence and replace it with the following:

Weakened plane joints shall be formed by sawing to the depth specified on the drawings, in accordance with the requirements of this subsection or as otherwise approved by the Project Manager, except as follows: The contractor shall adhere to the City and County of Denver Noise Control Ordinance (D.R.M.C. Chapter 36), joints shall be formed initially by deep tooling or "soft-cut" methods, followed by sawing at the first available time within the ordinance.

### Subsection 412.13(b) 2, delete the first and second paragraphs and replace with the following:

Transverse weakened plane joints shall be formed by sawing a groove in hardened concrete in accordance with City of Denver Transportation Standards and Details for the Engineering Division as per STD. DWG. NO. 11.3 Concrete Pavement Joint Sealant plan details.

The Contractor shall cut the transverse and longitudinal joints to the width and depth required in accordance with City of Denver Transportation Standards and Details for the Engineering Division. The cut shall be made with a power-driven saw. Any damage to the concrete pavement such as spalling or fracturing shall be repaired by the Contractor as directed by the Project Manager at no cost to the project. The joints shall be immediately flushed with water to remove any sawing residue from the joint and pavement surface.

If concrete approaches or any widening beyond the width of the initial pass is constructed subsequent to the driving lanes, transverse weakened plane joints shall immediately be formed in the approaches extending from any joints in the driving lanes.

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## Subsection 412.13(b) 2, shall be revised to include the following:

The time schedule for sawing weakened plane joints shall be as follows: Every second joint shall be sawed 2 to 12 hours after pavement placement, provided the concrete has sufficiently set so as to preclude the dislodging of aggregate particles by the saw. Unless otherwise directed by the Project Manager, the exact time of sawing shall be determined by the Contractor and will be dependent on weather conditions, ambient temperature, mix characteristics and other factors that may affect the setting time of the concrete. Every effort shall be made to saw early enough to control or limit random cracking. The intermediate joints shall be sawed prior to opening to traffic, but in no case, longer than 48 hours after placement of the concrete.

The Contractor shall adhere to the City and County of Denver Noise Control Ordinance (D.R.M.C. Chapter 36). In the event that the need for saw cutting is anticipated during restricted time periods, a "soft-cut" saw shall be used before restricted hours, or deep tooling of joints shall be performed on plastic concrete, followed by saw cutting of the concrete as soon as possible during unrestricted hours. At the discretion of the Project Manager, saw cutting will be prohibited between 10:00 p.m. and 7:00 a.m.

Subsection 412.14 and referenced Section 711.01 Concrete Curing Materials shall be modified, allowable curing compound types and specification for all Portland Cement Concrete Pavement placed on this Contract shall be a combination cure-sealer that meets or exceeds ASTM-1315 Type I, Class A (clear, non-yellowing). The compound must be an acrylic copolymer type, non-freezing solvent based, with a minimum of 25% solids content. Compound must be VOC compliant in accordance with EPA 40 CFR Part 59. The final gloss appearance will serve as proof of application.

The Contractor shall use the cure-sealer according to the manufacturers recommendations so that when applied it will not adversely affect the skid resistance of the pavement.

## Subsection 412.18 shall be deleted and replaced with the following:

This work shall consist of sawing, cleaning and sealing Portland cement concrete pavement joints for new pavements. All Joint Sealing methods and products must be submitted to and approved by the Project Manager in advance of scheduling the work.

Cleaning, repairing and proper curing of any spalls, fractures, breaks or voids in the concrete surface of the joints shall be accomplished at least 4 days prior to installing the backer rod material or joint sealant. Joint sealing or resealing shall be performed only when the ambient and pavement temperatures are 50 degrees F or higher, unless otherwise approved by the Project Manager. The pavement surface and joints shall be dry and the sealant shall not be placed unless the weather conditions are dry. The sealant shall be placed a minimum of 4 days after joints are washed clean.

The Contractor shall thoroughly clean the joint and adjacent pavement for a width of not less than one inch on each side of the joint of all scale, dirt, dust, residue, or any foreign material that will impair bonding of the joint sealant. Immediately prior to the placement of backer rod material and the sealant, the joints shall be cleansed using a minimum of 100 psi compressed air.

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Work shall be stopped when and if it is found that there is oil or moisture in the compressed air. Work shall not resume until suitable adjustments are made. The Contractor is to check for such oil or moisture at the start of every work cycle and periodically during the cycle using a Project Manager approved method. The backer rod shall be placed in such a manner that the grade for the proper depth of the sealant material is maintained. Under no conditions shall the Contractor place the backer rod material or the sealant if there is dust, moisture, oil or any foreign material on that portion of the concrete that is to receive the backer rod material or joint sealant.

A copy of the manufacturer's recommendations pertaining to the heating and application of the sealant shall be submitted to the Project Manager prior to the beginning or work, and these recommendations shall be adhered to by the Contractor, with such exceptions as this specification may require.

The sealant material shall be hot applied into the joint using equipment and techniques recommended by the joint sealant manufacturer. The surface of the finished joint seal shall have a flat level surface that is 3/16 + /- 1/16 inch below the surface of the concrete pavement. Sealant not placed within these tolerances will not be measured and paid for, and the Contractor shall remove the joint sealant material and clean and reseal these joints in accordance with the criteria outlined in the special provision at no additional cost to the project. If, in the opinion of the Project Manager, the Contractor shows an inconsistency in his ability to fill the joints to the required dimensions, the Contractor shall cease his operations until such time as he can comply with the required criteria in a consistent manner.

In addition, the Project Manager may elect to check for bonding or adherence to the sides of the joint. Material shall conform to Subsection 705.01(a).

The joint material must withstand a 20 pound pull force applied perpendicular to the joint as indicated in "COLORADO PROCEDURE 67-90".

#### Subsection 412.22 shall be deleted and replaced with the following:

The pavement shall be cleaned and opened to traffic in accordance with the time requirements shown on the plans or in the specifications.

Pavement shall not be opened until it has reached a compressive strength of 2500 psi inplace, regardless of the curing time required by the Traffic Control Plan. The TCP may necessitate the required compressive strength to be attained within 72 hours or less.

## Subsection 412.23 shall be revised to include the following:

Payment under Concrete Pavement shall be full compensation for all materials and labor required to complete the various pavement sections, including the areas of thickened edges, driveways, bus pads and alley paving.

New curb and gutter that is adjacent to new concrete pavement will not be measured and paid for separately but included in the square yard measurement for concrete pavement. Measurement and payment will be to back of curb except where curb ramp limits overlap.

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This work shall also include concrete streets, driveways, crosspans, bus pads and alley paving with the finished area measured by the square yard and paid by their respective thickness as Concrete Pavement.

Geo-Tech Material Testing Concrete quantities to be measured will include all equipment, materials and labor to sample concrete at the site of the pour, perform air and slump test, batch weight, make cylinders, transport to lab and perform cylinder strength compression break tests (at 7, 14 and two at 28 days unless otherwise specified for high early strength concrete by the Project Inspector/Manager) for 4 cylinders for each test including report as outlined in Subsection 412.03 all to be completed by a Certified Laboratory/Personnel. Concrete strength test reports submitted to the Project Manager in advance of each Pay Application to be considered for payment.

The accepted quantities for "Concrete Pavement (-") will be paid for at the contract unit price for each of the pay items listed below that appear in the Contract bid schedule. Payment shall be full compensation for all labor, equipment, time and materials for each unit bid item complete in place including saw cutting, joint sealing, scraping, sandblasting, removal, hauling and disposal of suchitems, excavation of subgrade material reconditioning or installation of aggregate base course and subsuequent backfill, grading and compaction (with moisture/density control per the Revision of Subsection 203.07) to proposed subgrade elevation. The price shall also include salvageable materials removed, their custody, preservation, storage, hauling and disposal as provided herein.

When authorized for use by the Project Manager/Inspector the accepted quantities for "High Early Strength Concrete" and "Concrete Class D (Colored)" will be compensation only for the difference in concrete cost per cubic yard and extra labor per yard for all work performed using "High Early Strength Concrete" and Concrete Class D (Colored) will be measured by the cubic yard based on copies of the approved supplier's concrete load tickets provided with a summary in tabular form and summarized utilizing the Field Measurement Report (FMR), see FMR sample in APPENDICES at the end of the Technical Specifications, with each Application for Payment. Copies of all concrete tickets are required for concrete used during that pay period; a separate summary is required for the Quantity of High Early Strength Concrete and includes the ticket number, date and address where it was poured.

<u>PAY ITEMS</u>	<u>PAY UNIT</u>
24-Hour High Early Strength Concrete	CY
Concrete Class D (Colored)	CY
Geo-Tech Material Testing Concrete	HR
( _") Concrete Pavement	SY



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Payment shall be full compensation for labor and materials including, but not limited to, reconditioning, grading, backfill including topsoil and soil amendments, compaction, quality control material testing, curing compound, control and expansion joint and sealant as required to complete these Pay Items.

When the contract does not include pay items for FIBERMESH® or APPROVED EQUIVALENT reinforcement additive, cure-sealer, curing compound, saw cut for construction, control or expansion joints and sealant will not be paid for separately but shall be included in the related concrete work.

Saw-cut Expansion Joint only includes those areas where existing pavement must be cut for the sole purpose of installing an expansion joint. Payment shall be full compensation for "soft cutting" and tooling necessitated by City and County of Denver Noise Control Ordinance (D.R.M.C. Chapter 36), saw cutting hardened concrete, cleaning out the saw cut, expansion material and sealant.

When the contract does not include pay items for Portland Cement Concrete Pavement, these items will not be paid for separately but shall be included in the work.

**END OF REVISION OF SECTION 412** 



## SECTION 413 CONCRETE PATCHING AND CURB HEAD REPLACEMENT

## **DESCRIPTION**

413.01 This work consists of patching and curb head replacement on existing concrete pavement.

#### **MATERIALS**

413.02 Concrete patching material must be a one component system that requires an exact addition of water. They must meet the following performance requirements at maximum water.

A.	Bond Strength:	1 Day	1500 psi.
	ASTM C-882	7 Days	2500 psi.
В.	Length Change:	28 Days Dry	-0.05%
	ASTM C-157	28 Days Wet	+0.05%
C.	Compressive Strength: ASTM C-109	2 Hours 1 Day 7 Days	2500 psi. 5000 psi. 7000 psi.

Aggregate shall consist of 3/8" clean, washed and dried gravel or crushed stone of reasonably uniform quality throughout.

Fushion-Crete®, Transpo T-17 Methyl Methacrylate Polymer Concrete Patching Material, Five Star® Highway Patch, U.S. Grout Corporation® Cementitious Grout, Catch Pavemend®, HD-50 Horizontal Repair Mortar by Dayton ® Superior ® Corporation are all approved concrete patching material. Concrete patching material brand and technical specifications shall be submitted for approval.

## **CONSTRUCTION REQUIREMENTS**

## 413.03 Preparation of Concrete Surface:

Remove all grease, oil, dirt, curing compounds, laitance and other deleterious materials from the concrete. Roughen the surfaces by sand blasting and provide a near vertical face on the edges of existing concrete to ensure bond. Loose or broken concrete shall be removed. If any existing rebar reinforcing is exposed, it shall be sandblasted. All surfaces shall be thoroughly saturated, and free standing excess water shall be removed with clean compressed air before applying the structural repair material. Minimum depth of patching is 1/2 inches.

## 413.04 Placing Concrete Patch Material:

Carefully read and understand the manufacturer's instructions as printed on the container. The PWSTM Standard Concrete Construction Details & Technical Specifications



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mixing operation should be close to the repair area. A mortar mixer is recommended. For small quantities, an electric drill and paddle mixer is recommended. The mixing order for mortar type mixer shall be as follows:

- 1. Clean water shall be placed in the mixer at the rate specified on the container instructions. Water content is critical; do not deviate from the amount specified.
- 2. When temperatures exceed 90 F, a prepackaged set retarder shall be used as recommended by the manufacturer. Add retarder to mixing water, maximizing dispersion in the mix.
- 3. For pours with greatest depth exceeding 3", 3/8-inch clean washed pea gravel shall be added to the mix at a rate not to exceed 25 lbs. per 50 lb. pail.
- 4. Add the repair material. This sequence is important in order to produce a consistent mix and to reduce mixing time. Allow approximately 3 minutes mixing time.
- 5. When pouring large volumes of material, special consideration should be given to maintaining a continuous flow of material producing a wet leading edge. More than one mixer may be necessary to deliver enough material to insure no cold joints.

Place the mixed material into the prepared area, starting from one side of the repair and working to the other side. Do not place the repair material in lifts. Work the material firmly into the bottom and sides of the repair. Screed the material to the desired level. Close up edges of the repair with a trowel. Finish the material to the desired texture. Do not re-temper the material. Clean the mixer and tools periodically with water to prevent build-up, especially in hot temperatures. As soon as the material sets, all exposed surfaces must be thoroughly saturated for 30 minutes.

- 413.05 Concrete Curb Head Replacement. Concrete curb head that was paved with the concrete pavement shall be constructed as follows:
  - 1. Remove broken curb head and concrete pieces from sound concrete.
  - 2. Place no. 4 deformed vertical bars, 18" O.C. by drilling. Place no. 4 horizontal bars across vertical bars.
  - 3. Prior to pouring new curb head, sand blast existing concrete pavement at curb head location or use other cleaning method as approved by the Project Manager.
  - 4. Saturate sand blasted area and remove standing water immediately prior to replacing concrete.
  - 5. Consolidate concrete by use of high frequency internal vibrators.
  - 6. Provide 1/8" open joint in curb head at existing contraction joints in concrete pavement.



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## **METHOD OF MEASUREMENT**

All type of Concrete Patching (Structural "-") shall include removal and hauling of the material to be removed and also includes surface preparation and removal of loose material and cleaning of the existing concrete surface as per material supplier's recommendations according to the material product data sheets included in the submittal for any and all materials used for Concrete Patching (Structural "-"). Concrete surface patch shall be measured by the average of depth measured in inches patching multiplied by the square foot or as required by the Project Manager. All quantities to be submitted for payment must be measured in person by the Contractor with the Project Inspector and recorded by location in tabular form and summarized utilizing the Field Measurement Report (FMR), see FMR sample in APPENDICES at the end of the Technical Specifications, in manner acceptable to the Project Manager and be submitted for review and acceptance in advance of each pay application.

#### **BASIS OF PAYMENT**

413.06 The accepted quantities will be paid for at the contract unit price for each of the pay items listed below that appear in the bid schedule.

Payment will be made under:

PAY ITEMS	<u>PAY UNIT</u>
Concrete Patching (Structural surface repair)	SF-IN
Concrete Patching (Structural Curbhead)	LF

Payment shall be full compensation for labor and materials including, but not limited to, reconditioning, grading, backfill including topsoil and soil amendments, compaction, quality control material testing, curing compound, control and expansion joint and sealant as required to complete these Pay Items.

When the contract does not include pay items for FIBERMESH® or APPROVED EQUIVALENT reinforcement additive, cure-sealer, curing compound, saw cut for construction, control or expansion joints and sealant will not be paid for separately but shall be included in the related concrete work.

Saw-cut Expansion Joint only includes those areas where existing pavement must be cut for the sole purpose of installing an expansion joint. Payment shall be full compensation for "soft cutting" and tooling necessitated by City and County of Denver Noise Control Ordinance (D.R.M.C. Chapter 36), saw cutting hardened concrete, cleaning out the saw cut, expansion material and sealant.

All work necessary and incidental to the concrete patching and curb head replacement will not be measured and paid for separately but shall be included in the work.

#### **END OF SECTION 413**

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## REVISION OF SECTION 601 STRUCTURAL CONCRETE

Section 601 of the Standard Specifications is hereby revised as follows:

Subsection 601.06, Item 7, is modified as follows: (7) Supplier's Mix I.D. number

Subsection 601.07, (d) is deleted. Self-contained mobile mixers will not be allowed.

## **METHOD OF MEASUREMENT**

601.19 Shall be revised as follows:

Pavestone® or equivalent product acceptable to the adjacent property owner as needed to repair or reconstruct existing stacked concrete block wall will be measured by the square foot of vertical face. Re-enforced Variable Height Concrete Retaining Wall will be constructed 8" thick between 9"-12" with Fibermesh® or approved equivalent only and 8" wall thickness from 12"-30" including #4 rebar placed 12" on center each way (minimum) with vertical to horizontal "L" rebar integrated into monolithically poured adjacent 8" thickened concrete flatwork thickened to 8" for a minimum of 24" from the vertical face be used as directed by the Project Inspector/Manager for Re- enforced Variable Height Concrete Retaining Walls greater than 9" to be measured by the square foot of the vertical face and SF area of 24" wide thickened horizontal adjacent concrete flatwork as directed by the Project Inspector/Manager. All type of Concrete Patching (Structural "-") shall include removal and hauling of the material to be removed and also includes surface preparation and removal of loose material and cleaning of the existing concrete surface as per material supplier's recommendations according to the material product data sheets included in the submittal for any and all materials used for Concrete Patching (Structural "-"). Curb head repair or replacement will be measured by the lineal foot along the front of the curb head. All quantities to be submitted for payment must be measured in person by the Contractor with the Project Inspector and recorded by location in tabular form and summarized utilizing the Field Measurement Report (FMR), see FMR sample in APPENDICES at the end of the Technical Specifications, in manner acceptable to the Project Manager and be submitted for review and acceptance in advance of each pay application.

#### **BASIS OF PAYMENT**

601.20 The accepted quantities will be paid for at the contract unit price for each of the pay items listed below that appear in the bid schedule.

Payment will be made under:

PAY ITEMS	PAY UNIT
Pavestone® Stacked Pre-cast Wall Blocks	SF
Reinforced Variable Height Concrete Retaining Wall	SF

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Payment shall be full compensation for labor, equipment and materials including, but not limited to, grade 60 reinforcing #4 rebar, soil reconditioning, grading, backfill and soil including topsoil and soil amendments, compaction, quality control material testing, curing compound, control and expansion joint and sealant as required to complete these Pay Items.

When the contract does not include pay items for FIBERMESH® or APPROVED EQUIVALENT reinforcement additive, cure-sealer, curing compound, saw cut for construction, control or expansion joints, zip-strip and sealant will not be paid for separately but shall be included in the related concrete work.

**END OF REVISION OF SECTION 601** 



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## REVISION OF SECTION 603 CULVERTS AND SEWERS

Section 603 of the Standard Specifications is hereby revised as follows:

#### **MATERIALS**

Subsection 603.02 shall be replaced with:

Materials shall meet the requirements described in the current version of the City and County of Denver Wastewater Capital Projects Management Standard Construction Specifications Chapter 10.1 (Precast Concrete Pipe).

## **CONSTRUCTUION REQUIREMENTS**

Subsection 603.03 through 603.10 shall be replaced with:

Reinforced Concrete Pipe shall be constructed in accordance with the Wastewater Capital Projects Management Standard Construction Specifications as well as the current version of the Department of Public Works City and County of Denver Wastewater Management Division Standard Details.

#### METHOD OF MEASUREMENT

Subsection 603.11 shall be replaced with:

The unit price bid per linear foot for the construction of each section of pipeline shall include all of the Contractor's costs of whatsoever nature for the complete construction of the pipeline, exclusive of manholes, appurtenances, or items otherwise provided for in the Contract Documents. The bid item shall include: trench sloping, benching, bracing, shoring and/or sheeting for pipe and associated appurtenances to assure safe working conditions; design of shoring, stamping and approval by an Engineer licensed in the State of Colorado, submittal as required; furnishing, transporting and installing all pipe and materials; tapping and/or connecting to mainline pipes, structures, stub outs or block outs; concrete coring; plugging of all abandoned lines crossed during construction; furnishing and installing special fittings, including: trash racks, concrete pipe plugs as required, transitional pipe sections required to properly connect different classes of pipe without a manhole or structure and any other special fittings not provided for elsewhere in the Contract Documents; joints and jointing materials, including: grout ,mortar, fiberglass resin, gaskets, seals, bolts, concrete collars, connecting bands, and other miscellaneous items as required to construct the specific pipe joint per manufacturer and City standards; saw cutting and/or roto-milling within mainline (Bf extents) and lateral trench extents prior to excavation; removal and disposal of pavement, roadway surface materials, concrete flatwork, sod, landscaping, stumps, brush, unsuitable material within the trench width and any other materials encountered prior to excavation; excavation, including exploratory excavation, as required by the Construction Project Manager; over- excavation to remove unsuitable foundation material and replacement with granular

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or other approved select materials; constructing the specified bedding including the furnishing, placing, and compaction of sand, gravel and rock as required for class B bedding or approved substitution; supply and installation of protective coatings or wrappings; backfilling to include furnishing, transporting, and placement of any additional suitable backfill material required (except for those classified backfill materials provided for elsewhere in the Contract Documents); compaction and backfilling as specified, no additional or separate payment will be made for excess excavated material used as backfill or select material elsewhere on the project; restoration of ground surface to its original condition; grading and leveling; care and diversion of drainage courses; pumping and provision of facilities for diversion of flows; trench dewatering; protection and adjustment of aboveground and underground utilities and service connections or laterals, including water service reconnections and adjustments; sanitary sewer encasement; adjustment and reconnection of sanitary sewer services from mainline sewer to a point where proper connection and drainage can be achieved, unless provided for elsewhere in the Contract Documents; removal and replacement of hydrant laterals and assemblies damaged or relocated during crossing; coordination of gas service and electric relocates; crossing of existing and abandoned utilities; cutting and/or plugging of abandoned or crossed lines where indicated in the Contract Documents, or as directed by the Construction Project Manager; hauling and disposal of construction debris, excess excavated material, damaged materials, unsuitable materials and manifested contaminated materials at the Denver Arapahoe Disposal Site (DADS), recycle and salvage of materials as necessary; removal and replacement and/or relocation of signs, and pipe bollards; providing for additional traffic control, to include barricades, detours and flagmen unless provided for elsewhere in the Contract Documents; removal and replacement of all traffic signal and/or activated loops; QC testing for all associated work components; and all other related and necessary materials, labor and equipment required to construct a complete operable pipeline in accordance with the Contract Documents.

#### **BASIS OF PAYMENT**

Subsection 603.12 shall include the following:

The accepted quantities will be paid for at the contract unit price for each of the pay items listed below that appear in the bid schedule.

Payment will be made under:

PAY ITEMS	<u>PAY UNIT</u>
15" Reinforced Concrete Pipe (RCP)	LF
18" Reinforced Concrete Pipe (RCP)	LF

Payment shall be full compensation for labor, equipment and materials including, but not limited to, grade 60 reinforcing #4 rebar, soil reconditioning, grading, backfill and soil including topsoil and soil amendments, compaction, quality control material testing, curing compound, control and expansion joint and sealant as required to complete these Pay Items.

When the contract does not include pay items for FIBERMESH® or APPROVED EQUIVALENT PWSTM Standard Concrete Construction Details & Technical Specifications



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reinforcement additive, cure-sealer, curing compound, saw cut for construction, control or expansion joints, zip-strip and sealant will not be paid for separately but shall be included in the related concrete work.

## **END OF REVISION OF SECTION 603**



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# REVISION OF SECTION 604 MANHOLES, INLETS AND METER VAULTS

Section 603 of the Standard Specifications is hereby revised as follows:

#### **CONSTRUCTION REQUIREMENTS**

Subsection 604.04 (c) shall include the following:

Inlets shall be constructed in accordance with the most current version of the Department of Public Works City and County of Denver Wastewater Management Division Standard Details. Single #16 Inlets are shown on sheet S-616.1

#14 Inlet (L=6') are shown on sheet S-620.1 and S-620.2

#### **METHOD OF MEASUREMENT**

Subsection 604.06 shall be replaced with the following:

The unit price bid per inlet structure shall include all of the Contractor's costs of whatsoever nature. The price bid shall include: furnishing, transporting, and installing all materials; excavation, including over-excavation to remove unsuitable foundation materials; hauling and disposal of excess material, concrete, pipe collars, reinforcement steel, mortar and grout; manhole lids, rings, covers, grates, frames and curb boxes; open throat construction; galvanized steel rods; manhole steps; concrete ribbed deflectors; backfilling and compaction; removal and replacement of pavement, base coarse, sub-base materials, sod, decorative landscaping and any other surfacing materials; constructing and shaping of the base and invert; replacement of curb, gutter and sidewalk between the transitions as stipulated on the Details; and all other related and necessary materials, work, and equipment required to construct the storm inlet.

## **BASIS OF PAYMENT**

Subsection 604.07 shall include the following:

The accepted quantities will be paid for at the contract unit price for each of the pay items listed below that appear in the bid schedule.

Payment will be made under:

PAY ITEMS
Number 14 Inlet
EA
Single Number 16 Inlet
EA

Payment shall be full compensation for labor, equipment and materials including, but not limited to, grade 60 reinforcing #4 rebar, soil reconditioning, grading, backfill and soil including topsoil and soil amendments, compaction, quality control material testing, curing compound, control and

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Expansion joint and sealant as required to complete these Pay Items.

When the contract does not include pay items for FIBERMESH® or APPROVED EQUIVALENT reinforcement additive, cure-sealer, curing compound, saw cut for construction, control joints or expansion joints, zip-strip and sealant will not be paid for separately but shall be included in the related concrete work.

## **END OF REVISION OF SECTION 604**



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## REVISION OF SECTION 608 SIDEWALKS AND BIKEWAYS

Section 608 of the Standard Specifications is hereby revised as follows:

As a condition acceptance and of payment the Contractor must certify and shall be responsible to ensure that All Concrete Sidewalk and all Concrete Curb ramps shall be constructed by and additionally meet the requirements of the City of Denver Public Works Transportation Standards and Details for the Engineering Division. It shall be the Contractor's responsibility to assess the existing conditions and notify the Project Manager in advance of the work of any existing field conditions, obstacles or conflicts that might inhibit any section of sidewalk or curb ramp from meeting the design criteria outlined in the City of Denver Public Works Transportation Standards and Details for the Engineering Division. All concrete used for Sidewalks, Curb Ramps and Bikeways shall be Class P. Polypropylene fibers (FIBERMESH® or APPROVED EQUIVALENT) shall be used at the request of the Project Manager. Length of fibers shall be as recommended by the manufacturer. Add 1.5 pounds FIBERMESH® or APPROVED EQUIVALENT per cubic yard of concrete.

Subsection 608.02 shall be deleted in its entirety and replaced with the following:

Materials shall meet the requirements specified in subsection 705.11 joint Fillers. Concrete for sidewalks, curb ramps and bikeways shall be Portland Cement Concrete Pavement and shall be a minimum 4500 psi mix design with 20% maximum fly ash and shall be reinforced with polypropylene fibers, as specified in subsections 601.02 and 601.03, except that No. 67 coarse aggregate shall be used. The concrete curb ramp shall include the cost of an approved truncated dome material and its installations. A sample of the truncated dome material shall be submitted to the Project Manager for approval prior to construction. Only cast-iron ADA dome panels will be paid separately and will cover only the cost of the ADA cast iron dome panel material. The use of calcium chloride, as permitted under Revision of Section 412, subsection 412.04, is prohibited in colored concrete. It is the Contractor's responsibility to provide Quality Control for material density and strength testing and provide test results in a testing frequency, method and report as per Pre-construction submittal Quality Control Plan (QCP) that must be approved by the City Project Manager prior to starting work. Quality Control material testing, reports and submittals and unless provided for separately in this Contract will not be paid for separately but shall be included in the work.

The Quality Control Plan (QCP) is a required submittal that is Contract Specific and states how the process controls of materials, material testing, equipment, personnel and operations shall be maintained. As a minimum, the QCP shall include the following:

- 1. Project Contract Control Number and Name. Date of the NTP and subsequent close out date with respect to allotted calendar days.
- 2. The company name, personnel names and duties, telephone number(s), of all quality control personnel to be utilized from a certified lab including current copies of their certification letter.
- 3. Sub-grade compaction and concrete tests will be once weekly or additionally as needed PWSTM Standard Concrete Construction Details & Technical Specifications



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- for Quality Control in critical conditions. Additional concrete tests are required for each instance High Early Strength Concrete is used.
- 4. Written test reports including all pertinent information in a form acceptable to the Project Manager. Test reports must be submitted in a timely fashion, as a minimum test reports must be submitted within 30 days of the test and acceptance of the related materials or product is contingent upon receipt of acceptable reports.

## Subsection 608.03(a) shall be revised as follows:

Delete the third sentence and add:

Where excavation or fill to the finished grade elevation results in subgrade of unsuitable soil, the Project Manager or Project Inspector may designate the unsuitable material to be removed and replaced with approved material. Removal or reconditioning of unsuitable material, excavation and backfill with Class 6 Aggregate Base Course, in accordance with Revision of Section 203.05(c), or other material approved by the Project Manager shall not be paid separately but is included in the cost of the related concrete bid item. Excavation to proposed subgrade elevation will not be paid for separately but shall be included in the work associated with Section 201, Clearing and Grubbing or Section 202, Removal of Structures and Obstructions. Any forming and curb work to match existing surrounding landscaped or paved areas is included in the cost of the curb ramp and measured by the square yard of finished area.

## Subsection 608.03(d) shall be revised to include the following:

Finishing shall occur only after the disappearance of bleed water. The addition of superficial water to the surface of the concrete to assist in finishing operations will not be permitted. Sprinkling of water or Con-film onto the freshly poured surface will not be permitted.

## Subsection 608.03(e) shall be revised to include the following:

For Bikeways, control joints shall be zip-strip or saw cut to a minimum depth of ¼ of the total slab thickness and no greater than ¼ inch wide. Control joints shall be spaced at 10 feet on center or as noted on the plans. Any damage to the concrete such as spalling, dislodging of aggregate particles, or cracking will be repaired by the Contractor at no additional cost to the Project. If said damage cannot be adequately repaired to the satisfaction of the Project Manager, the Contractor shall remove and replace the damaged concrete at no additional cost to the Project.

## Subsection 608.03(f) shall be revised to include the following:

The Contractor shall insure that new concrete items built under this contract drain properly and, as such, there are no areas of standing water on new concrete items.

The Contractor shall protect all new concrete items built under this Contract against defacement, or other injury, from any cause. If said damage cannot be adequately repaired to the satisfaction of the Project Manager, the Contractor shall remove and replace the unacceptable items at Contractor's expense.

#### Subsection 608.05 shall be revised to include the following:

Only Concrete Curb Ramp areas poured 6" thick that may include variable height curb as directed by the Project Inspector and are placed at a slope that meets minimum and maximum

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slope requirements as per the latest revision of the City of Denver Transportation Standards and Details for the Engineering Division with respect to ADA accessibility standards shall be measured as Concrete Curb Ramp. Any variable height curb poured monolithically with the Concrete Curb Ramp will not be paid separately but shall be measured by the exposed square yard surface area and paid as Concrete Curb Ramp. The accepted quantities for "Concrete Sidewalk/Curb Ramp will be paid for at the contract unit price for each of the pay items listed below that appear in the Contract bid schedule. Payment shall be full compensation for all labor, equipment, time and materials for each unit bid item complete in place including saw cutting, scraping, sandblasting, removal, hauling and disposal of such items, excavation of subgrade material reconditioning or installation of aggregate base course and subsequent backfill, grading and compaction (with moisture/density control per the Revision of Subsection 203.07) to proposed subgrade elevation. The price shall also include salvageable materials removed, their custody, preservation, storage, hauling and disposal as provided herein.

When authorized for use by the Project Manager/Inspector the accepted quantities for "High Early Strength Concrete" and/or "Concrete Class D (Colored)" will be compensation only for the difference in concrete cost per cubic yard and extra labor per yard for all work performed using "High Early Strength Concrete" and will be measured by the cubic yard based on copies of the approved supplier's concrete load tickets provided with a summary in tabular form with each Application for Payment.

Copies of all concrete tickets are required for concrete used during that pay period; a separate summary is required for the Quantity of High Early Strength Concrete and includes the ticket number, date and address where it was poured.

Saw-cut Expansion Joint only includes those areas where existing pavement must be cut for the sole purpose of installing an expansion joint. Payment shall be full compensation for "soft cutting" and tooling necessitated by City and County of Denver Noise Control Ordinance (D.R.M.C. Chapter 36), saw cutting hardened concrete, cleaning out the saw cut, expansion material and sealant.

All quantities to be submitted for payment must be measured in person by the Contractor with the Project Inspector and recorded by location in tabular form and summarized utilizing the Field Measurement Report (FMR), see FMR sample in APPENDICES at the end of the Technical Specifications, in manner acceptable to the Project Manager and be submitted for review and acceptance in advance of each pay application.

<u>PAY ITEM</u>	PAY UNIT
Concrete Sidewalk	SY
Concrete Curb Ramp	SY
Truncated Domes (Special Cast Iron) Material Only	SF

Payment shall be full compensation for labor and materials including, but not limited to, removal, reconditioning, grading, backfill including topsoil and soil amendments, compaction, quality control material testing, curing compound, control and expansion joint and sealant as required to complete these Pay Items.

When the contract does not include pay items for FIBERMESH® or APPROVED EQUIVALENT

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reinforcement additive, cure-sealer, curing compound, saw cut for construction, control or expansion joints, zip-strip and sealant will not be paid for separately but shall be included in the related concrete work.

## **END OF REVISION OF SECTION 608**



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## REVISION OF SECTION 609 CURB AND GUTTER

Section 609 of the Standard Specifications is hereby revised as follows:

All Concrete Gutter Overlay, Variable Height Curb Head with reinforcement, Curb and Gutter and Combination Curb, Gutter and Sidewalk shall additionally meet the requirements of the City of Denver Public Works Transportation Standards and Details for the Engineering Division. All concrete used shall be Portland Cement Concrete Pavement and shall be a minimum 4500 psi mix with 20% maximum fly ash. Polypropylene fibers (FIBERMESH® or APPROVED EQUIVALENT) shall be used at the request of the Project Manager. Length of fibers shall be as recommended by the manufacturer. Add 1.5 pounds FIBERMESH® or APPROVED EQUIVALENT per cubic yard of concrete.

Subsection 609.01 shall be revised to include the following:

Concrete Gutter Overlay Variable Height Curb with Reinforcement Curb and Gutter Combination Curb, Gutter and Sidewalk

## Subsection 609.02 shall be revised as follows:

Reference to Section 703.07, Bed Course Material, shall be deleted.

Additionally, Joint Filler must be approved by the Project Manager.

Reference to Class B concrete shall be deleted and replaced with the following:

Concrete shall conform to the requirements for Class "P" concrete as specified in subsections 601.02 and 601.03. When curb machines are used, the Contractor will be permitted to use AASHTO M 43 Size 57 or 67 aggregate in lieu of the coarse aggregate specified in Table 601-1, and a lesser slump will be permitted.

It is the Contractor's responsibility to provide Quality Control for material density and strength testing and provide test results in a testing frequency, method and report as per Preconstruction submittal Quality Control Plan (QCP) that must be approved by the City Project Manager prior to starting work. Quality Control material testing, reports and submittals will not be paid for separately but shall be included in the work.

The Quality Control Plan (QCP) is a required submittal that is Contract Specific and states how the process controls of materials, material testing, equipment, personnel and operations shall be maintained. As a minimum, the QCP shall include the following:

- 1. Project Contract Control Number and Name. Date of the NTP and subsequent close out date with respect to allotted calendar days.
- 2. The company name, personnel names and duties, telephone number(s), of all quality control personnel to be utilized from a certified lab including current copies of their certification letter.
- 3. Sub-grade compaction and concrete tests will be once weekly or additionally as needed for Quality Control in critical conditions. Additional concrete tests are required for each

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instance High Early Strength Concrete is used.

4. Written test reports including all pertinent information in a form acceptable to the Project Manager. Test reports must be submitted in a timely fashion, as a minimum test reports must be submitted within 30 days of the test and acceptance of the related materials or product is contingent upon receipt of acceptable reports.

## Subsection 609.03(a) shall be revised as follows:

Where excavation or fill to the finished grade elevation results in subgrade of unsuitable soil, the Project Manager or Project Inspector may designate the unsuitable material to be removed and replaced with approved material. Removal or reconditioning of unsuitable material, excavation and backfill with Class 6 Aggregate Base Course, in accordance with Revision of Section 203.05(c), or other material approved by the Project Manager shall not be paid separately but is included in the cost of the related concrete bid item.

## Subsection 609.03(c) shall be revised to include the following:

The Contractor shall protect all new concrete items built under this Contract against defacement, or other injury, from any cause. If said damage cannot be adequately repaired to the satisfaction of the Project Manager, the Contractor shall remove and replace the unacceptable items at Contractor's expense.

## Subsection 609.03(d) shall be revised to include the following:

For construction of curb and gutter adjacent to existing concrete pavement, the joint pattern shall match that of the concrete pavement. The joint pattern shall be approved by the Project Manager prior to construction.

## Subsection 609.03(i) shall be revised to include the following:

The Contractor shall insure that new concrete items built under this contract drain properly and, as a condition of acceptance for payment, there shall be no areas of standing water on new concrete items.

#### Subsection 609.04 shall be revised to include the following:

Variable Height Curb with Reinforcement shall be used only at the request of the Project Manager and shall reference City of Denver Public Works Transportation Standards and Details STD. DWG. NO. 10.4 For Alley Curb Head.

## Subsection 609.06 shall be revised to include the following:

All quantities to be submitted for payment must be measured in person by the Contractor with the Project Inspector and recorded by location in tabular form and summarized utilizing the Field Measurement Report (FMR), see FMR sample in APPENDICES at the end of the Technical Specifications, in manner acceptable to the Project Manager and be submitted for review and acceptance in advance of each pay application.

## Subsection 609.07 shall be revised to include the following:

The accepted quantities for Concrete Gutter Overlay, Curb & Gutter Type (), Section ('") and Combination Curb, Gutter and Sidewalk ('"), Median Cover (6" Patterned Colored Concrete) will

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be paid for at the contract unit price for each of the pay items listed below that appear in the Contract bid schedule. Payment shall be full compensation for all labor, equipment, time and materials for each unit bid item complete in place including saw cutting, scraping, sandblasting, removal, hauling and disposal of such items, excavation of subgrade material reconditioning or installation of aggregate base course and subsequent backfill, grading and compaction (with moisture/density control per the Revision of Subsection 203.07) to proposed subgrade elevation. The price shall also include salvageable materials removed, their custody, preservation, storage, hauling and disposal as provided herein.

When authorized for use by the Project Manager/Inspector the accepted quantities for "High Early Strength Concrete" and "Concrete Class D (Colored)" will be compensation only for the difference in concrete cost per cubic yard and labor per yard for all work performed using High Early Strength Concrete and will be measured by the cubic yard based on copies of the approved supplier's concrete load tickets provided with a summary in tabular form with each Application for Payment.

Copies of all concrete tickets are required for concrete used during that pay period; a separate summary is required for the Quantity of High Early Strength Concrete and includes the ticket number, date and address where it was poured.

<u>PAY ITEM</u>	<u>PAY UNIT</u>
Concrete Gutter Overlay	LF
Curb & Gutter, Type ( ), (Section ' ")	LF
Combination Curb, Gutter and Sidewalk ( '")	LF
Median Cover Material (6" Patterned Colored Concrete)	SY

Payment shall be full compensation for labor and materials including, but not limited to, reconditioning, grading, backfill including topsoil and soil amendments, compaction, quality control material testing, curing compound, control and expansion joint and sealant as required to complete these Pay Items.

When the contract does not include pay items for FIBERMESH® or APPROVED EQUIVALENT reinforcement additive, cure-sealer, curing compound, saw cut for construction, control or expansion joints and sealant will not be paid for separately but shall be included in the related concrete work.

Saw-cut Expansion Joint only includes those areas where existing pavement must be cut for the sole purpose of installing an expansion joint. Payment shall be full compensation for "soft cutting" and tooling necessitated by City and County of Denver Noise Control Ordinance (D.R.M.C. Chapter 36), saw cutting hardened concrete, cleaning out the saw cut, expansion material and sealant.

Excavation to proposed sub-grade elevation will not be paid for separately but shall be included in the related curb & gutter.

## **END OF REVISION OF SECTION 609**

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## REVISION OF SECTION 613 LIGHTING

Subsection 613.12 is revised to include the following:

All quantities to be submitted for payment must be measured in person by the Contractor with the Project Inspector and recorded by location in tabular form and summarized in a manner acceptable to the Project Manager and be submitted for review and acceptance in advance of each pay application.

PAY ITEM PAY UNIT

Loop Detector Wire LF

When the contract does not include pay items for Lighting, this item will not be paid for separately but shall be included in the work.

**END OF REVISION OF SECTION 613** 

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# REVISION OF SECTION 614 TRAFFIC CONTROL DEVICES

Subsection 613.12 is revised to include the following:

All quantities to be submitted for payment must be measured in person by the Contractor with the Project Inspector and recorded by location in tabular form and summarized utilizing the Field Measurement Report (FMR), see FMR sample in APPENDICES at the end of the Technical Specifications, in manner acceptable to the Project Manager and be submitted for review and acceptance in advance of each pay application.

PAY ITEM PAY UNIT

Reset Pull Box EA

When the contract does not include pay items for Traffic Control Devices, this item will not be paid for separately but shall be included in the work.

**END OF REVISION OF SECTION 614** 

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## REVISION OF SECTION 623 IRRIGATION SYSTEM

Section 623 of the Standard Specifications is revised as follows: Subsection

## 623.01 is revised to include the following:

Irrigation systems within twelve inches (12") of the reconstruction areas which are damaged as a result of the reconstruction activity will be repaired and paid for. Irrigation systems beyond this limit which are damaged by the Contractor will be repaired by the Contractor at no expense to the City.

#### Subsection 623.02 is revised to include the following:

Materials required to be replaced shall be of like kind to those removed. If like kind materials are unavailable, the Contractor may substitute comparable materials of comparable quality, if approved by the Project Manager.

Materials used in areas under the jurisdiction of the City and County of Denver Parks and Recreation Department shall comply with the current specifications of that department.

## Subsection 623.28 is revised to include the following:

Pipes and fittings will be measured by the lineal foot, regardless of type, size or manufacturer and shall be paid under "Sprinkler System – Irrigation Reconstruction."

New Sprinkler heads will be measured per each, regardless of type, size or manufacturer, and shall be paid under "Sprinkler System – Sprinkler Head."

Sprinkler heads to be adjusted will be measured per each regardless of type, size or manufacturer, and shall be paid under "Sprinkler System – Adjust Sprinkler Head."

PVC sleeves are required to be placed under new concrete as needed for current or future use and will be measured by the lineal foot, regardless of type, size or manufacturer and shall be paid under "Sprinkler System-Irrigation Reconstruction."

## Subsection 623.32 is revised to include the following:

All quantities to be submitted for payment must be measured in person by the Contractor with the Project Inspector and recorded by location in tabular form and summarized utilizing the Field Measurement Report (FMR), see FMR sample in APPENDICES at the end of the Technical Specifications, in manner acceptable to the Project Manager and be submitted for review and acceptance in advance of each pay application.



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<u>PAY ITEM</u>	PAY UNIT
Sprinkler System – New Sprinkler Head	EA
Sprinkler System – Adjust Sprinkler Head	EA
Sprinkler System – Irrigation Reconstruction	LF

When the contract does not include pay items for Irrigation System, this item will not be paid for separately but shall be included in the work.

## **END OF REVISION OF SECTION 623**



## **REVISION OF SECTION 625 CONSTRUCTION SURVEYING**

Section 625 of the Standard Specifications is hereby clarified with the following:

The Contractor shall furnish all equipment, materials and qualified personnel/labor as needed for construction staking and to establish lines and grades as necessary to complete the work and ensure drainage.

When the contract does not include pay items for Construction Surveying, this item will not be paid for separately but shall be included in the work.

**END OF REVISION OF SECTION 625** 



## REVISION OF SECTION 626 MOBILIZATION

Section 626 of the Standard Specifications is revised as follows:

Section 626.01 shall be revised to including the following:

Prior to starting work the Contractor's staff including superintendents, foreman, lead workers, TCS, ECS, concrete lead-workers and sub-contractors shall attend a 2 hour preconstruction meeting that will include ADA ramp construction training and forum to coordinate, identify and discuss operating procedures regarding sensitive contract issues. The Contractor's TCS and designated lead worker may also be required to attend meetings specific to areas sensitive to the MHT including the Central Business District (Downtown between Broadway to Speer Boulevards from Colfax Avenue to I-25) and major arterial lane closures (Downtown Construction Coordination Meetings). The list of work locations for this project is not included within this Contract document. A sample of the "Potential Work Locations Map" is included in the APPENDICES at the end of the Technical Specifications. The scope of work with the locations will be assigned utilizing the "Work Initiation Form" by a location or groups of locations after the Notice to Proceed. Work assignments may be requested in these "Potential" Work Locations" or other requested locations where spot repairs are needed utilizing the Work Initiation Form by the Project Manager. Concrete repair locations are citywide and generated through complaints or follow the City of Denver's current and projected Annual Street Paving Program with the focus on building curb ramps. There is no guarantee that all the locations assigned will be done under the Contract or that the locations will be done in any priority order. The Project Manager may revise, add or delete locations for which the Contractor will arrange Blue Stake locates; City of Denver Right-of-Way and Denver Parks permits and coordinate notification with all affected municipal, utility and property owner and provide on a weekly basis a three-week work schedule in advance to the Project Manager for approval prior to performing the work for each and all the assigned work locations. The Contractor shall normally not schedule work on Saturdays, Sundays, City of Denver observed Holidays or City of Denver furlough days. The Contractor must submit in writing requests to work longer than normal work hours (8 hours per day and 40 hours per week) or on Holidays or weekends the written request must be submitted to and approved by the Project Manager 48 hours in advance of the scheduled work.

Section 626.02 of the Standard Specifications is hereby revised as follows:

Payment for mobilization will be made if directed by Project Manager to mobilize outside of a quarter-section before 20 cubic yards of concrete is placed.

Meeting attendance by the contractor's personnel shall not be measured and paid for separately but shall be included in the price of the work.

## **END OF REVISION OF SECTION 626**

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## REVISION OF SECTION 627 PAVEMENT MARKING

Section 627 of the Standard Specifications is revised as follows:

## Subsection 627.01 is revised to include the following:

The Contractor is responsible for installation and removal of temporary pavement marking. The Contractor shall coordinate the work of the striping Contractor, including traffic control devices and flaggers.

## Subsection 627.03 is revised to include the following:

The Contractor shall replace permanent pavement markings damaged or removed as a result of the work. Pavement marking material shall be new material of the same type which existed prior to the work commencing.

## Subsection 627.12 is revised as follows:

Installation and removal of temporary pavement marking will not be measured and paid for separately, but shall be included in the cost of item 412.

Permanent paving marking will not be measured and paid for separately, but shall be included in the cost of the related asphalt or Concrete Street paving bid item.

**END OF REVISION OF SECTION 627** 



## REVISION OF SECTION 630 CONSTRUCTION ZONE TRAFFIC CONTROL

Section 630 of the Standard Specifications is hereby revised as follows:

Subsection 630.01 shall be modified to read:

...as required by, these plans and special specifications, conform to the Manual on Uniform Traffic Control Devices for Streets and Highways.

Subsection 630.02 through 630.08 shall be as provided in the MUTCD, latest edition. In addition, the following shall apply:

Traffic Control. Traffic control through the construction area is the responsibility of the Contractor. Before starting construction, the Contractor shall submit, in writing, the proposed Method of Handling Traffic (MHT) for the initial phase of construction. When a different MHT is required for a subsequent construction phase, it must be submitted two weeks prior to starting that phase. All proposed MHTs shall be approved, in writing, by the Project Manager. No phase of construction shall start until an acceptable MHT has been received and approved by the Project Manager. The proposed methods shall include, as a minimum, the following:

A detailed diagram that shows the location of all sign placements, including advance construction signs (if not previously approved) and speed limit signs; method, length and time duration for lane closures; and location of flag persons.

Certain traffic control devices may be used for more than one operation or phase. Number of hours for uniformed traffic control shall be tabulated for submittal.

Approval of the proposed MHT is intended to indicate those devices for which payment is to be made. Such approval does not relieve the Contractor of liability specifically assigned to him under the contract. The Contractor shall erect and maintain warning lights, signs, barricades, and sufficient safeguards around all excavations, embankments, and obstructions.

Non-metallic drums may be substituted for vertical panel channelizing devices.

The Contractor shall, at the preconstruction conference, designate one of his employees, other than the Superintendent, to be responsible for traffic control management. This responsibility shall include management of the Contractor's signing and all other details covered by the Specifications which contribute to the convenience, safety, and orderly movement of traffic and to the comfort of the traveling public. The designated employee will have the Certification of the Traffic Control Supervisor as a Worksite Traffic Supervisor by the American Traffic Safety Services Association (ATSSA) in lieu of completion of the CDOT minimum training requirements.



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Traffic control management shall be maintained on a 24-hour per day basis. The Contractor shall make arrangements so that the Traffic Control Supervisor or his approved representative will be available on every working day, "on call" at all times and available upon the Project Manager's request at other than normal working hours. The Traffic Control Supervisor shall have an up-to-date copy of part VI of the MUTCD, pertaining to traffic controls for street and highway construction, as well as the City and County Traffic Barricade manual, available at all times.

The flagger's STOP/SLOW sign paddle shall be 18 inches with letters six inches high.

Variable message signs shall be used at the request of the Project Manager. Messaging shall be approved by Project Manager.

Subsections 630.09 through 630.14 of the Standard Specifications shall apply except as otherwise provided herein.

Subsection 630.09 (4) shall be revised to include the following:

Access to driveways shall be maintained at all times during construction. The Contractor shall coordinate driveway work with the property owner.

The amount paid per day shall not exceed one unit of Traffic Control for an Arterial, one unit of traffic control for Local/Collector and includes all materials, equipment, personnel and traffic controls plans to conform to all Rules & Regulations for any Street Occupancy Request required to complete the assigned work by the City of Denver, adjacent municipalities and CDOT.

Subsection 630.15 shall be revised to include the following:

When the contract bid schedule includes Traffic Control pay items as a lump sum per day:

The PAY UNIT: LS/DAY for Traffic Control Arterial/Collector and Traffic Control Local shall be defined for the purposes of this Contract only include a work day when the Contractor is on-site completing some phase of the assigned repair work from 12:00 midnight to 12:00 midnight, furthermore weekends, City Holidays, City furlough days and days the Contractor is not on-site completing work other than Traffic Control are not included in this Pay Item. Traffic Control devices will not be measured but will be paid for on a lump Sum basis except for variable message signs. For a complete road closure in a residential street for a crosspan removal and repair the traffic control shall be paid as 1 LS/DAY of Traffic Control Arterial/Collector for that application for the entire duration at that location that shall include set-up, maintenance and take down for as many days needed to complete work at that location.

Payment for traffic control shall be as follows:

PAY ITEMPAY UNITTraffic Control ArterialLS/DAYTraffic Control CollectorLS/DAYUniformed Traffic Control OfficerHOUR

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LS/DAY

\* - The designation of which roads are Arterial/Collector and which roads are Local and shall be determined by the City's Right of Way Permitting Department. Arterials and collector streets generally have center line striping.

When the contract bid schedule does not include pay items for Traffic Control; Payment for all Traffic Control shall be included in the work.

**END OF REVISION OF SECTION 630** 



## REVISION OF SECTION 631 PUBLIC INFORMATION SERVICES

#### **DESCRIPTION**

631.01 The work consists of providing various public involvement activities for the project.

## **REQUIREMENTS**

- 631.02 The Contractor shall provide the following public information services on an ongoing basis throughout the duration of the project:
  - 631.02.1 A contact person and phone number for the project shall be designated by the Contractor at the pre-construction meeting. This individual shall be primarily responsible for maintaining communications with the Project Manager and affected businesses and property owners.
  - 631.02.2 The Contractor will also distribute door hang tags to all property owners adjacent to construction and also all residences and businesses impacted by construction or road closures or detours no less than 48 hours (as per General Contract Conditions Section 703) prior to commencing removal operations, outlining the proposed work as well as the company name, phone number, and contact person familiar with the project. The hang tag shall be supplied by the City and it shall be the Contractor's responsibility to request and adequate number of hang tags one week in advance to properly notify all affected property owners/residents. Occasionally as needed supplemental written notices will be required to be delivered one week in advance at the direction of the Project Manager for issues such as construction conflicts related to business access, special landscape, and fence or tree removal. The cost of delivering the door hang tags and any other letter or notice to the public shall not be paid for separately, it is included in the related work.
  - 631.02.3 The Contractor shall maintain a written log detailing the time, date, name, contact information, location, nature of the call or complaint and resolution (if needed) regarding any and all contacts from constituents. The Contractor will revise and submit a current copy of this log with each Application for Payment.

#### **METHOD OF MEASUREMENT**

631.03 Public information services will not be measured and paid for separately, but shall be included in the work.

## **END OF SECTION 631**

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## REVISION OF SECTION 703 STONE MATRIX ASPHALT PAVEMENT

Section 630 of the Standard Specifications is hereby revised as follows:

Subsection 703.06 shall include the following:

Miner filler for the Stone Matrix Asphalt pavement shall be limestone dust and shall meet the requirements of this subsection and the following:

Plasticity Index (AASHTO T90) 4% Maximum

The Contractor shall submit hydrometer analysis (AASHTO T88) for the mineral filler used in the SMA mix.

**END OF SECTION 631** 

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## REVISION OF SECTION 705 JOINT, WATERPROOFING AND BEARING MATERIALS

Section 705 of the Standard specifications is hereby revised for this project as follows:

Subsection 705.01(a) shall be revised to include the following: Sealant shall be heated only for the time limit recommended by the manufacturer. Also, the sealant shall not be reheated more times than recommended by the manufacturer.

Subsection 705.01 shall be revised to include the following:

(c) Hot Joint Sealants, Concrete Pavement. Hot-poured joint sealer material for concrete slab joints shall conform to the requirements of ASTM D 1190 or ASTM D 3405 and to the following:

Mortar blocks for the bond test shall be as described in ASTM D 1191

Coal tar base material is not acceptable.

The shipping containers shall be marked by the manufacturer with the name of the material, the name and brand of the manufacturer, the weight, the batch number and the safe heating temperature.

The materials shall be stored in accordance with manufacturer's recommendations, but they shall not be exposed to ambient temperatures in excess of 125 degrees F, or stored in direct sunlight.

The sealer material shall be melted in a heating kettle, or tank, constructed as a double boiler, with a space between the inner and outer shells filled with oil, asphalt, or other material for heat transfer and for positive temperature control.

The heating and melting unit shall be equipped so that the heat may be adjusted to provide control of the temperature of the heating medium used for melting the sealer material. The sealer material shall not be subjected to temperatures in excess of 450 degrees F at any stage or time during the melting operation.

When the contract bid schedule does not include pay items for Joint, Waterproofing and Bearing Materials; Payment for all Joint, Waterproofing and Bearing Materials shall be included in the work.

## **END OF REVISION OF SECTION 705**

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# REVISION OF SECTION 711 CONCRETE CURING MATERIALS AND ADMIXTURES

711.01 Concrete Curing Materials shall be modified; Liquid Membrane-Forming Compounds for Curing Concrete AASHTO M148, TYPE curing compound is deleted and shall additionally require:

For all Portland Cement Concrete Pavement placed on this project a combination cure-sealer shall be used that meets or exceeds ASTM-1315 Type I, Class A (clear, non-yellowing). The compound must be an acrylic copolymer type, non-freezing solvent based, with a minimum of 25% solids content. Compound must be VOC compliant in accordance with EPA 40 CFR Part 59. The final gloss appearance will serve as proof of application.

The Contractor shall use the cure-sealer according to the manufacturers recommendations so that when applied it will not adversely affect the skid resistance of the pavement.

The Contract does not include separate pay items for Concrete Curing Materials; these items will not be paid for separately but shall be included in the work.

**END OF REVISION OF SECTION 711** 

