

**CITY OF GREELEY
INVITATION FOR BID**

**2019 CHIP SEAL/SLURRY SEAL PROGRAM
YEAR 1 OF 3**

**BID #FA19-322-1
DUE APRIL 17, 2019 BEFORE 2:00 P.M.**



**Serving Our
Community
It's A Tradition**

*The Office of Purchasing is a service division
established to build effective partnerships through efficient and responsive
procurement processes to obtain high quality
goods and services for the best value.*

SECTION 00110
BID #FA19-322-1
INVITATION FOR BID

The City of Greeley, Colorado is requesting **sealed** bids for 2019 Chip Seal/Slurry Seal Program **before April 17, before 2:00 p.m.** at the Public Works Building, 1001 9th Avenue, Greeley, Colorado 80631 at which time and place all bids will be publicly opened and read aloud. No late, faxed or electronic bids will be accepted.

The City of Greeley disseminates all bids and requests for proposals through the Rocky Mountain E-Purchasing System site. Go to <http://www.RockyMountainBidSystem.com>, then "Bid Opportunities" and then select "The City of Greeley". Bids submitted to the City of Greeley must include Sections 00120, 00130, 00140 and 00160. Addenda must be acknowledged in Section 00120 of the bidding documents. Bidders failing to acknowledge any and all addenda may be considered non-responsive.

A pre-bid meeting will be held on April 9, 2019 at 9:30 am at the Public Works Building, 1001 9th Avenue, 2nd Floor Conference Room, Greeley, Colorado. All prospective bidders are encouraged to attend.

Each bid shall be accompanied, in a separate sealed envelope, by a certified check drawn on a bank which is insured by the Federal Deposit Insurance corporation or a bidder's bond executed by a surety company authorized to do business in Colorado, made payable to the City of Greeley, Colorado, in an amount not less than five percent (5%) of the proposal sum as security that the successful bidder will enter into a contract to construct this project in accordance with the plans and specifications, and give bonds in the sum as hereafter provided. Checks accompanying bids not accepted will be returned.

The successful responsive and responsible bidder will be required to furnish a satisfactory performance bond and payment bond in the amount of the contract sum.

No bid shall be withdrawn after the opening on the bids without the consent of the City of Greeley, Colorado, for a period of sixty (60) days after the scheduled time of the receiving the bids.

The City of Greeley retains the right to reject any and all bids and to waive any informality as deemed in the best interest of the city.

Questions pertaining to the project may be directed to Pat Hill at 970-350-9540.

Adela R. Gain

Section 00120

BID PROPOSAL

PROJECT: 2019 CHIP SEAL/SLURRY SEAL PROGRAM – YEAR 1 OF 3

The Undersigned, having become familiar with the local conditions affecting the cost of the work, plans, drawings, and specifications attached herewith, and with advertisement for bids, the form of bid and proposal, form of bond, all of which are issued and attached and on file in the office of the Project Manager, hereby bid and propose to furnish all the labor, materials, necessary tools, and equipment and all utility and transportation service necessary to perform and complete in a workmanlike manner all of the work required in connection with the construction of the items listed on the bidding schedule in accordance with the plans and specifications as prepared by the City of Greeley, Colorado, for the sums set forth in the Bidding Schedule.

The total bid shall be the basis for establishing the amount of the Performance and Payment Bond for this project. The total bid is based on the quantities shown in the bid proposal form and the dimensions shown on the plans.

The undersigned has carefully checked the Bidding Schedule quantities against the plans and specifications before preparing this proposal and accepts the said quantities as substantially correct, both as to classification and the amounts, and as correctly listing the complete work to be done in accordance with the plans and specifications.

The undersigned, agrees to complete and file a Performance and Payment Bond and further agrees to complete the contract within sixty (60) Calendar Days from Notice to Proceed. Official notice to proceed will not be issued until adequate Performance and Payment Bonds and other required documents are on file with the City of Greeley.

NOTE: Bidders should not add any conditions or qualifying statements to this bid as otherwise the bid may be declared irregular as being non responsive to the Invitation for bids. The following numbered Addenda have been received and the bid, as submitted, reflects any changes resulting from those Addenda: _____

ATTEST

DATE

COMPANY NAME

BY

SIGNATURE

TITLE

Bid Tab2019 CITY OF GREELEY CHIPSEAL / SLURRY PROGRAM

00130

Contractor; CRS-2P

ITEM	UNIT	QUANTITIES	UNIT COST	TOTAL
1/4 INCH CHIP	S.Y.	<u>27,429.4</u>		
3/8 INCH CHIP	S.Y.	<u>174,221.2</u>		
TYPE 2 SLURRY SEAL	S.Y.	<u>188,762.90</u>		
		<u>BID TOTAL</u>		

Bid In Words:Submitted By:Company Or Corporate Name:By:Title:Print Name:Phone Number:Email Address:Date:

COOPERATIVE PURCHASING STATEMENT

The City of Greeley encourages and participates in cooperative purchasing endeavors undertaken by or on behalf of other governmental jurisdictions. To the extent, other governmental jurisdictions are legally able to participate in cooperative purchasing endeavors; the City of Greeley supports such cooperative activities. Further, it is a specific requirement of this proposal or Request for Proposal that pricing offered herein to the City of Greeley may be offered by the vendor to any other governmental jurisdiction purchasing the same products. The vendor(s) must deal directly with any governmental agency concerning the placement of purchase orders, contractual disputes, invoicing, and payment. The City of Greeley shall not be liable for any costs or damages incurred by any other entity.

SECTION 00140

BID BOND

KNOW ALL MEN BY THESE PRESENT, that we, the undersigned _____ as Principal, and _____ as Surety, are hereby held and firmly bound unto the City of Greeley, Colorado, as Owner, in the penal sum of _____ for the Payment of which, well and truly to be made, we hereby jointly and severally bind ourselves, successors, and assigns.

THE CONDITION of this obligation is such that whereas the Principal has submitted to the City of Greeley, Colorado, the accompanying bid and hereby made a part hereof to enter into a Contract Agreement for the construction of City of Greeley Project,

2019 CHIP SEAL/SLURRY SEAL PROGRAM – YEAR 1 OF 3 -FA19-322-1

WHEREAS, the Owner, as condition for receiving said bid, requires that the Principal to deposit with the Owner as Bid Guaranty equal to five percent (5%) of the amount of said bid.

NOW, THEREFORE,

(a) If said bid shall be rejected; or in the alternate,

(b) If said bid shall be accepted and the Principal shall execute and deliver a Contract Agreement (properly completed in accordance with said bid) and shall furnish a Performance and Payment Bond upon the forms prescribed by the Owner for the faithful performance of said Agreement; and shall in all other respects perform the agreement created by the acceptance of said bid;

then this obligation shall be void, otherwise the same shall remain in force and effect; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated.

The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no way impaired or affected by any extension of the time within which the Owner may accept such bid; and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals this _____ day of _____, 20_____, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, the day and year first set forth above.

PRINCIPAL

SURETY

Name: _____

Address: _____

By: _____

Title: _____ Attorney _____

In-Fact: _____
(Seal) (Seal)

NOTE: Surety Companies executing bonds must be authorized to transact business in the State of Colorado and be accepted to the Owner.

SECTION 00160

NOTICE OF PRE-BID CONFERENCE

2019 CHIP SEAL/SLURRY SEAL PROGRAM – YEAR 1 OF 3 - FA19-322-1

A pre-bid conference will be held:

On April 9, 2019 at 9:30 a.m., Public Works Building, 1001 9th Avenue, Greeley, CO 80631, 2nd floor conference room. All bidders are highly encouraged to attend.

Representatives of the City of Greeley will be present to answer questions.

Each bidder shall submit the following declaration of attendance, along with the other bid documents.

I have attended the pre-bid conference _____

I have not attended the pre-bid conference _____

Name of Contracting Organization

Authorized Signature

Date

SECTION 00210

NOTICE OF AWARD

DATE:

TO:

Re: **2019 CHIP SEAL/SLURRY SEAL PROGRAM – YEAR 1 OF 3-FA19-322-1**

Dear Contractor:

The City of Greeley, Colorado (hereinafter called "the Owner") has considered the bids submitted for referenced work in response to its Invitation for Bids. You are hereby notified that your bid has been accepted for items and prices stated in the Bid Schedule in the amount of \$_____. You are required to execute the Contract Agreement, provide the necessary insurance certificates, the Performance and Payment Bonds within ten (10) days from the date of this Notice. If you fail to execute said Contract Agreement and furnish the necessary insurance certificates and bonds within the time allotted from this date, the Owner will be entitled to consider your rights arising out of the Owner's acceptance of your bid as abandoned and to demand payment of bid guaranty as damages. The Owner will be entitled to such other rights as may be granted by law. You are required to return an acknowledged copy of this Notice of Award and enclosures to Purchasing.

CITY OF GREELEY, COLORADO

By: Joel Hemesath

Title: Director of Public Works

ACKNOWLEDGMENT: Receipt of the foregoing Notice of Award accompanied with a Performance and Payment Bond form and a signed copy of the Contract Document is hereby acknowledged this _____ day of _____, 20_____.

Bidder: _____

By: _____

SECTION 00310

CONTRACT

THIS AGREEMENT made and entered into this _____ day of _____, 20____, by and between the City of Greeley, Colorado, and under the laws of the state of Colorado, party of the first part, termed in the Contract Documents as the "Owner" and _____ party of the second part, termed in the Contract Documents as "Contractor."

WITNESSETH: In consideration of monetary compensation to be paid by the Owner to the Contractor at the time and in the manner hereinafter provided, the said Contractor has agreed, and does hereby agree, to furnish all labor, tools, equipment and material and to pay for all such items and to construct in every detail, to wit:

PROJECT: **2019 CHIP SEAL/SLURRY SEAL PROGRAM – YEAR 1 OF 3-FA19-322-1**

at the price bid on the Proposal Form of \$ _____ all to the satisfaction and under the general supervision of the Project Manager for the City of Greeley, Colorado.

The Contract Documents consist of this Agreement, the Conditions of the Contract (General, Supplementary and other Conditions), the Drawings, the Specifications, all Addenda issued prior to and all Modifications issued after execution of this Agreement. These form the Contract, and all are as fully a part of the Contract as if attached to this Agreement or repeated herein.

The Project Manager named herein shall interpret and construe the Contract Documents, reconciling any apparent or alleged conflicts and inconsistencies therein; and all of the work and all details thereof shall be subject to the approval and determination of the Project Manager as to whether or not the work is in accordance with Contract Documents. Said City Project Manager shall be the final arbiter and shall determine any and all questions that may arise concerning the Contract Documents, the performance of the work, the workmanship, quality of materials and the acceptability of the completed project. The decision of the Project Manager on all questions shall be final, conclusive and binding.

AND FOR SAID CONSIDERATION IT IS FURTHER PARTICULARLY AGREED BETWEEN THE PARTIES TO THIS AGREEMENT.

1. That construction and installation of the above enumerated work for the Owner shall be completed and ready for use in accordance with the time of completion described in the Bid form of this Contract. That the above enumerated work shall begin within ten (10) days of the official "Notice to Proceed". (Contract shall become void if work is not started at specified time.)

2. That said work and materials for the project covered by the Contract Documents shall be completely installed and delivered to the Owner, within the time above stated, clear and free from any and all liens, claims, and demands of any kind.
3. The full compensation to be paid the Contractor by the Owner pursuant to the terms of this Contract shall be payable as provided in the Contract Documents.
4. This Contract consists of the following component parts, all of which are as fully a part of the Contract as herein set out verbatim, or if not attached, as if hereto attached:

Section 00110: Invitation for Bid
Section 00120: Bid Proposal
Section 00130: Bid Schedule
Section 00140: Bid Bond
Section 00160: Pre-bid meeting
Section 00210: Notice of Award
Section 00310: Contract
Section 00320: Performance Bond
Section 00330: Payment Bond
Section 00340: Certificate of Insurance
Section 00350: Lien Waiver Release
Section 00360: Debarment/Suspension Certification Statement
Section 00410: Notice to Proceed
Section 00420: Project Manager Notification
Section 00430: Certificate of Substantial Completion
Section 00440: Final Completion
Section 00510: General Conditions of the Contract
Section 00520: Subcontractors List
Section 00620: Special Provisions

Addenda Number _____ Inclusive

Any modifications, including change orders, duly delivered after execution of this Agreement.

IN WITNESS WHEREOF, the parties have caused this instrument to be executed as of the day and year first above written.

City of Greeley, Colorado

Contractor

Approved as to Substance

Authorized Signature

City Manager-Roy Otto

Printed Name

Reviewed as to Legal Form
OFFICE OF THE CITY ATTORNEY

Title

By: _____
City Attorney-Doug Marek

Certification of Contract
Funds Availability

Director of Finance-Renee Wheeler

SECTION 00320

PERFORMANCE BOND

Bond No. _____

KNOWN ALL MEN BY THESE PRESENTS: that

(Firm) _____

(Address) _____

(an Individual), (a Partnership), (a Corporation), hereinafter referred to as "the Principal", and

(Firm) _____

(Address) _____

hereinafter referred to as "the Surety", are held and firmly bound unto the CITY OF GREELEY, 1000 10th Street, Greeley, CO. 80631, a Municipal Corporation, hereinafter referred to as "the Owner" in the penal sum of _____ in lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, successors and assigns, jointly and severally, firmly by these present.

THE CONDITIONS OF THIS OBLIGATION are such that whereas the Principal entered into a certain Contract Agreement with the Owner, dated the _____ day of _____, 20_____, a copy of which is hereto attached and made a part hereof for the performance of City of Greeley Project,

2019 CHIP SEAL/SLURRY SEAL PROGRAM – YEAR 1 OF 3 - FA19-322-1

NOW, THEREFORE, if the Principal shall well, truly and faithfully perform its duties, all the undertakings, covenants, terms, conditions and agreements of said Contract Agreement during the original term thereof, and any extensions thereof which may be granted by the Owner, with or without Notice to the Surety and during the life of the guaranty period, and if he shall satisfy all claims and demands incurred under such Contract Agreement, and shall fully indemnify and save harmless the Owner from all cost and damages which it may suffer by reason of failure to do so, and shall reimburse and repay the Owner all outlay and expense which the Owner may incur in making good any default, and then this obligation shall be void; otherwise to remain in full force and effect.

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 Agreement or to the work to be performed thereunder or the specifications accompanying the same shall in any way affect its obligation on this bond; and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the Contract Agreement or to the work or to the specifications.

IN WITNESS WHEREOF, this instrument is executed this _____ day of _____, 20____.

PROVIDED, FURTHER, that no final settlement between the Owner and Contractor shall abridge the right of any beneficiary hereunder, whose claims may be unsatisfied.

IN PRESENCE OF:

PRINCIPAL

_____ By: _____

_____ (Corporate Seal) _____ (Address)

IN PRESENCE OF:

OTHER PARTNERS

_____ By: _____

_____ By: _____

By: _____

IN PRESENCE OF:

SURETY

_____ By: _____

(Attorney-in-Fact)

_____ (SURETY SEAL) _____ (Address)

NOTE: Date of Bond must not be prior to date of Contract Agreement. If Contractor is Partnership, all partners should execute bond.

IMPORTANT: Surety Company must be authorized to transact business in the State of Colorado and be acceptable to the Owner.

SECTION 00330

PAYMENT BOND

Bond No. _____

KNOWN ALL MEN BY THESE PRESENT: that

(Firm) _____

(Address) _____

(an Individual), (a Partnership), (a Corporation), hereinafter referred to as "the Principal", and

(Firm) _____

(Address) _____

hereinafter referred to as "the Surety", are held and firmly bound unto the CITY OF GREELEY, 1000 10th Street, Greeley, Co. 80631, a Municipal Corporation, hereinafter referred to as "the Owner", in the penal sum of

_____ in lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, successors and assigns, jointly and severally, firmly by these presents.

THE CONDITIONS OF THIS OBLIGATION are such that whereas the Principal entered into a certain Contract Agreement with the Owner, dated the _____ day of _____, 20_____, a copy of which is hereto attached and made a part hereof for the performance of

2019 CHIP SEAL/SLURRY SEAL PROGRAM – YEAR 1 OF 3 - FA19-322-1

NOW, THEREFORE, if the Principal shall make payment to all persons, firms, subcontractors and corporations furnishing materials for or performing labor in the prosecution of the work provided for in such Contract Agreement, and any equipment and tools, consumed, rented or used in connection with the construction of such work and all insurance premiums on said work, and for all labor, performed in such work whether by subcontractor or otherwise, then this obligation shall be void; otherwise to remain in full force and effect.

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 Agreement or to the work to be performed thereunder or the specifications accompanying the same shall in any way affect its obligation on this bond; and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the Contract Agreement or to the work or to the specifications.

IN WITNESS WHEREOF, this instrument is executed this _____ day of _____, 20____.

PROVIDED, FURTHER, that no final settlement between the Owner and Contractor shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN PRESENCE OF:

PRINCIPAL

_____ By: _____

(Corporate Seal)

(Address)

IN PRESENCE OF:

OTHER PARTNERS

_____ By: _____

_____ By: _____

_____ By: _____

IN PRESENCE OF:

SURETY

_____ By: _____

(Attorney-in-Fact)

(SURETY SEAL)

(Address)

NOTE: Date of bond must not be prior to date of Contract Agreement. If Contractor is Partnership, all partners should execute Bond.

IMPORTANT: Surety Company must be authorized to transact business in the State of Colorado and be acceptable to the Owner.

ACORD™

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

05/14/2013

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 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).

PRODUCER ABC Insurance Company P. O. Box 1234 Anywhere, USA	CONTACT NAME:	
	PHONE (A/C, No, Ext):	FAX (A/C, No):
	E-MAIL ADDRESS:	
	PRODUCER CUSTOMER ID #:	
INSURED Sample Certificate	INSURER(S) AFFORDING COVERAGE	
	INSURER A : Financial Rating of A	
	INSURER B :	
	INSURER C :	
	INSURER D :	
	INSURER E :	
	INSURER F :	

COVERAGES

CERTIFICATE NUMBER:

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	GENERAL LIABILITY						EACH OCCURRENCE \$1,000,000
	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY						DAMAGE TO RENTED PREMISES (Ea occurrence) \$100,000
	<input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR						MED EXP (Any one person) \$5,000
							PERSONAL & ADV INJURY \$1,000,000
							GENERAL AGGREGATE \$2,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						PRODUCTS - COMP/OP AGG \$2,000,000
	<input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC						\$
	AUTOMOBILE LIABILITY						COMBINED SINGLE LIMIT (Ea accident) \$1,000,000
	<input checked="" type="checkbox"/> ANY AUTO						BODILY INJURY (Per person) \$
	<input type="checkbox"/> ALL OWNED AUTOS						BODILY INJURY (Per accident) \$
	<input type="checkbox"/> SCHEDULED AUTOS						PROPERTY DAMAGE (Per accident) \$
	<input checked="" type="checkbox"/> HIRED AUTOS						\$
	<input checked="" type="checkbox"/> NON-OWNED AUTOS						\$
							\$
	UMBRELLA LIAB						EACH OCCURRENCE \$
	EXCESS LIAB						AGGREGATE \$
	DEDUCTIBLE						\$
	RETENTION \$						\$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY						<input checked="" type="checkbox"/> WC STATUTORY LIMITS <input type="checkbox"/> OTHER
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)						E.L. EACH ACCIDENT \$100,000
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE \$100,000
							E.L. DISEASE - POLICY LIMIT \$500,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

City of Greeley is named as Additional Insured on General Liability. Waiver of subrogation is included on Work Compensation. This insurance is primary and noncontributory to insurance policies held by the City.

CERTIFICATE HOLDER

CANCELLATION

City of Greeley 1000 10th St Greeley, CO 80631-3808	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE

SECTION 00350

LIEN WAIVER RELEASE

TO: City of Greeley, Colorado (hereinafter referred to as "the OWNER".)

FROM: (hereinafter referred to as "the CONTRACTOR")

PROJECT: **2019 CHIP SEAL/SLURRY SEAL PROGRAM – YEAR 1 OF 3-FA19-322-1**

1. The CONTRACTOR does hereby release all Mechanic's Liens Rights, Miller Act Claim (40 USCA 270), Stop Notice, Equitable Liens and Labor and Material Bond Rights resulting from labor and/or materials, subcontract work, equipment or other work, rents, services or supplies heretofore furnished in and for the construction, design, improvement, alteration, additions to or repair of the above described project.
2. This release is given for and in consideration of the sum of \$ and other good and valuable consideration. If no dollar consideration is herein recited, it is acknowledged that other adequate consideration has been received by the CONTRACTOR for this release.
3. In further consideration of the payment made or to be made as above set forth, and to induce the OWNER to make said payment, the CONTRACTOR agrees to defend and hold harmless the OWNER, employees, agents and assigns from any claim or claims hereinafter made by the CONTRACTOR and/or its material suppliers, subcontractors or employees, servants, agents or assigns of such persons against the project. The CONTRACTOR agrees to indemnify or reimburse all persons so relying upon this release for any and all sums, including attorney's fees and costs, which may be incurred as the result of any such claims.
4. It is acknowledged that the designation of the above project constitutes an adequate description of the property and improvements for which the CONTRACTOR has received consideration for this release.
5. It is further warranted and represented that all such claims against the CONTRACTOR or the CONTRACTOR's subcontractors and/or material suppliers have been paid or that arrangements, satisfactory to the OWNER and CONTRACTOR, have been made for such payments.
6. It is acknowledged that this release is for the benefit of and may be relied upon by the OWNER, the CONTRACTOR, and construction lender and the principal and surety on any labor and material bond for the project.

Dated this _____ day of _____, 20____.

By: _____

STATE OF _____)
)ss.
COUNTY OF _____)

The foregoing instrument was acknowledged before me this _____ day of _____,
20____ by _____.

Notary Public

***Strike when not applicable

SECTION 00360
2019 CHIP SEAL/SLURRY SEAL PROGRAM – YEAR 1 OF 3-FA19-322-1
Debarment/Suspension Certification Statement

The proposer certifies that neither it nor its principals are presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from participation in this transaction by any Federal, State, County, Municipal or any other department or agency thereof. The proposer certifies that it will provide immediate written notice to the City if at any time the proposer learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstance.

DUNS # (Optional) _____

Name of Organization _____

Address _____

Authorized Signature _____

Title _____

Date _____

SECTION 00410

NOTICE TO PROCEED

Month , 20

TO: NAME

PROJECT: **2019 CHIP SEAL/SLURRY SEAL PROGRAM – YEAR 1 OF 3** - FA19-322-1

To Whom It May Concern:

You are hereby notified to commence work on the above-referenced project in accordance with the Contract Agreement dated Month , 20 .

You are to complete this project by Month , 20

CITY OF GREELEY, COLORADO

By: _____

Title: _____

Signature

SECTION 00420

PROJECT MANAGER NOTIFICATION

_____, 20____

TO:

PROJECT: **2019 CHIP SEAL/SLURRY SEAL PROGRAM – YEAR 1 OF 3 -FA19-322-1**

The Owner hereby designates _____ as its Project Manager and authorizes this individual, under the authority of the Director of Public Works to make all necessary and proper decisions with reference to the project. Contract interpretations, change orders and other requests for clarification or instruction shall be directed to the Project Manager. The Director of Public Works shall be authorized to bind the Owner with respect to any decision made in accordance with the contract document.

CITY OF GREELEY, COLORADO

By: _____

Title: _____

SECTION 00430

CERTIFICATE OF SUBSTANTIAL COMPLETION

TO: CONTRACTOR

PROJECT: 2019 CHIP SEAL/SLURRY SEAL PROGRAM – YEAR 1 OF 3 -FA19-322-1

Project or designated portion shall include: Describe Scope.

The work performed under this contract has been reviewed and found to be substantially complete. The Date of Substantial Completion of the Project or portion thereof designated above is hereby established as Month , 20 .

The date of commencement of applicable warranties required by the Contract Documents is stipulated in Section 00440 - Certificate of Final Acceptance.

DEFINITION OF DATE OF SUBSTANTIAL COMPLETION

The Date of Substantial Completion of the Work or designated portion thereof is the date certified by the Project Manager when construction is sufficiently complete, in accordance with the Contract Documents, so the Owner can occupy or utilize the Work or designated portion thereof for the use for which it is intended, as expressed in the Contract Documents.

A list of items to be completed or corrected, prepared by the Contractor and verified and amended by the Project Manager is attached hereto. The failure to include any items on such list does not alter the responsibility of the Contractor to complete all Work in accordance with the Contract Documents. The date of commencement of warranties for items on the attached list is as stipulated in Section 00440 – Certificate of Final Acceptance.

The Owner shall operate and maintain the Work or portion of the Work described above from the Date of Substantial Completion and be responsible for all costs associated with the completed work excluding cost related to warrantee work.

Certificate of Substantial Completion

Page 2

The Contractor will complete or correct the Work on the list of items attached hereto within
days from the above Date of Substantial Completion.

Contractor

Owner

(Note--Owner's and Contractor's legal and insurance counsel should review and determine insurance requirements and coverage; Contractor shall secure consent of surety company, if any.)

SECTION 00440

CERTIFICATE OF FINAL ACCEPTANCE

TO: **CONTRACTOR**

PROJECT NAME: **2019 CHIP SEAL/SLURRY SEAL PROGRAM – YEAR 1 OF 3 - FA19-322-1**

The work performed under this contract has been reviewed and found to meet the definition of final acceptance. This Certificate of Final Acceptance applies to the whole of the work.

The Date of Final Acceptance of the Project designated above is hereby established as: Month _____, 20____ at 2:00 pm. This date is also the date of commencement of applicable warranties associated with the Project described above and as required by the Contract Documents.

DEFINITION OF DATE OF FINAL ACCEPTANCE

The Date of Final Acceptance of the Work is the date certified by the City of Greeley's Project Manager when the work is 100% complete, in accordance with the Contract Documents, as amended by change order(s), or as amended below:

Amendment to the Certificate of Final Completion (if any): Describe Amendments.

The Contractor and/or the City Of Greeley shall define any claims or requests for additional compensation above (or as attachments to this document).

Final Acceptance shall not be achieved until the Contractor provides the City Of Greeley with all contract specified Contractor and Sub-contractor close out documents including final lien waivers, releases, insurances, manuals, training, test results, warranties, and other documents required by the Contract Documents, as amended.

Upon issuance of the Certificate of Final Acceptance the Contractor may submit an application for payment requesting final payment for the entire Work. Liquidated damages (if any) will be assessed at this time.

Contractor's acceptance of the final payment shall constitute a waiver by the Contractor of all claims arising out of or relating to the Work; except as noted under 'Amendment to the Certificate of Final Acceptance' above.

Agreed:

_____ Contractor's Representative	_____ DATE	_____ Project Manager (COG)	_____ DATE
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SECTION 00510

CITY OF GREELEY GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION (REVISED NOVEMBER 2016)

ARTICLE 1 DEFINITIONS

- 1.1 **Bidder:** An architect, engineer, individual, firm, partnership, corporation or combination thereof, submitting a Bid for the Work.
- 1.2 **Change Notice:** A document issued to the Contractor specifying a proposed change to the Contract Documents. Unless otherwise expressly stated on the face of the Change Notice, a Change Notice is a proposal which may result in a Change Order.
- 1.3 **Change Order:** A document issued to the Contractor modifying the Contract.
- 1.4 **Construction Contract:** The Contract Documents, including the Contract for construction (hereinafter "the contract") executed by the Contractor and the Owner covering the performance of the Work including the furnishing of labor, superintendence, materials, tools and equipment as indicated in the Contract Documents.
- 1.5 **Contract Documents:** Documents applicable to and specific to the construction of an individual Project, including the Contract and all other documents executed by the Contractor and Owner covering the performance of the work including but not limited to Specifications, Insurance Requirements, Contract Drawings, Conditions of the Contract (General and Supplementary), Owner-Contractor Agreement, all Addenda, all change orders issued after execution of the Contract, Performance and Payment Bonds, and any other special provisions.
- 1.6 **Contract Drawings(Project Drawings):** Contract drawings, The plans, to include but not limited to plans, profiles, typical cross sections, general cross-sections, elevations, schedules, schematics, notes and details which show locations, character, dimensions, and details of the Work.
- 1.7 **Contractor:** The individual, firm, partnership, or corporation, or combination thereof, private, municipal, or public, including joint ventures, which, as an independent contractor, has entered into a contract with the Owner, who is referred to throughout the Contract Documents by singular number and masculine gender.
- 1.8 **Days:** Unless otherwise designated, days mean calendar days.
- 1.9 **Extra Work:** Work not provided for in the Contract as awarded but found to be essential to the satisfactory completion of the Contract, within its intended scope. Reimbursement for extra work is governed by Article 28, CHANGES, or Article 31, CONTRACTOR PROPOSALS.

- 1.10 **Field Order:** A written order issued to a contractor by the Owner, or Project Manager, effecting a minor change or clarification with instructions to perform work not included in the contract. The work will eventually become a Change Order. A field Order is an expedient process used in an emergency or need situation that in many cases does not involve an adjustment to the contract sum or an extension of the contract sum or an extension of the contract time.
- 1.11 **Final Acceptance:** The formal written acceptance by the Owner of the completed Work.
- 1.12 **Force Account:** A method of payment, other than lump sum or unit price, for Work ordered by Change Order or by written notice from the Owner. Reimbursement for force account work is governed by Article 36, FORCE ACCOUNT WORK.
- 1.13 **Furnishing:** Manufacturing, fabricating and delivering to the site of the Work materials, plant, power, tools, patterns, supplies, appliances, vehicles and conveyances necessary or required for the completion of the Work.
- 1.14 **General Conditions (GC):** A section of the Contract Documents which specifies, in general, the contractual conditions.
- 1.15 **General Terms:** Directed, required, permitted, ordered, designated, selected, prescribed or words of like import shall be understood to mean the direction, requirement, permission, order, designation, selection or prescription of the Project Manager. Approved, satisfactory, equal, necessary or words of like import shall be understood to mean approved by, acceptable to, satisfactory to, equal, necessary in the opinion of the Project Manager.
- 1.16 **Indicated:** A term meaning as shown on the Contract Drawings, or as specified and detailed in the Contract Documents.
- 1.17 **Installation, Install, or Installing:** Completely assembling, erecting and connecting material, parts, components, appliances, supplies and related equipment specified or required for the completion of the Work.
- 1.18 **Limit of Work:** Boundary within which the Work, excepting utility and drainage work in Public Right Of Way and Easements, is to be performed.
- 1.19 **Notice to Proceed:** Written notice from the Owner to the Contractor to proceed with the Work.
- 1.20 **Notice of Termination:** Written notice from the Owner to the Contractor to stop work under the Contract on the date and to the extent specified in the Notice of Termination.
- 1.21 **Owner:** The City of Greeley.
- 1.22 **Permanent Drainage Easement:** Area required to construct and maintain permanent drainage facilities for retention, release, and passage of surface water.
- 1.23 **Permanent Utility Easement:** Area required to construct and maintain utility facilities.

- 1.24 **Project:** That specific portion of the Work indicated in the Contract Documents.
- 1.25 **Project Manager:** The Owner's designated representative. The Project Manager has the authority to delegate portions of his responsibilities to others.
- 1.26 **Provide:** In reference to work to be performed by the Contractor, provide means furnish and install completely in place.
- 1.27 **Punch List:** Work determined to be incomplete or unacceptable at time of inspection for substantial completion.
- 1.28 **Samples:** Physical examples which illustrate materials, equipment, fixtures and workmanship which establish standards by which the Work will be judged.
- 1.29 **Schedule:** Acceptable schedules are BAR or GANTT Chart or CPM schedule.
- 1.30 **Shop Drawings:** Documents furnished by the Contractor to illustrate specific portions of the Work. Shop Drawings include drawings, diagrams, illustrations, schedules, charts, brochures, tables and other data describing fabrication and installation of specific portions of the Work.
- 1.31 **Specifications:** A document applicable to construction contracts containing the Technical Provisions.
- 1.32 **Subcontractor:** Any person, firm or corporation, other than the employees of the Contractor, who contracts with the Contractor to furnish labor, material or labor and materials, under this Contract.
- 1.33 **Special Provisions:** Provisions especially applicable to this Contract which invoke, modify and supplement the General Conditions which are included in the Contract Documents.
- 1.34 **Substantial Completion:** The state in the progress of Work when the Work, or a designated portion thereof, is sufficiently complete in accordance with the Contract Documents, so that Owner may access, occupy, use, and enjoy the Project, or designated portion thereof, for its intended purpose. Substantial Completion shall not occur until a temporary or permanent Certificate of Occupancy is issued and only minor punch list items remain for such Work.
- 1.35 **Technical Provisions:** Those provisions which specify the materials and execution of construction for work entering into the project.
- 1.36 **Work:** The construction, labor, materials, equipment, and contractual requirements as indicated in the Contract Documents, including alterations, amendments, or extensions thereto made by authorized changes.
- 1.37 **Work Site:** The area enclosed by the Limit of Work indicated in the Project Drawings and boundaries of local streets and public easements in which the Contractor is to perform work under the Contract. It shall also include areas obtained by the Contractor for use in connection with the Contract, when contiguous to the Limit of Work.

ARTICLE 2 INTERPRETATION

- 2.1 The documents comprising the Contract Documents are complementary and indicate the construction and completion of the Work. Anything mentioned in the Contract Specifications and not shown on the Contract Drawings, or shown on the Contract Drawings and not mentioned in the Contract Specifications, shall be of like effect as if shown or mentioned in both.
- 2.2 Where "as indicated", "as detailed", or words of similar import are used, it shall be understood that the reference is made to the specifications or drawings accompanying this Contract unless stated otherwise.
- 2.3 References to Articles or Sections include sub articles or subsections under the Article Reference (for example, a reference to Article 2 is also a reference to 2.1 through 2.9, and references to paragraphs similarly include references to subparagraphs).
- 2.4 Referenced Standards: Material and workmanship specified by the number, symbol, or title of a referenced standard shall comply with the latest edition or revision thereof and amendments and supplements thereto in effect on the date of the Invitation to Bid except where a particular issue is indicated.
- 2.5 Precedence of Contract Documents: Except as provided by Paragraph 2.1 of this Article, the Construction Contract governs over other Contract Documents, except that a Change Order governs over the Contract and previously issued Change Orders. The Contract Conditions govern over the General Conditions.
- 2.6 Explanations: Should it appear that the Work to be done or any of the matters relative thereto are not sufficiently detailed or explained in the Contract Documents, the Contractor shall apply to the Owner for such explanation provided as part of the Contract. Disputes over questions of fact which are not settled by agreement shall be decided by Owner. Such decision thereon will be final, subject to remedies under Article 35, DISPUTES.
- 2.7 Should there be any conflict, detailed instructions govern over general instructions, detail drawings have precedence over small scale drawings, and dimensions have precedence over scale.
- 2.8 Omissions and Misdescriptions: The Contractor shall carefully study and compare all drawings, specifications, Contract Documents and other instructions; shall verify all dimensions on the Contract Drawings before laying out the Work; shall notify the Project Manager of all errors, inconsistencies or omissions which he may discover; and obtain specific instructions in writing before proceeding with the Work. The Contractor shall not take advantage of apparent errors or omissions which may be found in the Contract Documents, but the Project Manager shall be entitled to make such corrections therein and interpretations thereof as he may deem necessary for the fulfillment of their intent. The Contractor shall be responsible for all errors in construction which could have been avoided by such examination and notification, subject to remedies under Article 35, Disputes.

ARTICLE 3
ENTITY OF CONTRACTOR

3.1 If the Contractor hereunder is comprised of more than one legal entity, each such entity shall be jointly and severally liable hereunder.

ARTICLE 4
LIABILITY AND INDEMNIFICATION

4.1 It is agreed that the Contractor assumes responsibility and liability for damages, loss or injury of any kind or nature whatever to persons or property caused by or resulting from or in connection with any act, action, neglect, omission, or failure to act when under a duty to act on the part of the Contractor or any of his officers, agents, employees, or subcontractors in his or their performance of the Work. The Contractor shall indemnify and hold harmless the Government, the State, the Owner and the Project Manager and their members, officers, agents, or employees from claims, losses, damages, charges, costs, or expenses, including attorney's fees, whether direct or indirect, to which they or any of them may be put or subjected to by reason of any such loss or injury.

ARTICLE 5
**PROTECTION OF EXISTING VEGETATION, STRUCTURES, UTILITIES,
AND IMPROVEMENTS AND LAND SURVEY MONUMENTS**

5.1 A Contractor shall preserve and protect existing vegetation such as trees, shrubs, and grass on or adjacent to the work site which are not indicated to be removed and which do not unreasonably interfere with the construction work and he shall replace in kind any vegetation, shrubs and grass damaged by him at his own expense.

5.2 The Contractor shall protect from damage all utilities, structures, or improvements on or near the site of the Work and shall repair or restore any damage to such utilities, structures, or improvements resulting from failure to comply with the requirements of the Contract or the failure to exercise reasonable care in the performance of the Work. If the Contractor fails or refuses to repair any such damage promptly, the Owner may have the necessary work performed and charge the cost thereof to the Contractor.

5.3 All land survey monuments shall be protected from any damage by any work and/or shall be replaced by a licensed land surveyor licensed in the state of Colorado at the contractor's expense before final acceptance is issued.

ARTICLE 6
CONTRACTUAL RELATIONSHIPS

6.1 No contractual relationship will be recognized under the Contract other than the contractual relationship between the Owner and the Contractor.

ARTICLE 7 ASSIGNMENT

7.1 The performance of the Work under the Contract shall not be assigned except upon written consent of the Owner. Consent will not be given to any proposed assignment which would relieve the Contractor or his surety of their responsibilities under the Contract. The Contractor shall not assign any monies due or to become due to him under the Contract without the previous written consent of the Owner.

ARTICLE 8 SUBCONTRACTORS

8.1 Unless otherwise required by the Contract Documents or the Bidding Documents, the Contractor, as soon as practicable after the award of the Contract, not to exceed 3 days, shall furnish to the Owner and the Project Manager, in writing the names of the subcontractors, persons or entities (including those who are to furnish materials or equipment fabricated to a special design) proposed for each of the principal portions of the Work. The Project Manager will promptly reply to the Contractor in writing whether or not the Owner or the Project Manager, after due investigation, has reasonable objection to any such proposed person or entity. Failure of the Owner or Project Manager to reply promptly shall constitute notice of no reasonable objections.

ARTICLE 9 CONDITIONS AFFECTING THE WORK

9.1 The Contractor shall be responsible for taking steps reasonably necessary to ascertain the nature and location of the Work, and the general and local conditions which can affect the Work or the cost thereof. Failure by the Contractor to do so will not relieve him from responsibility for successfully performing work without additional expense to the Owner. The Owner will not be responsible for any understanding or representations concerning conditions, unless such understanding or representations are expressly stated in the Contract.

ARTICLE 10 GRATUITIES AND CONFLICTS OF INTEREST

10.1 The Owner may, by written notice to the Contractor terminate the right of the Contractor to proceed under this Contract if it is found that gratuities (in the form of entertainment, gifts, or otherwise) were offered or given by the Contractor, or any agent or representative of the Contractor or any director, officer or employee of the Owner or its Project Manager with a view toward securing a contract or securing favorable treatment with respect to the awarding or amending, or the making of any determinations with respect to the performance of such contract. The Owner's determination shall be final subject only to judicial review.

10.2 In the event this Contract is terminated for any reason, the Owner shall be entitled to pursue the same remedies against the Contractor as it could pursue in the event of a breach of the Contract by the Contractor.

10.3 No member, officer or employee of the Owner or of a local public body during his tenure or for one year thereafter shall have any interest, direct or indirect, in this Contract or the proceeds thereof. "Local public body" means the State, any political subdivision of the State, or any agency of the State or any political subdivision thereof.

10.4 The rights and remedies of the Owner provided in this article are not exclusive and are in addition to any other rights and remedies provided by law or under the Contract.

ARTICLE 11 WARRANTY OF WORK

11.1 Except where longer periods of warranty are indicated for certain items, the Contractor warrants work under the Contract to be free from faulty materials and workmanship for a period of not less than two years from date of Final Acceptance, which two year period shall be covered by the Performance Bond and Payment Bond as specified in this Contract. The Contractor shall immediately remedy, repair, or replace, without cost to the Owner and to the entire satisfaction of the Owner, defects, damages, or imperfections due to faulty materials or workmanship appearing in said work within said period of not less than two years. Remedied work shall carry the same warranty as the original work starting with the date of acceptance of the replacement or repair. Payment to the Contractor will not relieve him of any obligation under this Contract.

11.2 The Contractor, at no additional expense to the Owner, shall also remedy damage to equipment, the site, or the building or the contents thereof which is the result of any failure or defect in the Work, and restore any work damaged in fulfilling the requirements of the Contract. Should the Contractor fail to remedy any such failure or defect within a reasonable time but no longer than ten (10) days after receipt of notice thereof, the Owner will have the right to replace, repair, or otherwise remedy such failure or defect at the Contractor's expense.

11.3 Subcontractors', manufacturers', and suppliers' warranties and guarantees, expressed or implied, respecting any part of the Work and any material used therein shall be deemed obtained and shall be enforced by the Contractor for the Benefit of the Owner without the necessity of separate transfer or assignment thereof.

11.4 The rights and remedies of the Owner provided in this Article are in addition to and do not limit any rights and remedies afforded by the Contract or by law.

ARTICLE 12 MATERIAL

12.1 Unless otherwise indicated in this Contract, equipment, material and products incorporated in the Work covered by this Contract shall be new and of the grade specified in the Contract for the purpose intended. Unless otherwise specifically indicated, reference to equipment, material, product or patented process by trade names, make, or catalog number, shall be regarded as establishing a standard of quality and shall not be construed as limiting competition, and the Contractor may, at his option, use any equipment, material, article, or process which is equivalent to that named, subject to the requirements of Paragraph 12.2 of this Article.

12.2 Within the scope of his authority, the Project Manager shall be the sole judge of the quality and suitability of proposed alternative equipment, material, article or process. The burden of proving the quality and suitability of the alternative shall be upon the Contractor. Information required by the Project Manager in judging an alternative shall be submitted for approval by the Contractor at the Contractor's expense prior to installation.

12.3 Where use of an alternative material involves redesign of or changes to other parts of the Work, the cost and the time required to affect such redesign or change will be considered in evaluating the suitability of the alternative material. Redesign and changes in other parts of the Work shall be at the Contractor's expense.

12.4 No action relating to the approval of alternative materials will be taken by the Project Manager until the request for substitution is made in writing by the Contractor accompanied by complete data as to the quality and suitability of the materials proposed. Such request shall be made in ample time to permit approval without delaying the Work.

12.5 Disposal of material outside the Work Site: The Contractor shall make his own arrangements for legally disposing of waste and excess materials outside the Work Site and he shall pay costs therefore.

12.6 Property rights in materials: The Contractor shall have no property right in materials after they have been attached or affixed to the Work or the soil, or after payment has been made by the Owner to the Contractor for materials delivered to the site of the Work, or stored subject to or under the control of the Owner as provided in Article 24, PROGRESS PAYMENTS.

ARTICLE 13 WORKMANSHIP AND UNAUTHORIZED WORK

13.1 Work under this Contract shall be performed in a skillful and workmanlike manner. The Project Manager may, in writing, require the Contractor to remove from the work any employee the Project Manager determines incompetent, careless or otherwise objectionable.

13.2 Unauthorized work: Work performed beyond the lines and grades shown on the Contract Drawings, approved Working and Shop Drawings and Extra work done without written authorization, will be considered as unauthorized work, and the Contractor will receive no compensation therefore. If required by the Owner, unauthorized work shall be remedied, removed, or replaced by the Contractor at the Contractor's expense. Upon failure of the Contractor to remedy, remove or replace unauthorized work, the Owner may take courses of action set out in Paragraph 15.3 of Article 15, INSPECTION.

ARTICLE 14 SUPERINTENDENCE BY CONTRACTOR

14.1 The Contractor shall give his personal superintendence to the Work or have a competent foreman or superintendent, hereinafter designated his authorized representative, satisfactory to the Owner, on the Work Site at all times during progress, with authority to act for him. There shall be provided at all times, a reasonable method of communication directly to the Contractor if the Owner experiences any problems or difficulties with the Superintendent.

ARTICLE 15 INSPECTION/TESTING

15.1 Work (which term includes but is not restricted to materials, workmanship and manufacture and fabrication of components) will be subject to inspection and test by the Project Manager at all reasonable times and at all places prior to acceptance. Such inspection and test is for the sole benefit of the Owner and shall not relieve the Contractor of the responsibility of providing quality control measures to assure that the Work strictly complies with the Contract Documents. No inspection or test by the Project Manager shall be construed as constituting or implying acceptance. Inspection or test shall not relieve the Contractor of responsibility for damage to or loss of the material prior to acceptance, nor in any way affect the continuing rights of the Owner after acceptance of the completed Work.

15.2 The Contractor shall, at his own expense, replace any material or correct any workmanship found not to conform to the contract requirements, unless the Owner consents in writing to accept such material or workmanship with an appropriate adjustment in contract price. The Contractor shall promptly segregate and remove rejected material from the premises at his own expense.

15.3 If the Contractor does not promptly replace rejected material or correct the rejected workmanship, the Owner (1) may, by separate contract or otherwise, replace such material or correct such workmanship and charge the cost thereof to the Contractor, or (2) may terminate the Contractor's right to proceed in accordance with Article 38, TERMINATION FOR DEFAULT-- DAMAGES FOR DELAY--TIME EXTENSIONS.

15.4 The Contractor shall give the Project Manager ample notification of inspections and tests, and the Project Manager will perform, except as otherwise specifically provided, said inspections and tests in such manner as not to unnecessarily delay the work. The Owner will have the right to charge to the Contractor any additional cost of inspection or test or when reinspection or retest is necessitated by prior rejection.

15.5 Should it be considered necessary, before acceptance of the entire work, to make an examination of work already completed by removing or tearing out same, the Contractor shall on request promptly furnish all necessary facilities, labor and material therefore. If such work is found to be defective or nonconforming in any material respect, due to the fault of the Contractor or his subcontractors, he shall defray the expenses of such examination and of satisfactory reconstruction. If, however, such work is found to meet the requirements of the Contract, an equitable adjustment will be made in the contract price to compensate the Contractor for the additional services involved in such examination and reconstruction. If completion for the work has been delayed thereby, he will, in addition, be granted an equitable extension of time.

15.6 The Project Manager shall have access to the work during its construction. Work done and materials provided will be subject to the Project Manager's on-site and off-site inspection and approval. When work is to be performed during hours other than during his normal schedule, the Contractor shall so advise the Project Manager not less than 24 hours in advance. The Contractor shall provide access to the work for authorized representatives of the Owner.

15.7 The Project Manager's inspection and approval of work or materials shall not relieve the Contractor of any of his obligations to fulfill the requirements of the Contract Documents. Work and materials not meeting the requirements of the Contract shall not be incorporated in the Work. Unsuitable or substandard work or materials may be rejected by the Project Manager, notwithstanding that such work or materials may have been previously inspected by the Project Manager, or that payment therefore has been included in a progress payment.

ARTICLE 16 PERMITS AND COMPLIANCE WITH LAWS

16.1 The Contractor shall without additional expense to the Owner be responsible for obtaining necessary licenses and permits and for complying with applicable Federal, State, County and Municipal laws, codes and regulations in connection with the commencement of the work. The Contractor is required to supply the Project Manager with complete and final copies of license and permits including final inspection documentation. The Contractor shall be required to obtain permits at his own expense. The Contractor shall protect, indemnify and hold harmless the Owner and the Project Manager and their members, officers, agents and employees against claims and liabilities arising from or based on the violation of requirements of law or permits whether by the Contractor, his employees, agents or subcontractors.

ARTICLE 17 RIGHTS IN LAND IMPROVEMENT

17.1 The Contractor shall make no arrangements with any person to permit occupancy or use of any land, structure or building within the work site for any purpose whatsoever, either with or without compensation, in conflict with any agreement between the Owner and any owner, former owner or tenant of such land, structure or building. The Contractor shall not occupy Owner property outside the work site without obtaining prior written approval from the Owner.

ARTICLE 18 DAMAGE TO THE WORK AND RESPONSIBILITY FOR MATERIALS

18.1 The Contractor shall be responsible for materials delivered and work performed until completion and final acceptance of the entire construction thereof.

18.2 The Contractor shall bear the risk of injury, loss or damage to any and all parts of the work for whatever cause, whether arising from the execution or from the non-execution of work. The Contractor shall rebuild, repair or restore work and materials which have been damaged or destroyed from any cause before completion and acceptance of the work and shall bear the expense thereof. The Contractor shall provide security and drainage and erect temporary structures as necessary to protect the work and materials from damage.

18.3 The Contractor shall be responsible for materials not delivered to the site for which any progress payment has been made to the same extent as if the materials were so delivered.

ARTICLE 19 EMERGENCIES

19.1 In an emergency affecting the safety of life, the work, or adjacent property, the Contractor shall notify the Project Manager as early as possible that an emergency exists. In the meantime, without special instruction from the Project Manager as to the manner of dealing with the emergency, the Contractor shall act at his own discretion to prevent such threatened loss or injury. As emergency work proceeds, the Project Manager may issue instruction, which the Contractor shall follow. The amount of compensation to which Contractor is entitled on account of emergency work will be determined in accordance with Article 28, CHANGES.

ARTICLE 20 NOTICE TO PROCEED

20.1 The Owner will issue a Notice to Proceed to the Contractor within 15 days after the Contractor has executed the Contract and has delivered the specified bonds and Certificates of Insurance as required by the Owner. Except as specifically authorized in writing by the Owner, the Contractor is not authorized to perform work under the Contract until the effective date of the Notice to Proceed. Within 10 days after the effective date of such Notice to Proceed, the Contractor shall commence work and shall diligently prosecute the Work to completion within the time limits specified. These time periods may be modified by mutual written agreement of both the Owner and Contractor.

ARTICLE 21 PROGRESS SCHEDULE AND REQUIREMENTS FOR MAINTAINING PROGRESS

21.1 The Contractor shall, at the pre-construction meeting, prepare and submit to the Project Manager for approval a practicable schedule, showing the order in which the Contractor proposes to carry on the work, the date on which he will start the several salient features (including procurement of materials, plant and equipment) and the contemplated dates for completing the same. The schedule shall be in the form of a progress chart of suitable scale to indicate appropriately the percentage of work scheduled for completion at any time. The Contractor shall update the chart with the actual progress monthly or at such intervals as directed by the Project Manager, and shall immediately deliver three copies thereof. If the Contractor fails to submit a progress schedule within the time herein prescribed, the Project Manager may withhold approval of progress payment estimates until such time as the Contractor submits the required progress schedule.

21.2 The Contractor shall prosecute the work in accordance with the latest approved Progress Schedule. In the event, that the progress of items along the critical path is delayed, the Contractor shall revise his planning to include additional forces, equipment, shifts or hours as necessary to meet the time or times of completion specified in this Contract. Additional costs resulting therefrom will be borne by the Contractor. The Contractor shall make such changes when his progress at any check period does not meet at least one of the following two tests:

21.2.1 The percentage of dollar value of completed work with respect to the total amount of the Contract is within ten percentage points of the percentage of the Contract time elapsed, or;

21.2.2 The percentage of dollar value of completed work is within ten percentage points of the dollar value which should have been performed according to the Contractors own network analysis previously approved by the Project Manager.

21.3 Failure of the Contractor to comply with the requirements under this provision will be grounds for determination that the Contractor is not prosecuting the work with such diligence as will ensure completion within the time of completion specified in this Contract. Upon such determination, the Owner may terminate the Contractor's right to proceed with the work, or any separate part thereof, in accordance with Article 38, TERMINATION FOR DEFAULT--DAMAGES FOR DELAY--TIME EXTENSIONS of these General Conditions.

ARTICLE 22 SUSPENSION OF WORK

22.1 The Owner reserves the right to suspend, delay or interrupt execution of the whole or any part of the work for such period of time as he may determine to be appropriate for his convenience.

22.2 If the performance of all or any part of the work is, for an unreasonable period of time, suspended, delayed, or interrupted by an act of the Owner in the administration of this Contract or by his failure to act within the time specified in this Contract (or if no time is specified, within a reasonable time), an adjustment shall be made for any increase in the cost of performance of this Contract (excluding profit) necessarily caused by such unreasonable suspension, delay, or interruption and the contract modified in writing accordingly. However, no adjustment shall be made under this clause for any suspension, delay, or interruption to the extent (1) that performance would have been so suspended, delayed or interrupted by any other cause, including the fault or negligence of the Contractor or (2) for which an equitable adjustment is provided for or excluded under any other provision of this Contract.

22.3 No claim under this clause shall be allowed (1) for any costs incurred more than 20 days before the Contractor shall have notified the Owner in writing of the act of failure to act involved (but this requirement shall not apply as to a claim resulting from a suspension order), and (2) unless the claim, in an amount stated is asserted in writing as soon as practicable after the termination of such suspension, delay, or interruption, but not later than the date of final payment under the Contract.

ARTICLE 23 FINAL INSPECTION AND ACCEPTANCE

23.1 Final inspection: When the Contractor notifies the Project Manager in writing that the work has been completed, the Owner will make the final inspection for the purpose of ascertaining that the work has been completed in accordance with the requirements of the Contract Documents.

23.2 Acceptance of the work: When the Owner has made the final inspection and has determined that the work has been completed in accordance with the Contract Documents, the Owner will accept the work. Immediately upon and after Final Acceptance, the Contractor will be relieved of the duty of maintaining and protecting the work as a whole. The Contractor will be relieved of his responsibility for injury to persons or property or damage to the work which occurs after Final Acceptance, except that the Contractor will not be relieved of his responsibility for injury to persons or property arising from his duties and obligations under Article 4, LIABILITY AND INDEMNIFICATION.

23.3 Final Acceptance shall be final and conclusive, and no further performance of work shall be required except with regards to latent defects, fraud or such gross mistakes as may amount to fraud, or with regard to the Owner's rights under any warranty or guarantee. All punch list items must be completed and building permits provided to Owner before final acceptance is issued.

23.4 Date of Substantial Completion for all Work shall be within the number of calendar days bid by the Contractor on the Bid proposal.

23.5 Date of Final Completion shall be the date specified on the Certificate of Final Completion.

ARTICLE 24 PROGRESS PAYMENTS

24.1 The Owner will make progress payments monthly as the work proceeds, on estimates approved by the Project Manager. Payment will be made within 15 days after progress estimates are approved by the Project Manager and Department Head. On request of the Project Manager, the Contractor shall furnish a detailed estimate of the total contract price each showing the amount included therein for each principal category of the work, to provide a basis for determining the amount of progress payments. In the preparation of estimates, the Owner, at its sole discretion, may authorize material delivered on the site and preparatory work done to be taken into consideration which is to be submitted at the pre-construction meeting.

24.2 In making such progress payments, five percent of the estimated amount will be retained until Final Acceptance of the Contract work; in addition, the Owner shall retain from all Progress payments an amount equal to all statutory claims filed against the Contractor. Also, whenever the work is substantially complete, the Owner if it considers the amount retained to be in excess of the amount adequate for its protection, may release to the Contractor all or a portion of such excess amount. Substantial completion as used in this Paragraph 24.2 shall mean the following: Substantial completion of the work or a portion thereof shall be when, as determined by both the Project Manager and the Owner, the construction is sufficiently completed in accordance with the Contract Documents and any modification thereto as provided in the Contract to permit the Owner to occupy the work or a portion of the work for the use which it is intended.

24.3 Material and work covered by progress payments shall become the sole property of the Owner. This provision shall not be construed as relieving the Contractor from the sole responsibility for material and work upon which payments have been made, the restoration of damaged work or as waiving the right of the Owner to require the fulfillment of the terms of the Contract.

ARTICLE 25 PAYMENT TO SUBCONTRACTORS

25.1 The Contractor shall pay all subcontractors for and on account of work performed by such subcontractors in accordance with the terms of their respective subcontract. Prior to final payment an unconditional lien waiver release form will be required by the Owner.

ARTICLE 26 PAYMENT OF TAXES

26.1 The price or prices for the work will include full compensation for taxes that the Contractor is or may be required to pay. The Contractor shall bear the risk of any added or increased taxes occurring during the prosecution of the work. A change in taxes shall under no circumstances entitle the Contractor to an adjustment under the Contract.

26.2 The Contractor's attention is directed to the fact that this project is exempt from payment of City of Greeley Sales and Use taxes, and such taxes must not be included in the amount of bid.

26.3 The Contractor shall pay all sales and use taxes required to be paid, shall maintain such records in respect of his work, which shall be separate and distinct from all other records maintained by the Contractor and shall be available for inspection by the Owner at any and all reasonable times, and shall furnish the Owner with such data, as may be necessary to enable the Owner to obtain any refunds of such taxes which may be available to the Owner under the laws, ordinances, rules or regulations applicable to such taxes. The Contractor shall require each of his subcontractors to pay all sales and use taxes required to be paid and to maintain such records and furnish the Contractor with such data as may be necessary to enable the Owner to obtain a refund of the taxes paid by such subcontractors.

ARTICLE 27 FINAL PAYMENT

27.1 After the Work has been accepted by the Owner, subject to the provisions of Article 11, WARRANTY OF WORK and Article 23, FINAL INSPECTION AND ACCEPTANCE of these General Conditions, a final payment due the Contractor under this Contract shall be paid upon the presentation of properly executed voucher and after the Contractor shall have furnished the Owner with a release of all claims against the Owner arising by virtue of this Contract, other than claims in stated amounts as may be specifically excepted by the Contractor from the operation of the release. If the Contractor's claim to amounts payable under the contract has been assigned under the assignment of Claims Act of 1940, as amended (31 U.S.C. 203, 41 U.S.C. 15), a release may also be required of the assignee.

27.2 If any mechanic's or material man's lien or notice of claim of such lien is filed or recorded against the project for labor, materials, supplies or equipment claimed to have been furnished to or incorporated into the Work, or for other alleged contribution thereto, the Owner will have the right to retain from payments otherwise due the Contractor, in addition to other amounts properly withheld under this Article or under other provisions of the Contract, an amount equal to such lien or liens claimed.

27.3 Further, the Owner will have the right to retain from final payment an amount equal to all liquidated damages claimed by the Owner.

27.4 Retainages held by the Owner for any state or federal statutory claim arising out of the project will be held by the Owner in addition to all retainages held under the provisions of the Contract.

ARTICLE 28 CHANGES

28.1 The Owner may, at any time, without notice to the sureties, by written notice or order designated or indicated to be a Change Notice or Change Order, make any change in the work within the general scope of the Contract in accordance with all of the Owner's processes and procedures whether or not set forth herein, including but not limited to changes:

28.1.1 In the Contract (including drawings and designs);

28.1.2 In the method or manner of performance of the work;

28.1.3 In Owner furnished facilities, equipment, materials, services, or site; or

28.1.4 Directing acceleration in performance of the work.

28.2 Any other order (which terms as used in Paragraph 28.2 of this Article shall include direction, instruction, interpretation, or determination) from the Project Manager, which causes any change, shall be treated as a Change Notice under this Article provided that the Contractor gives the Project Manager written notice stating the date, circumstances and source of the order, and that the Contractor regards the order as a Change Notice. The Contractor shall notify the Project Manager when he receives direction, instruction, interpretation or determination from any source which may cause any change in the work. Such notification shall be given to the Project Manager before the Contractor acts on said direction, instruction, interpretation or determination.

28.3 Except as herein provided, no order, statement, or conduct of the Architect/ Project Manager or any other person shall be treated as a change under this Article or entitle the Contractor to an equitable adjustment hereunder.

28.4 If any change under this Article causes an increase or decrease in the Contractor's cost of, or the time required for, the performance of any part of the Work under this Contract, whether or not changed by an order, an equitable adjustment will be made and the Contract modified accordingly by a written Change Order; provided, however, that except for claims based on errors in the Contract Documents, no claim for change under Paragraph 28.2 of this Article will be allowed for costs incurred more than 20 days before the Contractor gives written notice as herein required; and provided that in the case of errors in the Contract Documents for which the Owner is responsible, the adjustment will include increased cost, reasonably incurred by the Contractor in attempting to comply with such errors in the Contract Documents. No claim shall be made for the type of errors in the Contract Documents which are set forth in Article 2, INTERPRETATION.

28.5 If the Contractor intends to assert a claim for an equitable adjustment under this Article, he shall, within 30 days after receipt of a written Change Order under Paragraph 28.1 of this Article or the furnishing of a written notice under Paragraph 28.2 of this Article, submit to the Project Manager a written statement setting forth the general nature and monetary extent of such claim, unless this period is extended in writing by the Owner. The statement of claim hereunder may be included in the notice under Paragraph 28.2 of this Article.

28.6 No claim by the Contractor for an equitable adjustment hereunder will be allowed unless asserted as described in Paragraphs 28.4 and 28.5 above.

28.7 Payment will not be made under the provisions of this Article for such work or materials which are so required to be done or furnished in or about or for the performance of the Work and which are not mentioned, specified or indicated or otherwise provided for in this Contract or in the Contract Documents so far as such work or materials may be, in the opinion of the Project Manager, susceptible of classification under or reasonably inferred to be included in the Bid Items of the Bid Form.

28.8 In case the Contractor is ordered to perform work under this Article for which payments are not determined under Paragraph 28.7 of this Article, which in the opinion of the Owner it is impracticable to have performed by the Contractor's own employees, the Contractor will, subject to the approval of the Owner, be paid the actual cost to him of such work and, in addition thereto, a negotiated amount to cover the Contractor's superintendence, administration and other overhead expenses. The terms and conditions of any subcontract which the Contractor may propose to enter into in connection with work under the provision of this Article shall be subject to the written approval of the Project Manager before such subcontract is made. The contractor shall be responsible for the work of the subcontractors and shall be liable therefore as if he had performed the work directly.

28.9 In cases other than those described in Paragraphs 28.7 and 28.8 above, the Owner and the Contractor (on his own behalf and on behalf of his subcontractors) shall endeavor to negotiate a reasonable contract price and line adjustment in a Change Order on terms appropriate to the changed work. The Contractor will be required to submit a sufficiently detailed price proposal supported with sufficient documentation that (1) the Owner can determine that the proposal reflects all impacts on the Contract from work additions, deletions and modifications shown in the Change Notice being priced, (2) the proposed prices are set out in such a way that their reasonableness can be evaluated against prices based on adequate price competition, bid unit prices, established catalog or market prices of commercial items sold in substantial quantities to the general public, prices set by law or regulation, recognized published price lists and indices, independently developed cost estimates and other appropriate price comparisons, and (3) contract provisions relating to Contract changes costing over \$100,000.00 are complied with. If any prices or other aspects are conditional, such as on firm orders being made by a certain date or the occurrence or nonoccurrence of an event, the Contractor shall identify these aspects in his proposal. A negotiated Change Order shall set out prices, scheduling requirements, time extensions and all costs of any nature arising out of the issuance of a Change Notice except for those cost and time aspects explicitly reserved on the face of the Change Order. Except for these explicit reservations, the execution of a Change Order by both parties will be deemed accord and satisfaction of all claims of any nature arising from the issuance of the Change Notice negotiated.

28.10 In the event the Contractor and the Owner are unable to agree upon the Contractor's entitlement to an equitable adjustment or upon the amount thereof, or in the event that it is in the best interest of the Owner to have the Work proceed pending negotiation of amount of an equitable adjustment, the Owner may direct the Contractor to perform the Work in accordance with the Owner order, direction, instruction, interpretation, or determination, with any Contract price adjustments and progress payments for the Work to be determined on a Force Account basis in accordance with Article 36. The Contractor shall continue diligently to perform the Contract in accordance with the Owner's order, direction, instruction, interpretation, or determination during negotiations with respect to the Contractor's entitlement to an equitable adjustment hereunder or to the amount of any Contract price adjustment or time extension. The Contractor and the Owner may agree on certain aspects of an equitable adjustment and take those aspects out of operation of Force Account provisions. In the

event a mutually agreeable equitable adjustment cannot be made, the Contractor shall continue diligently to perform the orders as he proceeds with his remedies under Article 35, DISPUTES, and shall continue to receive compensation on a Force Account basis.

28.11 For contract changes, the Owner, State and Government or their representative shall have the audit and inspection rights as described below:

28.11.1 Where the agreed payment method for any contract changes is to be by cost reimbursement, time and material, labor hours or any combination thereof, the Contractor shall maintain and the Owner or its representatives shall have the right to examine books, records, documents and other evidence and accounting principles and practices sufficient to reflect properly all direct and indirect costs of whatever nature claimed to have been incurred and anticipated to be incurred for the performance of the contract changes under this sub article.

28.11.2 Contract changes exceeding \$100,000.00 in cost: For submitted cost and pricing data in connection with pricing a contract modification referred to in this sub article, unless such pricing is based on bid unit prices, adequate price competition, established catalog or market prices of commercial items sold in substantial quantities to the public, or prices set by law or regulation, the Owner or his representatives and the Comptroller General of the United States and his representatives who are employees of the United States shall have the right to examine all books, records, documents and other data of the Contractor related to the negotiation of or performance under the contract Change Orders for the purpose of evaluating the accuracy, completeness and currency of the cost or pricing data submitted. The right of examination shall extend to all documents necessary to permit adequate evaluation of the cost or pricing data submitted, along with the computations and projections used therein.

28.11.3 Contract changes exceeding \$10,000.00 but not \$100,000.00 in cost: The Owner or his representatives prior to the execution of any contract Change Order in this sub article or for a period of twelve months after execution shall, unless such pricing is based on bid unit prices, adequate price competition, established catalog of market prices or commercial items sold in substantial quantities to the public, or prices set by law or regulation, have the right to examine all books, records, documents, and other data of the Contractor relating to the negotiation and contract Change Order for the purpose of evaluating the accuracy, completeness, and currency of the data is submitted upon which negotiation is or has been based. To the extent the examination reveals inaccurate, incomplete or noncurrent data, the Project Manager may renegotiate the contract Change Order price based on such data.

28.11.4 Contract changes of less than \$10,000.00 in cost: The Owner may require from the Contractor appropriate documentation to support the prices being negotiated for contract changes under this sub article, and may refuse to complete negotiations until satisfactory documentation is submitted.

28.11.5 Availability: The materials described in Paragraphs 28.11.1 and 28.11.2 above shall be available at the office of the Contractor at all reasonable times for inspection, audit or reproduction until three years from the date of final payment under this Contract and for records which relate to Article 35, DISPUTES, or litigations or the settlement of claims arising out of the negotiation or the performance of contract changes over 100,000.00, records shall be made available until such litigations or claims have been resolved.

28.11.6 The Contractor shall insert a clause containing all the provisions in this Paragraph 28.11, including this subparagraph 28.11.6, in all subcontracts hereunder except altered as necessary for proper identification of the contracting parties and Owner.

28.11.7 For the purposes of Paragraph 28.11 of this Article, costs shall include liquidated damages which would be assessed if extension(s) of time were not granted by contract Change Order.

28.11.8 The requirements of this audits and records article are in addition to other audit, inspection and record keeping provisions elsewhere in the Contract Documents.

28.12 Changes involving aggregate increases and decreases in excess of \$100,000.00 shall be subject to the following:

28.12.1 A change involves aggregate increases and decreases in excess of \$100,000.00 if the total value of work affected, without regard to the arithmetic sign, exceeds this amount; for example, a change order adding work in the amount of \$75,000.00 and deleting work in the amount of \$50,000.00 will be considered to involve aggregate increases and decreases of \$125,000.00.

28.12.2 The Contractor shall submit in support of all items not based upon unit prices or lump sum prices contained in the Contract or upon the established prices at which commercial items are sold in substantial quantities to the public, statements by his vendors that the prices charged the Contractor are not greater than the prices charged by the respective vendors to their most favored customers for the same items in similar quantities.

28.12.3 Price reductions for Defective Cost or Pricing Data--Pricing Adjustments: If any price, including profit and fee, negotiated in connection with any price adjustment was increased by any significant sums because:

28.12.3.1 The Contractor furnished cost or pricing data which were not complete, accurate, and current as certified in the Contractor's Certificate of Current Cost or Pricing Data;

28.12.3.2 A subcontractor, pursuant to Paragraph 28.13 of this Article entitled Subcontractor Cost or Pricing Data--Pricing Adjustments or any subcontract provision therein required, furnished costs or pricing data which were not complete, accurate, and current as certified in the Subcontractor's Certificate of Current Cost or Pricing Data;

28.12.3.3 The subcontractor or his prospective subcontractor furnished cost or pricing data which were required to be complete, accurate, and current and to be submitted to support a subcontract cost estimate furnished by the Contractor but which were not complete, accurate, and current as of the date certified in the Contractor's Certificate of Current Cost or Pricing Data; or

28.12.3.4 The Contractor or a subcontractor or his prospective subcontractor furnished any data, not within subparagraphs 28.12.3.1, 28.12.3.2, or 28.12.3.3 above, which were not complete, accurate, and current as submitted, the price shall be reduced accordingly and the Contract shall be modified in writing as may be necessary to reflect such reduction. Any reduction in the Contract Price due to defective subcontract data of a prospective subcontractor, when the subcontract was not subsequently awarded to such subcontractor, will be limited to the amount (plus applicable overhead

and profit markup) by which the actual subcontract, or actual cost to the Contractor if there was no subcontract, was less than the prospective subcontract cost estimate submitted by the Contractor, provided the actual subcontract price was not affected by defective cost or pricing data.

28.13 Subcontract Cost of Pricing Data-- Pricing Adjustment:

28.13.1 When negotiating a change involving increases or decreases in excess of \$100,000.00, the Contractor shall require subcontractors hereunder to submit cost or pricing data under the following circumstances. Prior to award of any cost-reimbursement type, incentive or price redeterminable subcontract;

28.13.1.2 Prior to the award of any subcontract the price of which is expected to exceed \$100,000.00;

28.13.1.3 Prior to the pricing of any subcontract change modifications for which the price is expected to exceed \$100,000.00, except in the case of 28.13.1.2 and 28.13.1.3 where the price is based on adequate price competition, established catalog or market prices, commercial items sold in substantial quantities to the general public, or prices set by law or regulation.

28.13.2 The Contractor shall require subcontractors to certify to the best of their knowledge and belief that the cost and pricing data submitted under subparagraph 28.13.1 of this Article are accurate, complete, and current as of the date of execution, which date shall be as close as possible to the date of agreement on the negotiated price of the contract Change Order.

28.13.3 The Contractor shall insert the substance of Paragraph 28.13 of this Article, including this subparagraph 28.13.3, in each subcontract hereunder which exceeds \$100,000.00.

**ARTICLE 29
PERFORMANCE BOND AND LABOR AND MATERIAL PAYMENT BOND**

29.1 The Contractor shall furnish a Performance Bond in the amount equal to one hundred percent (100%) of the Contract Sum as security for the faithful performance of this Contract and also a Labor and Material Payment Bond in an amount not less than one hundred percent (100%) of the Contract Sum or in a penal sum not less than that prescribed by State, or local law, as security for the payment of all persons performing labor on the Project under this Contract and furnishing materials in connection with this Contract. The Performance Bond and the Labor and Material Payment Bond may be in one or in separate instruments in accordance with local law and shall be delivered to the Owner not later than the date of execution of the Contract.

29.2 Performance Bonds, Labor and Material Payment Bonds and other such sureties shall provide that the surety and the Contractor are both jointly and severally liable and obligated under respective Bond or other surety agreement and shall incorporate acknowledge of applicable provisions of state law into all documents furnished in connection with the project.

**ARTICLE 30
DIFFERING SITE CONDITIONS**

30.1 The Contractor shall within 10 days of actual or constructive notice of a differing site condition, promptly, and before such conditions are disturbed, notify the Project Manager in writing of: (1) subsurface or latent physical conditions at the site differing materially from those indicated in

the Contract Documents, or (2) unknown physical conditions at the site, of an unusual nature, differing materially from those ordinarily encountered and generally recognized as inherent in work of the character provided for in the Contract. The Project Manager will promptly investigate the conditions, and if such conditions materially differ and cause an increase or decrease in the Contractor's cost of, or the time required for, performance of any part of the work under the Contract, whether or not changed as a result of such conditions, an equitable adjustment may be made subject to Owner's approval and the Contract modified in writing accordingly.

30.2 No claim of the Contractor under this Article will be allowed unless the Contractor has given the notice required in Paragraph 30.1 of this Article.

30.3 No claim by the Contractor for an equitable adjustment hereunder will be allowed if asserted after final payment under this Contract.

ARTICLE 31 CONTRACTOR PROPOSALS

31.1 The Contractor may at any time submit to the Project Manager for his review proposed modifications to the Contract Documents, supported by a cost/price proposal. Upon acceptance of the proposed modifications by the Owner, a Change Order will be issued. Denial of the proposed modification will neither provide the Contractor with any basis for claim for damages nor release the Contractor from contractual responsibilities. An equitable adjustment in the form of a contract price reduction will be made if the change results in a reduction of the cost of performance and the Contractor will not be entitled to share in said savings unless the proposal is made under Paragraph 31.2 of this Article. Except as provided in Paragraph 31.2 of this Article, the Contractor will not be compensated for any direct, incidental or collateral benefits or savings the Owner receives as a result of the proposal.

31.2 Value Engineering Change Proposals: The Contractor may submit to the Project Manager one or more cost reduction proposals for changing the Contract requirements. The Proposals shall be based upon a sound study made by the Contractor indicating that the proposal:

31.2.1 Will result in a net reduction in the Total Contract amount;

31.2.2 Will not impair any essential function or characteristic of the Work such as safety, service life, reliability, economy of operation, ease of maintenance and necessary standardized features.

31.2.3 Will not require an unacceptable extension of the contract completion time; and

31.2.4 Will require a change in the Contract Documents and such change is not already under consideration by the Owner.

31.3 The Owner may accept in whole or in part any proposal submitted pursuant to the previous Paragraph 31.2 by issuing a Change Order which will identify the proposal on which it is based. The Change Order will provide for an equitable adjustment in the Contract Price and will revise any other affected provisions of the Contract Documents. The equitable adjustment in the Contract price will be established by determining the net savings resulting from the accepted change. The net savings resulting from the change will be shared between the Contractor and the Owner on the basis of 50 percent for the Contractor and 50 percent for the Owner and will be limited to this

contract for any one Value Engineering Change Proposal. Net savings will be determined by deducting from the estimated gross savings, the Contractor's costs of developing and implementing the proposal (including any amount attributable to a subcontractor) and the estimated amount of increased costs to the Owner resulting from the change, such as evaluation, implementation, inspection, related items, and the Owner-furnished material. Estimated gross savings will include Contractor's labor, material, equipment, overhead, profit and bond. The Contract price will be reduced by the sum of the Owner's costs and share of the net savings. For the purpose of this Article, the applicable provisions of Article 28, CHANGES, shall be used to determine the equitable adjustment to the Contract price.

31.4 The Owner will not be liable for delay in acting upon, or for failure to act upon, any proposal submitted pursuant to Paragraph 31.2 of this Article. The decision of the Owner as to the Acceptance or rejection of any such proposal under the Contract will be final. The submission of a proposal by the Contractor will not in itself affect the rights or obligations of either party under the Contract.

31.5 The Contractor shall have the right to withdraw part or all of any proposal he may make under Paragraph 31.2 of this Article at any time prior to acceptance by the Owner. Such withdrawal shall be made in writing to the Project Manager. Each such proposal shall remain valid for a period of 60 days from the date submitted. If the Contractor wishes to withdraw the proposal prior to the expiration of the 60-day period, he will be liable for the cost incurred by the Owner in reviewing the proposal.

31.6 The Contractor shall specifically identify any proposals under Paragraph 31.2 of this Article with the heading "Value Engineering Change Proposal", or the proposal will be considered as made under Paragraph 31.1 of this Article.

31.7 The Contractor, in connection with each proposal he makes for a Contract Change Notice under this Article shall furnish the following information:

31.7.1 a description of the difference between the existing Contract requirement and the proposed change, and the comparative advantages and disadvantages of each, justification when a function or characteristic of an item is being altered, and the effect of the change on the performance of the end item;

31.7.2 an analysis and itemization of the requirements of the Contract which must be changed if the Value Engineering Change Proposal is accepted and a recommendation as to how to make each such change (e.g., a suggested specification revision);

31.7.3 a separate detailed cost estimate for both the existing Contract requirement and the proposed change to provide an estimate of the reduction in costs, if any, that will result from acceptance of the Value Engineering Change Proposal taking into account the costs of development and implementation by the Contractor;

31.7.4 a prediction of any effects the proposed change would have on collateral costs to the Owner such Government-furnished property costs, costs of related items, and costs of maintenance and operation;

31.7.5 a statement of the time by which a contract modification accepting the Value Engineering Change Proposal must be issued so as to obtain the maximum cost reduction, noting any effect on the contract completion time or delivery schedule; and

31.7.6 identification of any previous submission of the Value Engineering Change Proposal to the Owner, including the dates submitted, the numbers of contracts involved, and the previous actions by the Owner, if known.

ARTICLE 32 EXTENSION OF TIME

32.1 In addition to the provisions stated in Article 38, the Contractor will be granted an extension of time and will not be assessed liquidated damages for any portion of the delay in completion of the Work, performed under the latest approved progress schedule, arising from acts of God, war, fires, floods, epidemics, quarantine restrictions, freight embargoes, or weather more severe than the norm, provided that the aforesaid causes were not foreseeable and did not result from the fault or negligence of the Contractor, and provided further that the Contractor has taken reasonable precautions to prevent further delays owing to such causes, and has notified the Project Manager in writing of the cause or causes of delay within five days from the beginning of any such delay. Within 15 days after the end of the delay, the Contractor shall furnish the Project Manager with detailed information concerning the circumstances of the delay, the number of days actually delayed, the appropriate Contract Document references, and the measures to be taken to prevent or minimize the delay. Failure to submit such information will be sufficient cause for denying the delay claims. The Owner will ascertain the facts and the extent of the delay, and its findings thereon will be final and conclusive to provisions under Article 35, DISPUTES. The extension of time granted for these reasons shall not be the basis for additional compensation for any costs incurred during the time of delay.

32.1.1 Every effort shall be made by the Contractor to complete the project within the "Contract Time". The "Contract Time" anticipates "Normal" weather and climate. The Contractor's schedule must anticipate normal adverse weather delays on all weather dependent activities. The following specifies the procedure for determining time extensions for unusually severe weather. Listed below are the anticipated numbers of calendar days lost to normal adverse weather for each month.

Monthly Anticipated Calendar Days Lost to Adverse Weather Conditions

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
(7)	(4)	(4)	(4)	(6)	(3)	(4)	(2)	(3)	(3)	(2)	(5)

The above schedule of anticipated adverse weather days will constitute the base line for monthly (or portion thereof) weather time evaluations. It is assumed that the work will be carried out Mondays through Fridays (holidays excepted) unless and approved construction schedule or written authorization from the Owner indicates otherwise.

An actual adverse weather day must prevent work for 50 percent or more of the Contractor's workday. When the Contractor anticipates documenting a weather day, he/she shall first notify the Project Manager or his/her designee observing the construction to determine whether or not work can proceed or if work is delayed due to adverse weather or the effects thereof. If in agreement, the Contractor shall formally request a weather day in writing to the Owner's Project Manager or his/her designee. The Contractor shall also notify the Owner's Project Manager in writing or his/her

designee of any disagreement as to whether or not work could have proceeded on a given date within 2 calendar days of that date. The final decision regarding an adverse weather day will be made by the Project Manager or his/her designee.

The number of workdays delayed due to adverse weather or the effects thereof will then be converted to Calendar Days. Weekends and holidays will only count as calendar day delays if a workday delayed due to adverse weather is counted before and after the weekend/holiday. The number of calendar days of delay due to adverse weather or the impact thereof will then be compared to the monthly adverse weather schedule above. The Contract time period will then be increased by change order for the number of calendar days that are in excess of the above schedule and a new Contract Completion day and date will be set.

32.1.2 An extension of time will not be granted for a delay caused by a shortage of materials, except Owner-furnished materials, unless the Contractor furnishes to the Project Manager documentary proof that he has diligently made every effort to obtain such materials from every known source within reasonable reach of the Work. The Contractor shall also submit proof that the inability to obtain such materials when originally planned did in fact cause a delay in final completion of the Work which could not be compensated for by revising the sequence of his operations. Only the physical shortage of material will be considered under these provisions as a cause for extension of time. No consideration will be given to any claim that material could not be obtained at reasonable, practical, or economical costs, unless it is shown to satisfaction of the Project Manager that such material could have been obtained only at exorbitant prices, entirely inconsistent with current rates taking into account the quantities involved and the usual practices in obtaining such quantities.

32.2 A Change Order will be furnished to the Contractor within a reasonable period of time after approval of a request for extension of time, specifying the number of days allowed, if any, and the new date for completion of the Work or specified portions of the Work.

32.3 See also Article 38, TERMINATION FOR DEFAULT--DAMAGES FOR DELAY--TIME EXTENSIONS.

ARTICLE 33 NOTICE OF POTENTIAL CLAIM

33.1 The Contractor will not be entitled to additional compensation otherwise payable for an act or failure to act by the Owner, the happening of any event or occurrence, or any other cause, unless he shall have given the Project Manager a written notice of potential claim therefore as specified in this Article.

33.2 The written notice of potential claim shall set forth the reasons for which the Contractor believes additional compensation will or may be due, the nature of the costs involved, and insofar as possible, the amount of the potential claim. If based on an act or failure to act by the Owner, such notice shall be given to the Project Manager prior to the time that the Contractor has started performance of work giving rise to the potential claim for additional compensation. Notice shall be given within five days after the happening of the event or occurrence giving rise to the potential claim.

33.3 It is the intention of this Article that differences between the parties arising under and by virtue of the contract shall be brought to the attention of the Project Manager at the earliest possible time in order that such matters may be settled, if possible, or other appropriate action promptly taken.

33.4 The notice requirements of this Article are in addition to those required in other Articles of the General Conditions.

ARTICLE 34 SUBMITTAL OF CLAIMS

34.1 Claims filed by the Contractor shall contain sufficient detail to enable the Owner to ascertain the basis and amount of said claims. The Owner will review and evaluate the Contractor's claims. It will be the responsibility of the Contractor to furnish when requested by the Project Manager such further information and details as may be required to determine the facts or contention involved in his claims. Failure to submit such information and details will be sufficient cause for denying the Contractor's claims.

34.2 Each claim the Contractor may make for equitable adjustment on account of delay for any cause shall be accompanied by a progress schedule reflecting the effects of the delay and proposals to minimize these effects. If no progress schedule has been submitted to the Project Manager reflecting conditions prior to the delay for which relief is sought, then a progress schedule so reflecting these conditions shall be prepared and submitted with the claim.

34.3 Depending upon the grounds for relief and the nature of relief sought, additional submittals and conditions upon submitting claims may be required elsewhere in these General Conditions.

34.4 In no event shall claims be made after final payment is made under Article 27, FINAL PAYMENT, of these General Conditions.

34.5 Inasmuch as notice of potential claim requirements of Article 33, NOTICE OF POTENTIAL CLAIM, are intended to enable the Project Manager to investigate while facts are fresh and to take action to minimize or avoid a claim which might be filed thereafter, the Contractor's failure to make the required notice on time is likely to disadvantage the Owner. Therefore no claim for which a notice of potential claim is required will be considered unless the Contractor has complied with the notice of Article 33, NOTICE OF POTENTIAL CLAIM.

ARTICLE 35 DISPUTES

35.1 General: Notwithstanding any other provisions of this Contract, disputes and disagreements by and between the Owner and the Contractor shall be resolved through progressive, sequential process of negotiation, mediation, and in certain cases, arbitration. For contracts which are for \$250,000 or less, amounts in dispute which are less than \$10,000 shall not progress beyond negotiation and shall ultimately be decided by the Owner if not by mutual agreement. For contracts which are for more than \$250,000, amounts in dispute which are less than \$25,000 should not progress beyond negotiation. For all contracts, amounts in dispute greater than those amounts set forth above, but less than \$100,000 shall be resolved through a sequential process of negotiation, mediation, and binding arbitration. Amounts in dispute which are \$100,000 or more shall be resolved through a sequential process of negotiation, mediation, and thence either arbitration or litigation.

35.2 Negotiation: In the event of disputes, unsettled claims, questions or disagreements between the contractor and the City relating to or arising out of the provisions of this Contract, the representatives of those parties shall meet promptly in recognition of mutual interests and in a good

faith effort to resolve the dispute. Either the Contractor or the City shall arrange for this meeting at a time and place within the City of Greeley, mutually acceptable to both parties, within fifteen (15) days of notification of the dispute, unsettled claim, question, or disagreement between the parties. Seven (7) days prior to the meeting, the initiating party shall deliver to the other party, a written and complete summary of the evidence and arguments substantiating its claim. If the parties do not reach a solution within thirty (30) days after said initial meeting, then upon notice of either party to the other, the dispute, claim, question, or difference, may be referred to a mediator pursuant to Section 35.3. The parties can extend the negotiation period by mutual written agreement.

35.3 Mediation: If the dispute, claim, question, or difference is not resolved by negotiation within thirty (30) days after the initial meeting between the parties or within the extended period agreed upon, the parties agree to next request that the American Arbitration Association provide a mediator to assist the Owner and Contractor in resolving the dispute, claim, question, or difference. The rules of mediation shall be the Construction Industry Mediation Rules of the American Arbitration Association. A different mediation/dispute resolution agency may be selected for mediation upon the mutual written agreement between the parties. The dispute resolution agency shall select a qualified mediator who shall have a background in construction. The selected mediator may be rejected by the parties only for bias. The mediator shall have thirty (30) days from the time of appointment to meet with the parties and sixty (60) days from the time of the appointment to resolve the dispute unless the parties mutually consent to an extension of the sixty day deadline. All reasonable fees, costs, and expenses of the mediator, the mediator's association and the mediation agency, shall be borne equally by the parties. Each party shall bear the expense of its own counsel, experts, witnesses, and preparation and presentation of proofs at mediation.

The Contractor shall not cause a delay of work during mediation proceedings except by mutual agreement. All mediation proceedings shall be conducted in the City of Greeley, unless an alternate location is agreed upon in writing by the Owner and the Contractor.

Amounts in dispute which are less than \$10,000 shall not progress beyond mediation.

35.4 Litigation prerequisites: The procedures enumerated in Sections 35.2 and 35.3 shall be a prerequisite to the filing of any litigation between the parties to the Contract. Failure of the Contractor to follow the provisions of Section 35.2 and Section 35.3 shall be a complete defense, and grounds for immediate dismissal of any litigation filed prior to Contractor engaging in negotiation and mediation with the City of Greeley as provided above. Litigation may be filed only if the amount in dispute is \$100,000 or more. In the event litigation is filed by and between the parties after mediation, venue and jurisdiction of any and all suits and causes of action in connection with this Contract shall lie exclusively in Weld County, Colorado.

35.5 Arbitration: After mediation, instead of litigation, any remaining unresolved controversy or claim arising out of or relating to this Contract or the performance or breach thereof, may be settled by arbitration in accordance with the Construction Industry Arbitration Rules of the American Arbitration Association. For amounts in dispute which are \$100,000 or more, arbitration shall be engaged only upon mutual written agreement by the Owner and the Contractor, and the written agreement shall specify whether the arbitration shall be binding or nonbinding; however, amounts in dispute which are less than \$100,000 shall necessarily be settled by binding arbitration. The sole arbitrator shall be appointed by the Arbitration Association, unless a different arbitrator or dispute resolution agency is mutually agreed upon. The award of the arbitrator shall be accompanied by a reasoned opinion, and shall include findings of fact and conclusions. All fees and expenses of

the arbitration, including the expense of each party's counsel, experts, witnesses, and preparation and presentation of proofs, shall be borne by the party against whom arbitration judgment is made.

35.6 Litigation: Each party shall bear its own litigation fees and expenses, including the expense of its counsel, experts, witnesses, and preparation and presentation of proofs, regardless of the prevailing party.

ARTICLE 36 FORCE ACCOUNT WORK

36.1 This Article shall become operative upon failure of the Contractor and the Owner to arrive at an amount of compensation under Article 28, CHANGES. In the event that no equitable adjustment is arrived at either by mutual agreement or pursuant to the Article 35, DISPUTES, the compensation paid hereunder will be the total compensation.

36.2 Work Performed by or for Contractor: The Contractor will be paid for labor, materials, and equipment as hereinafter provided, except where agreement has been reached to pay in accordance with Paragraph 36.3 of this Article. The following percentages, as full compensation for profit, overhead and small tools, will be added to the totals computed as provided in subparagraphs 36.2.1 through 36.2.3 of this Article.

Labor	25 percent
Materials	20 percent
Equipment	10 percent

Labor, materials, and equipment shall be furnished by the Contractor or by a subcontractor. When work paid on a force account basis is performed by forces other than the Contractor's, the Contractor shall reach agreement with such other forces as to the distribution of the payment made by the Owner for such work and, except as specified herein, no additional payment therefore will be made by the Owner by reason of performance of work by a subcontractor or by others. In addition to the markups, if any, for labor, equipment, and materials, for subcontracted work, the Contractor may add an additional five percent markup. The cost of subcontracted work will be the actual cost to the contractor for work performed by a subcontractor as computed in accordance with this Paragraph 36.2 and its subparagraphs 36.2.1, 36.2.2, and 36.2.3.

36.2.1 Labor: The cost of labor used in performing the work, whether the employer is the Contractor or a subcontractor, will be the sum as determined on the basis of the following three subparagraphs:

36.2.1.1 The gross actual wages, including income tax withholdings but not including employer payments to or on behalf of workmen for health and welfare, pension, vacation, insurance and similar purposes.

36.2.1.2 To the gross actual wages, as defined in the previous subparagraph,

36.2.1.1.1, will be added a percentage based upon current State and Federal laws and applicable labor contracts concerning payments made to or on behalf of workmen other than actual wages, which percentage will constitute full compensation for all payments imposed by State and Federal laws and for all other payments made to or on behalf of the workmen, other than actual wages as defined in the previous subparagraph 36.2.1.1 and the subsistence and travel allowance as specified

in the following subparagraphs 36.2.1.3. The Contractor shall compute a separate percentage for each craft, or a composite percentage for all crafts, if so approved by the Owner. Computed percentages shall be submitted to the Project Manager for approval by the Owner.

36.2.1.3 Subsistence and travel allowance paid to workmen as required by established agreements.

36.2.1.4 The charges for labor shall include all classifications up to but not including foremen, and when authorized by the Owner, shall include foremen engaged in the actual and direct performance of the work. Labor charges shall not include charges for assistant superintendents, office personnel, timekeepers, and maintenance mechanics, unless authorized by the Owner in advance of the start of work.

36.2.2 Materials: The cost of materials required for the accomplishment of the work will be delivered cost to the purchaser, whether contractor or subcontractor, from the supplier thereof, except as the following are applicable:

36.2.2.1 If a cash or trade discount by the actual supplier is offered or available to the Contractor, it shall be credited to the Owner notwithstanding the fact that such discount may not have been taken.

36.2.2.2 If materials are procured by the Contractor by a method which is not a direct purchase from and a direct purchase from and a direct billing by the actual supplier, the cost of such materials will be deemed to be the price paid to the actual supplier, as determined by the Owner. No additional markup for supplier work will be allowed except to the extent of actual cost to the Contractor in handling the material, not to exceed five percent of the price paid to actual supplier.

36.2.2.3 If the materials are obtained from a supply or source owned wholly or in part by the Contractor, payment therefore will not exceed the price paid for similar materials furnished from said source on Contract Items or the current wholesale price for such materials delivered to the work site, whichever price is lower.

36.2.2.4 If the cost of the materials is, in the opinion of Owner, excessive, then the cost of such materials will be deemed to be the lowest current wholesale price at which such materials are available in the quantities concerned, delivered to the job site, less discounts as provided in subparagraph 36.2.2.1 of this Article.

36.2.2.5 If the Contractor does not furnish satisfactory evidence of the cost of such materials from the actual supplier thereof, the cost will be determined in accordance with subparagraph 36.2.2.4 of this Article.

36.2.2.6 The Contractor shall have no claims for costs and profit on Owner-furnished materials.

36.2.3 Equipment: The Contractor will be paid for the use of contractor-owned or rented equipment at the rental rates shown in the Colorado State Department of Highways Construction Equipment Rental Rate Schedule, except as modified below, which edition shall be the latest edition in effect at the time of commencement of the Force Account work. For equipment used in excess of eight hours per day, the rental rate shall be 60 percent of the listed hourly rate. If it is deemed

necessary by the Contractor to use equipment not listed in the C.D.O.H. Construction Equipment Rental Rate Schedule, the Contractor shall furnish the necessary cost data and paid invoices to the Project Manager for his use in establishment of such rental rate.

36.2.3.1 The rates paid as above provided will include the cost of fuel, oil, lubricants, supplies, small tools, necessary attachments, repairs and maintenance, depreciation, storage, insurance and incidentals.

36.2.3.2 Equipment operators will be paid for as stipulated in subparagraph 36.2.1 of this Article.

36.2.3.3 Equipment shall be in good working condition and suitable for the purpose for which the equipment is to be used.

36.2.3.4 Unless otherwise specified, manufacturer-approved modifications shall be used to classify equipment for the determination of applicable rental rates. Equipment which has no direct power unit shall be powered by a unit of at least the minimum rating recommended by the manufacturer of that equipment.

36.2.3.5 Individual pieces of equipment or tools having a net individual value of \$300 or less, whether or not consumed by use, will be considered to be small tools and no payment will be made therefore.

36.2.3.6 Compensation will not be allowed while equipment is inoperative due to breakdown. Except as specified in paragraph 36.2.3.7 of this Article, time will be computed in half and full hours. In computing the time for use of equipment, less than 30 minutes shall be considered one half hour.

36.2.3.7 Equipment at the Work Site: The time to be paid for use of equipment on the work site will be the time the equipment is in operation on the force account work being performed. The time will include the time required to move the equipment to location of the force account work and return it to the original location or to another location requiring no more time than that required to return it to its original location. Moving time will not be paid for if the equipment is used at the site of the force account work on other than such force account work. Loading and transporting costs will be allowed, in lieu of moving time, when the equipment is moved by means other than its own power. No payment for loading and transporting will be made if the equipment is used at the site of the force account work on other than such force account work.

36.3 Special Items of Work: If the Owner and the Contractor, by agreement, determine that (a) an item of force account work does not represent a significant portion of the total Contract price, and (b) such items of work cannot be performed by the forces of the Contractor or the forces of any of his subcontractors, and (c) it is not in accordance with the established practice of the industry involved to keep the records which the procedure outlined in Paragraph 36.2 of this Article would require, charges for such special force account work items may be made on the basis of invoices for such work without complete itemization of labor, materials, and equipment rental costs. To such invoiced price, less a credit to the Owner for any cash or trade discount offered or available, will be added five percent of the discounted price, in lieu of the percentages provided in Paragraph 36.2 of this Article. In no event will the price paid exceed the current fair market value of such work plus five percent.

36.4 Records: The Contractor shall maintain his records to provide a clear distinction between the direct costs of work paid for on a force account basis and costs of other operations.

36.4.1 The Contractor shall prepare and furnish to the Project Manager, on the following work day, report sheets in duplicate of each day's work paid for on a force account basis. The daily report sheets shall itemize the materials used and shall cover the direct cost of labor and the charges for equipment, whether furnished by the Contractor, subcontractor, or other forces, except for charges described in Paragraph 36.3 of this Article. The daily report sheets shall provide names or identifications and classifications of workmen and the hourly rate of pay and hours worked. In addition, a report of the size, type and identification number of equipment and hours operated shall be furnished to the Project Manager. Daily report sheets shall be signed by the Contractor or his authorized agent.

36.4.2 Material changes shall be substantiated by valid copies of vendor's invoices or conformed copies, certified true by the Contractor. Such invoices shall be submitted with the daily report sheets. Should the vendor's invoices not be submitted within 20 days after the date of delivery of the material or 15 days after acceptance of the work, whichever comes first, the Owner reserves the right to establish the cost of such materials at the lower current wholesale prices at which such materials are available in the quantities concerned delivered to the location of the work, less any discounts provided in subparagraph 36.2.1. of this Article.

36.4.3 The Project Manager will compare his records with the daily report sheets furnished by the Contractor, make any necessary adjustment and compile the costs of work paid for on a force account basis on daily force account work report forms. When these daily reports are agreed upon and signed by the Project Manager, they shall become the basis of payment for the work performed, but shall not preclude subsequent adjustment based on a later audit.

36.4.4 The Contractor's original cost records pertaining to work paid for on a force account basis shall be retained and shall be open to inspection and audit as required by Article 28, CHANGES, and any other provisions of the Contract.

36.5 If, in the Project Manager's opinion, the Contractor or any of his subcontractors, in performing Force Account work, is not making efficient use of labor, material or equipment or is proceeding in a manner which makes Force Account work unnecessarily more expensive to the Owner, the Project Manager may, in whole or part, direct the Contractor in the deployment of labor, material and equipment. By way of illustration, inefficiency may arise in the following ways: (1) the timing of the work, (2) the use of unnecessary labor or equipment, (3) the use of a higher percentage of apprentices than in non-force account work, (4) failure to procure materials at the lowest price, or (5) using materials of quality higher than necessary.

ARTICLE 37

TERMINATION FOR CONVENIENCE OF THE OWNER

37.1 The performance of Work under this contract may be terminated by the Owner in accordance with this Article in whole, or from time to time in part, whenever such termination is in the best interest of the Owner. Such termination shall be effected by delivery to the Contractor of a Notice of Termination specifying the extent to which performance of work under the Contract is terminated, and the date upon which such termination becomes effective.

37.2 After receipt of a Notice of Termination, and except as otherwise directed by the Owner, the Contractor shall:

37.2.1 Stop work under the Contract on the date and to the extent specified in the Notice of Termination.

37.2.2 Place no further orders or subcontracts for materials, services or facilities, except as may be necessary for completion of such portion of the work under the Contract as is not terminated;

37.2.3 Terminate all orders and subcontracts to the extent that they relate to the performance of work terminated by the Notice of Termination;

37.2.4 Assign to the Owner in the manner, at the times, and to the extent directed by it, all of the rights, title and interest of the Contractor under the orders and subcontracts so terminated, in which case the Owner will have the right, in its discretion, to settle or pay any or all claims arising out of the termination of such orders and subcontracts;

37.2.5 Settle outstanding liabilities and claims arising out of such termination of orders and subcontracts, with the approval or ratification of the Owner to the extent it may require, which approval or ratification shall be final for the purposes of this Article;

37.2.6 Transfer title and deliver to the Owner in the manner, at the times, and to the extent, if any directed by it, (a) the fabricated or unfabricated parts, work in process, completed work, supplies and other material procured as part of, or acquired in connection with the performance of, the work terminated by the Notice of Termination, and (b) the completed or partially completed plans, drawings, information, and other property, which, if the Contract had been completed, would have been required to be furnished to the Owner;

37.2.7 Use his best efforts to sell, in the manner, at the times, to the extent, and at the price or prices direction or authorized by the Owner, property of the types referred to in (37.2.5) above; provided, however, that the Contractor (a) shall not be required to extend credit to any purchaser and (b) may acquire any such property under the conditions prescribed by and at a price or prices approved by the Owner; provided further that the proceeds of any such transfer or disposition will be applied in reduction of any payments to be made by the Owner to the contractor under this Contract or will otherwise be credited to the price or cost of the work covered by this Contract or paid in such other manner as the Owner may direct;

37.2.8 Complete performance of each part of the work as shall not have been terminated by the Notice of Termination; and

37.2.9 Take such action as may be necessary, or as the Project Manager may direct, for the protection and preservation of the property related to this Contract which is in the possession of the Contractor and in which the Owner has or may acquire an interest.

37.3 After receipt of a Notice of Termination, the Contractor shall submit to the Project Manager his termination claim, in the form and with certification prescribed by the Owner. Such claims shall be submitted promptly but in no event later than the earliest of the following: (1) one year from the effective date of termination or (2) thirty days after the remainder of the project has been accepted by the owner.

37.4 Subject to the provision of Paragraph 37.3, the contractor and the Owner may agree upon the whole or any part of the amount or amounts to be paid to the Contractor by reason of the total or partial termination of work pursuant to this Article, which amount or amounts may include an allowance for profit on work done; provided that such agreed amount or amounts, exclusive of settlement costs, shall not exceed the total contract price as reduced by the amount of payments otherwise made and as further reduced by the Contract price of work terminated. The Contract will be amended accordingly, and the Contractor will be paid the agreed amount.

37.5 In the event of failure of the Contractor and the Owner to agree, as provided in Paragraph 37.4, upon the whole amount to be paid the Contractor by reason of the termination of work pursuant to this Article, the Owner will pay the Contractor the amounts determined by the Owner as follows, but without duplication of any amounts agreed upon in accordance with Paragraph 37.4;

37.5.1 With respect to contract work performed prior to the effective date of the Notice of Termination, the total (without duplication of any items) of:

37.5.1.1 The cost of such work;

37.5.1.2 The cost of settling and paying claims arising out of the termination of work under subcontracts or orders as provided in subparagraph 37.2.5 above, exclusive of the amounts paid or payable on account of supplies or materials delivered or services furnished by the subcontractor prior to the effective date of the Notice of Termination of work under this Contract, which amounts shall be included in the cost on account of which payment is made under 37.5.1 above.

37.5.1.3 A sum, as profit on 37.5.1.1 above, determined by the Owner to be fair and reasonable; provided, however, that if it appears that the Contractor would have sustained a loss on the entire Contract had it been completed, no profit shall be included or allowed under this subparagraph 37.5.1.3 and an appropriate adjustment shall be made by reducing the amount of the settlement to reflect the indicated rate of loss.

37.5.2 The reasonable cost of the preservation and property incurred pursuant to subparagraph 37.2.9 and any other reasonable cost incidental to termination of work under this Contract, including expense incidental to the determination of the amount due to the Contractor as the result of the termination of work under this Contract.

37.5.3 The total sum to be paid to the contractor under paragraph 37.5.1 above will not exceed the total contract price as reduced by the amount of payments otherwise made and as further reduced by the Contract price of the work terminated.

37.6 In arriving at the amount due the Contractor under this Article, there will be deducted (1) any claim which the Owner may have against the Contractor in connection with this Contract, (2) the agreed price for, or the proceeds of sale, of materials, supplies or other things acquired by the contractor or sold, pursuant to the provisions of this Article, and not otherwise recovered by or credited to the Owner and (3) the full amount of any statutory or other claim against the Contractor filed with the Owner.

37.7 Unless otherwise provided for in this Contract, or by applicable statute, the Contractor, from the effective date of termination and for a period of three years after final settlement under this Contract, shall preserve and make available to the Owner at all reasonable times at the office of the Contractor but without direct charge to the Owner, all his books, records, documents, electronic/digital media and other evidence bearing on the costs and expenses of the Contractor under this Contract and related to the work terminated hereunder, or to the extent approved by the Owner, or other authentic reproductions thereof.

37.8 The Contractor shall insert in all subcontracts that the subcontractor shall stop work on the date of and to the extent specified in a Notice of Termination from the Owner and shall require that any tier subcontractors insert the same provision in any tier subcontracts.

37.9 Under no circumstances is the Contractor entitled to anticipatory, unearned profits or consequential damages as a result of a termination or partial termination under this Article.

ARTICLE 38 TERMINATION FOR DEFAULT

38.1 If, in the opinion of the Owner, the Contractor has failed to prosecute work, the Owner will notify the Contractor. The Contractor will then have 5 days to remedy the failure to prosecute work or to obtain the Owner's authorization for the delay or an extension of time as set forth in Article 32.

38.2 If the Contractor refuses or fails after reasonable notice as set forth above to prosecute Work, or any separable part thereof, with such diligence as will insure its completion within the time specified in this Contract, or refuses or fails to complete said Work within such time, the Owner may, by written notice to the Contractor, terminate for default his right to proceed with the Work or such part of the Work as to which there has been unauthorized delay. In such event the Owner may take over the work and prosecute the same to completion, by Contractor or otherwise, and may take possession of and utilize in completing the Work such materials, appliances, and plant as may be on the Work Site and necessary therefore. Whether or not the Contractor's right to proceed with the Work is terminated, he and his sureties shall be liable for any damage to the Owner resulting from his refusal or failure to complete the Work in the specified time.

38.3 If the Owner so terminates the Contractor's right to proceed, the resulting damage will consist of liquidated damages until such time as may be required for final completion of the Work together with any increased costs incurred by the Owner in completing the Work as further set forth in Article 41.

38.4 If, after Notice of Termination of the Contractor's right to proceed under the provisions of this Article, it is determined for any reason that the Contractor was not in default under the provisions of this Article or that the Contractor was entitled to an extension of time under Article 32,

EXTENSION OF TIME, the rights and obligations of the parties shall be the same as if the Notice of Termination had been issued pursuant to Article 37, TERMINATION FOR CONVENIENCE OF THE OWNER.

38.5 The right to terminate for default and any other rights and remedies of the Owner provided in this clause are in addition to any other rights and remedies provided by law or under this Contract.

ARTICLE 39

TERMINATION OF RIGHT TO PROCEED FOR CERTAIN DEFAULTS

39.1 In addition to the Owner's right to terminate for default under other Articles of this Contract, the Owner will have the right to terminate the Contractor's performance of work in whole or in part for default for any of the following reasons:

39.1.1 The Contractor's or subcontractor's performance of work is in violation of the terms of the Contract.

39.1.2 The Contractor or subcontractor has violated an authorized order or requirement of the Owner.

39.1.3 Abandonment of Contract.

39.1.4 Assignment or subcontracting of the Contract or any work under the Contract without approval of the Owner.

39.1.5 Bankruptcy or appointment of a receiver for the Contractor's property.

39.1.6 Performance of the Contractor in bad faith.

39.1.7 Contractor allowing any final judgment to stand against him for a period of 48 hours (excluding weekends and legal holidays).

39.2 If, in the opinion of the Owner, the Contractor is in default of the Contract, the Owner will notify the Contractor. If the Contractor fails to remedy or commence to remedy the default within five days after receipt of such notice, the Owner may terminate the Contractor's right to proceed with the Work or that portion of the Work which the Owner determines is most directly affected by the default.

39.3 If, after Notice of Termination of Contractor's right to proceed under this Article it is determined for any reason Contractor was not in default, the rights and obligations of the parties shall be the same as if the Notice of Termination had been issued pursuant to Article 37, TERMINATION FOR CONVENIENCE OF THE OWNER.

ARTICLE 40

RIGHTS AND OBLIGATIONS OF PARTIES AT TERMINATION FOR DEFAULTS

40.1 This Article shall apply to terminations for defaults covered in Article 15, 38, and 39 of these General Conditions.

- 40.2 On receipt of a Notice of Termination from the Owner, the Contractor shall:
- 40.2.1 Stop all work under the Contract on the date and to the extent specified in the Notice of Termination.
- 40.2.2 Place no further orders or subcontracts for materials, equipment or services except as they relate to the performance of work covered by the Notice of Termination.
- 40.2.3 Cancel or terminate all orders or subcontracts to the extent that they relate to the performance of work covered by the Notice of Termination.
- 40.2.4 Comply with all other requirements of the Owner as may be specified in the Notice of Termination.
- 40.3 Upon the Owner termination of the Contractor's right to proceed with the Work because of the Contractor's default under the Contract, the Owner will have the right to complete the Work by whatever means and method it deems advisable. The Owner shall have the right to take possession of and use any or all the Contractor's materials, plat, tools, equipment and property of any kind provided by or on behalf of the Contractor for the purpose of the Work, or a portion of them, without being responsible to the Contractor for fair wear and tear. The Contractor shall have no rights in such property during their use by the Owner. The Owner will not be required to obtain the lowest prices for completing the Work but shall make such expenditures as, in the Owner's sole judgment, best accomplish such completion.
- 40.4 The expense of completing the Work, together with a reasonable charge for engineering, managerial and administrative services, as certified by the Owner, will be charged to the Contractor and the expense so charged will be deducted by the Owner out of such monies as may be due or may at any time thereafter become due to the Contractor. In case such expense is in excess of the sum which otherwise would have been payable to the Contractor under the Contract, the Contractor or his surety shall promptly pay the amount of such excess to the Owner upon notice from the Owner of the excess so due. The Owner may, in its sole discretion, withhold all or any part of any progress payments otherwise due the Contractor until completion and final settlement of the Work covered by the Notice of Termination of Contractor's right to proceed.
- 40.5 The Contractor shall insert in all subcontracts that the subcontractor will stop work on the date of or to the extent specified in a Notice of Termination from the Owner and shall require the subcontractors to insert the same provision in any tier subcontracts.
- 40.6 The Contractor shall immediately upon receipt communicate any Notice of Termination issued by the Owner to the affected subcontractors and suppliers at any tier.
- 40.7 Rights of Surety: The Surety on the Performance Bond provided for in this Contract shall not be entitled to take over the Contractor's performance of work in case of termination under this Article, except with the consent of the Owner.

ARTICLE 41 LIQUIDATED DAMAGES

41.1 Time is of the essence of the Contract. In the event the Contractor fails to achieve Substantial Completion of the Work within the Contract Time, or fails to meet any other time requirement or the time limit set forth in the Contract, after due allowance for any extension or extensions of time made in accordance with the Contract, the Contractor shall pay to the Owner as fixed, agreed and liquidated damages, pursuant to the clause of the Contract entitled TERMINATION FOR DEFAULT—DAMAGES FOR DELAY—TIME EXTENSIONS, the sum of \$500.00 for each calendar day of delay unless otherwise stated in the Special Provisions. Such liquidated damages shall be assessed for each and every day that the Contractor shall be in default. The Owner shall have the right to deduct said liquidated damages from any amount due or that may become due the Contractor, or to collect such liquidated damages from the Contractor or its surety.

41.2 Liquidated damages in the amount stipulated do not include any sums of money to reimburse the City for actual damages which may be incurred between Substantial Completion and Final Completion because of the Contractor's failure to achieve Final Completion within the Contract Time. For such delay in Final Completion, the Contractor shall reimburse the City, as a mitigation of City damages and not as a penalty, those administrative costs incurred by the City as a result of such failure.

41.3 Liquidated damages in the amounts stipulated do not include any sums of money to reimburse the City for extra costs which the City may become obligated to pay on other contracts which were delayed or extended because of the Contractor's failure to complete the Work within the Contract Time. Should the City incur additional costs because of delays or extensions to other contracts resulting from the Contractor's failure of timely performance, the City will assess these extra costs against the Contractor, and these assessments will be in addition to the stipulated liquidated damages.

41.4 The City reserves all of its rights to actual damages from the Contractor for injury or loss suffered by the City from actions or omissions of the Contractor, including but not limited to any other breach or default of the Contract, outside of the scope of the above sections.

ARTICLE 42 USE AND POSSESSION PRIOR TO COMPLETION

42.1 The Owner shall have the right to take possession of or use any completed or partially completed parts of the Work. Such possession or use will not be deemed an acceptance of Work not completed in accordance with the Contract. While the Owner is in such possession, the Contractor, notwithstanding the provisions of Article 18, DAMAGE TO WORK AND RESPONSIBILITIES FOR MATERIALS, will be relieved of the responsibility for loss or damage to the work other than that resulting from the Contractor's fault or negligence or breach of warranty. If such prior possession or use by the Owner delays the progress of the Work or causes additional expense to the Contractor, an equitable adjustment in the Contract price or the time of completion will be made, and the Contract will be modified in writing accordingly.

ARTICLE 43
RIGHTS IN SHOP DRAWINGS AND WORKING DRAWINGS

43.1 Shop Drawings and Working Drawings, submitted to the Project Manager by the Contractor, subcontractor or any lower tier subcontractor pursuant to the Work, may be duplicated by the Owner and the Owner may use and disclose, in any manner and for any purpose, Shop Drawings and Working Drawings delivered under this Contract.

43.2 This Article, including this Paragraph 43.2, shall be included in all subcontracts hereunder at all tiers.

ARTICLE 44
PATENT AND COPYRIGHT

44.1 The Contractor shall warrant that the materials, equipment or devices used on or incorporated in the Work shall be delivered free of any rightful claim of any third party for infringement of any United States patent or copyright. If notified promptly in writing and given authority, information and assistance, the Contractor shall defend, or may settle, at his expense, any suit or proceeding against the Owner or the Project Manager based on a claimed patent or copyright infringement which would result in a breach of his warranty. The Contractor shall pay all damages and costs awarded therein against the Owner or the Project Manager due to such breach. If any use of materials, equipment or devices is held to constitute an infringement and such use is enjoined, the Contractor shall, at his expense and option, either procure for the Owner the right to continue using said materials, equipment or devices, or replace same with noninfringing materials, equipment or devices, or modify same so it becomes noninfringing. The Contractor shall report to the Owner promptly and in reasonable written detail, each notice or claim of patent or copyright infringement based on the performance of this Contract of which the Contractor has knowledge. In the event of any claim or suit against the Owner on account of any alleged patent or copyright infringement arising out of the performance of this Contract or out of the use of any supplies furnished or work or services performed hereunder, the Contractor shall furnish to the Owner when requested by the Owner, all evidence and information in possession of the Contractor pertaining to such suit or claim. Such evidence and information shall be furnished at the expense of the Owner except where the Contractor has agreed to indemnify the Owner. This clause shall be included in all subcontracts.

ARTICLE 45
HISTORICAL, SCIENTIFIC AND ARCHAEOLOGICAL DISCOVERIES

45.1 All articles of historical, scientific or archaeological interest uncovered by the Contractor during progress of the Work shall be preserved in accordance with applicable law and reported immediately to the Project Manager. Further operations of the Contractor with respect to the find, including disposition of the articles, will be decided by the Owner in accordance with applicable law.

ARTICLE 46
SUBSTITUTIONS

46.1 Where reference is made to one or more proprietary products but restrictive descriptive material of only one manufacturer is used, it is understood that the products of other manufacturers will be accepted, provided they equal or exceed the standards set forth in the plans and

specifications and are compatible with the intent and purpose of the design, subject to the written approval of the Owner and the Project Manager. If the descriptive material is not restrictive, the products of other manufacturers specified will be accepted without prior approval provided they are compatible with the intent and purpose of the design.

46.2 The Contractor may propose the substitutions of any material as a supplement to his bid with the monetary amount, additive or deductive as may be the case, clearly stated. Manufacturer's information, catalog numbers, and complete descriptive information shall be included with the proposed substitution. This shall be completely apart and separate from the base bid quotation and shall be solely for the information of the Owner, and the use of such proposed substitutions shall be strictly at the decision of the Owner. If substitution is accepted by the Owner, the Contract sum shall be adjusted from the base bid either up or down as indicated on the supplementary list.

ARTICLE 47 INSURANCE

47.1 General

47.1.1 The Contractor shall provide from insurance companies, acceptable to the Owner, the insurance coverage designated hereinafter and pay all costs. The Contractor also indemnifies the Owner as further described in Article 4.

47.1.2 Before commencing work under this Agreement, the Contractor shall furnish the Owner with certificates of insurance specified herein showing the type, amount, class of operations covered, effective dates, and date of expiration of policies. Furthermore, each such certificate shall contain a valid provision or endorsement that the policy may not be cancelled, terminated, changed or modified without first giving ten (10) days written notice to the Owner, which notice must be sent registered mail, return receipt requested, to the Project Manager.

47.1.3 In case of the breach of any provision of this Article, the Owner, at his option, may take out and maintain, at the expense of the Contractor, such insurance as the Owner may deem proper at the Contractor's expense and may deduct the cost of such insurance from any monies which may be due or become due the Contractor under this Agreement.

47.1.4 The Contractor shall either: (1) require each of his subcontractors to procure and maintain during the life of his subcontract, subcontractors' comprehensive General Liability, Automobile Liability and Property Damage Liability Insurance of the type and in the same amounts as specified in this subparagraph, or (2) insure the activity of his subcontractors in his own policy.

47.1.5 Co-Insurance: The Contractor herein agrees to name the Owner as an insured party on all liability insurance policies provided for by this Article 47, INSURANCE.

47.1.6 No insurance shall be cancelled or otherwise voided during the Contract period, without at least 10 days prior written notice to the Owner, nor shall any insurance be invalidated should the insured waive any or all right of recovery against any party.

47.1.7 Liability insurance may be arranged by Comprehensive General Liability and Comprehensive Automobile Liability policies for the full limits required; or by a combination of underlying Comprehensive Liability policies for lesser limits with the remaining limits provided by an Excess or Umbrella Liability policy.

47.1.8 The Owner shall purchase and maintain such boiler and machinery insurance as may be required by the Contract Documents or by law. This insurance shall include the interest of the Owner, the Contractor, Subcontractors and Sub-subcontractors in the Work.

47.1.9 Any loss insured under Article 47 is to be adjusted with the Owner and made payable to the Owner as trustee for the insured, as their interests may appear, subject to the requirements of any applicable mortgage clause. The Contractor shall pay each subcontractor a just share of any insurance monies received by the Contractor, and by appropriate share of any insurance monies received by the Contractor, and by appropriate agreement, written where legally required for validity, shall require each subcontractor to make payments to his subcontractors in similar manner.

47.1.10 If the Contractor requests in writing that insurance for risks other than those described in this Article or other special hazards be included in the Owner's property insurance policy, the Owner shall, if possible, include such insurance, and the cost thereof shall be charged to the Contractor by appropriate Change Order.

47.1.11 The Owner as trustee shall have power to adjust and settle any loss with the insurers.

47.1.12 If the Owner finds it necessary to occupy or use a portion or portions of the Work prior to Substantial Completion thereof, such occupancy or use shall not commence prior to a time mutually agreed to by the Owner and Contractor and to which the insurance company or companies providing the property insurance have consented by endorsement to the policy or policies. This insurance shall not be cancelled or lapsed on account of such partial occupancy or use. Consent of the Contractor and of the insurance company or companies to such occupancy or use shall not be unreasonably withheld.

47.2 Workmen's Compensation and Employer's Liability Insurance:

47.2.1 The Contractor shall provide coverage and amounts as required by the Workmen's Compensation Act of the State of Colorado.

47.2.2 The Contractor shall provide Employer's Liability Insurance in an amount not less than \$100,000 for each occurrence.

47.2.3 The Contractor shall require any subcontractor to provide Workmen's Compensation and Employer's Liability Insurance in the same amounts for all of the subcontractor's employees to be engaged in work under this Agreement.

47.3 General Liability

47.3.1 General Liability Insurance shall be on a Comprehensive General Liability form and shall provide coverage for the following: Premises and Operations, Owners and Contractors Protective, Elevators, Independent Contractors, Products and Completed Operations, Contractual, Personal Injury, and Broad Form Property Damage; "XCU" exclusions must be deleted.

47.3.2 Minimum requirements for Comprehensive General Liability are: bodily injury, \$1,000,000.00 each person, \$2,000,000.00 each occurrence; property damage, \$1,000,000.00 each occurrence.

47.4 Automobile Liability

47.4.1 Comprehensive Automobile Liability Insurance shall include coverage for all owned motor vehicles and hired and non-owned motor vehicles.

47.4.2 Minimum requirements for Comprehensive Automobile Insurance are: bodily injury, \$1,000,000.00 each person, \$2,000,000.00 each occurrence; property damage, \$1,000,000.00 each occurrence.

47.5 Property Insurance:

47.5.1 The Owner may require the Contractor to purchase and maintain "Builder's Risk" Property Insurance for all work at the site to the full insurable value thereof. The Owner and the Project Manager shall be named as co-insured.

ARTICLE 48 UNCOVERING AND CORRECTION OF WORK

48.1 During construction, whenever materials requiring inspection in place by the Project Manager and the Owner to be permanently covered up, it shall be Contractor's responsibility to notify the Project Manager at least 24 hours in advance of commencement of such covering operation. In the event of failure by Contractor to give such notification, Contractor shall, at his own expense, uncover such portions of work as required by the Project Manager or the Owner, and reinstall such covering after satisfactory inspection and correction of any and all deficiencies.

ARTICLE 49 EQUAL OPPORTUNITY

49.1 The Contractor agrees to comply with the letter and spirit of the Colorado Anti-discrimination Act of 1957, as amended, and other applicable laws respecting discrimination and unfair employment practices (24-34-402, CRS 1973, as amended). The Contractor shall be responsible for any discriminatory or unfair employment practices of his subcontractors. Neither the Contractor nor any subcontractor will discriminate against any employee or applicant for employment because of race, creed, color, national origin, sex, religion, ancestry, mental or physical handicap, or age. Contractor shall take affirmative action to insure that applicants are employed, and that employees are treated during employment without regard to their race, creed, color, national origin, sex, religion, ancestry, mental or physical handicap, or age. 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. Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the policies of non-discrimination.

49.2 Contractor and all subcontractors shall, in all solicitations or advertisement for employees placed by them or on their behalf, state that qualified applicants will receive consideration for employment without regard to race, creed, color, national origin, sex, religion, ancestry, mental or physical handicap, or age.

ARTICLE 50 CLAIMS

50.1 The Contractor shall not assert any claim arising out of any act or omission by any officer, agent or employee of the Owner in the execution or performance of this Contract against such officer, agent or employee in his or her individual or official capacities.

50.2 The Contractor shall require each Separate Contract Design Professional or Contractor to agree in his Contract not to make any claim against the Owner, its officers, agents or employees, by reason of such Contract with the contractor.

50.3 Nothing in this Contract shall be construed to give any person other than the Owner and the Contractor any legal or equitable right, remedy or claim under this Contract; and it shall be held to be for the sole and exclusive benefit of the Owner and the Contractor.

ARTICLE 51 NOTICES

51.1 Except as otherwise provided herein, any notice, approval, acceptance, request, bill, demand or statement hereunder from either party to the other shall be in writing and shall be deemed to have been given when either delivered personally or deposited in a U.S. mailbox in a postage-prepaid envelope, addressed to the other party via certified mail. Notices to the Owner shall be addressed to the Project Manager by name. Either party may at any time change such address by delivering or mailing, as aforesaid, to the other party a notice stating the change and the changed address.

ARTICLE 52 LEGAL INSERTIONS, ERRORS, INCONSISTENCIES, OR DISCREPANCIES IN CONTRACT

52.1 It is the intent and understanding of the parties to this Contract that each and every provision of law required to be inserted in this Contract shall be and is inserted herein. Furthermore, it is hereby stipulated that every such provision is deemed to be inserted herein, and if through mistakes or otherwise, any such provision is not inserted in correct form, then this Contract shall upon application of either party, be amended by such insertion so as to comply strictly with the law and without prejudice to the right of either party.

52.2 If this Contract contains any errors, inconsistencies, ambiguities, or discrepancies, including typographical errors, the Contractor shall request a clarification of same by writing to the Project Manager whose decision shall be binding upon the parties.

ARTICLE 53 CAPTIONS OR HEAD NOTES

53.1 The captions or head notes on articles or sections of this Agreement, and marginal notes are intended for convenience and reference purposes only and in no way define, limit or describe the scope or intent hereof, or of this Agreement not in any way affect this Agreement.

ARTICLE 54 EFFECTIVE AND BINDING

54.1 This Contract shall not become effective or binding upon the Owner unless it has been authorized and executed in accordance with the ordinances of the City of Greeley.

ARTICLE 55 CONTRACTOR

55.1 All personnel assigned to the Project by the Contractor shall be required to cooperate fully with personnel of the Owner and if in the sole discretion of the Owner the Contractor's personnel fails so to cooperate, the Contractor shall relieve them of their duties on the Project when required by the Owner.

55.2 Within seven (7) consecutive calendar days after date of written notice to commence work, the Contractor shall designate in writing one person who, on his behalf, shall be responsible for coordinating all of the services to be rendered by the Contractor hereunder. Such designee shall be subject to the approval of the Owner. Any change to the approved designee shall be proposed in writing seven (7) days in advance and subject to Owner approval.

55.3 The Contractor shall engage, at his sole expense, all engineers, architects, cost estimators, lawyers, experts and Contractors as may be required for the proper performance of the Contract. The Contractor shall be responsible for the performance of the work of all architects, engineers, cost estimators, lawyers, experts and Contractors so engaged by him, including maintenance of schedules, correlation of their work and resolution of all difference between them. It is understood that all architects, engineers, cost estimators, lawyers, experts and Contractors are employees of the Contractor and not of the Owner, and the Contractor alone is responsible for their work.

55.4 All drawings, tracings, specifications, digital media/electronic files and other material prepared and furnished under and for this Contract shall become the property of the Owner upon substantial completion and/or their acceptance by the Owner and/or upon termination of the services of the Contractor. Such documents shall be promptly delivered to the Owner upon demand and thereafter may be used by the Owner in whole or in part or in modified form, for those purposes it may deem advisable without further employment of, or payment of additional compensation to, the Contractor.

55.5 The Contractor shall not, without the prior written approval of the Owner, specify for the project, or necessarily imply the required use of any article, product, material, fixture or form of construction, the use of which is covered by a patent, or which is otherwise exclusively controlled by a particular firm or group of firms.

55.6 Should any claim be made or any action brought against the Owner relating to the design and satisfactory operation of the Project herein, the Contractor shall diligently render to the Owner without additional compensation any and all assistance which may be requested by the Owner.

55.7 The Owner's Project Manager's decision shall be final and binding upon the Contractor as to all matters arising in connection with or relating to this Contract. The Project Manager shall determine the amount, quality, acceptability and fitness of the work being performed hereunder and shall determine all matters relative to the fulfillment of this Contract on the part of the Contractor and such determination shall be final and binding on the Contractor. Acceptance by the Owner of any document hereunder and all supporting documents shall not relieve the Contractor of sole responsibility for work performed under this contract, including, but not limited to, the final design of the Project, including the plans, specifications and all supporting documents, except as to any feature thereof which the Owner had specifically directed in writing to be included over the written objection of the Contractor. In case any question shall arise, the decision of the Owner's Project Manager, who is hereby accepted by the Contractor as the arbiter, shall be a condition precedent to the right of the Contractor to receive any money under this Contract.

ARTICLE 56 APPEALS

56.1 Except as otherwise provided in this Contract, any dispute concerning a question of fact arising under this Contract which is not disposed of by Agreement shall be decided by the Project Manager, who shall reduce his decision to writing and mail or otherwise furnish a copy thereof to the Contractor. The decision of the Project Manager shall be final and conclusive unless, within fifteen (15) days from the date of receipt of such copy, the Contractor mails or otherwise furnishes to the Project Manager a written notice of appeal.

56.2 In the event a decision of the Project Manager is the subject of an appeal, such dispute may be settled by appropriate legal proceeding, or, if the parties mutually agree, through arbitration or administrative process. Pending any binding arbitral or administrative decision, appeal, or judgment referred to in this section or the settlement of any dispute arising under this Contract, the Contractor shall proceed diligently with the performance of this Contract.

56.3 Venue and jurisdiction of any suit, right, or cause of action arising under or in connection with this Contract shall lie exclusively in Weld County, Colorado.

ARTICLE 57 PROHIBITED INTEREST

57.1 No member, officer or employee of the City of Greeley shall have any financial or pecuniary interest, direct or indirect, in this Contract or the proceeds thereof.

ARTICLE 58 FINDINGS CONFIDENTIAL

58.1 Any reports, information, data, etc., available to or prepared or assembled by Contractor under this Contract shall not be made available to any individual or organization by Contractor without consent in writing from the Owner subject to applicable law.

ARTICLE 59 GENERAL PROVISIONS

59.1 Services and work performed by Contractor under this Contract shall conform to reasonable and normal professional standards known and accepted within the community.

59.2 No reports, graphics or other material produced directly or indirectly for the Owner under this Contract shall be the subject of an application for copyright or trademark by or on behalf of Contractor.

59.3 The laws of the State of Colorado and applicable Federal, state and local laws, regulations and guidelines shall govern hereunder.

59.4 The headings of the articles, clauses, and paragraphs of this Contract are inserted for reference purposes only and are not restrictive as to content.

59.5 This Contract and any subsequent amendment shall be deemed an original having identical legal effect, and all of which together constitute one and the same instrument.

59.6 Nothing contained herein shall be deemed to give any third party any claim or right of action against the Owner which does not otherwise exist without regard to this Contract.

59.7 Where a number of days is specified in this Contract it shall mean calendar days unless otherwise specified.

59.8 This Contract shall not be assigned, in whole or in part, without the written consent of the Project Manager and Contractor.

59.9 The Owner certifies the following;

A. An amount of money equal to or greater than the Contract amount has been appropriated and budgeted for the Project which this Contract concerns.

B. No Change Order which requires additional compensable work to be performed by the Contractor will be issued by the Owner unless an amount of money has been appropriated and budgeted sufficient to compensate the Contractor for such additional compensable work unless such work is covered under the remedy-granting provisions of this Contract.

C. As used in this paragraph, "remedy granting provision" shall mean any clause of this Contract which permits additional compensation in the event of a specific contingency or event occurs. This term shall include, but not be limited to, change clauses, differing site conditions clauses, variation in quantities clauses, and termination for convenience clauses.

ARTICLE 60 CONTRACTOR ACCEPTANCE

60.1 The acceptance by the Contractor, his successors or assigns of any payment made on the final acceptance of the Project under this Contract or of any final payment due on termination of this Contract, shall constitute a full and complete release of the Owner from any and all claims, demands and causes of action whatsoever which the Contractor, his successors or assigns have or may have against the Owner under the provisions of this Contract.

60.2 No action shall be maintained by the Contractor, its successors or assigns, against the Owner on any claims based upon or arising out of this Contract or out of anything done in connection with this Contract unless such action shall be commenced within 180 days after the date of filing of the voucher for final payment hereunder in the office of the Finance Director, or within 180 days of the termination of this Contract.

ARTICLE 61 SUCCESSORS AND ASSIGNS

61.1 The Contractor binds itself, its partners, successors, assigns and legal representatives to the other party to this Contract and to the partners, successors, assigns and legal representatives of such other party with respect of all covenants of this Agreement. The Contractor shall not transfer, assign, or subcontract any interest in this Agreement.

ARTICLE 62 SEVERABILITY CLAUSE

62.1 If any provision of this Agreement is subsequently declared by legislative or judicial authority to be unlawful, unenforceable, or not in accordance with applicable laws, statutes, and regulations of the United States of America and the State of Colorado, all other provisions of this Agreement shall remain in full force and effect.

ARTICLE 63

63.1 This Agreement represents the entire and integrated Agreement between the Owner and the Contractor and supersedes all prior negotiations, representations or agreements, either written or oral. This Agreement may be amended only by written instrument signed by both Owner and Contractor.

ARTICLE 64

64.1 In accordance with C.R.S. §8-17-101, all parties contracting with the City of Greeley on public works projects shall employ Colorado labor to perform the work to the extent of not less than eighty percent (80%) of each type or class of labor in the several classifications of skilled and common labor employed on this project.

ARTICLE 65

65.1 The Contract Documents may be executed in two or more counterparts, each of which shall be deemed an original but all of which together shall constitute one and the same document. The Contract Documents, including all component parts set forth above, may be executed and delivered by electronic signature by any of the parties and all parties consent to the use of electronic signatures.



SECTION 520
SUBCONTRACTORS/MATERIALS SUPPLIERS AND RELATED DATA

Firm Name: _____ City Contractors License # _____
Primary Contractor _____
PROJECT: _____ Address: _____

For each Subcontractor and/or Materials Suppliers to be utilized, please provide the following information
(use additional sheets as necessary):

Phone Number: _____ Fax Number: _____
Proposed work and percentage of total work to be assigned _____
Percentage: _____ %

Firm Name: _____ City Contractors License # _____
Address: _____
Phone Number: _____ Fax Number: _____
Proposed work and percentage of total work to be assigned _____
Percentage: _____ %

Firm Name: _____ City Contractors License # _____
Address: _____
Phone Number: _____ Fax Number: _____
Proposed work and percentage of total work to be assigned _____
Percentage: _____ %

Firm Name: _____ City Contractors License # _____
Address: _____
Phone Number: _____ Fax Number: _____
Proposed work and percentage of total work to be assigned _____
Percentage: _____ %

Firm Name: _____ City Contractors License # _____
Address: _____
Phone Number: _____ Fax Number: _____
Proposed work and percentage of total work to be assigned _____
Percentage: _____ %

If the Primary Contractor adds any Subcontractors or Materials Suppliers during the duration of the project, the Primary Contractor will supply the City with an updated form before the Subcontractor or Materials Supplier will be allowed to work on the project.

SECTION 00620

SPECIAL PROVISIONS – Chip Seal and Slurry Seal

2019 Pavement Chip Seal Program – Year 1 (2019) Year 2 (2020) Year 3 (2021)

1. The City of Greeley, Colorado, "Design Criteria and Construction Specifications Manual" (DCCSM) latest edition, is made a part of these specifications.

The Colorado Department of Transportation (CDOT) Standard Specifications for Road and Bridge Construction, and the CDOT M&S Standards 2011 latest edition is made a part of these specifications.

The City of Greeley, Colorado, "Project Management Manual," latest edition is made a part of these specifications.

In case of conflict, documents will have the following priorities:

(1) Special Provisions, (2) General Conditions, (3) Plans, (4) City Street Design Criteria and Construction Specifications, (5) City Project Management Manual, (6) CDOT Specifications and Standards.

ALL CONSTRUCTION WILL MEET THE AMERICANS WITH DISABILITIES ACT (ADA) CONSTRUCTION SPECIFICATIONS (LATEST EDITION).

2. Contract Period: This Agreement shall commence when this contract is signed by the City, and shall continue in full force one (1) calendar year (2019) thereafter, unless sooner terminated as herein provided. In addition, at the option of the City, the agreement may be extended for two (2) additional one-year periods (2020 and 2021). Pricing changes, if any, shall be negotiated by and agreed to by both parties.
3. Multi-term contracts: Specified period – Unless otherwise provided by law, a contract for supplies or services may be entered into for any period of time deemed to be in the best interests of the City, provided that the term of the contract and conditions of renewal or extension, if any, are included in the solicitation and funds are available for the first fiscal periods shall be subject to the availability and appropriation of funds thereof. Contract specifications will be mutually agreed upon; by both parties if any changes take place in the succeeding contract periods. City will use Front Range Cost Adjustment.
4. Cancellation due to unavailability of funds in succeeding fiscal periods: When funds are not appropriated or otherwise made available to support continuation of performance in a subsequent fiscal period, the contract may be canceled.
5. The City/Town/School/University will not be responsible for any construction downtime due to failure on the Contractor's part to notify utility companies of conflicts.

The Contractor, prior to commencement of work, will be required to obtain a City permit for construction/maintenance work:

391.607.6 S.Y. Any Surface Treatment less than 1 ½"

The fee for this permit for the City of Greeley only will be waived due to Food Tax funding.

6. The date for the pre-construction meeting will be announced after the bids are opened and the contract has been awarded. The Contractor will be expected to present the City with the following items at the pre-construction meeting:
 - (a) Bar Graph Construction Schedule.
 - (b) Approved Traffic Control Plan and Traffic Control Supervisor.
 - (i) For Chip Seal Operations.
 - (c) Material Supplier's List - (see attached form).
 - (d) Subcontractor's List - (see attached form).
 - (e) Material Cut Sheet/C.O.C.'s.

7. A daily charge will be made against the Contractor for each calendar day that any work shall remain uncompleted after elapse of contract time. This daily charge will be deducted from any money due the Contractor. This deduction will not be considered a penalty, but as liquidated damages. (See Scope) The daily charge is a minimum of \$1,000.

8. The Contractor, prior to commencement of work, will be required to obtain a City permit for construction/maintenance work:

a	_____ *	S.Y.	Asphalt Paving 1½" & greater.
b	_____ 391,607.6	S.Y.	Any Surface Treatment less than 1½"

* Quantity to be established based on unit price awarded.

9. The Contractor will comply with the requirements of Section 01010, Paragraph 1.3G, of the Street Construction Specifications (DCCSM). The Contractor will not do any construction work in the public right-of-way before receiving written approval of the Traffic Control Plan from the City. A Traffic Control Plan Review Form must be completed and returned to Scott Logan, Traffic Operations, 1300 A Street, Greeley, Colorado 80631, Phone 970-350-9555, Fax 970-336-4142. E – Mail – scott.logan@greeleygov.com A copy is attached at back of the Special Provisions.

The Contractor will appoint a Traffic Control Supervisor (TCS) to this project. The TCS will not be required to be on the site, but must be available twenty-four (24) hours a day. The name and phone number for the TCS will be provided to the City at the pre-construction meeting. The name, **Mobil, and Office** phone number for the TCS will be provided to the City at the pre-construction meeting. **Certifications of all TCSs and/or Flaggers (either CCA or ATTSA) will be submitted to the Traffic Department, Scott Logan, 1300 - A Street Traffic Operations, Greeley, Colorado 80631, before work starts and as new personnel is added. The Contractor will also provide the name and phone number of a local traffic control company that will act as an alternate in case the designated TCS cannot be reached.**

The Contractor will be notified in writing when the traffic control for any work site is not acceptable. The Contractor will not be allowed to continue work at that location until the problems are corrected. Failure to correct the traffic control deficiencies before continuance of the work will result in non-payment for the work done at the locations in question.

A Traffic Control Supervisor shall be designated at the pre-construction meeting. The Traffic Control Supervisor shall be able to address all concerns within sixty (60) minutes.

Traffic control is to be paid as part of the unit price per Square Yard for all Chip Seal Coat work, and will not be paid for separately. Specialty items for traffic control outside of the normal submittals will be paid for at additional cost if the City of Greeley requires the contractor to provide them.

10. No work shall be performed on **local streets before 7:00 A.M. or after 6:00 P.M. each workday, Monday through Friday**, unless otherwise approved by the City Project Representative. Costs incurred by the City to inspect the work performed outside these hours will be deducted from progress payments to the Contractor. Inspector overtime costs are approximately \$70/hour.
11. No work shall be performed on **arterial or collector streets before 8:30 A.M. or after 4:00 P.M.** each workday, Monday through Friday, unless otherwise approved by the City Project Representative.
12. There shall be no work allowed on Saturday and/or Sunday unless approved by the City Project Representative, 48 hours in advance, in writing. Work on Saturday or Sunday is subject to Inspector overtime cost.
13. At the completion of each workday, the Contractor shall clean up all construction materials and leave the construction site in a condition approved by the City Project Representative.
14. Waste material, which is deemed not reusable by the City Project Representative, shall be legally disposed of by the Contractor at his expense.
15. Intersections and driveways shall be closed only for a minimum amount of time. The Contractor shall coordinate driveway closures with property owners with final approval by City Project Representative.
16. Removal of any and all signs shall be coordinated with the City Project Representative.
17. The City of Greeley will supply the Contractor with portable information signs, which will be moved by the Contractor to the various construction sites as the work progresses. This shall be coordinated with the Project Representative. The signs shall be maintained in good condition.

At the completion of the project, the signs shall be cleaned and returned to the City Shops. Costs associated with this requirement shall be included in the unit price of the Chip Seal and Slurry Seal work and shall not be paid separately. Final payment will not be made until all signs are returned. (Cost of each sign is \$150.00.)
18. Section 00340 – Certificate of Insurance must be filled out as provided. Certificates of Insurance supplied by the insurance agencies may be supplied by attachment, but Section 00340 must still be completed and signed by each insurance agency.
19. EXPERIENCE – ALL BIDDERS SHALL FURNISH WITH THEIR BID A COMPLETE CLIENT LIST OF ALL PROJECTS COMPLETED OR IN PROGRESS FOR THE PAST TWO YEARS.

DESCRIPTION OF WORK:

SCOPE

This item shall consist of furnishing all labor, materials, and equipment necessary to complete in place the application of polymerized emulsified asphalt and cover coat of aggregate to those streets listed on the Location Schedule in the Special Provisions, also all streets listed in the Slurry Seal Special Provisions or as directed by the Project Representative. Parking Lots, Concrete Repair Programs, Water and Sewer Programs, Parks Programs in the City of Greeley. (Note: other agencies that may participate in this program may be subject to a one-time mobilization charge not greater than \$1,000. All other prices will remain the same.)

Construction for the 2019 Slurry Seal Program for selected contractor is June 10th through June 21st

Construction for the 2019 Chip Seal Program for selected contractor is July 15th to August 16th

(65th Ave / 20th Street to 13th Street Constructed September 2nd to September 15th, 2019)

Work sites presently include:

1. See attached List of Projects 2019 (Work Sites Page No. 26)
2. Additional worksites will be updated or added, as necessary, after initial contract work is completed. Previous years' work for the past five years have been:

Year	Final Contract Amount	Number of Locations
2018	\$989,842.78	95
2017	\$582,550.20	33
2016	\$573,396.65	46
2015	\$870,838.00	41
2014	\$542,174.00	31
2013	\$736,010.44	39

The following were the percentage break - downs of work that took place each calendar year prior to 2018

Chip Seal Slurry, SEAL COAT HISTORY PERCENTS

Year	2018	2017	2016	2015	2014	2013
Chip seal of Streets %	33.68%	80.09%	57.67%	95%	92.1%	98.92%
Slurry Seal%	65.32%	19.91%	40.54%	5%	0%	0%
Road Diets %	1%	0%	0.00%	3%	0%	0%
Sewer %	0%	0%	0.00%	4.5%	1.8%	0%
Parking Lot %	0%	0%	1.79%	0%	0.4%	0%

Please remember that the final contract amount depends on funds allocated for the work to take place.

NOTE: List and / or maps may be provided for locations.

RESPONSE TIME UPON NOTIFICATION

The Contractor notification is dates which the contractor is to complete work set by the City/Project Representative. The Contractor will respond to complete requested Chip Seal/Slurry Seal coating at various sites. Each location or locations will be agreed upon by the Project Manager and Contractors' Representative as to time needed to complete. The intent of notification is to provide the Contractor a sufficient amount of time to respond and complete the work. Notification can be by phone, followed by written, faxed, or e-mail notice. The City will use e-mail as primary notification to the Project Manager and his representatives. Contractor will respond in seven (7) calendar days from the date of notification to the requesting party (Project Manager) to perform required work for City of Greeley. Requested or required work as outlined in the Special Provisions and/or bid tabs. **See Failure to respond.**

Special Response – City of Greeley Parking Lots listed will require special coordination between Contractor and Project Representative. It is the intent that once Parking Lots are ready, the Project Representative will

notify the Contractor and he will schedule Slurry Seal coating to take place at each site between day six (6) and no later than day ten (10) after notification.

NOTE: Emergency Response

We intend to use e-mail notification and will require two email addresses for the contractor.

FAILURE TO RESPOND

Failure to complete the work at each site of notification, the contractor **will be charged \$100 per site, per day**, thereafter until patch is completed at each site or possible loss of contract.

Failures to respond to perform work within the required time frame (See Response Time Notification - other than Concrete Repair Programs) contractor will be charged \$100 per site, per day, until Seal Coating is completed at each site or possible loss of contract.

All work will be completed by forty-five days from Notice to Proceed, unless otherwise notified by the Project Representative. Upon failure to complete such work, the Contractor will be charged \$1,000 per day after the forty-five days, until all work is complete. Work added after the forty-five days, an adjustment will be made to the final completion date. A written notification will be sent to the Contractor regarding this. All tab sheets submitted will have a completion date attached.

DRAWINGS

There are no separate contract drawings for this project. A vicinity map of the locations to be chip sealed has been included with this document.

PROJECT SUPERINTENDENT

The Contractor's Project Superintendent designated at the pre-construction meeting shall be on the work site during all construction. If the Superintendent is unable to be on the job site, then a designee will be assigned with the authority to make all decisions. A copy of the Special Provisions shall be with the Project Superintendent/Design/or Crew Foreman at all times.

The City of Greeley requires an English speaking Superintendent/Project Manager on the job site at all times to ensure clear communication between City Staff and Contractor.

INFORMATION MANAGER

The Contractor shall designate an Information Manager at the pre-construction conference. He/she will be responsible for the handling of all requests for information or complaints concerning the contract. A local telephone number will be established two weeks prior to commencement of construction. The Information Manager will respond to all requests within four (4) hours. A log of all requests shall be kept and shall include name, telephone number, address, nature of request, and action taken and given to Project Representative every two weeks.

SCHEDULES

The Contractor will provide an overall schedule for the construction project at pre-construction meetings. This will be in a Bar Chart or acceptable method by the City. Schedule will include daily locations listed for entire week, for the entire project. Schedule changes will be provided each Wednesday by 10:00 a.m. – noting any update and changes from the previous submitted schedules to the Project Representative.

MATERIALS – Chip Seal

A. Liquid Asphalt Material (Polymerized)

Polymerized asphalts shall consist of a rapid set cationic emulsified asphalt (CRS-2P, CRS-2R or its equivalent) and a polymerized material, non-foaming when heated to 185° F and capable of being fluxed with a suitable solvent. The Contractor, or the supplier as their agent, shall deliver to the Project Manager; a certification signed by an authorized representative of the supplier to cover the quality and quantity of material and the condition of the container for each shipment. The asphaltic materials shall meet the following specifications:

SPECIFICATIONS FOR CATIONIC EMULSIFIED ASPHALTS

TABLE NO.1

TYPE	RAPID SETTING	
GRADE:	CRS-2P (POLYMERIZED) (3% by weight of asphalt cement), CRS-2R (POLYMERIZED) (3% by weight of asphalt cement)	

TESTS ON EMULSIONS: AASHTO M208-87, ASTM D2397-79, T59, CP_L2212

	MINIMUM	MAXIMUM
Viscosity Saybolt Furol @ 122° F sec.	80 -100	450
Storage Stability Test @ 1 Day, %		1.0
Demulsibility (b) 35ml., 0.8% sodium diacetyl sulfosuccinate, %	40	
Particle Charge Test	Positive	
Sieve Test, %		0.1
Oil Distillate, by volume of emulsion		.5
Residue (c), %	70	

TEST ON RESIDUE OF OVEN EVAPORATION, 325° F: T49, T59, T44, CP-L2210,

Penetration, 77° F (25C), 100g. 5 sec.	60 - 70	150
Ductility, (25 C), 5 cm. per. min., cm.	100 - 125	
Ductility, (4 C), 5 cm. per. min., cm.	45	
Toughness, in-lb.	70 - 75	
Solubility in Trichloroethylene, %	97.5	
Softening Point, Ring and Ball, C	57	
Elastic Recovery 77° F, 20 cm., %	75 -80	
Tenacity in LB	45 - 75	

1. The test requirements for settlement may be waived when the emulsified asphalt is used in less than five (5) days' time; or the purchase may require that the settlement test be run from the time the sample is received until it is used, if the elapsed time is less than five (5) days.
2. The 24-hour (1-day) Storage Stability test may be used instead of the 5-day Settlement test.
3. The Demulsibility test shall be made within 30 days from the date of shipment.
4. Distillation shall be determined by AASHTO Test T59, oven evaporation method.

5. The asphalt cement shall be polymerized prior to emulsification. City prefers Latex Modified 3%.
6. The Contractor shall supply samples for testing upon request of the City.
7. The material shall be accepted at the distributor.

B. Cover Aggregate

The chip of cover aggregate shall be washed, hard, sound, broken stone, or crushed gravel free from dirt, organic matter, clay balls, and adherent films of clay, dust, or other objectionable matter. The aggregate shall contain at least 100% by weight of crushed pieces having two or more surfaces of faces produced by fracture. **Aggregate shall be gray in color.**

When tested in accordance with AASHTO T-182-70, the aggregate shall have a retained bituminous film above 95%. Aggregates, which do not meet this requirement, may be used for surface treatments and seal coats provided a satisfactory chemical additive or wetting agent is used to provide a water-resistant film.

The cover aggregate, when tested by the standard method of test for abrasion (AASHTO Method T96-70), shall show a loss of no more than 20%. **The moisture content of the cover aggregate at the time of application shall not exceed 2% and less than 1% of the weight of dry aggregate.** (See Table 2 next page)

The cover aggregate shall conform to the following gradation:

Table 2

<u>Sieve Size</u>	1/2 Inch Chip	3/8 Inch Chip	1/4 Inch Chip	3/8 Inch Blend Chip
5/8"	100	100	100	100
1/2"	90-100	100	100	100
3/8"	0-50	90-100	100	90-100
1/4"	0-10	0-50	90-100	40-60
No. 8	0-3	0-3	0-3	0-3
No. 200	0-2	0-2	0-2	0-2

NOTE: Recommended target value of Number 200 Sieve is 0 to 1%.

NOTE: All gradations are percentage by Weight Passing Square Mesh Sieves.

Optimum coverage shall be determined as follows:

Cover aggregate will be distributed over a measured square yard with the aggregate spreader until coverage appears to be slightly over or right at a layer one-rock thick. The aggregate will then be collected & weighed. This procedure will be repeated six times. Optimum coverage will then be the average weight of the six samples thus prepared. The Project Representative will at times test application rate of the cover aggregate.

The Contractor shall submit certification of the cover-coat material to the City Representative with bid for approval. The contractor shall supply samples as needed for testing upon request of the City Representative.

TARPING OF AGGREGATE MATERIAL

Colorado Legislature passed two laws as of August 6, 1998. The laws were added to subsections 42-4-1407, HB-1144, and HB-1001. All contractors will comply with this change while working in the City of Greeley.

CONSTRUCTION REQUIREMENTS:

A. QUANTITIES OF MATERIALS PER SQUARE YARD. The polymerized asphalt and aggregate cover material shall be applied at the following rates:

CRS-2P shall be applied between 0.30 to 0.42 net gallons per square yard. Targeted range is 0.40 for 1/2" chip. Targeted Range is 0.38 for 3/8" chip. Targeted Range is 0.32 for 1/4" chip. Aggregate cover shall be in the range of 22 to 28 lbs. per square yard. A 200 square yard test section (150' x 12') strip shall be placed to determine actual application rates of aggregates and emulsion. Note; all items used on this project may need certified weight tickets before use and after.

Table No. 3

Application Rate	1/2 Inch Chip	3/8 Inch Chip	1/4 Inch Chip	3/8" Blend Chip
CRS-2P: Gallons Per Square Yard	0.38 to 0.42	0.36 to 0.40	0.30 to 0.34	0.35 to 0.39
Aggregate	25 Pounds Minimum	23 Pounds Minimum	22 Pounds Minimum	23 Pounds Minimum
Fog Seal/Per Square Yard Min. Target Application is:	0.12 to .15 per SY .14 Per SY	0.13 to .15 per SY .14 Per SY	0.12 to .14 per SY .13 Per SY	0.12 to .14 per SY .13 Per SY

B. WEATHER LIMITATIONS.

Bituminous material shall not be applied on a wet surface, or when the air temperature is below 60° F, or the pavement temperature is below 70° F, unless otherwise specified, or when weather conditions would prevent the proper construction of the seal coat.

C. EQUIPMENT. The following equipment or its equivalent shall be required:

1. Bituminous distributor and equipment for heating bituminous material shall be designed, equipped, maintained, and operated so that bituminous material can be heated and an even temperature maintained. The distributor must be able to apply the material uniformly on variable widths of surface up to 20 feet at readily determined and controlled rates of 0.05 to 1.0 gallons per square yard. Distributors shall be self-powered and include computerized spray controls, a tachometer, pressure gauges, accurate volume measuring devices, calibrated tank, and a thermometer for measuring temperatures of the tank contents. Distributors shall be equipped with a power unit for the pump, and full circulation spray bars adjustable laterally and vertically. Pump screen shall be cleaned in the morning every day or when needed during the work day and observed by the Project Representative. Any leaking, especially at the pump, will not be allowed.

The Contractor shall take necessary precautionary measures to prevent diesel fuel or other cleaning solvents from contaminating bituminous material.

2. A rotary broom or other approved sweeping or blowing equipment meeting applicable U.S. Environmental Protection Agency Standards.
3. A minimum of three (3) rubber-tired rollers shall be on the project unless otherwise requested by the Project Manager. **(Note: Rollers not to exceed 10 MPH.)** The pneumatic tire rollers shall be self-propelled and the gross load adjustable to apply 200 to 350 pounds per inch of rolling width, as directed. Tire pressures or contact pressures may be specified for the pneumatic tire rollers. Tire pressures on each roller shall not vary more plus or minus than 2.0 psi. The wheels on the rollers shall be equipped with adjustable scrapers, which shall be used when necessary to clean the wheel surface. The rollers shall be maintained in good condition and be operated by experienced roller operators.
4. One self-propelled aggregate spreader of approved design minimum twelve (12) feet wide supported by at least four (4) wheels equipped with pneumatic tires on two (2) axles. The aggregate spreader shall be equipped with the means of applying the cover-coat material to the surface with computerized controls so that the required amount of material will be deposited uniformly over the full width of the bituminous material. A computer rate-controlled aggregate spreader shall be required.
5. All equipment used on the project work sites will have backup alarms, warning lights. All warning lights and vehicle lights will be kept clean and operational at all the times while on the work site.

PREPARATION OF EXISTING ROADWAY

All sweeping and cleaning of the street before Chip Seal applications will be the Contractor's responsibility. The surface shall be cleaned (**the full width to be treated**) immediately prior to application of the bituminous material. Dust and other material in depressions or other places not removed by mechanical sweepers shall be swept with hand brooms or removed by use of flushers. The Project Manager may require washing of the pavement when other methods of cleaning do not provide an acceptable surface. Bituminous material shall not be spread until the area to receive Chip Seal application has been cleaned by the Contractor to the satisfaction and approval of the Project Manager.

The Contractor shall be responsible for the removal of all vegetation from the surface to be sealed prior to any Chip Seal placement. The work shall be performed within two weeks of surfacing. The Contractor shall remove any dead or remaining vegetation before sweeping and applying the Chip Seal. Vegetation may be removed by cutting, burning, or a combination of both or by another method; when in the opinion of the Project Representative, such burning, or other method or methods causes no safety hazard or air pollution nuisance.

Manholes, valve boxes, and survey monuments, including concrete rings, shall be covered with roofing paper or other suitable material prior to the sealing. Coverings shall be removed and disposed of in a lawful manner immediately after the sealing is completed.

APPLICATION OF BITUMINOUS MATERIAL

Bituminous material shall be applied by means of a pressure distributor in a uniform, continuous spread over the section to be treated and within the temperature range of 125-185° F. The quantity of bituminous material to be used per square yard will be as specified. The distributor shall be moving forward at the proper application speed when the spray bar is opened. A strip of building paper, at least three (3) feet in width and with a length equal to that of the spray bar of the distributor plus one (1) foot shall be used at the beginning of each spread. If the cut-off is not positive, the use of paper may be required at the end of each spread. The paper shall be disposed of in a lawful manner. Any skipped areas or deficiencies shall be corrected. Junctions of spreads shall be carefully made to assure a smooth riding surface.

The length of spread of bituminous material shall not be in excess of that which trucks loaded with cover-coat material can immediately cover.

The spread of bituminous material shall not be more than four (4") inches wider than the width to be covered with aggregate from the spreading device, and shall not spread onto the concrete gutter pan. **Under no circumstances shall operations proceed in such a manner that the bituminous material be allowed to chill, set up, dry, or otherwise impair retention of the cover coat.** Application rate shall be sufficient to prevent streaked appearance in the final surface.

The distributor, when not spreading, shall be parked so that the spray bar or mechanism will not drip bituminous materials onto the surface of the street, gutters, or private property. During all applications, the surface of adjacent structures shall be protected in such a manner as to prevent their being spattered or marred. Any areas inaccessible to the distributor shall be sprayed by hand. The Contractor shall immediately clean all sidewalks, gutters, and other surfaces where spatter is excessive in the opinion of the Project Manager.

APPLICATION OF AGGREGATE COVER

Immediately following the application of bituminous material, aggregate cover material shall be spread in quantities shown in Section 3A Table of these specifications. This aggregate shall be kept moist at all times.

Spreading shall be accomplished in such a manner that the tires of the trucks or aggregate spreader at no time contact the uncovered newly applied bituminous material. After the aggregate has been spread upon the asphaltic emulsion, any piles, ridges, or uneven distribution shall be carefully removed to ensure against permanent ridges, bumps, or depressions in the completed surface.

Additional aggregate shall be spread in whatever quantities may be required to prevent picking up by the rollers or traffic, after which the surface shall be rolled.

If directed by the Project Manager, the cover material shall be moistened with water to eliminate or reduce the dust coating of the aggregate; however, excess dust will be a cause for rejection of the aggregate. Immediately after the cover coat is spread, any deficient areas shall be covered by additional material. Rolling shall begin with self-propelled, pneumatic-tire rollers. Rolling shall proceed in a longitudinal direction, beginning at the outer edges of application and working toward the center. Each pass shall overlap the previous pass by one-half of the width of the front wheel or roller. There will be a minimum of three (3) passes with each pneumatic-tire roller over the entire surface prior to moving ahead. One pass will be considered the number of trips to cover the entire surface from one side of the street to the other and for the length being worked. The first rolling of the aggregate shall be made before the asphalt emulsion breaks (roller shall complete the first rolling within approximately five (5) minutes of the emulsion spray application).

All rolling will be done using low gear and will not exceed 10 mph.

In no event shall traffic be allowed on the treated surface until all rolling has been completed. The aggregate shall not be applied in such a thickness as to cause blanketing. It is intended that the minimum chip embedment will be %70.

SWEEPING

After the application of the cover-coat material, the surface shall be lightly broomed or otherwise maintained as directed by the Project Manager for a period of not more than 24 hours. (Proper warning signs shall be in place at all times). Maintenance of the surface shall include the distribution of cover-coat material over the surface to absorb any free bituminous material and cover any area deficient in cover-coat material. In those areas requiring additional cover-coat material, the surface should be rolled with a rubber-tire roller to embed the aggregate in the

bituminous material. The maintenance shall be conducted so as not to displace imbedded material. At the proper time, as determined by the Project Manager, the Contractor shall remove all excess cover-coat material.

Sweepers: A minimum of two vacuum designed sweepers having only negative air pressure at the road surface capable of removing excess aggregate and debris material shall be used on this project. The body hoppers of the vacuum sweepers shall be a minimum capacity of ten cubic yards, and the negative air pressure at the intake shall be rated at forty-six inches of negative water pressure. Sweepers shall meet applicable U.S. Environmental Protection Agency Standards. No mechanical pick-up brooms will be allowed on the project. Reuse of excess aggregate, which is clean, may be stockpiled and reused in subsequent locations at the discretion of the Project Manager. The Project Manager may reject aggregate, which has been previously applied by visual observation of the stockpile. Sweeping will take place from 6 a.m. to 11 a.m. in the morning of the work week, Monday through Friday, unless approved for longer hours by the Project Manager. All streets swept shall be thoroughly cleaned with no loose material remaining. All cleaning shall be approved by the Project Manager prior to the application of the armor coat.

APPLICATION OF ARMOR COAT

Two days after the application of the Chip Seal, the Contractor shall sweep all excess aggregate from the roadway and adjacent areas and then apply a fog seal of diluted CRS-2P to all areas chip sealed under this contract. The CRS-2P emulsion shall be diluted to 60% percent emulsion with 40% percent water or approved equal by the project manager. COC'S will be supplied by the emulsion manufacture. The application rate shall vary between **0.12 to 0.15 gallons per square yard, as deemed necessary by the Project Manager. All appropriate requirements and restrictions of Section 5 shall apply for the application of the final fog seal. Target application rate 0.13 gallons per square yard. Speed of the applicator will not be greater than 450 feet per minute for Number 1 nozzle - Target speed will be 350 feet per minute and 400 feet per minute for Number 2 nozzle - Target speed will be 300 feet per minute.**

MANHOLES and VALVE BOXES

Manholes, valve boxes, and concrete rings on streets to be chip sealed shall be covered during the operation, and shall be cleaned when the work is completed. The covering shall be removed immediately after the street is chip sealed. The Contractor is responsible for locating all exposed manholes and valve boxes prior to chip sealing.

STORAGE SITES

The Contractor shall be responsible for obtaining sites for storage and material stockpiles. A list of sites shall be submitted to the Project Manager for approval at least ten (10) days prior to any use. The Contractor shall be responsible for the following:

1. The Contractor shall submit to the Project Manager written permission from the property owner.
2. Keeping stockpiles and equipment confined to the approved area.
3. Providing security for his material and equipment and for public safety at the site.
4. Keeping all access roads clean and in good condition.

Materials -Slurry Seal

SCOPE OF WORK

The bituminous slurry surface shall consist of properly proportioned and mixed mineral aggregate and filler, asphalt emulsion and water, spread evenly on the surface, as specified herein and as directed by the City Project Representative. The slurry, when cured, shall have a homogeneous appearance, fill all cracks, adhere firmly to the adjacent surface, and have friction resistance texture. Material to Be Used on Project Below

Slurry Material to Uses**Emulsion to Use**Type Three (#3) Material CQS1HL

(3% Latex Polymer)

Type Two (#2) Material CQS1H

(3% Latex Polymer)

The work to be performed in this contract includes traffic control, cleaning of streets to be slurry sealed, permanent pavement marking removal, application of slurry seal, and site cleanup.

Oil spots shall be cleaned and approved by Project Representative. Methods shall be submitted at pre-construction meeting. The Contractor shall supply all labor, equipment, and material necessary to complete the work in accordance with these specifications.

PROJECT SUPERINTENDENT

The Project Superintendent designated at the pre-construction meeting shall be on the work site during all construction. If the Superintendent is unable to be on the job site, then a designee will be assigned with the authority to make all required decisions.

The City requires an English speaking superintendent/project manager on the job site at all times to ensure clear communication between City Staff and Contractor.

SCHEDULES

Contractor shall provide at pre-construction meetings an overall schedule for the entire construction project. Schedule shall include daily locations listed for entire week, for entire project. Schedule changes shall be provided to the Project Representative each Wednesday by 10:00 a.m. update and changes shall be noted from previous schedules.

APPLICABLE SPECIFICATIONS

General:

The following agencies' specifications and test methods form a part of this guideline.

AASHTO – American Association of State Highway and Transportation Officials.

ASTM – American Society for Testing Materials.

ISSA – International Slurry Seal Association.

Aggregate and Mineral Filler:

AASHTO T-2	ASTM D-5	Sampling Aggregates
AASHTO T-27	ASTM C-132	Sieve Analysis of Aggregates
AASHTO T-11	ASTM C-117	Materials finer than No. 200 Sieve mineral aggregate
AASHTO T-176	ASTM D-2419	Sand Equivalent value for soils and finer aggregate
AASHTO T-19	ASTM C-29	Unit weight of aggregate
AASHTO T-96	ASTM C-131	Resistance to abrasion of small size coarse aggregate by use of the Los Angeles Test Method
AASHTO T-37	ASTM D-546	Sieve analysis of mineral filler
AASHTO T-104	ASTM C-88	Soundness of aggregates by use of sodium sulfate or magnesium sulfate

Emulsified Asphalt:

AASHTO T-40	ASTM D-140	Sampling Bituminous Materials
AASHTO T-59	ASTM D-244	Testing Emulsified Asphalt
AASHTO M-140	ASTM D-977	Specification for Emulsified Asphalt
AASHTO M-208	ASTM D-2397	Specification for Cationic Emulsion
	ASTM D-3910	Design, Testing and Construction for Slurry Seal

SLURRY SEAL TEST METHODS:

ISSA T-100	Test Method for Wet Track Abrasion of Slurry Seals, 6 Day Soak
ISSA T-106	Measurement of Slurry Seal Consistency
ISSA T-109	Test Method for Measurement of Excess Asphalt in Bituminous Mixtures by use of Loaded Wheel Tester and Sand Adhesion
ISSA T-111	Optimum Emulsion Content by Graphical Determination
ISSA T-113	Trial Mix Procedures for Slurry Seal Design
ISSA T-114	Wet Stripping Test for Cured Slurry Seal Mixes
ISSA T-115	Determination of Slurry Seal Compatibility
ISSA T-139	Test Method to Classify Emulsified Asphalt/Aggregate Mixture Systems by Modified Cohesion Tester Measurement of Set and Cure Characteristics
ISSA T-144	Classification of Bitumen-Aggregate compatibility by Schulze, Breur, and Ruck Procedures

MATERIALS

Asphalt Emulsion:

The emulsified asphalt shall be quick setting latex polymer modified and conformed to the requirements of the ASTM specification for type CQS-1HhL (3% Latex Polymer) Quick Setting Emulsified Asphalt. Slow setting emulsions will not be allowed. The minimum amount and type of polymer modifier shall be determined by the laboratory performing the mix design. Minimum 3% Latex Polymer to be added to the conventional slurry type 2 or 3, as specified in the bid tab.

CQS-1hL shall be an emulsified blend of asphalt, water, styrene-butadiene rubber (SBR) latex and emulsifiers. The emulsion shall be pumpable and suitable for use in slurry seal mixing and spreading equipment and suitable for application through a distributor truck. The emulsion shall contain a minimum of 3% by weight of styrene-butadiene rubber (SBR) polymer solids based on weight of residual asphalt. The polymer shall be added as SBR latex by high shearing mixing by co-milling or post milling.

Property	Min.	Max.	Test Method
Viscosity, Saybolt Furol, 77 Deg. F	20	50	ASTM D88
Storage stability test, 24-h, %A		1	ASTM D244(82 to 88)
Partial Charge Test		Positive	ASTM D244(28 to 33)
Sieve test, %A	0.1		ASTM D244 (58 to 63)
Distillation B; Residue, %	60		ASTM D@\$\$ (11 to 15)
Test on residue from oven evaporation test ASTM D244 (21 to 27)B			

Penetration 77F, 110g, 5s	40	90	ASTM D5
Ductility, 77F	40		ASTM D113
Solubility in trichloroethylene, %	97.5		ASTM D2042
Elastic recovery, 77F, 10cm, 1h, %	40		ASTM D6084

A-This test requirement or representative samples is waived if successful application of the material has been achieved in field.

B-distillation to 550F (d244 11 to 15) shall be the reference method for percent distillate and percent residue by evaporation and percent residue. Residue by evaporation at 325F (D244 21 to 27) shall be referenced method to obtain material for test on residue. Residue from distillation shall not be used for test on residue due to polymer degradation at 500F.

The minimum amount required will be based on the bitumen weight content and will be certified by the emulsion supplier. In general, a three percent (3%) polymer solids, based on weight, is considered minimum.

Aggregate:

The mineral aggregate used shall consist of natural or manufactured sand, stone, slag, crusher fines, and others, or a combination thereof and **shall be gray in color.** (Note: Alternate aggregates may be submitted.) The aggregate shall be 100% crushed smooth-textured sand of less than 1.25% water absorption and shall not exceed 50% of the total combined aggregate, Grading Type II and/or Type III.

The aggregate shall be clean and free from organic matter and other deleterious substances. The aggregate shall meet the following:

<u>TEST</u>		<u>QUALITY</u>	<u>SPECIFICATION</u>
<u>AASHTO</u>		<u>ASTM</u>	
T-176		D-2419 (Cleanness)	Sand Equivalent 65 min.
T-104	C-88	Soundness NA2 SO4 or 25% max. Using MGSO4	15% max. Using
T-96	C-131	Abrasion Wear (Hardness)	30% max.

Mineral fillers such as Portland cement, limestone dust, lime fly ash and others shall be considered as part of the blended aggregate, and shall be used in the minimum amount required and be manufactured in the project year. They shall meet the gradation requirements of AASHTO M-17 or ASTM D-242. Mineral fillers shall be used for one or more of the following reasons only:

1. To improve the gradation of the aggregate.
2. To control the time of break of the emulsion.
3. To provide improved stability and workability of the slurry.
4. To increase the durability of the cured slurry.

The total aggregate, including mineral filler, shall conform to the following gradations when tested by AASHTO T-17 or ASTM C-136:

PERCENT PASSING

<u>Sieve Size</u>	<u>Type II</u>	<u>Type III</u>	<u>Stockpile Tolerance</u>
3/8"	100	100	+ or - 4%
No. 4	90 - 100	70 - 90	+ or - 4%
No. 8	65 - 90	45 - 70	+ or - 4%
No. 16	45 - 70	28 - 50	+ or - 4%
No. 30	30 - 50	19 - 34	+ or - 4%
No. 50	18 - 30	12 - 25	+ or - 4%
No. 100	10 - 21	7 - 18	+ or - 4%
No. 200	5 - 15	5 - 15	+ or - 4%
Pure Asphalt required %			
Of Dry Aggregate		Type II	12% - 16%
		Type III	10% - 15%

(Actual value to be determined by mix procedure)

The job mix Target Gradation shall be within the gradation band for the desired type of material. After the Target Gradation, based on the job mix design, has been submitted, the percent passing each sieve shall not vary by more than the stockpile tolerance and still remain within the gradation band. The percent passing shall not go from the high to the low end of the range for any two consecutive screens.

The aggregate will be accepted at the job site stockpile or when loading the aggregate into the support units for delivery to the lay-down machine. The stockpile shall be accepted based on five gradation tests in accordance with (AASHTO T2 (ASTM D75)). If the average of the five tests is

Within the gradation tolerances, then the materials will be accepted. If the tests show the material to not meet the gradation tolerances, the Contractor will be given the choice to either remove the material from the job site or blend other aggregate with the stockpiled material to bring it into gradation tolerances. Materials used in the blending must meet the quality tests prior to blending and shall be blended in a manner to produce a consistent gradation. This may require a new mix design. Screening shall be required at the stockpile prior to delivery to the paving machine.

ENGINEERING

At least two weeks prior to commencement of work, the Contractor shall submit, at the Contractor's expense, a signed job mix design for current construction year covering the specific material to be used on the project.

This design shall be performed by a qualified independent laboratory. Once the materials are approved, no substitution will be permitted unless first tested and approved by the laboratory preparing the mix design.

Suggested laboratories are:

- | | |
|----------------|----------------|
| 1. Alpha Labs, | Xenia, Ohio |
| 2. Scan-Roads, | Waco, Texas |
| 3. Astec, | Sacramento, CA |
| 4. Eraon Inc. | Jackson, MS |

Other laboratories qualified in the slurry seal mix design and testing shall be approved by the City Project

Representative. All materials to be applied throughout the course of this project shall be in strict accordance with these specifications. If required by the City Project Representative, the Contractor shall provide documentation verifying the compliance with the mix design specifications.

Mix Design:

The qualified laboratory shall develop the job mix design and present certified test results for approval. Compatibility of the aggregate and emulsion shall be verified by the mix design. Once the materials are approved, no substitutions will be permitted, unless first tested and approved by the laboratory preparing the mix design. **Mix design shall be submitted two (2) weeks prior to the pre-construction meeting.**

SPECIFICATIONS:

The City Project Representative shall approve the design mix and all slurry seal materials and methods prior to use. The component materials shall be within the following limits:

Residual Asphalt	7.5% to 18% by dry weight of aggregate
Mineral Additive	0.5% to 3% by dry weight of aggregate
Additive	As required to provide the specific mixing and setting properties
Water	As required to produce proper mix consistency and cohesion. All water used in making slurry shall be potable and free of dissolved ingredients that may prove harmful. The effect of moisture content on the specific weight of the aggregate, and the moisture content of the aggregate being used, shall be taken into account in calibrating the machine to deliver asphalt in the correct proportion.
Laboratory Testing	Sources of all material shall be selected and identified prior to the pre-construction meeting. All materials shall be pre-tested by the Contractor at their expense in a qualified independent laboratory, as to their suitability for use in slurry seal and conformance with the project specifications.
Laboratory Report	The laboratory report will show the results of tests performed on the individual materials, comparing their values to those required by this specification. The report will provide the following information on the slurry seal mixture:

<u>Test Purpose</u>	<u>Method</u>	<u>Spec.</u>
Slurry Seal Consistency	ISSA T106	2-3 cm
Wet Stripping Test	ISSA T114	90-100% Coated Surface
Compatibility	ISSA T115	*Pass Excess Asphalt Loaded
Wheel	ISSA T109	50 gms/sq. ft. max.
Wet Track Abrasion	ISSA T102	75 gms/sq. ft. max. 6-day Soak
Cohesion Test	ISSA T139	12 kg/cm at 30 minutes & 20 kg/cm at 3hrs
Schulze-Breuer & Ruck Test	ISSA T144	9 grade points
(optional and may be minimum required)		
*	Mixing tests must pass at the maximum expected air temperature of 100 degrees F.	
**	Using job aggregate only.	

The laboratory shall further report the quantitative effects of moisture content on the unit weight of the aggregate (bulking effect). The laboratory report must clearly show the proportions of aggregate, mineral filler (min. & max.),

water (min. & max.), additive(s) (usage), and asphalt based on the dry aggregate weight.

A complete laboratory analysis and test report accompanied by abraded and un-abraded slurry seal samples (ISSA 100) shall be submitted by the Contractor before the job starts. The City Project Representative shall be allowed to observe all testing.

The City reserves the right to have an independent laboratory perform testing on materials and on the mix design for this project. This testing will be at the City expense. The Contractor shall supply material samples at no expense to the City of Greeley.

STOCKPILING OF AGGREGATE

Precautions shall be taken to ensure that stockpiles are carefully mixed just prior to use to ensure uniform distribution of the moisture, and that they do not become contaminated with over-sized seed rock, clay, silt or excessive amounts of moisture. The stockpile shall be kept in areas that drain readily. Segregation of the aggregate will not be permitted.

STORAGE

The Contractor shall provide suitable storage facilities for the asphalt emulsion, using containers equipped to prevent water from entering the emulsion. If necessary, suitable heat shall be provided to prevent freezing. All valves shall be locked or handles removed when the stockpile site is unoccupied.

TESTING & SAMPLING

Samples of materials and of the finished slurry / seal coat surface will be furnished by the Contractor as directed by the City Project Representative prior to and during progress of the work at no expense to the City. The Contractor will submit certificates of compliance with each shipment of material to be used upon the project. The City may contract with an independent testing lab to verify compliance with material specifications. Initial testing costs will be paid by the City, but costs of additional testing due to failure of material to meet specifications will be the responsibility of the Contractor. Test reports, such as gradations, oil content, certificates of compliance, etc., will be required from the Contractor as additional materials arrive on the project. Materials determined not to meet job specifications will not be paid for whether they are installed or not. The City Project Representative will perform testing as required during the project. Emulsion samples will be delivered with certificate of testing or compliance with each delivery.

EQUIPMENT

All equipment, tools and machines used in the performance of this work shall be maintained in satisfactory working condition at all times to ensure a high quality product. Descriptive information on the slurry mixing and applying equipment to be used shall be submitted for approval prior to the pre-construction meeting.

SLURRY MIXING EQUIPMENT

The slurry mixing machine shall be a **continuous flow mixing unit**, capable of delivering accurate pre-determined proportions of aggregate, water and asphalt emulsion to a revolving spiraled multi-blade mixer tank, and of discharging the thoroughly mixed product on a continuous basis. The aggregate shall be pre-wetted immediately prior to mixing with the emulsion. The mixing unit shall be capable of thoroughly blending all ingredients together without violent action. The mixing machine shall be equipped with suitable means of accurately metering each individual material being fed into the mixer. The units shall be equipped with approved devices so that the machine can be accurately calibrated and the quantities of materials used during any one period estimated.

The mixing machine shall be equipped with a water pressure system, and fog type spray bar adequate for completely fogging the surface with up to 0.55 gallons per square yard, immediately ahead of the spreading equipment. The machine shall be capable of mixing materials at pre-set proportions regardless of the speed of the machine engine and without changing machine settings.

PROPORTIONING DEVICES

Individual volume of weight controls for proportioning each material to be added to the mix; i.e., aggregate, emulsified asphalt, mineral and field control additives, and water shall be provided and properly marked. These proportioning devices are usually revolution counters or similar devices and are used in material calibration and determining the materials output at any time.

CALIBRATION

Each slurry mixing unit to be used in performance of the work shall be calibrated in the presence of the City/Town/School/ University Project Representative prior to construction.

Documentation shall be provided by the Contractor, which includes an individual calibration of each material at various settings, which can be related to the machine's metering device(s).

No machine will be allowed to work on the project until the calibration has been completed and/or accepted. Previous calibration documentation covering the exact materials to be used may be accepted provided they were made during the calendar year. Calibration of all units to be used on the project will be required in project year. Calibration shall be submitted two weeks prior to pre-construction meeting.

VERIFICATION

Test strips will be made by each machine after calibration and prior to construction. Samples of the slurry seal will be taken and verification made as to mix consistency and proportioning. Verification of rate of application will also be made. Upon failure of any of the tests, additional test strips, at no cost to the City, will be required until each unit is authorized to work. Any unit failing to pass the tests after the third trial will not be permitted to work on the project. Test strips must be accepted or rejected within 24 hours after application.

SLURRY SPREADING EQUIPMENT

The surfacing mixture shall be spread uniformly by means of a mechanical type spreader box attached to the mixer equipped with paddles to agitate and spread the materials throughout the box. A front seal shall be provided to ensure no loss of the mixture at the road contact point. The rear seal shall act as final strike off and shall be adjustable. The mixture shall be spread to fill cracks and minor surface irregularities and leave a uniform skid resistant application of material on the surface. The spreader box and rear strike off shall be so designed and operated that a uniform consistency is achieved to produce a free flow of material to the rear strike off. The longitudinal joint where two passes join shall be neat appearing, uniform and lapped. All excess material shall be removed from the job site prior to opening the road. The spreader box shall have suitable means provided to side shift the box to compensate for variations in pavement width, longitudinal alignment, and pavement geometry.

JOINTS

Longitudinal joint overlap shall not exceed six inches over the previously placed slurry unless approved by City/Town/ School/University Project Representative.

Only burlap overlap drags will be permitted. Other types of drags/strike offs will be permitted only with consent of the City Project Representative.

When burlap drags are used, they must be kept relatively clean, free of excessive build up, tears, and replaced a minimum of twice daily or at the discretion of the City Representative.

CLEANING EQUIPMENT

Pick-up type street sweepers shall be used to clean the pavement. Power blowers, air compressors, water flushing equipment and hand brooms may also be required to clean the surface and cracks prior to slurry seal being placed.

AUXILIARY EQUIPMENT

Suitable crack and surface cleaning equipment, traffic control equipment, hand tools, and any support equipment shall be provided as necessary to perform the work.

PREPARATION OF SURFACES

Immediately prior to applying the slurry, the Contractor shall be responsible for insuring that the surface is cleaned of all loose material, split spots, vegetation, and other objectionable material.

The City/Town/School/University Project Representative shall give final approval that the surface has been prepared properly. The Contractor must sterilize the pavements with an approved sterilizing agent if required and shall be included in the cost of the contract. Contractor must remove all weeds from all pavement surfaces and from the interface of the concrete curb and asphalt prior to the application of any slurry seal. Costs associated with these requirements shall be included in the unit price of the slurry seal work and shall not be paid for separately. Each City will perform concrete repair, patching, and crack sealing on the streets to be surfaced prior to the application of the slurry seal.

COMPOSITION AND RATE OF APPLICATION OF THE SLURRY MIX

The amount of asphalt emulsion to be blended with the aggregate shall be determined in the laboratory, subject to final adjustment in the field to allow for absorption by the existing surface. The amount of water added must be controlled accurately to ensure production of readily spreadable, yet completely stable slurry.

Proper water content shall be determined by an appropriate consistency test on freshly made slurry.

The slurry shall be a homogeneous mixture, sufficiently stable during the entire mixing/spreading period so that the emulsion does not break; and that there is no segregation of fines from the coarser aggregate and the liquid portion of the mix does not float to the surface. Total time of mixing, from introduction of emulsion to spreading shall be 2 minutes or less.

The weight of dry aggregate applied per unit area shall be determined by mix design(s) submitted and approved. Final calibration of dry aggregate will be used for quality control verification. The Contractor shall place a test strip of 100 square yards in the area designated by the City Project Representative. The test section shall be placed using the same equipment and methods to be used on the job. Slurry mixtures placed in test strips shall conform to design mix with minor variations to obtain crack filling, bond to pavement and desired skid resistance texture. In the event the materials do not meet the requirements for fluidity, non-segregation, or surface texture, a new job mix shall be formulated and tested. Work shall not proceed before approval of a design mix and acceptance following the placing of a test strip.

WEATHER LIMITATIONS

No slurry shall be applied:

1. When there is any danger that the finished product will freeze before it cures completely.
2. When the pavement or air temperature is 50 degrees F or below and falling.
3. In the period following a rain while puddles of water remain on the surface to be coated.
4. Slurries that cure by evaporation shall not be laid during periods of within four (4) hours. Slurries shall not be laid during periods of high humidity above 40%.

APPLICATION OF THE SLURRY SURFACES

General:

The surface shall be uniformly fogged with water directly preceding the spreader. The slurry mixtures shall be of the desired consistency as it leaves the mixer, and no additional elements shall be added. A sufficient amount of slurry shall be carried in all parts of the spreader at all times so that complete coverage is obtained. No lumping, balling, unmixed, or oversized aggregates shall be permitted. No segregation of the emulsion and aggregate fines from the coarse aggregate will be permitted. If the coarse aggregate settles to the bottom of the mix, the slurry will be removed from the pavement. No excessive breaking of the emulsion will be allowed in the spreader box. No longitudinal streaks caused by oversized aggregate or transverse rippling will be left in the finished pavement.

Hand Work:

Approved methods shall be agreed upon at pre-construction meeting for hand work. Lutes and squeegees shall be used to spread slurry in areas not accessible to the slurry mixer.

Care shall be exercised to leave a pleasing appearance. The use of building paper or an approved equal shall be required at beginning and ending points or as directed by the Project Representative.

Mix Stability:

The mixture shall possess sufficient stability so that premature breaking of the material in the spreader box or pug mill does not occur. The mixture shall be homogenous during and following mixing and spreading, it shall be free of excess water or emulsion and free of segregation of the emulsion and aggregate fines from the coarser aggregate.

LINES

Care shall be taken to ensure straight lines along curbs and shoulders. No runoff onto these areas will be permitted. Lines at intersections will be kept straight to provide a good looking appearance. Lines at intersections or beginning and ending points shall be kept straight to provide a good looking appearance.

FINISH

No streaks, such as those caused by oversized aggregate, will be left in the finished surface. No ripples or chatter marks will be allowed. If these conditions develop, the job will be stopped until the Contractor proves to the City Project Representative that the situation has been corrected.

After the lay-down work is completed and before final acceptance by the City Project Representative, spot application of slurry seal material may be required to correct any deficiencies; such as, streaking, scuff marks, tire tracks, gaps, etc. to improve the ride quality and overall appearance. Slurry seal material required to repair deficiencies due to unsatisfactory workmanship shall not be paid for but shall be placed entirely at the Contractor's expense.

CURING

Slurry treated areas shall be allowed to cure until the City Project Representative permits their opening to traffic. Cure time must be in 1-3 hours.

APPLICATION RATES - TOLERANCES

Application rates shall be as follows per street:

Type II Slurry	18 - 22 pounds per square yard
Type III Slurry	28 -30 pounds per square yard
Micro surfacing	30 - 34 pounds per square yard
Rut filling as determined in field.	

TARPING OF AGGREGATE MATERIAL

Colorado Legislature passed two laws on August 6, 1998. The laws were added to subsections 42-4-1407, HB-1144 and HB-1001. All contractors will comply with this change while working in the City of Greeley.

Manholes and Valves:

Manholes and valves including concrete ring on streets to be slurry sealed shall be clean when the work is completed. They shall be covered in a suitable manner prior to sealing, and the covering shall be removed immediately after the street is sealed. A method for covering manholes and water valves shall be approved by the Project Representative prior to construction.

Amount below Minimum:

<u>Application Rate Aggregate, Emulsion or Mineral Filler</u>	<u>Percent Reduction in Final Payment for Aggregate, Emulsion or Mineral Filler</u>
1-3%	10%
3-5%	15%
5-7%	20%
7-10%	to be negotiated
10+%	No Pay

The City will continually be checking quantities. The Contractor is encouraged to also check quantities to avoid the penalties as described above. Responsibility for ensuring proper spread rates and material proportions is solely the Contractors.

	<u>Variation Amount</u>	<u>Unit Price Reduction</u>
Application rate	5% - 10%	5%
	10% - 20%	10%
	20% +	20%

PAY ITEM**PAY UNIT**

- | | | |
|----|--|-------------|
| 1) | Slurry Seal using Type II
Asphalt paving aggregate | Square Yard |
| 2) | Slurry Seal using Type III
Asphalt paving aggregate | Square Yard |

LOCATION OF WORK

It is the intent of the attached list of streets to give the general location of the work to be performed under this contract. The final designation of locations will be verified after the contract has been awarded. The City reserves the right to alter quantities (both increase and decrease) from those shown on the plan and bidder's documents. Such alterations of quantities will not change the unit price of the accepted contract, except that if quantities are increased or decreased by more than 20 % of the total contract, then a mutually agreeable adjustment may be made.

TRAFFIC CONTROL

Traffic shall be directed through the project with signs, barricades, flag persons, or pilot cars when required, or as necessary, for the protection of the work and the safety of the public. Traffic control shall be accomplished in accordance with the Manual on Uniform Traffic Control Devices (MUTCD).

Chip Seal, Slurry Seal and Armor Coating traffic control shall conform to the MUTCD and adhered to at all times. It is the intent to provide a workable area for the contractor and also protect the traveling public during construction. The contractor will set a traffic control zone to maintain two-way traffic at all times and keep the traveling public from entering the work zone. This will require full lane closures with proper signage approved by the City of Greeley.

The Contractor shall be responsible for the placement of temporary raised pavement markers. All markers shall be placed at the direction of the Project Representative and shall be placed prior to the Chip Sealin-Slurry Seal operation. Temporary Reflective Raised Pavement Markers (Flexible Chip Seal Markers) at all 8" lane lines, turn lane tapers and curved markings, the tabs shall be placed at 10' intervals; on straight sections, with a 4" to 6" lane lines, the tabs shall be placed at 30' intervals. 50' from all intersections.

After the Chip Seal-Slurry Seal has been placed and prior to the Fog Sealing operation, the Contractor shall remove the paper over the reflective tab on every other tab placed. After the fog sealing, all adhesive tabs shall be exposed. The Contractor shall ensure that the temporary markings conform to the existing City striping plans.

Full-compliance, temporary markings shall be in place before removal of Traffic Control Devices from street.

Methods of masking and material to be used shall be approved by the City of Greeley Traffic Division and Street Infrastructure Management personnel, and will be discussed at the time of the pre-construction meeting. The Contractor shall make an inventory of all pavement markings, with a representative of the City of Greeley Traffic Division and Street Infrastructure Management Program, 14 days prior to the beginning of construction and this shall determine which markings are to be protected.

Where needed, "No Parking" signs shall be placed not less than 24 hours in advance of Seal Coat operations and

shall state “No Parking, 7:00 a.m. to 5:00 p.m.” The Contractor shall mark on the signs the correct date work is to take place. The Contractor shall furnish, place, and maintain all traffic control devices at their expense. The Contractor shall be responsible for all traffic control in the construction area.

The Contractor shall, for a period of seven (7) days, provide and maintain 4x4 warning signs at the beginning of chip sealed streets and at 1,500 foot intervals in both directions. The signs shall be lighted and warn drivers to slow down for loose gravel.

NO PARKING SIGNS

The Contractor will be required to notify residents and businesses along streets and possibly side streets where construction is to be performed. In addition, the use of portable **NO PARKING SIGNS** will be required to aid in removing cars parked in construction zones. These signs shall meet **MUTCD Standards, Section 2B.46 & 47**, governing regulatory signs. No Parking signs will be placed at 200 ft. intervals or minimum four per block on both sides of the streets in areas of construction. These signs will be placed on streets no sooner than 48 hours in advance of work taking place. These signs shall have the dates of construction, as well as the time of day the work will be performed. These dates and times may be added to the signs with a black erasable marker. If dates cannot be met due to scheduling or other problems, these dates and times will be changed on signs, or signs will be removed. The area on the sign, to be written on, shall be clean, with visible writing, so that all can clearly read the scheduled information.

NOTIFICATION

The Contractor is required to post, on all properties adjacent to construction, a notification pamphlet twenty-four hours prior to commencement of work. The pamphlets shall only be delivered between the hours of 8:00 A.M. and 6:00 P.M. When delivering the pamphlets, the Contractor shall make an effort to make personal contact with the resident or business to advise them what will be happening on their street. If there is a delay due to poor weather, equipment breakdowns, and/or other causes, the Contractor shall post on all properties a re-notification pamphlet, twenty-four hours prior to commencement of work. Notification pamphlets will be supplied by the City of Greeley to the Contractor at the pre-construction meeting. The Contractor is required to obtain a local telephone number prior to commencement of work and maintain this telephone number until completion of contract. This telephone number will be printed on all notification pamphlets and should match Information Manager’s number.

WARRANTY

The Contractor is responsible for providing the City/Town/ School/University with a TWO-YEAR warranty for all work provided under this contract. The beginning of the TWO-YEAR warranty period will begin with the issuance of the Certificate of Substantial Completion. There will be no additional cost to the City/Town/School/University for material, equipment, labor and/or traffic control for any warranty work performed by the Contractor. Warranty work will be completed in accordance with these contract specifications within 60 days of written notification by the City/Town/School/University.

FINAL PAYMENT

The City shall pay final payment to the Contractor within 45 days after substantial completion of the work unless otherwise stipulated in the Notice of Completion, and subject to statutory retention for unresolved claims. **All subcontractors and suppliers shall be notified prior to final payment to Contractor.**

LOCATION OF WORK

The intent of the attached list of streets is to give the general locations of the work to be performed under this contract. Final locations will be verified after the contract has been awarded. The City/Town/School/University reserves the right to alter quantities (both increase and decrease) from those shown on the bidder's documents. Such alterations of quantities will not change the unit prices of the accepted contract, except if quantities are increased or decreased by more than 20% of the total contract, then mutually agreeable.

LOAD RESTRICTIONS

Truckload restrictions will comply with Section 105.13, 105.14, and 105.15 of the Supplemental Specifications to the 1986 Standard Specifications for Road and Bridge Construction dated September 1991.

The Contractor will keep fully informed of and comply with all Federal, State, and local laws, ordinances, and regulations and all orders and decrees of bodies or tribunal having any jurisdiction or authority, which may affect the conduct of the work. The Contractor will supply the City with the axle load limits for the trucks he plans to use on this project.

TARPING OF AGGREGATE MATERIAL

Colorado Legislature passed two laws as of August 6, 1998. These were added to subsections 42-4-1407, HB-1144, and HB-1001. All contractors will comply with this change while working in the City of Greeley. **All trucks will be tarped while working in the City of Greeley.**

Railroad Insurance (If working in a railroad area).

The Contractor shall carry the following types and amounts of insurance:

A. CONTRACTOR'S PUBLIC LIABILITY AND PROPERTY DAMAGE LIABILITY INSURANCE.

The Contractor shall furnish evidence to the Department, with respect to the operations the Contractor performs, that the Contractor carries Contractor's Public Liability Insurance providing for a limit of not less than One Million Dollars (\$1,000,000) for all damages arising out of bodily injuries to or death of one person and subject to that limit for each person, a total limit of Two Million Dollars (\$2,000,000) for all damages arising out of bodily injuries to or death of two or more persons in any one occurrence; and Contractor's Property Damage Liability Insurance providing for a limit of not less than One Million Dollars (\$1,000,000.00) for all damages arising out of injury to or destruction of property in any one occurrence and subject to that limit per occurrence, a total (or aggregate) limit of Two Million Dollars (\$2,000,000) for all damages arising out of injury to or destruction of property during the policy period.

If any part of the work affecting railroad property or facilities is sublet, similar insurance shall be provided by or in behalf of the subcontractor(s) involved.

B. CONTRACTOR'S PROTECTIVE PUBLIC LIABILITY AND PROPERTY DAMAGE LIABILITY INSURANCE.

The Contractor shall furnish evidence to the Department, with respect to the operations performed for the Contractor by subcontractors, that the Contractor carried in its own behalf Contractor's Protective Public Liability Insurance providing for a limit of not less than One Million Dollars (\$1,000,000) for all damages

arising out of bodily injuries to or death of one person and subject to that limit for each person a total limit of Two Million Dollars (\$2,000,000) for all damages arising out of bodily injuries to or death of two or more persons in any one occurrence; and Contractor's Protective Property Damage Liability Insurance providing for a limit of not less than One Million Dollars (\$1,000,000) for all damages arising out of injury to or destruction of property in any one occurrence, and subject to that limit per occurrence, a total (or aggregate) limit of Two Million Dollars (\$2,000,000) for all damages arising out of injury to or destruction of property during the policy period.

C. RAILROAD'S PROTECTIVE LIABILITY AND PROPERTY DAMAGE INSURANCE.

In addition to the above, the Contractor shall furnish evidence to the Department, with respect to the operations the Contractor or any of its subcontractors perform, that the Contractor has provided for and in behalf of the Railroad Company, and each Railroad Company when more than one is involved, Railroad Protective Public Liability and Property Damage Insurance providing for a combined single limit of Two Million Dollars (\$2,000,000) per occurrence with an aggregate limit of Six Million Dollars (\$6,000,000) applying separately for each annual period for:

1. All damages arising out of bodily injuries to or death of one or more persons.
2. All damages arising out of injury to or destruction of property.

D. GENERAL.

Said policy or policies of insurance shall be deemed to comply with the requirements of this Special Provision if each of said policies contains a properly completed and executed "Railroad Protective Liability Form," reference copies of which are available from the Agreements Engineer of the Colorado Department of Transportation, 4201 East Arkansas Avenue, Denver, Colorado 80222.

Certificates of insurance required under A and B above, and policy or policies of Insurance required under C above, shall be furnished to the Department's Agreements Engineer for transmittal to the Railroad Company's Insurance Department.

The insurance herein before specified shall be carried until all work required to be performed under the terms of the Contract is satisfactorily completed as evidenced by the formal acceptance of the Department. The Railroad Company shall be furnished with the original of each policy carried in its behalf.

More information can be obtained at www.uprr.com.

The local contact for the UPRR is Manager of Track Maintenance, Chad Ohleheiser 402-547-1178, Kyle Nodgaard 402-501-3849, Greg Hinken of Cheyenne 307-778-3557 or John Gutierrez, at telephone number 303-964-4745.

MEASUREMENT and PAYMENT

Chip Seal shall be measured and paid for by the Square Yard of street surface properly sealed and accepted by the Project Manager. The area for payment will be the measured width of the street from lip-to-lip of gutters multiplied by the length of Seal Coat applied. It is the contractor's responsibility to check measurements 48 hours prior to beginning work on each street listed by the City to complete. The contractor will notify the Project Manager within 48 hours if there is a discrepancy in the measurements. Payment is Square Yards in place only. The Contractor shall furnish the Project Manager with weight tickets for cover-coat aggregate and gallons of CRS-2P actually used on the project. Such tickets shall serve as a check on the application rate. It shall be the Contractor's responsibility to notify the Project Manager prior to delivery of materials so that a representative may be present to collect delivery receipts. The unit price bid per square yard shall include the furnishing, storing, weighing, heating, hauling, distributing, rolling, and maintaining the bituminous and cover-coat materials, including all labor, equipment, tools, materials, and incidentals necessary to complete work in accordance with the plans and specifications, as directed by the Project Manager.

Quantities for bidding purposes were calculated using the following application rates:

CRS-2P
Cover Aggregate

See Target Ranges Page 7.
See Aggregate Table Page 7.

The range of acceptable aggregate and emulsion rates is shown in Section 3 of this specification. At the conclusion of the project, emulsion and aggregate tickets will be compared with the area of Chip Seal placed to determine the average coverage rates for the project. If the material delivery tickets indicate that the average application rates were below the minimum application rates, the final payment will be reduced as shown below:

Amount below Minimum

Percentage Reduction in Final

Application Rate Payment for Aggregate or Emulsion Aggregate or Emulsion

1-5%
5-10%
10%+

10%
20%
to be negotiate

The Contractor is solely responsible for ensuring proper spread rates.

List of Streets

YEAR - 2019	NO.	SECT. NO.	STREET	FROM	TO
3/8ths					
		Promise list 2019			
	1	720200	28th Ave	16th St	17th St.
	2	418000-418500	11th Ave Intersection Only	Intersection	11th Ave / H St.
	3	462000-459500	13th Ave	10th St.	13th St.
	4	413500-414000	11th Ave	16th St.	South of 20th St.
	5	469500-470000	13th St.	23rd Ave	15th Ave.
YEAR - 2019	NO.	SECT. NO.	STREET	FROM	TO
3/8ths					
		Promise list 2019			
	6	301500	6th Ave	18th St.	16th St.
	7	705500	26th St.	9th Ave Ct.	9th Ave
YEAR - 2019	NO.	SECT. NO.	STREET	FROM	TO
3/8ths					
		Pats list 2019			
	8	666500	23rd St. Rd.	11th Ave	10th Ave
	9	646500-647000	22nd St.	2nd Ave	6th Ave Tie Inn
	10	609000-609500-610000	20th St.	8th Ave	14th Ave Tie Inn
	11	269000-269500	4th St.	35th Ave	39th Ave
	12	468000-468500-469000	13th St.	23rd Ave	32nd Ave Tie Inn

	13	401100	10th St. Service Road	38th Ave Ct.	37th Ave Ct.
	14	385500-872500	52nd Ave Ct. / 9th St. Dr.	10th St.	54th Ave
	15	893000	59th Ave South & North Bound	10th St. South end Tie inn	4th St. North End Tie inn

	EX - A	602500	20th Street	300 Ft. West of C.L. 65th Ave	300 Ft. East of C.L. 65th Ave
	EX- B	PUD	65th Ave	20th Street Cross - Pan	25 Ft. South
	EX - C	899995	65th Ave	20th Street	13th Street
YEAR - 2019	NO.	SECT. NO.	STREET	FROM	TO
1/4 Inch					
		Pats list 2019			
	16	425000	11th St.	35th Ave	30th Ave Ct.
		Promise list 2019			
	17	429000	11th St	10th Ave	8th Ave

YEAR - 2019	NO.	SECT. NO.	STREET	FROM	TO
1/4 Inch					
	99 OVERLAY	5 Year List			
	18	731500-568000	29th Ave Pl/18th St	16th St.	30th Ave / 17th St. Rd.
YEAR - 2019	NO.	SECT. NO.	STREET	FROM	TO
Slurry					
		Promise list 2019			
	19	359000	8th St	8th Ave	7th Ave
		Pats list 2019			
	20	590500	19th St.	6th Ave	8th Ave
YEAR - 2019	NO.	SECT. NO.	STREET	FROM	TO
Slurry					
		Country Club Area			
	21	872000	52nd Ave Ct.	11th St. Rd.	13th St.
	22	867100	52nd Ave	11th St. Rd.	13th St.
	23	442000	12th St.	52nd Ave	51st Ave
	24	865000	51st Ave Ct.	12th St.	13th St.
	25	863000	51st Ave	11th St.	13th St.
	26	452500	12th St. Dr.	51st Ave	50th Ave
	27	871500	52nd Ave Ct.	13th St.	CDS S/W
	28	867100-474500	52nd Ave	13th St.	13th St. Rd. Tie Inn

	29	886000	56th Ave	13th St. Rd.	CDS S/W
	30	871000	52nd Ave Ct.	13th St. Rd.	14th St. Elbow West
	31	483100	14th St.	52nd Ave Ct.	51st Ave Ct.
	32	864950	51st Ave Ct.	13th St.	14th St. Elbow East
	33	867000	52nd Ave	13th St. Rd. / 52nd Ave	14th St.
	34	867000	52nd Ave	14th St.	15th St.
	35	862950	51st Ave	13th St.	14th St. Elbow West
	36	483000	14th St.	51st Ave	50th Ave Ct.
	37	856500	50th Ave Ct	13th St.	14th St. Elbow East
YEAR - 2019	NO.	SECT. NO.	STREET	FROM	TO
Slurry					
		Bittersweet	5 year list		
	38	484000	14TH ST	40TH AVE	CDS (W)
	39	496000	14TH ST RD	41ST AVE	40TH AVE
	40	424000 - 424500	11TH ST (W)	12TH ST (W)	CDS (S/W)
	41	443500	12th St. (W)	11th St (W)	38TH AVE
	42	467000	13th St. (W)	42nd Ave	41st Ave / 13th St.
YEAR - 2019	NO.	SECT. NO.	STREET	FROM	TO
Slurry					
		PARK VIEW SUB-DIVISION			
	43	967700	Aspen Ave	E 26th St.	E 24th St. Rd. East Elbow
	44	966300	Arbor Ave	E 25th St. Rd.	E 24th St. Rd.
	45	965700	Apple Ave	E 25th St. Rd.	E 24th St. Rd.
	46	965100	Alpine Ave	E 26th St.	E 24th St. Rd.
	47	699600	E 25th St. Rd.	Alpine Ave	Aspen Ave
	48	682600	E 24th St. Rd.	E 24th St. Rd. East Elbow	E 24th St. Rd. West Elbow
	49	965150	Alpine Ave	E 24th St. Rd.	E 24th St.
	50	967750	Aspen Ave	E 24th St. Rd.	E 24th St.
YEAR - 2019	NO.	SECT. NO.	STREET	FROM	TO
Slurry					
		Rangeview SUB-DIVISION			
	51	984600	Rangeview Rd.	35th Ave	Frontier Rd.
	52	976000	Frontier Rd.	Rangeview Rd.	North East Elbow

	53	976000	Frontier Rd. N. E. Elbow	Frontier Rd. East Side	Frontier Rd. North Side
	54	976000	Frontier Rd. North Side	North East Elbow	North West Elbow
	55	976000	Frontier Rd. N. W. Elbow	Frontier Rd. North Side	Frontier Rd. South Side
	56	976000	Frontier Rd. West Side	Frontier Rd. North West Elbow	Rangeview Rd.
	57	984600	Rangeview Rd.	Frontier Rd.	Rangeview Rd.
	58	986600	Wagon Trail Rd.	Homestead Rd.	Rangeview Rd.
	59	986400	Wagon Trail Pl.	Wagon Trail Rd.	CDS - S/E
	60	977800	Homestead Rd.	20th St.	Wagon Trail Rd.
YEAR - 2019	NO.	SECT. NO.	STREET	FROM	TO
Slurry					
		Rangeview SUB-DIVISION			
	61	977800	Homestead Rd.	Wagon Trail Rd.	Homestead Rd. Elbow North East
	62	977800	Homestead Rd.	Homestead Rd. Elbow North East	Homestead Rd. Elbow North West
YEAR - 2019	NO.	SECT. NO.	STREET	FROM	TO
Slurry					
		WEST POINT	5 year list		
	63	317500	6TH ST. RD. / 54th Ave Ct. Bubble	54TH AVE	BUBBLE (W)
	64	880500/338000	54th Ave Ct.	6th St. Rd.	7th St. Rd.
	65	338000	7TH ST RD	7th St. Rd. / 54th Ave Ct. Bubble	CDS (N/W)
	66	652200	7th St. Rd Bubble	7th St. Rd.	BUBBLE (S/E)
	67	836000	48TH AVE	4TH ST	CDS (N)
YEAR - 2019	NO.	SECT. NO.	STREET	FROM	TO
Slurry					
		Bittersweet	5 year list		
	68	507500	15TH ST	41ST AVE	CDS (W)
	69	791000	41ST AVE	15TH ST LN	15TH ST
	70	784000	39TH AVE	40TH AVE	13TH ST
	71	496500	14TH ST RD	38TH AVE	CDS (W)
	72	484500	14TH ST	39TH AVE	CDS (W)
	73	452000	12TH ST DR (W)	38TH AVE	CDS (W)
	74	495500	14TH ST RD	43RD AVE	CDS (E)
	75	804100	43RD AVE (1200 BLK)	43RD AVE	CDS (E)

YEAR - 2019	NO.	SECT. NO.	STREET	FROM	TO
Slurry					
		EAGLEVIEW AT PHEASANT RUN			
	76	828500	N. 46TH AVE CT.	A ST.	B Street Rd.
	77	829000	N. 46TH AVE CT.	B Street Rd.	Horse Shoe (North West)
	78	829500	N. 46TH AVE CT.	N. 46TH AVE CT.	HORSESHOE (W)
	79	827000	N. 46TH AVE	A ST.	B Street Rd.
	80	826000	N. 46TH AVE	A ST.	CDS (N)
	81	824000	N.45TH AVE CT.	A ST.	B Street Rd.
	82	824000	N.45TH AVE CT.	B Street Rd.	CDS (N)
	83	817500	N. 44TH AVE CT.	A ST.	B Street Rd.
	84	817500	N. 44TH AVE CT.	B Street Rd.	CDS (N)

	85	814000	N. 44TH AVE	A ST.	B Street Rd.
	86	814000	N. 44TH AVE	B Street Rd.	CDS (N)
	87	963800	A ST	N. 47TH AVE	N. 43RD AVE CT.
	88	822000	N. 45TH AVE	1ST ST.	A ST.
	89	968400	B ST. RD	N. 47TH AVE	N. 44TH AVE
	90	968600/968800	B ST.	N. 44TH AVE	N. 42ND AVE - Dead End

YEAR - 2019	NO.	SECT. NO.	STREET	FROM	TO
Slurry					
		Johnson Subdivision			
	91	2100815	40th Ave	4th Street	B Street
YEAR - 2019	NO.	SECT. NO.	STREET	FROM	TO
Slurry					
		Old Safeway Parking Lot			
	1A		Parking Lot	11th Ave	12th St.
		Repair work From Atmos			
YEAR - 2019	NO.	SECT. NO.	STREET	FROM	TO
1/4 Inch					
		Repair work From Atmos			
	2B	606000	20th St. North Side only	35th Ave	28th Ave
		Repair work From Roche			
YEAR - 2019	NO.	SECT. NO.	STREET	FROM	TO
1/4 Inch					
		Repair work From Roche			
	3C	603500	20th St. North Side only	670 Ft West from 47th Ave	50th Ave Entry
		Repair work From water Dept. Paul Tucker			
YEAR - 2019	NO.	SECT. NO.	STREET	FROM	TO
Slurry					
		Repair work From water Dept. Paul Tucker			
	4D	740500/567500	30th Ave Ct./ 18th St.	17th St.	31st Ave

TIME TO COMPLETE PROJECTS

CHIP SEAL SLURRY

The City of Greeley has listed below the following streets and time each street must be completed by. Failure to complete listed streets by the date listed will result as a daily charge to the contractor until work is completed.

OVER ALL CONTRACT

Contract Estimated Date: June 10th, 2019

Contract Estimated Completion Date: August 16th, 2019

Daily Penalty for failure to Complete by Date is \$ 1,500.00 Per Day.

INDIVIDUAL STREET COMPLETION OF LISTED STREETS BY DATE:

Streets to be completed by a set date in 2019 are listed below: August 16th 2019

School Areas	
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YEAR - 2019	NO.	SECT. NO.	STREET	FROM	TO
3/8ths					
		Promise list 2019			
	4	413500-414000	11th Ave	16th St.	South of 20th St.
	5	469500-470000	13th St.	23rd Ave	15th Ave.

YEAR - 2019	NO.	SECT. NO.	STREET	FROM	TO
3/8ths					
		Promise list 2019			
	6	301500	6th Ave	18th St.	16th St.

YEAR - 2019	NO.	SECT. NO.	STREET	FROM	TO
3/8ths					
		Pats list 2019			
	8	666500	23rd St. Rd.	11th Ave	10th Ave
	10	609000-609500-610000	20th St.	8th Ave	14th Ave Tie Inn
	11	269000-269500	4th St.	35th Ave	39th Ave
	12	468000-468500-469000	13th St.	23rd Ave	32nd Ave Tie Inn
	EX - A	602500	20th Street	300 Ft. West of C.L. 65th Ave	300 Ft. East of C.L. 65th Ave
	EX - B	PUD	65th Ave	20th Street Cross - Pan	25 Ft. South
	EX - C	899995	65th Ave	20th Street	13th Street

YEAR - 2019	NO.	SECT. NO.	STREET	FROM	TO
1/4 Inch					
		Promise list 2019			
	17	429000	11th St	10th Ave	8th Ave

YEAR - 2019	NO.	SECT. NO.	STREET	FROM	TO
Slurry					
		Pats list 2019			
	20	590500	19th St.	6th Ave	8th Ave

YEAR - 2019	NO.	SECT. NO.	STREET	FROM	TO
Slurry					
		Rangeview SUB-DIVISION			
	60	977800	Homestead Rd.	20th St.	Wagon Trail Rd.

YEAR - 2019	NO.	SECT. NO.	STREET	FROM	TO
Slurry					
		Rangeview SUB-DIVISION			
	61	977800	Homestead Rd.	Wagon Trail Rd.	Homestead Rd. Elbow North East
	62	977800	Homestead Rd.	Homestead Rd. Elbow North East	Homestead Rd. Elbow North West

		Repair work From Atmos			
YEAR - 2019	NO.	SECT. NO.	STREET	FROM	TO
1/4 Inch					
		Repair work From Atmos			
	2B	606000	20th St. North Side only	35th Ave	28th Ave

		Repair work From Roche			
YEAR - 2019	NO.	SECT. NO.	STREET	FROM	TO
1/4 Inch					
		Repair work From Roche			
	3C	603500	20th St. North Side only	670 Ft West from 47th Ave	50th Ave Entry

Daily Penalty for Failure to complete by date is \$1500.00 Per Day.

When additional work is added or deleted to the contract the completion date will be adjusted based on the contractor's performance and schedule. This will be mutually agreed upon.

Remaining Streets must be completed by August 3rd 2018

Schedules

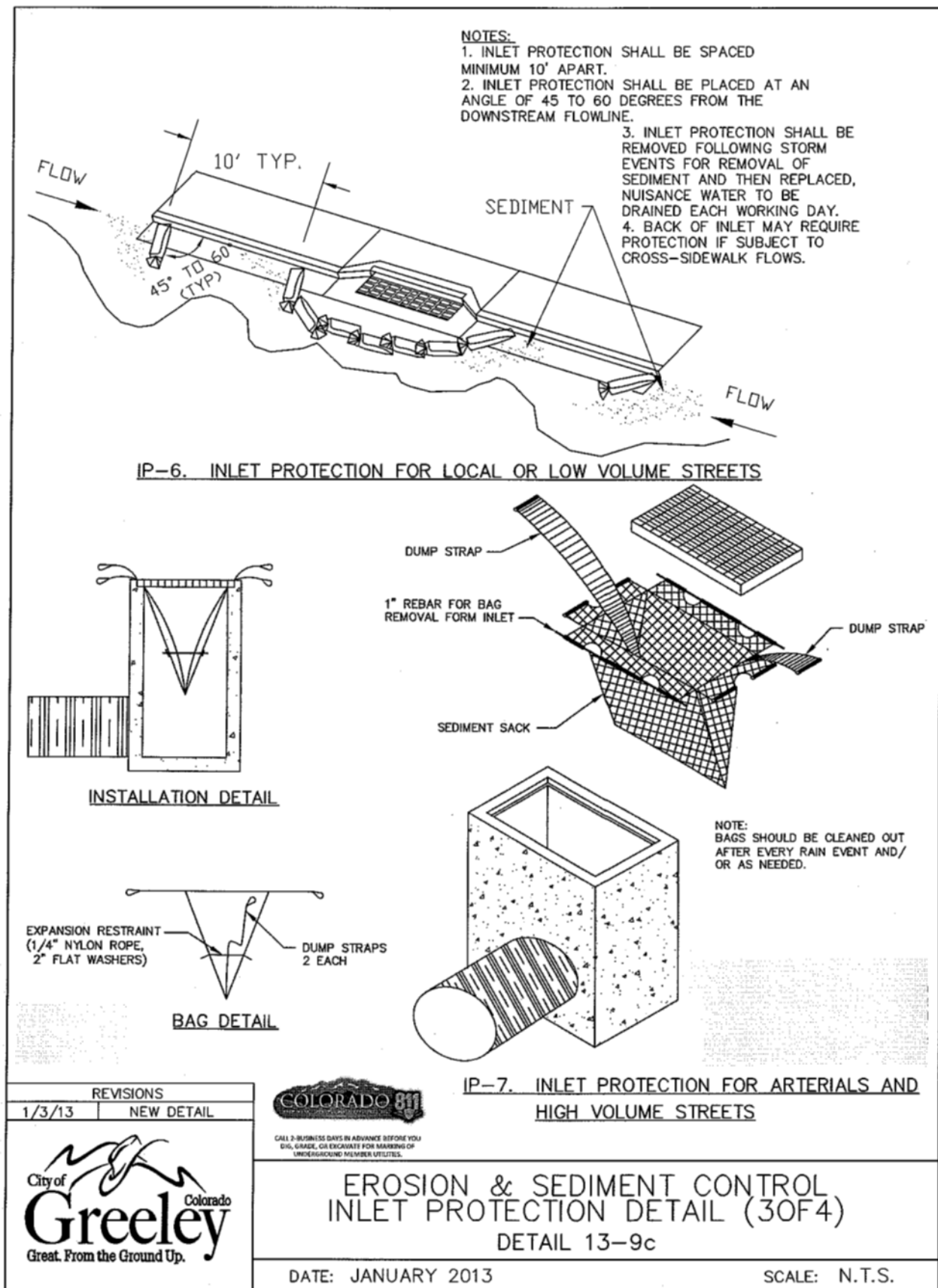
Project schedules will be in MS Project or approved equal.

Schedule of Information

Complete Schedule information for each location will include number and name of street including from and to, individual task such as traffic control, Flyers distributed, covering utility's (Man holes and water valve boxes & concrete collars), with clean up schedule, sweeping, and armor coating.

A rough schedule provided with bid showing each street and when the crew plans to work on the street. Selected contractor will submit a schedule with estimated construction dates for the month of July, based on the start date of July 9th, 2018 Start date and a completion date for each roadway.

The Chip seal slurry contractor will provide a full complete schedule for all work, at the preconstruction meeting (See Schedule information above.)



STREET, CURB, AND GUTTER REPLACEMENT AND CONSTRUCTION

Activities involving the replacement and construction of streets, curbs, and gutters have the potential to impact storm water quality. Materials involved in these activities should be used efficiently and disposed of properly.

- ☐ Applicable sediment and erosion controls should be installed; such as: inlet protection, silt fence, sediment traps, erosion control logs, check dams, and vehicle tracking control. Sediment and erosion controls will be installed and maintained in accordance with approved design criteria and/or industry standards.
- ☐ **When saw cutting, ensure that no slurry enters the storm drain.**
 - ☐ **Block gutters**
 - To contain slurry and minimize the containment area.
 - Protect inlets and pool water away from the drains.
 - ☐ **Minimize Slurry Movement**
 - Confine slurry and sediment from saw cutting to immediate work area by using temporary berms, sand bags, or diversion structures.
 - Minimize the tracking of slurry from the job site by cars and pedestrians.
 - ☐ **Remove Slurry**
 - Sweep or vacuum slurry and properly dispose of the sweepings or vacuum while saw cutting.
- ☐ Monitor construction equipment for leaks and use drip pans as necessary.
- ☐ Leaking material containers should be properly discarded and replaced.
- ☐ Store materials in containers under cover when not in use and away from any storm drain inlet.
- ☐ Wash out mixers, delivery trucks, or other equipment in the designated concrete washout area only.
- ☐ **Material stockpiles will not be stored in or near storm water flow lines. Temporary sediment controls will be used during temporary, short-term placement while work is actively occurring.**
- ☐ **Sweep or vacuum the roadway as needed, during construction and once construction is complete.**
- ☐ **Best management practices will be periodically inspected and maintained as necessary.**
- ☐ **Where practicable, non-structural controls will be used, such as phased construction, dust control, good housekeeping practices, and spill prevention and response.**
- ☐ **Absorbent material should be kept on job site.**
- ☐ **Concrete Work**
 - ☐ **Minimize the drift of chemical cure on windy days by using the curing compound sparingly and applying it as close to the concrete surface as possible.**
 - ☐ **Ensure that there is a concrete truck washout area available or require the contractor to wash out at the batch plant.**
- ☐ **Asphalt Work**
 - ☐ **Control the placement of road base or asphalt used in embankments or shoulder backing; do not allow these materials to fall into any storm drain or watercourse.**
 - ☐ **Whenever possible, recycle unused asphalt.**
- ☐ **Traffic Control Devices such as cones may be needed to guard inlet protection devices during certain traffic set-up and flows.**

1 - A POLICY

The use of alcohol, controlled substances, or other drugs including prescription and non-prescription

medications that result in job impairment is prohibited. Illegal possession, manufacture, use, sale or transfer of a controlled substance on department property at any time is prohibited. Employees and volunteers impaired by alcohol, controlled substances, or other drugs including prescription and non-prescription medications during work hours may pose safety and health risks. Therefore, to ensure a safe working environment, it is the department's intent to comply with each of the provisions of the Drug-Free Workplace Acts of 1988 and 1998. Employees and volunteers are required to report to work and while at work will remain unimpaired by alcohol, controlled substances, or other drugs including prescription and non-prescription medications. The use of any illegal drug covered under the Federal Controlled Substances Act U.S.C. Title 21 Section 812 is prohibited. The use of marijuana for any purpose, including medical, is also prohibited. Any illegal substance, drug, including illegal synthetics, or drug paraphernalia is prohibited on CDPS property. Marijuana and marijuana paraphernalia is prohibited on CDPS property. Violations of this policy may be cause for intervention that may result in referral to mandatory treatment and/or corrective or disciplinary action up to and including termination.

Reasonable Suspicion Drug and Alcohol Testing

Reasonable suspicion testing is designed to provide management with a tool to identify employees who may use alcohol, controlled substances, or other drugs, including prescription and non-prescription medications that result in impairment on the job. A supervisor, manager or substance abuse coordinator may determine that reasonable suspicion exists to suggest that an employee or volunteer is impaired on the job or using prohibited substances. In making a determination of reasonable suspicion, the factors to be considered include but are not limited to the following:

- Personal observation of specific, current and articulable observations based on the behavior, odor, appearance and speech (BOAS), behavioral indicators of drug and/or alcohol use, physical withdrawal symptoms and may include potential job performance issues;
- Occurrence of a serious or potentially serious work-related accident that may have been caused by human error or flagrant violations of safety, security or other operating procedures;
- Evidence of prohibited substance use, including, but not limited to, possession, sale, delivery and/or possession of drug paraphernalia;
- Fighting (physical contact) and assaults, or erratic, aggressive or violent behavior;
- Arrest or conviction for a drug-related offense, or the identification of an employee as the focus of a criminal investigation into illegal drug use or trafficking;

☐ ☐ Past admissions or statements made by the employee;

- Information provided by a reliable and credible source.

When a supervisor, manager or substance abuse coordinator has determined that reasonable suspicion testing is appropriate, he/she will:

- Document all applicable information on the Reasonable Suspicion Checklist;
- Obtain approval for testing from the Appointing Authority/Designee;
- Arrange for the employee to be placed on Administrative Leave pending test results;
- Meet with the employee to discuss the incident and observations;
- Allow the employee an opportunity to explain the circumstances surrounding the incident, observed behaviors, speech, appearance and body odors;

- Inform the employee of the reasonable suspicion testing process;
- Transport or arrange for transport of the employee to the appropriate collection site for testing;
- Remain with the employee until the completion of the testing; and,
- Make arrangements for the employee to be transported home.

All drug test results will be reported to AA/Designee and Human Resources.

POLICY PROVISIONS

2 - A Prohibitions on Possession, Consumption and Impairment

The City Of Greeley prohibits:

- The unlawful manufacture, distribution, dispensation, possession, or use of illicit drugs (including marijuana and its derivatives) on property owned or controlled by the City Of Greeley, or as any part of any City of Greeley Construction Programs. The possession of a medical marijuana permit does not allow for the possession, use or storage of marijuana anywhere on City of Greeley Projects, including all of City of Greeley Streets & Parks & Facilities. Medical and recreational marijuana use, possession, and distribution is also a violation of City of Greeley Policy.
- Possession, sale or use of drug paraphernalia on City of Greeley property including but not limited to equipment, products, and materials that have been used or are intended to be used to cultivate, manufacture, distribute, or consume illicit drugs.
- The possession and/or consumption of alcoholic beverages by persons under the age of twenty-one and the intentional or knowing selling or furnishing of alcoholic beverages to persons under the age of twenty-one, or to persons obviously inebriated, on property owned or controlled by the City Of Greeley or as part of any Construction Project.
- The possession, sale, distribution, promotion, or consumption of alcoholic beverages or illicit drugs in a manner that constitutes a violation of federal, state or local law, including the sale, directly or indirectly, of any alcoholic beverages at a premise or by an entity not licensed for such sales on property owned or controlled by the City Of Greeley or as part of any Construction Project.
- The possession or consumption of or impairment by alcohol or drugs while in a City Of Greeley Work Zone Area, mechanical shop, or other place where the risks of injury are higher than under normal circumstances because of the presence of machinery or hazardous substances or conditions.
- The possession or consumption of or impairment by alcohol or drugs when involved in a City of Greeley Construction Project.
- The use of alcoholic beverages, controlled substances or illicit drugs by Contractors or Sub Contractors and employees so as to adversely affect academic or job performance or endanger the physical well-being of other persons or oneself, or which leads to damage of property or serious misconduct.
- Impairment by alcohol or drugs while performing one's job duties or acting as a Contractor for the City Of Greeley. Will be escorted off of the project by the Contractor head superintendent or the proper police authorities, this is to refrain the impaired person from performing one's job duties while impaired.
- The possession or consumption of or impairment by alcohol or drugs when interacting with the public while working on the City of Greeley's Project or construction site.

1001 9TH AVE GREELEY, CO. 80631

Office – (970) – 336-4091

Cellular – (970) – 539- 6213

Fax – (970) – 336-4142

Fax or return to the Transportation Services Division Office for Review.

BY SIGNING THIS DOCUMENT YOU WILL ASSUME ALL RESPONSIBILITY FOR SETTING UP THE TEMPORARY TRAFFIC CONTROL WORK ZONE BY MEETING OR EXCEEDING SET STANDARDS AND FOLLOWING THE M.U.T.C.D. MANUAL REQUIREMENTS, ALONG WITH THE STATE, FEDERAL, AND CITY OF GREELEY SPECIFICATIONS AND REGULATIONS.

I have been offered a copy of this form and I have been advised to read it carefully.

Full Road Closures with complete Detour Routes will require a five (5) working day advance notice to have Method of Handling Traffic Plans reviewed. A 72 hour notice is strongly recommended prior to construction. This form and the (MHT) Plan SHALL are on the job site at all times.

In consideration of the acceptance of my entry, I do hereby acknowledge that I assume all risks and liability resulting from work performed. That I have acquired all permits, licenses, and fees required by the City of Greeley, and submitted a Method of Handling Traffic Control (MHT) along with this form.

I acknowledge that I have carefully read this "Temporary Traffic Control Review Form" and fully understand that I am (trained and/or certified) about the fundamental principles of TTC and responsible for the proper temporary traffic control setup and maintenance thru-out the duration ON the jobsite.

Print Name _____ Signature _____ Date _____

Description of Work: _____ City Permit No. _____

Project Location and/or Street Address: _____

Does job require: (Please Circle Appropriate One(s)) ROAD CLOSURE LANE CLOSURE SHOULDER CLOSURE SIDEWALK CLOSURE

OTHER _____

Work Schedule: Start Date _____ Finish Date _____ Requested Time(s) from: _____ am/pm to _____ am/pm

CONTRACTOR / SUBCONTRACTOR / CITY DEPT. PERFORMING WORK

TRAFFIC CONTROL COMPANY USED

Company Name _____

Company Name _____

Address _____

Address _____

City _____ State _____ Zip _____

City _____ State _____ Zip _____

Office Phone _____

Office Phone _____

Mobile Phone _____

Mobile Phone _____

Fax _____

Fax _____

Work Site Contact: _____

Work Site Contact: _____

Temporary Traffic Control Supervisor (TCS) Responsible for Job Site:

Temporary Traffic Control Supervisor (TCS) Responsible for Job Site:

TCS Contact Name _____

TCS Contact Name _____

PLEASE CHECK APPROPRIATE BOX(S)

- ☐ PRIVATE JOB ☐ CIP ☐ CITY MAINTANCE ☐ OTHER ☐ TRAFFIC CONTROL CO. DOING TRAFFIC CONTROL SETUP
☐ CONTRACTOR / CITY DEPT. SETTING UP OWN TRAFFIC CONTROL ☐ EQUIP. RENTAL ONLY FROM TRAFFIC CONTROL COMPANY

OFFICE USE

COMMENTS: _____

☐ MHT Accepted ☐ MHT Resubmitted For Extension Date(s) From _____ To _____
☐ MHT Denied REVIEWED BY: _____ Date: _____

