



ADDENDUM TO THE CONTRACT

for the

F STREET RECONSTRUCTION Contract No. BE17-215

ADDENDUM NO.: ONE

CURRENT DEADLINE FOR BIDS:
August 2, 2017

PREVIOUS ADDENDA: NONE

ISSUED BY: City and Borough of Juneau
ENGINEERING DEPARTMENT
155 South Seward Street
Juneau, Alaska 99801

DATE ADDENDUM ISSUED: July 26, 2017

The following items of the contract are modified as herein indicated. All other items remain the same. This addendum has been issued and is posted online. Please refer to the CBJ Engineering Contracts Division webpage at: <http://www.juneau.org/engineering ftp/contracts/Contracts.php>

PROJECT MANUAL:

- Item No. 1: SECTION 00005 – TABLE OF CONTENTS. **Delete** in its entirety, and **replace** with the attached SECTION 00005 – TABLE OF CONTENTS, labeled Addendum No. 1.
- Item No. 2: SECTION 00300 – BID. **Delete** in its entirety, and **replace** with the attached SECTION 00300 – BID, labeled Addendum No. 1.
- Item No. 3: SECTION 00310 – BID SCHEDULE. **Delete** in its entirety, and **replace** with the attached SECTION 00310 – BID SCHEDULE, labeled Addendum No. 1.
- Item No. 4: **Add** the attached SECTION 00370 – CONTRACTOR'S FINANCIAL RESPONSIBILITY, labeled Addendum No. 1.
- Item No. 5: SECTION 00800 – SUPPLEMENTARY GENERAL CONDITIONS, SGC 4.6 – USE OF THE CBJ LEMON CREEK GRAVEL PIT. **Delete** in its entirety, and **replace** with the the following:

SGC - 4.6 USE OF THE CBJ LEMON CREEK GRAVEL PIT. Add the following.

The CBJ Lemon Creek Gravel Pit is available for this Project.

SGC - 4.6 USE OF THE CBJ LEMON CREEK GRAVEL PIT.

Wherever the land use permits are referenced, **delete** and **replace with** the permit number USE2008-00061.

- **Delete** the last sentence of Paragraph A and **replace with** the following: "Contact Alec Venechuck, CBJ Material Source Manager, at (907) 586-0874 for the current material rates."
- **Delete** paragraph C., and **replace** with the following paragraph C.
 - C. CONTRACTORS that choose to extract material from the CBJ material source shall request an Individual Mining Plan prepared by CBJ Material Source Manager. CONTRACTORS shall also secure a Performance Bond to ensure compliance with contract provisions, including any Individual Mining Plan stipulations. The bond shall remain in full force and effect until a release is obtained from the CBJ. A \$10,000 cash processing restoration bond is required prior to screening or primary crushing operations.
- **Add** the following paragraphs:
 - J. Contractors choosing to mine material from CBJ material sources are also subject to the conditions contained in each site's Multi Sector General Permit for Stormwater Discharges associated with industrial activities (MSGP) and the Storm Water Pollution Prevention Plan (SWPPP).
 - K. Contractors choosing to perform screening or primary crushing shall comply with all requirements of Mine Safety and Health Administration (MSHA) Part 46, and must obtain a Contractor ID number (7000-52) from MSHA.

Item No. 6: SECTION 00500 – AGREEMENT. **Delete** in its entirety, and **replace** with the attached SECTION 00500 – AGREEMENT, labeled Addendum No. 1.

Item No. 7: SPECIAL PROVISIONS. **Delete** in its entirety, and **replace** with the attached SPECIAL PROVISIONS, labeled Addendum No. 1.

DRAWINGS:

Item No. 8: Sheet 7 of 9. **Delete** in its entirety, and **replace** with the attached Sheet 7A of 9.

Item No. 9: Sheet 9 of 9. **Add** the attached Headwall Detail, labeled Addendum No. 1.

By: 
Greg Smith,
Contract Administrator

Total number of pages contained within this Addendum: 40

SECTION 00005 - TABLE OF CONTENTS

DIVISION 0 - BIDDING AND CONTRACT REQUIREMENTS, CONTRACT FORMS, AND CONDITIONS OF THE CONTRACT

BIDDING and CONTRACT REQUIREMENTS No. of Pages

00005	Table of Contents	1
00030	Notice Inviting Bids	3
00100	Instructions to Bidders	9
00300	Bid	2
00310	Bid Schedule	2
00320	Bid Bond	1
00360	Subcontractor Report	2
00370	Contractor Financial Responsibility	3

CONTRACT FORMS

00500	Agreement	6
00610	Performance Bond	2
00620	Payment Bond	2

CONDITIONS OF THE CONTRACT

00700	General Conditions	47
00800	Supplementary General Conditions	6
00830	Alaska Labor Standards, Reporting, and Prevailing Wage Rate Determination.....	1
Special Provisions	22

LIST OF DRAWINGS

As listed on the Drawing Index.

END OF SECTION

SECTION 00300 - BID

BID TO: THE CITY AND BOROUGH OF JUNEAU

1. The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with the OWNER on the form included in the Contract Documents (as defined in Article 7 of Section 00500 - Agreement) to perform the WORK as specified or indicated in said Contract Documents entitled

F Street Reconstruction Contract No. E17-215

2. Bidder accepts all of the terms and conditions of the Contract Documents, including without limitation those in the "Notice Inviting Bids" and "Instructions to Bidders," dealing with the disposition of the Bid Security.
3. This Bid will remain open for the period stated in the "Notice Inviting Bids" unless otherwise required by law. Bidder will enter into an Agreement within the time and in the manner required in the "Notice Inviting Bids" and the "Instructions to Bidders," and will furnish insurance certificates, Payment Bond, Performance Bond, and any other documents as may be required by the Contract Documents.
4. Bidder has familiarized itself with the nature and extent of the Contract Documents, WORK, site, locality where the WORK is to be performed, the legal requirements (federal, state and local laws, ordinances, rules, and regulations), and the conditions affecting cost, progress or performance of the WORK and has made such independent investigations as Bidder deems necessary.
5. This Bid is genuine and not made in the interest of or on behalf of any undisclosed person, firm or corporation and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation; Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid; Bidder has not solicited or induced any person, firm or corporation to refrain from bidding; and Bidder has not sought by collusion to obtain for itself any advantage over any other Bidder or over OWNER.
6. To all the foregoing, and including all Bid Schedule and information required of Bidder contained in this Bid Form, said Bidder further agrees to complete the WORK required under the Contract Documents within the Contract Time stipulated in said Contract Documents, and to accept in full payment therefore the Contract Price based on the total bid price(s) named in the aforementioned Bid Schedule.
7. Bidder has examined copies of all the Contract Documents including the following Addenda (receipt of all of which is hereby acknowledged by the Undersigned):

Addenda No.	Date Issued	Addenda No.	Date Issued

Give number and date of each Addenda above. Failure to acknowledge receipt of all Addenda may cause the Bid to be non-responsive and may cause its rejection.

SECTION 00300 - BID

8. The Bidder has read this Bid and agrees to the conditions as stated herein by signing its signature in the space provided below.

Dated: _____	Bidder: _____ (Company Name)
Alaska CONTRACTOR's Business License No: _____	By: _____ (Signature)
Alaska CONTRACTOR's License No: _____	Printed Name: _____ Title: _____
Telephone No: _____	Address: _____ (Street or P.O. Box)
Fax No: _____	_____
E-mail: _____	(City, State, Zip)

9. TO BE CONSIDERED, ALL BIDDERS MUST COMPLETE AND INCLUDE THE FOLLOWING AT THE TIME OF THE DEADLINE FOR BIDS:

- Bid, Section 00300 (includes Addenda receipt statement)
- Completed Bid Schedule, Section 00310
- Bid Security (Bid Bond, Section 00320, or by a certified or cashier's check as stipulated in the Notice Inviting Bids, Section 00030)

10. The apparent low Bidder is required to complete and submit the following documents by 4:30 p.m. on the **fifth business day** following the date of the Posting Notice.

- Subcontractor Report, Section 00360
- Contractor Financial Responsibility, Section 00370

The apparent low Bidder who fails to submit the completed Subcontractor Report and Contractor Financial Responsibility, within the time specified in Sections 00360 – Subcontractor Report and 00370 – Contractor Financial Responsibility, may be found to be not a responsible Bidder and may be required to forfeit the Bid security. The OWNER may then consider the next lowest Bidder for award of the contract.

11. The successful Bidder will be required to submit, **within ten Days (calendar)** after the date of the “Notice of Intent to Award” letter, the following executed documents:

- Agreement Forms, Section 00500
- Performance Bond, Section 00610
- Payment Bond, Section 00620
- Certificates of Insurance, (CONTRACTOR) Section 00700 and Section 00800

END OF SECTION

SECTION 00310 - BID SCHEDULE

PAY ITEM NO.	PAY ITEM DESCRIPTION	PAY UNIT	APPROX. QUANTITY	UNIT PRICE		AMOUNT	
				DOLLARS	CENTS	DOLLARS	CENTS
1505.1	Mobilization	Lump Sum	All Req'd	Lump	Sum		
1570.1	Erosion and Sediment Control	Lump Sum	All Req'd	Lump	Sum		
2202.1	Excavation	CY	642				
2202.2	Shot Rock Borrow	CY	382				
2202.3	Mining Restoration and Road Cleaning Guarantee	Lump Sum	All Req'd	Lump	Sum		
2204.1	2-Inch Minus Shot Rock w/ Base Course	CY	242				
2401.1	Sanitary Sewer Pipe, 8-Inch PVC	LF	504				
2401.2	Sanitary Sewer Service Lateral, 6-Inch	Each	5				
2401.3	Locate Sewer Services	Lump Sum	All Req'd	Lump	Sum		
2402.1	Sanitary Sewer Manhole, Type 1	Each	2				
2501.1	6-Inch Pipe Culvert	LF	261				
2501.2	12-Inch Pipe Culvert	LF	138				
2501.3	18-Inch Pipe Culvert	LF	658				
2501.4	6" Underdrain	LF	50				
2501.5	CPP Saddle Tee	Each	7				
2502.1	Storm Drain Manhole, Type I	Each	4				
2502.2	Storm Drain Manhole, Type II	Each	1				
2502.3	Catch Basin, Type III	Each	4				
2601.1	10-Inch HDPE Water Pipe	LF	504				
2601.2	Connect to Existing Water Pipe	Each	5				
2601.3	Temporary Water System	Lump Sum	All Req'd				
2602.1	Replace Valve Box	Each	4				

COMPANY NAME _____

SECTION 00310 - BID SCHEDULE

PAY ITEM NO.	PAY ITEM DESCRIPTION	PAY UNIT	APPROX. QUANTITY	UNIT PRICE		AMOUNT	
				DOLLARS	CENTS	DOLLARS	CENTS
2603.1	Fire Hydrant Assembly with Access Pad	Each	1				
2605.1	1-Inch HDPE Water Service	Each	4				
2605.2	Locate Water Services	Lump Sum	All Req'd				
2702.1	Construction Surveying	Lump Sum	All Req'd				
2709.1	Topsoil	CY	25				
2709.2	Topsoil Finish Grading	Lump Sum	All Req'd	Lump	Sum		
2710.1	Seeding, Hydraulic Method, Type III	SU	5				
2716.1	Remove and Dispose of Existing Storm Drain System	Lump Sum	All Req'd	Lump	Sum		
2717.1	Abandon Existing Storm Drainage System	Lump Sum	All Req'd	Lump	Sum		
2801.1	A.C. Pavement, Type II-A, Class B	Ton	237				
2806.1	Remove Existing Asphalt Surfacing	SY	1,449				
3302.1	Concrete Headwall with Trashrack	Each	1				
3303.2	Curb and Gutter, Type I	LF	45				
3303.3	Valley Gutter	LF	874				
3304.1	Removal of Curb and Gutter	LF	45				
3304.2	Removal of Valley Gutter	LF	874				

TOTAL BID _____

COMPANY NAME: _____

SECTION 00370 - CONTRACTOR'S FINANCIAL RESPONSIBILITY

The apparent low Bidder must complete this form and submit *on the fifth business day* following the Posting Notice of Bids. If the fifth day falls on a weekend or holiday, the report is due by close of business on the next business Day following the weekend or holiday. Attach additional sheets as necessary to respond to questions.

PROJECT: Douglas Highway Water Main Replacement

As the General Contractor on this project, I intend to subcontract _____% of the total value of this contract.

A. EXPERIENCE

1. Have you ever failed to complete a contract due to insufficient resources?

☐ No ☐ Yes If YES, explain:

2. Describe arrangements you have made to finance this work:

3. Have you had previous construction contracts or subcontracts with the City and Borough of Juneau?

☐ Yes ☐ No

4. Describe your most recent or current contract, its completion date, and scope of work:

5. List below, and/or as an attachment to this questionnaire, other construction projects you have completed, dates of completion, scope of work, and total contract amount for each project completed in the past twelve months.

SECTION 00370 - CONTRACTOR'S FINANCIAL RESPONSIBILITY

6. Per Alaska Statute 36.90.210, on previous public contracts, have you ever failed to pay a subcontractor within eight working days after receiving payment from the Owner (for projects occurring within the last 3 years)?

☐ Yes ☐ No If yes, please attach a detailed explanation for each occurrence.

B. EQUIPMENT

1. Describe below, and/or as an attachment, the equipment you have available and intend to use for this project.

ITEM	QUANTITY	MAKE	MODEL	SIZE/CAPACITY	PRESENT MARKET VALUE

2. Do you propose to purchase any equipment for use on this project not listed on table B-1?

☐ No ☐ Yes If YES, describe type, quantity, and approximate cost:

3. Do you propose to rent any equipment for this work not listed on table B-1?

☐ No ☐ Yes If YES, describe type and quantity:

SECTION 00370 - CONTRACTOR'S FINANCIAL RESPONSIBILITY

4. Is your bid based on firm offers for all materials necessary for this project?

☐ Yes ☐ No If NO, please explain:

I hereby certify that the above statements are true and complete.

Contractor Signature

Name and Title of Person Signing

Signature

Date

SECTION 00500 - AGREEMENT

THIS AGREEMENT is between THE CITY AND BOROUGH OF JUNEAU (hereinafter called OWNER) and _____ (hereinafter called CONTRACTOR) OWNER and CONTRACTOR, in consideration of the mutual covenants hereinafter set forth, agree as follows:

ARTICLE 1. WORK.

CONTRACTOR shall complete the WORK as specified or as indicated under the Bid Schedule of the OWNER's Bid Documents entitled **Contract No. E17-215, named F Street Reconstruction.**

The WORK is generally described as follows: This Project consists of reconstruction of F Street in Douglas between 3rd Street and 5th Street, the replacement of the Storm Drainage system, Sanitary Sewer System and Water System, replacement of 18 inches of Roadway embankment, valley gutter new asphalt pavement and miscellaneous related WORK.

The WORK to be paid under this contract shall include the following: Total Bid as shown in Section 00310 - Bid Schedule.

ARTICLE 2. CONTRACT COMPLETION TIME.

If the CONTRACTOR chooses to perform the WORK in 2017, all WORK shall be completed by October 20, 2017. If the CONTRACTOR chooses to perform the WORK in 2018, all WORK shall be completed by June 9, 2018, or sixty days from the commencement of the WORK, or whichever date is earlier.

ARTICLE 3. DATE OF AGREEMENT

The date of this Agreement will be the date of the last signature on page three of this section.

ARTICLE 4. LIQUIDATED DAMAGES.

OWNER and the CONTRACTOR recognize that time is of the essence of this Agreement and that the OWNER will suffer financial loss if the WORK is not completed within the time specified in Article 2 herein, plus any extensions thereof allowed in accordance with Article 12 of the General Conditions. They also recognize the delays, expense, and difficulties involved in proving in a legal proceeding the actual damages suffered by the OWNER if the WORK is not completed on time. Accordingly, instead of requiring any such proof, the OWNER and the CONTRACTOR agree that as liquidated damages for delay (but not as a penalty) the CONTRACTOR shall pay the OWNER **\$350** for each Day that expires after the completion time specified in Article 2 herein. The amount of liquidated damages specified above is agreed to be a reasonable estimate based on all facts known as of the date of this Agreement.

ARTICLE 5. CONTRACT PRICE.

OWNER shall pay CONTRACTOR for completion of the WORK in accordance with the Contract Documents in the amount set forth in the Bid Schedule. The CONTRACTOR agrees to accept as full and complete payment for all WORK to be done in this contract for: **Contract No. E17-215, F Street Reconstruction**, those Unit Price amounts as set forth in the Bid Schedule in the Contract Documents for this Project.

The total amount of this contract shall be _____ (\$ _____), except as adjusted in accordance with the provisions of the Bid Documents.

SECTION 00500 - AGREEMENT

ARTICLE 6. PAYMENT PROCEDURES.

CONTRACTOR shall submit Applications for Payment in accordance with Article 14 of the General Conditions. Applications for Payment will be processed by the ENGINEER as provided in the General Conditions.

Progress payments will be paid in full in accordance with Article 14 of the General Conditions until ninety (90) percent of the Contract Price has been paid. The remaining ten (10) percent of the Contract Price may be retained, in accordance with applicable Alaska State Statutes, until final inspection, completion, and acceptance of the Project by the OWNER.

ARTICLE 7. CONTRACT DOCUMENTS.

The Contract Documents which comprise the entire Agreement between OWNER and CONTRACTOR concerning the WORK consist of this Agreement (pages 00500-1 to 00500-6, inclusive) and the following sections of the Contract Documents:

- Table of Contents (pages 00005-1 to 00005-2, inclusive)
- Notice Inviting Bids (pages 00030-1 to 00030-2, inclusive).
- Instructions to Bidders (pages 00100-1 to 00100-9, inclusive).
- Bid (pages 00300-1 to 00300-2, inclusive).
- Bid Schedule (pages 00310-1, inclusive).
- Bid Bond (page 00320-1, inclusive) or Bid Security.
- Subcontractor Report (pages 00360-1 to 00360-2, inclusive).
- Contractor Financial Responsibility (pages 00370-1 to 00370-2, inclusive).
- Performance Bond (pages 00610-1 to 00610-2, inclusive).
- Payment Bond (pages 00620-1 to 00620-2, inclusive).
- Insurance Certificate(s).
- General Conditions (pages 00700-1 to 00700-48, inclusive).
- Supplementary General Conditions (pages 00800-1 to 00800-5, inclusive).
- Alaska Labor Standards, Reporting, and Prevailing Wage Determination (page 00830-1).
- Special Provisions (pages 1 to 21 inclusive)
- Standard Specifications for Civil Engineering Projects and Subdivision Improvements
December 2003 with current Errata Sheets.
- Drawings consisting of 9 sheets, as listed in the Drawing Index.
- Addenda numbers ____ to ____, inclusive.
- Change Orders which may be delivered or issued after the Date of the Agreement and which are not attached hereto.

There are no Contract Documents other than those listed in this Article 7. The Contract Documents may only be amended by Change Order as provided in Paragraph 3.3 of the General Conditions.

ARTICLE 8. MISCELLANEOUS.

Terms used in this Agreement which are defined in Article 1 of the General Conditions will have the meanings indicated in the General Conditions.

SECTION 00500 - AGREEMENT

ARTICLE 8. MISCELLANEOUS. (Cont'd.)

No assignment by a party hereto of any rights under or interests in the Contract Documents will be binding on another party hereto without the written consent of the party sought to be bound; and specifically but without limitation monies that may become due and monies that are due may not be assigned without such consent (except to the extent that the effect of this restriction may be limited by law), and unless specifically stated to the contrary in any written consent to an assignment, no assignment will release or discharge the assignor from any duty or responsibility under the Contract Documents.

OWNER and CONTRACTOR each binds itself, its partners, successors, assigns and legal representatives to the other party hereto, its partners, successors, assigns and legal representatives in respect of all covenants, agreements and obligations contained in the Contract Documents. This Agreement shall be governed by the laws of the State of Alaska. Jurisdiction shall be in the State of Alaska, First Judicial District.

IN WITNESS WHEREOF, OWNER and CONTRACTOR have caused this Agreement to be executed on the date listed below by OWNER.

OWNER:

CONTRACTOR:

City and Borough of Juneau

(Company Name)

(Signature)

(Signature)

By: Duncan Rorie Watt, City & Borough Manager
(Printed Name)

By: _____
(Printed Name, Authority or Title)

Date: _____

CONTRACTOR Signature Date: _____

OWNER's address for giving notices:

CONTRACTOR's address for giving notices:

155 South Seward Street

Juneau, Alaska 99801

907-586-0873 907-586-4530
(Telephone) (Fax)

(Telephone) (Fax)

(E-mail address)

Contractor License No. _____

SECTION 00500 - AGREEMENT

CERTIFICATE
(if Corporation)

STATE OF)
) SS:
COUNTY OF)

I HEREBY CERTIFY that a meeting of the Board of Directors of the
_____ a corporation existing under the laws of
the State of _____, held on _____, 20____, the following resolution
was duly passed and adopted:

“RESOLVED, that _____, as _____ President
of the Corporation, be and is hereby authorized to **execute the Agreement** with the CITY AND
BOROUGH OF JUNEAU and this corporation and that the execution thereof, attested by the
Secretary of the Corporation, and with the Corporate Seal affixed, shall be the official act and deed
of this Corporation.”

I further certify that said resolution is now in full force and effect.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the official seal of the
corporation this _____ day of _____, 20_____.

Secretary

(SEAL)

SECTION 00500 - AGREEMENT

CERTIFICATE
(if Partnership)

STATE OF)
) SS:
COUNTY OF)

I HEREBY CERTIFY that a meeting of the Partners of the
_____ a partnership existing under the laws of the State
of _____, held on _____, 20____, the following resolution was duly
passed and adopted:

"RESOLVED, that _____, as _____ of the Partnership, be and is
hereby authorized to **execute the Agreement** with the CITY AND BOROUGH OF JUNEAU and
this partnership and that the execution thereof, attested by the _____ shall be
the official act and deed of this Partnership."

I further certify that said resolution is now in full force and effect.

IN WITNESS WHEREOF, I have hereunto set my hand this _____, day of _____,
20_____.

Secretary

(SEAL)

SECTION 00500 - AGREEMENT

CERTIFICATE
(if Joint Venture)

STATE OF)
) SS:
COUNTY OF)

I HEREBY CERTIFY that a meeting of the Principals of the
_____ a joint venture existing under the laws of the
State of _____, held on _____, 20____, the following resolution was duly passed and
adopted:

"RESOLVED, that _____, as _____ of the
Joint Venture, be and is hereby authorized to **execute the Agreement** with the CITY AND
BOROUGH OF JUNEAU and this joint venture and that the execution thereof, attested by the
_____ shall be the official act and deed of this Joint Venture."

I further certify that said resolution is now in full force and effect.

IN WITNESS WHEREOF, I have hereunto set my hand this _____, day of
_____, 20____.

Secretary

(SEAL)

END OF SECTION

SPECIAL PROVISIONS

The Standard Specifications for Civil Engineering Projects and Subdivision Improvements December 2003 Edition, with fourteen Errata Sheets, as published by the City and Borough of Juneau, is part of these Contract Documents and shall pertain to all phases of the contract. The Standard Specifications for Civil Engineering Projects and Subdivision Improvements December 2003 Edition is available for a fee from the City and Borough of Juneau Engineering Contracts Office, (907) 586-0490, or you may view them online at: www.juneau.org/engineering.

Special Provisions - Table of Contents

Section No.	Section Title	Page No.
01010	Summary of Work	2
01025	Measurement and Payment	5
02709	Topsoil	19
02716	Storm Drainage Pipe Removal and Filling of Water Pipe	20
02801	Asphalt Concrete Pavement	20
03303	Sidewalk, Curb and Gutter	21

SPECIAL PROVISIONS

Add the following Section:

SECTION 01010 - SUMMARY OF WORK

PART 1 - GENERAL

1.1 GENERAL

- A. The WORK to be performed under this contract shall consist of furnishing all plant, tools, equipment, materials, supplies, manufactured articles and furnishing all labor, transportation and services, including all fuel, power, water and essential communications and performing all WORK, or other operations required for the fulfillment of the contract in strict accordance with the Contract Documents. The WORK shall be complete, and all WORK, materials, and services, not expressly indicated or called for in the Contract Documents which may be necessary for the complete and proper construction of the WORK in good faith shall be provided by the CONTRACTOR as though originally so indicated, at no increase in cost to the OWNER.

1.2 WORK COVERED BY CONTRACT DOCUMENTS

- A. The WORK covered in the Contract Documents generally includes: Reconstruction of F Street in Douglas between 3rd Street and 5th Street, the replacement of the Storm Drainage system, Sanitary Sewer System and Water System, replacement of 18 inches of Roadway embankment, valley gutter new asphalt pavement and miscellaneous related WORK.
- B. SITE OF WORK. The site of the WORK is in Douglas, Alaska.

1.3 WORK BY OTHERS

- A. The CONTRACTOR's attention is directed to the fact that work may be conducted at the site by other contractors during the performance of the WORK under this contract. The CONTRACTOR shall conduct its operations so as to cause a minimum of interference with the WORK of such other contractors, and shall cooperate fully with such contractors to provide continued safe access to their respective portions of the site, as required to perform work under their respective contracts.
- B. Interference with Work on Utilities. The CONTRACTOR shall cooperate fully with all utility forces of the OWNER or private agencies engaged in the relocation, altering, or otherwise rearranging of any facilities which interfere with the progress of the WORK, and shall schedule the WORK so as to minimize interference with said relocation, altering, or other rearranging of facilities.

1.4 CONTRACTOR USE OF PROJECT SITE

- A. The CONTRACTOR's use of the Project site shall include construction operations and storage of materials, fabrication facilities, and field offices only in those areas identified on the Drawings.

SPECIAL PROVISIONS

1.5 OWNER USE OF THE PROJECT SITE

- A. The OWNER may utilize all or part of the existing site during the entire period of construction for the conduct of the OWNER's normal operations. The CONTRACTOR shall cooperate and coordinate with the ENGINEER to facilitate the OWNER's operations and to minimize interference with the CONTRACTOR's operation at the same time. In any event, the OWNER shall be allowed access to the Project site during the period of construction.

1.6 PROJECT MEETINGS

A. Pre-Construction Conference

- 1. Prior to the commencement of WORK at the site, a Pre-Construction Conference will be held at a mutually agreed time and place which shall be attended by the CONTRACTOR's Project Manager, its superintendent, and its Subcontractors as the CONTRACTOR deems appropriate. Other attendants will be:
 - a. ENGINEER and Inspector.
 - b. Representatives of OWNER.
 - c. Governmental representatives as appropriate.
 - d. Others as requested by CONTRACTOR, OWNER, or ENGINEER.
- 2. Unless previously submitted to the ENGINEER, the CONTRACTOR shall bring to the Pre-Construction Conference one copy each of the following:
 - a. Plan of Operation.
 - b. Project Overview Bar Chart Schedule.
 - c. Procurement schedule of major equipment and materials and items requiring long lead time.
 - d. Shop Drawing/Sample/Substitute or "Or Equal" submittal schedule.
 - e. Name and telephone number of CONTRACTOR's Project Supervisor.
 - f. Erosion Control Plan with Storm Water Pollution Prevention Plan and Notice of Intent from ADEC
- 3. The purpose of the Pre-Construction Conference is to designate responsible personnel and establish a working relationship. Matters requiring coordination will be discussed and procedure for handling such matters established. The complete agenda will be furnished to the CONTRACTOR prior to the meeting date. The CONTRACTOR should be prepared to discuss all of the items listed below:
 - a. Status of CONTRACTOR's insurance and bonds.
 - b. CONTRACTOR's tentative schedules.
 - c. Transmittal, review, and distribution of CONTRACTOR's submittals.

SPECIAL PROVISIONS

- d. Processing applications for payment.
 - e. Maintaining record documents.
 - f. Critical WORK sequencing.
 - g. Field decisions and Change Orders.
 - h. Use of Project site, office and storage areas, security, housekeeping, and OWNER's needs.
 - i. Major equipment deliveries and priorities.
 - j. CONTRACTOR's assignments for safety and first aid.
4. The OWNER will preside at the Pre-Construction Conference and will arrange for keeping and distributing the minutes to all persons in attendance.
 5. The CONTRACTOR and its Subcontractors should plan on the conference taking no longer than three hours. Items listed in paragraph 3 will be covered as well as a review of the Drawings and Specifications with the ENGINEER and OWNER.

B. Progress Meetings

1. The CONTRACTOR shall schedule and hold regular on-site progress meetings at least weekly and at other times as requested by the ENGINEER, or as required by the progress of the WORK. The CONTRACTOR, ENGINEER, and all Subcontractors active on the site must attend each meeting. CONTRACTOR may at its discretion request attendance by representatives of its Suppliers, manufacturers, and other Subcontractors.
2. The ENGINEER shall conduct the meeting and will arrange for recording and distributing the minutes. The purpose of the meetings will be to review the progress of the WORK, maintain coordination of efforts, discuss changes in scheduling, and resolve other problems which may develop. During each meeting, the CONTRACTOR is required to present any issues which may impact the WORK, with a view toward resolving these issues expeditiously.

1.7 DEFINITIONS APPLICABLE TO TECHNICAL SPECIFICATIONS

A. The following words have the meaning defined in the Technical Portions of the WORK:

1. Furnish - means to supply and deliver to the site, to unload and unpack ready for assembly, installation, testing, and start-up.
2. Indicated - is a word used to direct the CONTRACTOR to information contained on the drawings or in the Specifications. Terms such as "shown", "noted", "scheduled", and "specified" also may be used to assist in locating information but no limitation of location is implied or intended.
3. Install - defines operations at the site including assembly, erection, placing, anchoring, applying, shaping to dimension, finishing, curing, protecting, and cleaning, ready for the OWNER's use.

SPECIAL PROVISIONS

4. Installer - a person or firm engaged by the CONTRACTOR or its subcontract, or any Subcontractor, for the performance of installation, erection, or application WORK at the site. Installers must be expert in the operations they are engaged to perform.
5. Provide- is defined as furnish and install, ready for the intended use.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

Add the following Section:

SECTION 01025 – MEASUREMENT AND PAYMENT

PART 1 - GENERAL

1.1 SCOPE

- A. Payment for the various items of the Bid Schedule, as further specified herein, shall include all compensation to be received by the CONTRACTOR for furnishing all tools, equipment, supplies, and manufactured articles, and for all labor, operations, and incidentals appurtenant to the items for WORK being described, as necessary to complete the various items of the WORK all in accordance with the requirements of the Contract Documents, including all appurtenances thereto, and including all costs of permits and cost of compliance with the regulations of public agencies having jurisdiction, including Safety and Health Requirements of Occupational Safety and Health Administration of the U.S. Department of Labor (OSHA) and Occupational Safety and Health Standards of the Alaska Department of Labor, Division of Labor Standards and Safety.
- B. No separate payment will be made for any Pay Item that is not specifically set forth in the Bid Schedule, and all costs therefore shall be included in the prices named in the Bid Schedule for the various appurtenant items of WORK.
- C. In addition to the other incidental items of WORK listed elsewhere in the contract, the following items shall also be considered as incidental to the WORK:
 1. Maintenance of all services through the Project area including power, water, storm and sanitary sewers, garbage pickup, mail delivery, and emergency vehicles.
 2. Traffic control, including flaggers, and installation and maintenance of traffic control devices in accordance with the Manual of Uniform Traffic Control Devices – Millennium Edition (MUTCD) and the current AKDOT&PF supplements.
 3. Repair or replacement of existing adjacent facilities including piping, landscaping, steel, timber, concrete and asphalt items, if damaged by the CONTRACTOR.
 4. Final clean-up and site restoration.

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5. All WORK necessary for coordination of work to be accomplished by the private utility companies and property owners within the Project limits.
6. Removal and replacement of survey monuments and markers disturbed during construction, whether shown on the Drawings or not.
7. Watering of the roadway as necessary for dust control.
8. All fittings (except CPP and CMP saddle tees) required for storm, water and sanitary sewer pipes.
9. Usable material from excavation placed in the roadway under the shot rock borrow.
10. Crack sealing all joints following paving operations.

1.2 MOBILIZATION (Pay Item No. 1505.1) PRICE BASED ON LUMP SUM PAY UNIT

- A. Measurement for payment for Mobilization will be based upon the completion of the entire WORK as a Lump Sum Pay Unit, complete, all in accordance with the requirements of the Contract Documents.
- B. Payment for Mobilization will be made at the amount shown on the Bid Schedule under Pay Item No. 1505.1, which payment will constitute full compensation for all WORK described in Section 01505 - Mobilization, as shown on the Drawings and as directed by the ENGINEER.
- C. Partial payments will be made as the WORK progresses as follows:
 1. When 5% of the total original contract amount is earned from other Pay Items, 50% of the amount bid for Mobilization, or 5% of the original contract amount, whichever is lesser, will be paid.
 2. When 10% of the total original contract amount is earned from other Pay Items, 100% of the amount bid for Mobilization, or 10% of the original contract amount, whichever is lesser, will be paid.
 3. Upon completion of all WORK on the Project, payment of any amount bid for Mobilization in excess of 10% of the total contract amount will be paid.

1.3 EROSION AND SEDIMENT CONTROL (Pay Item No. 1570.1) PRICE BASED ON LUMP SUM PAY UNIT

- A. Measurement for payment for Erosion and Sediment Control will be based upon the completion of the entire WORK as a Lump Sum Pay Unit, complete, all in accordance with the requirements of the Contract Documents.
- B. WORK under this Pay Item includes obtaining all necessary permits for storm water control as required by Alaska Department of Conservation and the Environmental Protection Agency. This includes furnishing, installing and maintaining all measures required by these permits.
- C. Payment for Erosion and Sediment Control will be made at the amount shown on the Bid Schedule under Pay Item No. 1570.1, which payment will constitute full

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compensation for all WORK described in Section 01570 – Erosion and Sediment Control, as shown on the Drawings and as directed by the ENGINEER.

2.1 EXCAVATION (Pay Item No. 2202.1) PRICE BASED ON QUANTITY, CUBIC YARD

- A. Measurement for payment for Excavation will be based on the number of cubic yards of unclassified material actually excavated, as determined by the average end area method. Where impractical to measure by the average end area method, the ENGINEER may approve other acceptable methods involving three-dimensional measurements. Excavation outside of the subcut limits indicated in the Drawings, or directed by the ENGINEER will not be measured for payment.
- B. No deduction in the measurement for Excavation will be made for the trenching required for pipe and structure installations above the bottom of, or within the subcut limits as shown on the Typical Sections.
- C. Measurement for payment may be selected by the CONTRACTOR from one of the following methods:
 - 1. From actual cross sections taken by the CONTRACTOR's surveyor (following pavement and concrete curbing, slabs or sidewalk removal where present), with the lower limits determined by the neat line subcut limits as indicated on the Typical Sections, or as directed by the ENGINEER.
 - 2. The CONTRACTOR may review and utilize the ENGINEER's design earthwork quantity computations in lieu of providing its own quantity determinations.
- D. The following will not be measured for direct payment; the cost of such WORK will be considered incidental to other WORK under the contract:
 - 1. Overburden and other spoil material from borrow sources.
 - 2. Removal of water by aeration of material to obtain required moisture content.
 - 3. Any volumes of water or other liquid material.
 - 4. Material used for the purpose other than directed.
 - 5. Roadbed material scarified in place and not removed.
 - 6. Material excavated when benching.
 - 7. Slide or slipout material attributable to the carelessness of the CONTRACTOR.
 - 8. The volume of conserved materials stockpiled at the option of the CONTRACTOR.
 - 9. Placement of usable, or otherwise suitable material from excavation, as determined by the ENGINEER, into the new roadway and sidewalk as embankment or selected embankment, or as embankment for any areas outside the roadway subcut within the project limits.
- E. Payment for Excavation will be made at the Unit Price named in the Bid Schedule under Pay Item No. 2202.1, which payment will constitute full

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compensation for all WORK described in Section 02202 - Excavation and Embankment, as shown on the Drawings and as directed by the ENGINEER.

2.2 SHOT ROCK BORROW (Pay Item No. 2202.2) PRICE BASED ON QUANTITY, CUBIC YARD

- A. Measurement for payment for Shot Rock Borrow will be based on the number of cubic yards of material in place as determined by the average end area method, and will be determined on a neatline basis. Where impractical to measure by the average end area method, the ENGINEER may approve other acceptable methods involving three-dimensional measurements. Embankment outside of the lines, grades and cross sections indicated in the Drawings or as directed by the ENGINEER will be deducted from borrow quantities for pay purposes.
- B. Payment for Selected Borrow will be made at the Unit Price named in the Bid Schedule under Pay Item No. 2202.2, which payment will constitute full compensation for all WORK described in Section 02202 - Excavation and Embankment, as shown on the Drawings as and as directed by the ENGINEER.

2.3 MINING AREA RESTORATION AND ROAD CLEANING GUARANTEE (Pay Item No. 2202.3) PRICE BASED ON CONTINGENT SUM PAY UNIT

- A. Measurement for this Item will be made as a Contingent Sum Pay Unit for completion of Mining Area Restoration and Road Cleaning.
- B. The CONTRACTOR shall be responsible for removal of dirt, mud, rocks and other debris from CBJ and State Right-of-Ways accumulated from the hauling and quarry operations. It is the intent that the traveled public way be kept as clean as practical to minimize dust and to avoid unsafe traffic conditions. If the CONTRACTOR fails to perform necessary road cleaning, the CBJ may hire outside forces to perform the work and deduct the cost from this contingent sum item.
- C. The CONTRACTOR shall be responsible for restoration of their mining area in accordance to the conditions of the material source used and mining plan submitted. If the CONTRACTOR fails to perform the required mining area restoration, the CBJ may hire outside forces to perform the work and deduct the cost from this contingent sum item.
- D. Release of final payment for Mining Area Restoration and Road Cleaning Guarantee will be made upon determination of completeness by the ENGINEER after deduction of OWNER incurred costs for necessary road cleaning and/or mining area restoration not completed by the CONTRACTOR.

2.4 2-INCH MINUS SHOT ROCK w/BASE COURSE (Pay Item No. 2204.1) PRICE BASED ON QUANTITY, CUBIC YARD

- A. 2-Inch Minus Shot Rock w/Base Course will be measured by the number of cubic yards of material in place as determined by the average end area method, and will be determined on a neatline basis. Where impractical to measure by the average end area method, the ENGINEER may approve other acceptable

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methods involving three-dimensional measurements. Material outside of the lines, grades and cross sections indicated in the Drawings, or as directed by the ENGINEER, will be deducted from 2-Inch Minus Shot Rock w/Base Course quantities for pay purposes.

- B. Base Course, Grading D-1, may be used under the curbing as a substitute for 2-Inch Minus Shot Rock w/Base Course as a no cost change. This material will be measured for payment under Pay Item No. 2204.1.
 - C. Water needed for compaction and added to the base material on the grade will be considered incidental.
 - D. 2-Inch Minus Shot Rock will be placed and compacted into a layer 4- inches to 5-inches thick, and covered with Base Course, to a total thickness of 6-inches for the area between curb lines. Both of these materials will be measured for payment under this Pay Item. 2-Inch Minus Shot Rock shall meet the requirements of Section 2202 – Excavation and Embankment.
 - E. Payment for 2-Inch Minus Shot Rock w/Base Course, will be made at the Unit Price named in the Bid Schedule under Pay Item No. 2204.1, which payment will constitute full compensation for all WORK described in Section 2204 – Base Course, as shown on the Drawings and as directed by the ENGINEER.
- 2.5 SANITARY SEWER PIPE, 8-INCH PVC (Pay Item Nos. 2401.1) PRICE BASED ON QUANTITY, LINEAR FOOT
- A. Sanitary Sewer Pipe will be measured along the slope of the pipe in feet, from center to center of manholes, from center of manholes to end of pipe, or to limits of payment as shown on the Drawings. The aggregate laid lengths of wyes will not be deducted from lengths of pipes so measured.
 - B. All trench excavation, bedding, backfill, sheeting and bracing, dewatering, cleaning and testing and all other items necessary for a complete installation will not be measured for payment, but will be considered incidental to other WORK.
 - C. Payment for Sanitary Sewer Pipe, 8-Inch PVC will be made at the Unit Price named in the Bid Schedule under Pay Item No. 2401.1, which payment will constitute full compensation for all WORK described in Section 02401 – Sanitary Sewer Pipe, as shown on the Drawings and as directed by the ENGINEER.
- 2.6 SANITARY SEWER SERVICE LATERAL, 6-INCH (Pay Item No. 2401.2) PRICE BASED ON QUANTITY, EACH
- A. Sanitary Sewer Service Laterals will be measured per each, complete in place, including pipe, wyes, cleanouts and ductile iron or cast iron frame and cover, trench excavation, bedding, backfill, sheeting and bracing, dewatering, cleaning and testing, and all other items necessary for a complete installation.
 - B. Payment for Sanitary Sewer Service Lateral, 6-Inch, will be made at the Unit Price named in the Bid Schedule under Pay Item Nos. 2401.3, which payment

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will constitute full compensation for all WORK described in Section 02401 – Sanitary Sewer Pipe, as shown on the Drawings and as directed by the ENGINEER.

2.7 LOCATE SEWER SERVICES (Pay Item Nos. 2401.3) PRICE BASED ON LUMP SUM

- A. Measurement for payment for Locate Sewer Services will be based upon the completion of the entire WORK as a Lump Sum Pay Unit, complete, all in accordance with the requirements of the Contract Documents.
- B. WORK under this Item includes all excavation and backfill, and other WORK necessary to determine the location of all existing sewer services prior to installation of the water and storm drain piping, so that the water and storm drain pipe can be graded to avoid conflict with the sewer services, and so that visual observations can be made by the ENGINEER that the sewer service pipes are undamaged throughout the trenching and backfilling operations.
- C. This WORK is also required so that all sewer service locations are known prior to compaction of the bottom of subcut and placement and compaction of shot rock borrow, to ensure that the sewer service pipes are not damaged.
- D. Payment for Locate Sewer Services will be made at the amount named in the Bid Schedule under pay Item No. 2401.2, which payment will constitute full compensation for all WORK described in Section 02401 – Sanitary Sewer Pipe, as shown on the Drawings and as directed by the ENGINEER.

2.8 SANITARY SEWER MANHOLE, TYPE I (Pay Item No. 2402.1) PRICE BASED ON QUANTITY, EACH

- A. Sanitary Sewer Manholes will be measured per each, complete in place, including transition slab with asphalt pavement overlay, if required, and all earthwork.
- B. All WORK required to set the frame and cover to grade, including construction of a concrete transition slab and pavement overlay, if necessary, will be considered incidental to other work under this Contract.
- C. Payment for Sanitary Sewer Manhole, Type I will be made at the Unit Price named in the Bid Schedule under Pay Item No. 2402.1, which payment will constitute full compensation for all WORK described in Section 02402 - Sanitary Sewer Manholes and Cleanouts, as shown on the Drawings and as directed by the ENGINEER.

2.9 []-INCH PIPE CULVERT (Pay Item Nos. 2501.1, 2501.2, and 2501.3) PRICE BASED ON QUANTITY, LINEAR FOOT

- A. Culverts Pipes, including all coupling bands, bends and other items necessary for the proper joining of the culvert pipe sections, will be measured by the staked length in linear feet.

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- B. Pipes for storm drains shall be measured by the staked length, from center to center of structures or to ends of pipe if no structure is present. No deduction shall be made for footage through inlets, catch basins or manholes.
 - C. Plugging the existing culvert pipes to be abandoned and left in place will be considered incidental to the WORK under the Contract.
 - D. Branch connections, coupling adapters and bends will be included in the linear foot measurement for conduit.
 - E. Trench excavation, bedding, backfill and imported backfill will not be measured for payment, but will be considered incidental to other WORK.
 - F. Payment for and 6-Inch Pipe Culvert will be made at the Unit Price named in the Bid Schedule under Pay Item No. 2501.1, which payment will constitute full compensation for all WORK described in Section 02501 - Storm Sewer Pipe, as shown on the Drawings and as directed by the ENGINEER.
 - G. Payment for 12-Inch Pipe Culvert will be made at the Unit Price named in the Bid Schedule under Pay Item Nos. 2501.2, which payment will constitute full compensation for all WORK described in Section 02501 - Storm Sewer Pipe, as shown on the Drawings and as directed by the ENGINEER.
 - H. Payment for 18-Inch Pipe Culvert will be made at the Unit Price named in the Bid Schedule under Pay Item Nos. 2501.3, which payment will constitute full compensation for all WORK described in Section 02501 - Storm Sewer Pipe, as shown on the Drawings and as directed by the ENGINEER.
- 2.10 6-INCH UNDERDRAIN (Pay Item No. 2501.4) PRICE BASED ON QUANTITY, LINEAR FOOT
- A. Underdrain pipe, including all coupling bands and other items necessary for the proper joining of the pipe sections, will be measured by the staked length.
 - B. Underdrain pipe will be measured from center of structures or ends of pipe, as shown on the Drawings, or as directed by the ENGINEER.
 - C. Pipe perforations, 2-inch minus shot rock, filter cloth and end caps will not be measured for payment, but will be considered incidental to other WORK.
 - D. Excavation, bedding and backfill will not be measured for payment, but will be considered incidental to other WORK.
 - E. Payment for 6-Inch Underdrain will be made at the Unit Price named in the Bid Schedule under Pay Item No. 2501.4, which payment constitutes full compensation for all WORK described in Section 02501 – Storm Sewer Pipe, as shown on the Drawings, and as directed by the ENGINEER.

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- 2.11 CPP SADDLE TEE (Pay Item No. 2501.5) PRICE BASED ON QUANTITY, EACH
- A. CPP Saddle Tees will be measured per each, complete in place.
 - B. This Pay Item will include those CPP Saddle Tees shown on the Drawings, and also will be used to connect to the storm drain mains at locations as required to intercept unknown underground drainage pipes and flows.
 - C. Only those CPP Saddle Tees actually required, as shown on the Drawings, and as determined by the ENGINEER, will be measured for payment.
 - D. Payment for CPP Saddle Tee will be made at the Unit Price named in the Bid Schedule under Pay Item No. 2501.5, which payment will constitute full compensation for all WORK described in Section 02501 – Storm Sewer Pipe, as shown on the Drawings and as directed by the ENGINEER.
- 2.12 STORM DRAIN MANHOLE, TYPE I (Pay Item No. 2502.1) PRICE BASED ON QUANTITY, EACH
- A. Storm Drain Manholes will be measured per each, complete in place, including transition slab, if required, and all earthwork, frames and covers.
 - B. Payment for Storm Drain Manhole, Type I, will be made at the Unit Price named in the Bid Schedule under Pay Item No. 2502.1, which payment will constitute full compensation for all WORK described in Section 02502 – Storm Sewer Manholes, Inlets and Catch Basins, as shown on the Drawings, and as directed by the ENGINEER.
- 2.13 STORM DRAIN MANHOLE, TYPE II (Pay Item No. 2502.2) PRICE BASED ON QUANTITY, EACH
- A. Storm Drain Manholes will be measured per each, complete in place, including transition slab, if required, and all earthwork, frames and covers.
 - B. Payment for Storm Drain Manhole, Type II, will be made at the Unit Price named in the Bid Schedule under Pay Item No. 2502.2, which payment will constitute full compensation for all WORK described in Section 02502 – Storm Sewer Manholes, Inlets and Catch Basins, as shown on the Drawings, and as directed by the ENGINEER.
- 2.14 CATCH BASIN, TYPE III (Pay Item Nos. 2502.3) PRICE BASED ON QUANTITY, EACH
- A. Catch Basins will be measured per each, complete in place, including all earthwork, frames and grates or covers.
 - B. Payment for Catch Basin, Type III will be made at the Unit Price named in the Bid Schedule under Pay Item No. 2502.3, which payment will constitute full compensation for all WORK described in Section 02502 - Storm Sewer

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Manholes, Inlets and Catch Basins, as shown on the Drawings and as directed by the ENGINEER.

2.15 10-INCH HDPE WATER PIPE (Pay Item No. 2601.1) PRICE BASED ON QUANTITY, LINEAR FOOT

- A. Measurement of water pipe will be made along the slope of the pipe from the centers of fittings and valves in linear feet. No deduction in length will be made for valves and fittings. All fittings, including valves, required for satisfactory installation of water pipe will be considered incidental to the water pipe pay items.
- B. All trench excavation, bedding, backfill, sheeting and bracing, dewatering, cleaning and testing, corrosion protection and all other items necessary for a complete installation will not be measured for payment, but will be considered incidental to other WORK.
- C. Work for temporary water services to resident shall be included in this pay item. Contractor shall contact and coordinate with the CBJ Water Department prior to construction.
- D. Payment for 10-Inch HDPE Water Pipe will be made at the Unit Price named in the Bid Schedule under Pay Item No. 2601.1, which payment will constitute full compensation for all WORK described in Section 02601 - Water Pipe, as shown on the Drawings and as directed by the ENGINEER.

2.16 REPLACE VALVE BOX (Pay Item No. 2602.1) PRICE BASED ON QUANTITY, EACH

- A. Measurement for payment for Replace Valve Box will be based on the actual quantity, each, of such valve boxes complete replaced and adjusted to grade, in accordance with the requirements of the Contract Documents.
- B. Payment for Replace Valve Box will be made at the Unit Price named in the Bid Schedule under Pay Item No. 2602.1, which payment will constitute full compensation for all WORK described in Section 02602 – Valves, as shown on the Drawings, and as directed by the ENGINEER.

2.17 FIRE HYDRANT ASSEMBLY WITH ACCESS PAD (Pay Item No. 2603.1) PRICE BASED ON QUANTITY, EACH

- A. Measurement for payment of Fire Hydrant Assembly with Access Pad will be the actual number of fire hydrant assemblies satisfactorily installed, complete in place.
- B. A Fire Hydrant Assembly includes the fire hydrant, the tee or required fitting at the mainline water pipe, thrust block, 8-inch HDPE leg from the main to the gate valve (including 8x6 reducer at the gate valve) barrel extension (if required), six-inch gate valve, valve box, 6-inch DI from the gate valve to the barrel, joint restraints, tracer wires, warning tapes, and any other required fittings, including pipe, to connect the hydrant leg from the mainline water pipe to the fire hydrant or from the stubbed water pipe to the fire hydrant as shown on the Drawings.

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- C. Salvage of existing fire hydrants will be considered incidental to other WORK under the Contract.
 - D. Hydrant access pad shall include all excavation, backfill, sideslope grading and base course grading D-1. Pipe culvert and guard posts shall be provided and install as a part of this pay item. Adjustment of valve box to grade shall be included in this pay item.
 - E. Asphalt for hydrant access pad shall be paid for under Pay Item No. 2801.1, AC Pavement, Type II-A, class B.
 - F. Payment for Fire Hydrant Assembly with Access Pad will be made at the Unit Price named in the Bid Schedule under Pay Item No. 2603.3, which payment will constitute full compensation for all WORK described in Section 02603 - Fire Hydrants, as shown on the Drawings and as directed by the ENGINEER.
- 2.18 1-INCH HDPE WATER SERVICE (Pay Item No. 2605.1) PRICE BASED ON QUANTITY, EACH
- A. Measurement for payment for water services two-inches and smaller will be the actual number of water services satisfactorily installed from the water pipe to the property line or as shown on the Drawings.
 - B. A water service includes the curb stop, service box, corporation stop, trace wires, service saddle, required fittings, warning tape, service pipe, and all WORK necessary to install the service to the locations as shown on the Drawings.
 - C. Trench excavation and backfill shall be considered incidental to the water service.
 - D. Payment for 1-Inch HDPE Water Service will be made at the Unit Price named in the Bid Schedule under Pay Item No. 2605.1, which payment will constitute full compensation for all WORK described in Section 02605 - Water Services, as shown on the Drawings and as directed by the ENGINEER.
- 2.19 LOCATE WATER SERVICES (Pay Item No. 2605.2) PRICE BASED ON LUMP SUM
- A. Measurement for payment for Locate Water Services will be based upon the completion of the entire WORK as a Lump Sum Pay Unit, complete, all in accordance with the requirements of the Contract Documents.
 - B. This Pay Item will compensate for the WORK required to locate the existing water services prior to compaction of the bottom of subcut and placement and compaction of shot rock borrow.
 - C. Payment for Locate Water Services will be made at the Unit Price named in the Bid Schedule under Pay Item No. 2605.2, which payment will constitute full compensation for all WORK described in Section 02605 – Water Services, as shown on the Drawings and as directed by the ENGINEER.

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2.20 CONSTRUCTION SURVEYING (Pay Item No. 2702.1) PRICE BASED ON LUMP SUM PAY UNIT

- A. Measurement for payment of Construction Surveying will be based upon the completion of the entire WORK as a Lump Sum Pay Unit, complete, all in accordance with the requirements of the Contract Documents.
- B. The WORK required to remove and reset all survey monuments and other survey markers disturbed by construction activities will be considered incidental to other WORK.
- C. Payment for Construction Surveying will be made at the Unit Price named in the Bid Schedule under Pay Item No. 2702.1, which payment will constitute full compensation for all WORK described in Section 02702 - Construction Surveying, as shown on the Drawings and as directed by the ENGINEER.

2.21 TOPSOIL (Pay Item No. 2709.1) PRICE BASED ON QUANTITY, CUBIC YARD

- A. Topsoil will be measured for payment by the cubic yard on the basis of truck measure for all WORK performed in the contract under Section 02709 - Topsoil, completed and accepted.
- B. Topsoil found to be in excess of 4-inches thick, in place and to final grade, will be deducted from the quantity measured by truck measure based on depths measured at randomly selected locations. Deductions will be computed on the basis of the average end area method.
- C. Payment for Topsoil will be made at the Unit Price named in the Bid Schedule under Pay Item Nos. 2709.1, which payment will constitute full compensation for all WORK described in Section 02709 - Topsoil, as shown on the Drawings and as directed by the ENGINEER.

2.22 TOPSOIL FINISH GRADING (Pay Item No. 2709.2) PRICE BASED ON LUMP SUM

- A. Measurement for payment for Topsoil Finish Grading be based upon the completion of the entire WORK as a Lump Sum Pay Unit, complete, all in accordance with the requirements of the Contract Documents.
- B. No measurement for Topsoil Finish Grading will be made until the topsoil has been graded to a uniform appearance and to within the tolerances required under Pay Item No. 2709.1, Topsoil.
- C. Payment for Topsoil Finish Grading will be made at the Unit Price named in the Bid Schedule under Pay Item No. 2709.2, which payment will constitute full compensation for all WORK described in Section 02709 – Topsoil, as shown on the Drawings and as directed by the ENGINEER.

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2.23 SEEDING, HYDRAULIC METHOD, TYPE III (Pay Item No. 2710.1) PRICE BASED ON QUANTITY, SLURRY UNIT

- A. Seeding by the hydraulic method will be measured for payment by the number of slurry units (to the nearest 1/10 unit) of mixture actually applied to the designated area, as directed by the ENGINEER.
- B. Payment for Seeding, Hydraulic Method, Type III will be made at the Unit Price named in the Bid Schedule under Pay Item No. 2710.1, which payment will constitute full compensation for all WORK described in Section 02710 - Seeding, as shown on the Drawings and as directed by the ENGINEER.

2.24 REMOVE AND DISPOSE OF EXISTING STORM DRAINAGE SYSTEM (Pay Item No. 2716.1) PRICE BASED ON LUMP SUM

- A. Measurement for payment for Storm Existing Storm Drainage System will be based upon the completion of the entire WORK as a Lump Sum Pay Unit, complete, all in accordance with the requirements of the Contract Documents.
- B. Payment for this item shall include removal and disposal of Storm Drainage Pipes and Structures within the Project limits.
- C. Payment for Remove and Dispose of Storm Drainage Pipe will be made at the Unit Price named in the Bid Schedule under Pay Item No. 2716.1, which payment will constitute full compensation for all WORK described in Section 02716 – Water, Storm and Sanitary Pipe Removal, as shown on the Drawings and as directed by the ENGINEER.

2.25 ABANDON EXISTING STORM DRAINAGE SYSTEM (Pay Item No. 2717.1) PRICE BASED ON LUMP SUM

- A. Measurement for payment for Remove/Abandon Storm Drainage System will be based upon the completion of the entire WORK as a Lump Sum Pay Unit, complete, all in accordance with the requirements of the Contract Documents.
- B. Contractor shall have the option of Removal or Abandonment of Existing Storm Drain System, or a combination of both.
- C. Payment for Removal of Existing Storm Drain System shall include removal and disposal of storm drain pipe and structures, backfill to original grade with useable excavation and returning area to original or better condition.
- D. Payment for Abandonment of Existing Storm Drain System Structures shall include decommissioning manholes by removing necessary sections to bring structure a minimum of 24" below grade, filling structure with crushed rock or compacted useable excavation and returning area to original grade and to original or better condition.
- E. Payment for Abandonment of Existing Storm Drain System Pipe shall include adding a concrete slurry throughout the piping system. Ends of existing pipes to be abandoned shall be plugged.

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- F. Payment for Remove/Abandon Storm Drainage System will be made at the Unit Price named in the Bid Schedule under Pay Item No. 2717.1, which payment will constitute full compensation for all WORK described in Section 02717 –Storm and Sanitary Structure Removal, as shown on the Drawings, and as directed by the ENGINEER.
- 2.26 A.C. PAVEMENT, TYPE II-A, CLASS B (Pay Item No. 2801.1) PRICE BASED ON QUANTITY, TON
- A. Asphalt Concrete Pavement will be measured for payment by the ton.
- B. The tolerance for thickness of asphalt concrete pavement under square yard measurement shall be plus or minus one-quarter inch from design mat thickness, as shown on the typical section. This one-quarter inch tolerance shall be the exception only, with the average variance for the job being not more than plus or minus one-eighth inch from the design mat thickness. All asphalt concrete placed outside the tolerance allowed will be corrected by the CONTRACTOR at no cost to the OWNER.
- C. No measurement will be made for asphalt concrete pavement that exceeds 12% more than the neat line quantity, as determined by the nominal design thickness multiplied by the actual area paved, with a conversion factor of 119 lb per square yard per inch of thickness.
- D. All resealing of joints with existing pavement, including those resealed after the pavement has cooled to ambient temperatures, will not be measured for payment, but will be considered incidental to other WORK under the contract.
- E. Tack Coat applied to existing joint surfaces and along edge of gutters prior to placement of A.C. pavement, will be considered incidental to other WORK.
- F. Asphalt Pavement required for reconstructed collars around manholes and water valves, if any, will be considered incidental to other WORK under this Section.
- G. Payment under this Pay Item may include deductions in final price if, after testing, the asphalt pavement does not meet the required specification. Deductions are further described in Section 02801 – Asphalt Concrete Pavement, Part 3 – Execution, Article 3.13, Acceptance Sampling and Testing, Paragraph K.
- H. Payment for A.C. Pavement, Type II-A, Class B, will be made at the Unit Price named in the Bid Schedule under Pay Item No. 2801.1, which payment will constitute full compensation for all WORK described in Section 02801 - Asphalt Concrete Pavement, as shown on the Drawings and as directed by the ENGINEER.
- 2.27 REMOVE EXISTING ASPHALT SURFACING (Pay Item No. 2806.1) PRICE BASED ON QUANTITY, SQUARE YARDS
- A. Removing asphalt surfacing, including leveling course, will be measured for payment per square yard, complete, except that no measurement will be made for removing asphaltic surfacing less than one-inch-thick.

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- B. Removal of existing asphalt surfacing will be measured per top square yard, which will include the full thickness of all layers of existing asphalt, including leveling courses and underlying pavement. Concrete slabs located in the street areas, if any, will be included under Pay Item No. 2806.1.
 - C. Payment for Remove Existing Asphalt Surfacing will be made at the Unit Price named in the Bid Schedule under Pay Item No. 2806.1, which payment will constitute full compensation for all WORK described in Section 02806 - Remove Existing Asphalt Surfacing, as shown on the Drawings and as directed by the ENGINEER.
- 3.1 CONCRETE HEADWALL w/TRASHRACK (Pay Item No. 3302.1) PRICE BASED ON QUANTITY, EACH
- A. Concrete Headwall w/Trashrack will be measured for payment per each, including all earth work, complete in place.
 - B. Payment for Concrete Headwall w/Trashrack will be made at the Unit Price named in the Bid Schedule under Pay Item No. 3302.3, which payment will constitute full compensation for all WORK described in Section 03302 – Concrete Structures, as shown on the Drawings and as directed by the ENGINEER.
- 3.2 CURB AND GUTTER, TYPE I (Pay Item No. 3303.2) PRICE BASED ON QUANTITY, LINEAR FOOT
- A. Curb and Gutter, Type I, will be measured for payment per linear foot actually installed, complete in place as shown on the Contract Documents. Measurements will be made along the face of the curb and will be continuous across catch basins.
 - B. Payment for Curb and Gutter, Type I, will be made at the Unit Price named in the Bid Schedule under Pay Item No. 3303.2, which payment will constitute full compensation for all work described in Section 03303 - Sidewalk, Curb and Gutter, as shown on the Drawings, and as directed by the ENGINEER.
- 3.3 VALLEY GUTTER (Pay Item No. 3303.3) PRICE BASED ON QUANTITY, LINEAR FOOT
- A. Valley Gutter will be measured for payment per linear foot actually installed, complete in place, as shown on the Contract Documents. Measurements will be made along flow line of gutter curb, and will be continuous across catch basins.
 - B. Payment for Valley Gutter will be made at the Unit Price named in the Bid Schedule under Pay Item No. 3303.3, which payment will constitute full compensation for all WORK described in Section 03303 – Sidewalk, Curb and Gutter, as shown on the Drawings, and as directed by the ENGINEER.

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- 3.4 REMOVAL OF CURB AND GUTTER (Pay Item No. 3304.1) PRICE BASED ON QUANTITY, LINEAR FOOT
- A. Removal of Curb and Gutter will be measured by the actual linear foot of concrete curb and gutter originally in place, removed and disposed of in accordance with the Contract Documents.
 - B. Payment for Removal of Curb and Gutter will be made at the Unit Price named in the Bid Schedule under Pay Item No. 3304.2, which payment will constitute full compensation for all WORK described in Section 03304 – Remove Existing Sidewalk, Concrete Slab or Curb and Gutter, as shown on the Drawings and as directed by the ENGINEER.
- 3.5 REMOVAL OF VALLEY GUTTER (Pay Item No. 3304.2) PRICE BASED ON QUANTITY, LINEAR FOOT
- A. Removal of Valley Gutter will be measured by the actual linear foot of concrete curb and gutter originally in place, removed and disposed of in accordance with the Contract Documents.
 - B. Payment for Removal of Valley Gutter will be made at the Unit Price named in the Bid Schedule under Pay Item No. 3304.2, which payment will constitute full compensation for all WORK described in Section 03304 – Remove Existing Sidewalk, Concrete Slab or Curb and Gutter, as shown on the Drawings and as directed by the ENGINEER.

END OF SECTION

SECTION 02709 – TOPSOIL, PART 2 – PRODUCTS, Article 2.1, MATERIALS, *revise the first sentence of paragraph C. to read:*

- C. Topsoil shall contain not less than 8%, or more than 20% organic matter by weight, as determined by loss-on-ignition of over-dried samples in accordance with ASTM T-6.

SECTION 02709 – TOPSOIL, PART 3 – EXECUTION, Article 3.1, CONSTRUCTION, *add the following:*

- F. No topsoil shall be placed on the slope, ditch or drainage swales areas unless these areas can be finish graded and seeded within 30 days of the date originally placed. Topsoil placed, but not finish graded or seeded within 30 days, will be deducted from payment until the topsoil has been rescarified, regraded and supplemented with additional topsoil as required to provide a smooth, well graded and scarified surface suitable for seeding, as determined by the ENGINEER. All additional topsoil required after 30 days of the original placement will not be measured for payment, but will be considered incidental to other WORK.

SPECIAL PROVISIONS

SECTION 02716 – STORM DRAINAGE PIPE REMOVAL and FILLING OF WATER PIPE

PART 1 - GENERAL

- 1.1 DESCRIPTION. The WORK under this Section includes providing all labor, tools and equipment necessary for removal and disposal of existing storm drainage within the Project limits designated for removal.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

- A. GENERAL. All storm drainage pipe, 6-inches or larger, shown on the Drawings for removal shall be removed and backfilled with suitable material to match the adjacent ground surface. Usable material from excavation shall be used as backfill. Disposal of the pipe shall be in accordance with these Specifications.

END OF SECTION

SECTION 02801 – ASPHALT CONCRETE PAVEMENT, PART 1 – GENERAL, Article 1.1, DESCRIPTION, *revise* paragraph B as follows:

- B. Asphaltic concrete mix for this Project shall be Type II-A, Class B. See Table 02801-1 and Table 02801-2.
- C. The grade of asphalt cement shall be PG 58-28

SECTION 02801 – ASPHALT CONCRETE PAVEMENT, PART 1 – GENERAL, Article 1.1, DESCRIPTION, *revise* TABLE 02801-1, ASPHALTIC CONCRETE MIX REQUIREMENTS, as follows:

<u>Design Parameters</u>	<u>Class A</u>	<u>Class B</u>
Voids in total mix, percent	2.5 – 4.0	2.5 – 4.0%
Percent oil content	6.0 – 6.8	6.0 – 6.8%

SECTION 02801 – ASPHALT CONCRETE PAVEMENT, PART 2 – PRODUCTS, Article 2.1, COMPOSITION OF ASPHALT CONCRETE MIXTURES – JOB MIX DESIGN, paragraph C., *delete* subparagraph 6 and *replace* with the following:

6. The mix design shall be 50 blow Marshall Method.

SECTION 02801 – ASPHALT CONCRETE PAVEMENT, PART 3 – EXECUTION, Article 3.2, EQUIPMENT, *add* the following:

- F. Sidewalks shall be paved with a pull box-type paver, as manufactured by Layton manufacturing Co., or similar equipment. Heavy, self-propelled laydown units that will place concentrated loading on curb and gutter sufficient to cause breakage, or other damage to the concrete, will not be permitted.

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SECTION 02801 -- ASPHALT CONCRETE PAVEMENT, PART 3 – EXECUTION, Article 3.10, JOINTS, *add the following paragraph:*

- J. All joints with existing asphalt pavement shall be resealed with asphalt cement after the new pavement has cooled to ambient temperature. All joints with concrete gutters found to have a gap shall be blown out using a weed burner torch, filled with asphalt cement and covered with a layer of dry sand. Excess sand shall be removed and asphalt cement placed on the concrete gutter more than one-inch from the edge of gutter shall be removed using solvent or other approved methods.

SECTION 02801 – ASPHALT CONCRETE PAVEMENT, PART 3 – EXECUTION, Article 3.13, Acceptance Sampling and Testing, *add the following paragraphs:*

- K. For each lot of asphalt pavement produced, at least two (2) samples shall be taken by the CONTRACTOR for purposes of acceptance testing by the OWNER. The CONTRACTOR shall split the sample with the OWNER to retain a portion for their use. The sample shall be taken according to proper sampling methods, from the asphalt pavement on the grade.
1. Based on the averaged results of the acceptance testing, a deduction from the asphalt pavement pay item may be made at the following amounts:
#200 Sieve: the greater of either 1.0% the contract price for asphalt pavement placed within the sampled lot or \$500 per each 0.1% outside the job mix design tolerance, not exceeding 6% maximum, of the percent passing the #200 sieve.
 2. Asphalt Content: the greater of either 1.0% the contract price for asphalt pavement placed within the sampled lot or \$500 per each 0.1% outside the allowable job mix design asphalt content tolerance. The allowable asphalt content tolerance for this Contract shall be +/- 0.4% of the target job mix design asphalt content and shall not exceed the asphalt oil content limits specified in this Contract.
 3. The pay deductions for exceeding the job mix design tolerances does not constitute acceptance of a mix that does not meet the specifications. Further acceptance testing will be performed to determine if the asphalt pavement specifications have been met. No payment for asphalt pavement will be made for asphalt pavement exceeding job mix design tolerances, or not meeting asphalt pavement specifications, until additional testing determines whether the asphalt pavement meets all other specifications.
 4. For the purposes of this Contract, one lot of asphalt pavement is defined as 500 tons, or a single day's asphalt pavement production of at least 100 tons.

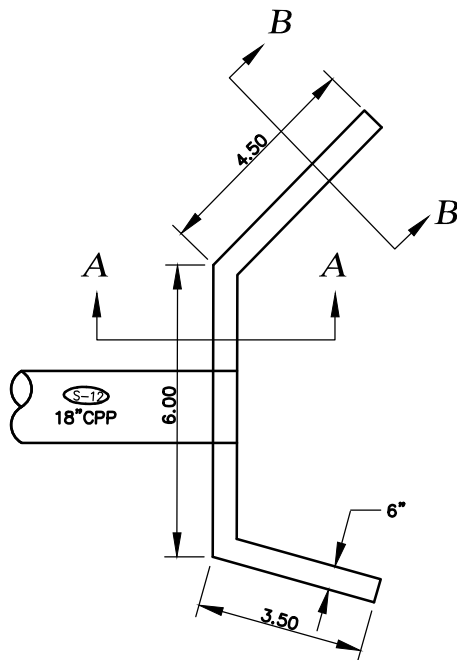
SECTION 03303 – SIDEWALK, CURB AND GUTTER, PART 2 - PRODUCTS, Article 2.1, MATERIALS, *revise paragraph B. to read:*

- B. Synthetic fibers shall be used for reinforcement with curb and gutter and concrete sidewalk replacements, except a 6-foot length of No. 4 reinforcing bar shall be centered across catch basins centered in the curb. Except as described above, reinforcing steel or wire mesh shall not be used unless approved by the

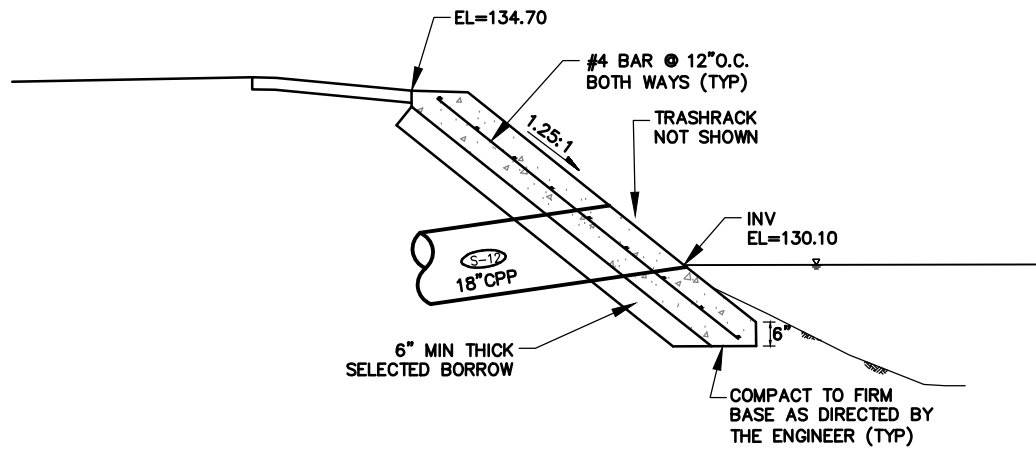
SPECIAL PROVISIONS

ENGINEER. Sidewalks shall utilize Fibermesh 150, or approved equal. Curbs, gutters and driveways shall utilize a fibrillated product, Fibermesh 300, or approved equal. Application rates of both products shall be at least 1.5 pounds per cubic yard of concrete. Fibermesh shall be as manufactured by “SI Concrete Systems,” or approved equal.

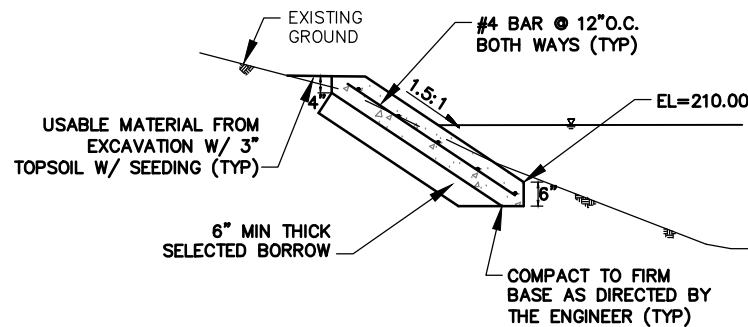
END OF SPECIAL PROVISIONS



PLAN
NTS

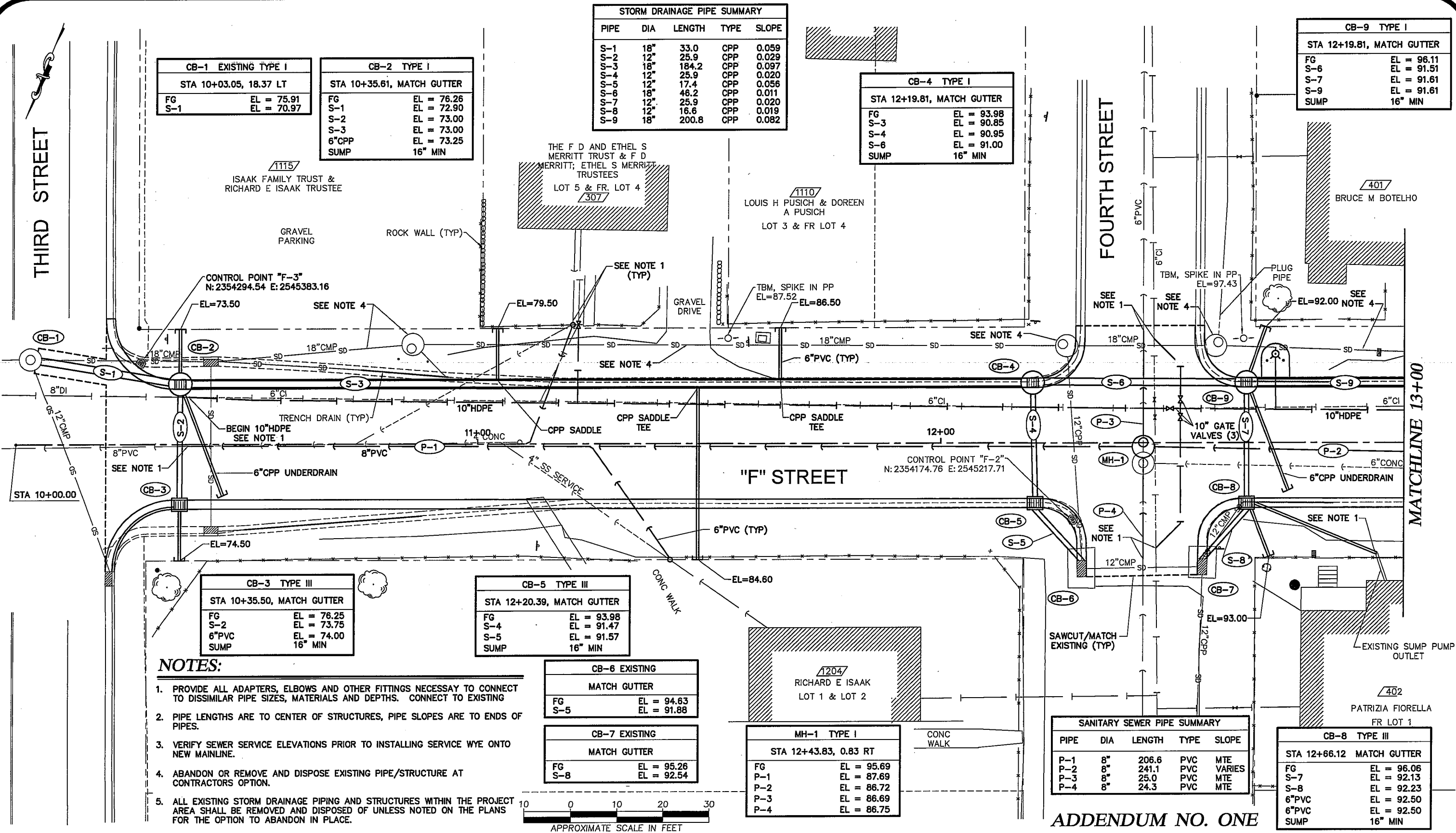


SECTION A-A
NTS



SECTION B-B
NTS

F STREET RECONSTRUCTION
CONTRACT NO. BE17-215
HEADWALL DETAIL
ADDENDUM NO. ONE



STORM DRAINAGE PIPE SUMMARY				
PIPE	DIA	LENGTH	TYPE	SLOPE
S-1	18"	33.0	CPP	0.059
S-2	12"	25.9	CPP	0.029
S-3	18"	184.2	CPP	0.097
S-4	12"	25.9	CPP	0.020
S-5	12"	17.4	CPP	0.056
S-6	18"	46.2	CPP	0.011
S-7	12"	25.9	CPP	0.020
S-8	12"	16.6	CPP	0.019
S-9	18"	200.8	CPP	0.082

CB-4 TYPE I	
STA 12+19.81, MATCH GUTTER	
FG	EL = 93.98
S-3	EL = 90.85
S-4	EL = 90.95
S-6	EL = 91.00
SUMP	16" MIN

CB-9 TYPE I	
STA 12+19.81, MATCH GUTTER	
FG	EL = 96.11
S-6	EL = 91.51
S-7	EL = 91.61
S-9	EL = 91.61
SUMP	16" MIN

CB-1 EXISTING TYPE I	
STA 10+03.05, 18.37 LT	
FG	EL = 75.91
S-1	EL = 70.97

CB-2 TYPE I	
STA 10+35.61, MATCH GUTTER	
FG	EL = 76.26
S-1	EL = 72.90
S-2	EL = 73.00
S-3	EL = 73.00
6"CPP	EL = 73.25
SUMP	16" MIN

CONTROL POINT "F-3"
N: 2354294.54 E: 2545383.16

CONTROL POINT "F-2"
N: 2354174.76 E: 2545217.71

CB-3 TYPE III	
STA 10+35.50, MATCH GUTTER	
FG	EL = 76.25
S-2	EL = 73.75
6"PVC	EL = 74.00
SUMP	16" MIN

CB-5 TYPE III	
STA 12+20.39, MATCH GUTTER	
FG	EL = 93.98
S-4	EL = 91.47
S-5	EL = 91.57
SUMP	16" MIN

CB-6 EXISTING	
MATCH GUTTER	
FG	EL = 94.63
S-5	EL = 91.88

CB-7 EXISTING	
MATCH GUTTER	
FG	EL = 95.26
S-8	EL = 92.54

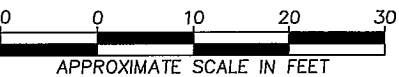
MH-1 TYPE I	
STA 12+43.83, 0.83 RT	
FG	EL = 95.69
P-1	EL = 87.69
P-2	EL = 86.72
P-3	EL = 86.69
P-4	EL = 86.75

SANITARY SEWER PIPE SUMMARY				
PIPE	DIA	LENGTH	TYPE	SLOPE
P-1	8"	206.6	PVC	MTE
P-2	8"	241.1	PVC	VARIES
P-3	8"	25.0	PVC	MTE
P-4	8"	24.3	PVC	MTE

CB-8 TYPE III	
STA 12+66.12, MATCH GUTTER	
FG	EL = 96.06
S-7	EL = 92.13
S-8	EL = 92.23
6"PVC	EL = 92.50
6"PVC	EL = 92.50
SUMP	16" MIN

NOTES:

1. PROVIDE ALL ADAPTERS, ELBOWS AND OTHER FITTINGS NECESSARY TO CONNECT TO DISSIMILAR PIPE SIZES, MATERIALS AND DEPTHS. CONNECT TO EXISTING
2. PIPE LENGTHS ARE TO CENTER OF STRUCTURES, PIPE SLOPES ARE TO ENDS OF PIPES.
3. VERIFY SEWER SERVICE ELEVATIONS PRIOR TO INSTALLING SERVICE WYE ONTO NEW MAINLINE.
4. ABANDON OR REMOVE AND DISPOSE EXISTING PIPE/STRUCTURE AT CONTRACTORS OPTION.
5. ALL EXISTING STORM DRAINAGE PIPING AND STRUCTURES WITHIN THE PROJECT AREA SHALL BE REMOVED AND DISPOSED OF UNLESS NOTED ON THE PLANS FOR THE OPTION TO ABANDON IN PLACE.



ADDENDUM NO. ONE

Revisions		
Date	Description	Intls.



Prepared by:
CITY AND BOROUGH OF JUNEAU
★ ALASKA'S CAPITAL CITY
ENGINEERING DEPARTMENT

F STREET RECONSTRUCTION
CONTRACT NO. BE17-215

PLAN - F STREET
B.O.P. TO STA 13+00
DATE: 6/14/17
DRAWN BY: STAFF
SCALE: AS SHOWN

SHEET:
7A of 9