SPECIFICATIONS

FOR

THE CITY OF FORT PIERRE

2017 CURB GUTTER AND SIDEWALK PROJECT

I hereby certify that these plans, specifications, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of South Dakota.

Richard A. Hahn, PE

Date 5/1/17

Registration No. 5821

CITY OF FORT PIERRE

FORT PIERRE, SOUTH DAKOTA

April 2017
The City of Fort Pierre

2017 CONCRETE PAVING PROJECT

Project No. 2017-CP01

Table of Contents

NOTICE OF CALL FOR BIDS ................................................................. 4
INFORMATION FOR BIDDERS ............................................................. 5
BID ........................................................................................................ 7
STANDARD CONTRACT DOCUMENTS ............................................... 11
CONTRACTOR’S RESPONSIBILITIES .................................................. 13
OWNER’S RESPONSIBILITIES .............................................................. 13
SPECIFICATIONS .............................................................................. 14
PROJECT LOCATION MAP ................................................................. 17
PROJECT PLAN VIEW-PROJECT 1 ...................................................... 18
PROJECT PLAN VIEW-PROJECT 2 ...................................................... 19
PROJECT PLAN VIEW-PROJECT 3 ...................................................... 20
PROJECT PLAN VIEW-PROJECT 4 ...................................................... 21
STANDARD DETAILS AND STANDARD PLATES .............................. 22
NOTICE OF CALL FOR BIDS

The City of Fort Pierre in Fort Pierre, South Dakota, will receive FIRM sealed bids at the City of Fort Pierre, 08 E 2nd Ave, Fort Pierre, South Dakota, 57532, until 3:00 PM CDT, Thursday, May 11, for the “2017 CURB GUTTER AND SIDEWALK PROJECTS” for the City of Fort Pierre.

Plans and Specifications are on file at Fort Pierre City Hall, 08 E 2nd Ave., Fort Pierre South Dakota 57532, and a hard copy may be obtained for a refundable cost of $50.00 less postage and handling. Plans may also be obtained in PDF form by email by sending an Email to R.Hahn@fortpierre.com or by downloading from the city website. For Contractors who are resident in South Dakota who intend, in good faith, to bid upon the project one copy of Plans and Specifications shall be furnished, without charge, in accordance with South Dakota Codified Law 5-18B-1.

The City of Fort Pierre reserves the right to accept or reject any or all BIDS, to waive any informality in the BID received and to accept the BID that is to the advantage of, and in the best interest of the City of Fort Pierre.

Each bid must contain a certified check, a Cashier’s check or Draft, for five percent (5%) of the amount of the bid; such check to be certified or issued by either a State or National Bank and payable to the City of Fort Pierre or in lieu thereof a Bid Bond for Ten percent (10%) of the amount of this bid, such bond to be issued by a Surety authorized to do business in the State of South Dakota and payable to the City of Fort Pierre as a guarantee that such bidder will enter into a contract with said the City of Fort Pierre, thereof in accordance with the terms of such letting and bid in case such bidder is awarded the contract. The Certified Check or other guarantee, or bid bond of the successful bidder, will be returned to him forthwith upon the execution of the contract and surety hereafter provided for. The Contractor shall also provide proof of liability insurance and workman’s compensation insurance.

Bids shall be marked "2017 CURB GUTTER AND SIDEWALK PROJECTS" and sealed. The City of Fort Pierre requests one (1) Original Bid and one (1) copy. Bids may be mailed to the City of Fort Pierre, P.O. Box 700, Fort Pierre, South Dakota, 57532 or hand delivered to the Office of the Finance Officer, 08 East 2nd Ave., Fort Pierre, South Dakota 57532.

By order of the City of Fort Pierre City Council, dated this 6th day of March, 2017.

______________________________
Roxanne Heezen, City Finance Officer

INFORMATION FOR BIDDERS

BIDS will be received by the City of Fort Pierre City Council (hereinafter called the "OWNER"), at the Office of the City of Fort Pierre Finance Officer until 3:00 PM CDT, Thursday May 11, 2017 and then at said office publicly opened and read aloud.

Each BID must be submitted in a sealed envelope, addressed to the City of Fort Pierre Finance Office at 08 E. 2nd Avenue, Fort Pierre, South Dakota 57532. Each sealed envelope containing a BID must be plainly marked on the outside as BID for "2017 CURB GUTTER AND SIDEWALK PROJECTS" and the envelope should bear on the outside the name of the BIDDER, his address, his license number if applicable and the name of the project for which the BID is submitted. If forwarded by mail, the sealed envelope containing the BID must be enclosed in another envelope addressed to the OWNER at P.O. Box 700, Fort Pierre, South Dakota, 57532.

All BIDS must be made on the required BID form. All blank spaces for BID prices must be filled in, in ink or typewritten, and the BID form must be fully completed and executed when submitted. One original BID form and one (1) copy are required.

The OWNER may waive any informalities or minor defects or reject any and all BIDS. Any BID may be withdrawn prior to the above scheduled time for the opening of BIDS or authorized postponement thereof. Any BID received after the time and date specified will not be considered. No BIDDER may withdraw a BID within 30 days after the actual date of the opening thereof. Should there be reasons why the contract cannot be awarded within the specified period, the time may be extended by mutual agreement between the OWNER and the BIDDER.

BIDDERS must satisfy themselves of the accuracy of the estimated quantities in the BID Schedule by examination of the site and a review of the drawings and specifications including ADDENDA. After BIDS have been submitted, the BIDDER will not assert that there was a misunderstanding concerning the quantities of WORK or of the nature of the WORK to be done.

The OWNER will provide to BIDDERS prior to BIDDING, all information that is pertinent to, and delineates and describes, the land owned and the rights-of-way acquired or to be acquired.

The CONTRACT DOCUMENTS contain the provisions required for the construction of the PROJECT. Information obtained from an officer, agent, or employee of the OWNER or any other person will not affect the risks or obligations assumed by the CONTRACTOR or relieve him from fulfilling any of the conditions of the contract.

Each BID must be accompanied by a BID bond payable to the OWNER for ten (10%) percent of the total amount of the BID. As soon as the BID prices have been compared, the OWNER will return the BONDS of all except the three lowest responsible BIDDERS. When the Agreement is executed the bonds of the two remaining unsuccessful BIDDERS will be returned. The BID BOND of the successful BIDDER will be retained until the payment BOND and performance BOND have been executed and approved, after which it will be returned. A certified check for five (5%) percent of the total amount of the BID may be used in lieu of a BID BOND.
A performance BOND and a payment BOND, each in the amount of one hundred (100%) percent of the CONTRACT PRICE, with a corporate surety approved by the OWNER, will be required for the faithful performance of the contract.

Attorneys-in-fact who sign BID BONDS and payment BONDS or performance BONDS must file with each BOND a certified and effective dated copy of their power of attorney.

The party to whom the contract is awarded will be required to execute the Agreement and obtain the performance BOND and payment BOND within fifteen (15) calendar days from the date when NOTICE OF AWARD is delivered to the BIDDER. The NOTICE OF AWARD will be accompanied by the necessary Agreement and BOND forms. In case of failure of the BIDDER to execute the Agreement, the OWNER may at his option consider the BIDDER in default, in which case the BID BOND accompanying the proposal will become the property of the OWNER.

The OWNER within thirty (30) days of receipt of acceptable payment BOND and performance BOND, and Agreement signed by the party to whom the Agreement was awarded will sign the Agreement and return to such party an executed duplicate of the Agreement. Should the OWNER not execute the Agreement within such period, the BIDDER may by WRITTEN NOTICE withdraw his signed Agreement. Such notice of withdrawal will be effective upon receipt of the notice by the OWNER.

The NOTICE TO PROCEED will be issued within thirty (30) days of the execution of the AGREEMENT by the OWNER. Should there be reasons why the NOTICE TO PROCEED cannot be issued within such period, the time may be extended by mutual agreement between the OWNER and CONTRACTOR. If the NOTICE TO PROCEED has not been issued within the thirty (30) day period or within the period mutually agreed upon, the CONTRACTOR may terminate the Agreement without further liability on the part of either party.

The OWNER may make such investigations as he deems necessary to determine the ability of the BIDDER to perform the WORK, and the BIDDER will furnish to the OWNER all such information and data for this purpose as the OWNER may request. The OWNER reserves the right to reject any BID if the evidence submitted by, or investigation of, such BIDDER fails to satisfy the OWNER that such BIDDER is properly qualified to carry out the obligations of the AGREEMENT and to complete the WORK contemplated therein.

A conditional or qualified BID will not be accepted. Award will be made to the lowest RESPONSIBLE BIDDER. All applicable laws, ordinances, and the rules and regulations of all authorities having jurisdiction over construction of the PROJECT will apply to the contract throughout. Each BIDDER is responsible for inspecting the site and for reading and being thoroughly familiar with the CONTRACT DOCUMENTS. The failure or omission of any BIDDER to do any of the foregoing will in no way relieve any BIDDER from any obligation in respect to his BID.

| The Engineer/Owner is: | Richard A. Hahn, PE  
| Director of Public Works |
| Whose address is: | City of Fort Pierre  
|  
| PO Box700/08 e 2nd Ave  
| Fort Pierre, SD 57532 |
| Contacted Information: | Phone (605) 223-7690  
| Fax (605) 223-7693  
| Email: R.Hahn@FortPierre.com |
BID

Proposal of ________________ (hereinafter called "BIDDER"),
organized and existing under the laws of the State of ________________,
doing business as ________________*. To the City of Fort Pierre City
Council ______ (hereinafter called "OWNER").

* Insert "a Corporation", "a Partnership", or "an Individual", as applicable.

In compliance with your Advertisement for Bids, BIDDER hereby proposes to perform all
WORK for the construction of the "2017 CURB GUTTER AND SIDEWALK PROJECTS" in
strict accordance with the CONTRACT DOCUMENTS, within the time set forth therein, and at
the prices stated below.

By submission of this BID, each BIDDER certifies and in the case of a joint Bid, each party
thereto certifies as to his own organization, that this Bid has been arrived at independently,
without consultation, communication, or agreement as to any matter relating to this Bid with
any other BIDDER or with any competitor.

BIDDER hereby agrees to commence WORK under this contract on or before a date to be
specified in the NOTICE TO PROCEED and to fully complete the PROJECT by AUGUST 15,
2017. BIDDER further agrees to pay as liquidated damages the sum of $500.00 for each
consecutive calendar day thereafter.

BIDDER acknowledges receipt of the following addendums:

__________________________________________

__________________________________________

NOTE: BIDS will include sales tax and all other applicable taxes and fees.

BIDDER agrees to perform all the work described in the SPECIFICATIONS for the following
unit prices:
# BID SCHEDULE – 2017 CURB GUTTER AND SIDEWALK PROJECTS

## PROJECT 1 – CASEY TIBBS ST.

<table>
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<th>UNIT</th>
<th>UNIT PRICE</th>
<th>EXTENDED PRICE</th>
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**CONTRACT TOTAL:**

## PROJECT 2 – WANDELL AVE.

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<td>CURB AND GUTTER NEW</td>
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<td>SIDEWALK – 4”</td>
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**CONTRACT TOTAL:**

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8
### PROJECT 3 – LAFRAMBOISE ST.

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**CONTRACT TOTAL:**

### PROJECT 4 – DEPOT/FORT VOLUNTEER PARKING LOT

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**CONTRACT TOTAL:**
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<tr>
<td>SIDEWALK NEW</td>
<td>100.0</td>
<td>SY</td>
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</table>

**CONTRACT TOTAL:**

Bidder is aware quantities may be adjusted to accommodate changes in scope of work.

The Bidder is aware that Owner has the right to select any combination of projects or may reject all projects.

Respectfully submitted by: __________________________________________

Signature: ___________________________ Address: _______________________

Title: ______________________________ City, State, Zip: __________________

License Number (If Applicable)

(SEAL * If BID is by a Corporation)

ATTEST
STANDARD CONTRACT DOCUMENTS

Standard contract documents are in a separate package labeled “Standard Contract Documents and are available upon request or may be viewed and downloaded from the City website.

STANDARD AGREEMENT

The Agreement used for City of Fort Pierre projects will be the STANDARD FORM OF AGREEMENT BETWEEN OWNER AND CONTRACTOR ON THE BASIS OF A STIPULATED PRICE prepared by the Engineer’s Joint Contract Committee (Form 1910-08A1 – 1996 Edition) as modified for this project. Copies are available upon request and are available for download from the Fort Pierre City Website.

STANDARD GENERAL CONDITIONS

The standard General Conditions for this project is the STANDARD GENERAL CONDITIONS OF THE CONSTRUCTION CONTRACT prepared by the Engineer’s Joint Contract Committee (Form 1910-08 – 1996 Edition) as modified as indicated below. Copies are available upon request and are available for download from the Fort Pierre City Website.

Amendments to the Standard General Conditions are as follows:

Arbitration will not be utilized to settle disagreements. In lieu of arbitration, both parties are to negotiate a final settlement to any disagreements resulting from performance of the Contract. If no settlement can be reached after fully exhausting all efforts, the matter will be resolved by the District Court with jurisdiction over this matter.

OTHER CONTRACT DOCUMENTS

Other contract documents such as Notice of Award, Bid Bond form, Performance Bond form, Notice to Proceed and Construction Change Order are in the package “Standard Contract Documents”.

11
SPECIAL CONDITIONS

SC-1 EXAMINATION OF SITE: Before bidding the work, each contractor will inform themselves fully as to all site conditions and local regulations.

SC-2 WORK INCLUDED IN THE CONSTRUCTION CONTRACT: The work to be included in this contract includes all labor and materials that are necessary for and reasonably incidental to the completion of all the new construction, as shown and specified in the plans and specifications.

SC-3 STORAGE OF MATERIALS: The Contractor may not store materials on the site due to the residential location of the project. The Contractor may store materials in the City of Fort Pierre yard or at another designated location. The Contractor is responsible for all of the materials stored until all work on the project is completed and the finished project is in the full possession of the Owner.

SC-4 SAFETY EQUIPMENT: Precautions will be exercised at all times for the protection of all persons and property. All Federal Safety Standards and City Regulations will be abided by and enforced by the National Health and Safety Act. All safety precautions will be exercised and carried out in such a manner so as to not make the Owner and Engineer negligent at all times.

SC-5 SAMPLES REQUIRED: Any and all samples will be furnished by the Contractor to the Engineer/Owner as requested.

SC-6 PAYMENT FOR MATERIALS: The Contractor will be paid the measured Quantity for materials unless prior written approval is received from the City or its agent. The Measured Quantities are based on lengths, widths, and depths or rates indicated on the “Estimate of Quantities”. Changes in project parameters (length, width, depth/rate) approved in the field shall be relayed to the Contractor in written form. Agreed upon changes to the project parameters will then determine the payment quantity, not the Contractors scale tickets or other quantity documentation.

SC-7 CONTRACTOR COORDINATION: Contractor shall be aware that there may be other projects proceeding in the same area as this project. Coordination between projects may be necessary to facilitate project completion.

SC-8 UNIT PRICES AVAILABLE FOR ADDITIONAL PROJECTS: The Contractor shall be aware that other projects may become ready for paving during the project time and may utilize the unit prices of this project upon written request and agreed upon by Contractor.
CONTRACTOR'S RESPONSIBILITIES

- The Contractor shall ensure that the foreman on the project site and each subcontractor shall have a set of plans on site during any construction activities. The Engineer/Owner will have the authority to stop construction activities if the Contractor does not have plans and reasonable supervision on site during any construction activities.

- It shall be the Contractor's responsibility to coordinate work with other Contractors working nearby.

- The Contractor shall coordinate work to complete the individual projects prior to placement of the selected pavements for each project location. Contractor will be required to coordinate activities with City and pavement contractors.

- All work is completed in residential neighborhoods, therefore all work sites shall be maintained, including: trash picked up at the end of each day, no blocking of driveways, and no working between the hours of 7:00 PM and 7:00 AM, Monday thru Friday. Work on Saturday is permitted from 8:00 AM to 5:00 PM. No work is permitted on Sunday.

- The Contractor shall provide all necessary signing and flaggers to direct traffic through construction zones. The Contractor shall close only the project street to through traffic.

- Contractor is to remove the damaged curb and gutter as indicated, prepare the underlying base and replace the curb and gutter as directed.

- Contractor is to trim and fine grade the granular base material on all new curb and gutter placement.

- Concrete splattered on roadway appurtenances or adjacent private landowner possessions shall be satisfactorily cleaned off by the Contractor.

- **It shall be the Contractor's responsibility to notify the City at least 10 days in advance of when they plan to begin work. Prior to blocking or closing a driveway, the contractor shall also provide a notice of construction to all residents affected a minimum of 3 days.**

OWNER'S RESPONSIBILITIES

- The Owner shall request any samples and provide sample containers when required.

- The Owner or its Agent shall complete all inspection during construction.

- For new curb and gutter, the Owner shall have all existing asphalt or chip sealed pavement and curb and gutter removed and base prepared and slightly overfilled prior to the contractor beginning work.
SPECIFICATIONS

The work on portions of these projects will consist of replacement of damage curb and gutter, installation of new curb and gutter and installation of sidewalks and flatwork on prepared granular base material. This project will also include all incidentals, equipment, labor and fuel to complete the above items. All work will follow the Standard Specifications for Roads and Bridges, 2015 edition of South Dakota Department of Transportation and any supplemental specifications thereto adopted. The Specifications will be modified as follows:

SURFACE PREPARATION

The work shall include the removal of damaged curb and gutter, overexcavate and install and compact granular base material prior to installing curb and gutter. The work will also require the trim and fine grade granular base prepared by others prior to installing new curb and gutter, sidewalk and Driveway Apron.

TRAFFIC CONTROL

1. The Contractor shall provide Traffic Control Devices to completely close the project road. Additional traffic control required to coordinate public traffic and construction traffic.

2. Removing, relocating, covering, salvaging and resetting of the traffic control devices, including delineation, shall be the responsibility of the Contractor. Cost for this work shall be incidental to the contract unit prices for the various items unless otherwise specified in the plans. Any delineators and signs damaged or lost shall be replaced by the Contractor at no cost to the Owner.

3. Storage of vehicles and equipment shall be at locations designated by the Owner and shall not block access to residential properties outside of the work zone. Indiscriminate driving and parking of vehicles within the right-of-way will not be permitted. Any damage to the adjacent properties, surfacing, prepared base, delineators and existing signs resulting from such indiscriminate use shall be repaired and/or restored by the Contractor, at no expense to the Owner, and to the satisfaction of the Engineer.

UTILITIES

The Contractor shall contact the involved utility companies through South Dakota One Call (1-800-781-7474) prior to starting work. It shall be the responsibility of the Contractor to coordinate work with the utility owners to avoid damaged to existing facilities.

Utilities are not planned to be affected on this project. If utilities are identified near the improvement area through the SD One Call Process as required by South Dakota
Codified Law 49-07A and Administrative Rule Article 20:25, the Contractor shall contact the Project Engineer to determine modifications that will be necessary to avoid utilities.

**CURB AND GUTTER REMOVAL**

The bid item curb and Gutter Removal shall consist of cutting the existing curb and gutter where indicated in the field in straight and clean cuts thru the existing curb and gutter and remove and dispose of the concrete rubble at an approved rubble site. Excavate to a depth of six (6) inches below the bottom of the new curb and for width of 12” behind the new curb location to 6” in front of the new curb. If present saw cut, remove and dispose of pavement as necessary to perform work.

**CURB AND GUTTER REPLACEMENT**

The bid item Curb and Gutter Replacement shall include the Placement and compaction of owner provided granular base material to the proper elevation and construction of the Curb and Gutter. The unit price for Curb and Gutter Replacement shall include the construction of Type B66 Curb and Gutter, Type P6 Curb and Gutter and tapered Curb and Gutter. Driveway openings will be marked at the start of the tapered Curb and Gutter and end at the end of the opposite tapered Curb and Gutter. Curb and Gutter forming a future ADA ramp will be measured and paid as Curb and Gutter Replacement. The new curb and gutter will be measured for payment along the back of curb.

**CURB AND GUTTER NEW**

The bid item Curb and Gutter New shall include the trimming and fine grading the in place granular base material to the proper elevation and construction of the new Curb and Gutter. The unit price for Curb and Gutter New shall include the construction of Type B66 Curb and Gutter, Type P6 Curb and Gutter and tapered Curb and Gutter. Driveway openings will be marked at the start of the tapered Curb and Gutter and end at the end of the opposite tapered Curb and Gutter. Curb and Gutter forming a future ADA ramp will be measured and paid as Curb and Gutter Replacement. The new curb and gutter will be measured for payment back of curb.

**DRIVEWAY APRON**

The bid item Driveway Apron shall include the trimming and fine grading of the existing granular base and installing 6” concrete apron including the curb tapers extending 5 feet from the new curb and gutter. The driveway aprons shall be reinforced with #4 reinforcing bars at maximum spacing of 18” o.c. reinforcing bars shall be centered vertically and placed no closer than 2” clear from side forms. The cost of the reinforcing shall be included in the unit price of Driveway Apron. Contraction joints shall be cut at a maximum spacing equal to width of the apron but not to exceed 12 feet.

**CONCRETE SIDEWALK**

The bid item Concrete Sidewalk shall include the trimming and fine grading the existing granular base and installation of 4” thick reinforced concrete sidewalk. The width of the concrete sidewalk shall be as indicated. The bid item Concrete sidewalk shall also
include larger slabs of 4" reinforced concrete in Fort Volunteer to the dimensions indicated. Concrete sidewalks shall be reinforced with #4 reinforcing bars at maximum spacing of 18" o.c. reinforcing bars shall be centered vertically and placed no closer than 2" clear from side forms. The cost of the reinforcing shall be included in the unit price of Concrete Sidewalk. Contraction joints shall be cut at a maximum spacing equal to width of the sidewalk but not to exceed 12 feet.

JOINT SAW AND SEAL

The Joints in curb & gutter shall be sawn in accordance with standard detail as soon as the concrete has hardened sufficiently to prevent spalling of joint when sawed, but no later than 24 hours from time of placement of concrete pavement. Joints are to be cleaned and sealed in accordance with standard detail within 48 hours of being sawed and prior to traffic any traffic permitted on pavement. The construction joint between the curb and gutter and sidewalk or Driveway Apron is to be sawed if necessary and sealed. The cost of joint sawing and sealing shall be incidental to other bid items.

VARIOUS LOCATIONS – PROJECT 5

The various locations for project 5 may include but not limited to the following:

300 block 4th Ave. East - approximately 60 LF B66 & P6 curb and curb tapers

100 block 7th Ave East – approximately 40 LF B66 & P6 curb and curb tapers

Courthouse/Dakotamart Alley – Approximately 520 LF B66 & P6 Curb and Curb Tapers

School Alley – approximately 800 LF B66 & P6 Curb and Curb Tapers
ESTIMATE OF QUANTITIES

PAVING (ASPHALT OR CONCRETE) .................. 1157.6 SY
CURB AND GUTTER (INCLUDES P6 & B66) .......... 245.9 LF
DRIVEWAY APRON (INCLUDING TAPER) ............. 32.6 SY
PROJECT PLAN VIEW-PROJECT 3

LA FRAMBOISE DRIVE PROJECT

ESTIMATE OF QUANTITIES

PAVING (ASPHALT) ........................................... 906.0 SY
CURB AND GUTTER (INCLUDES P6 & B66) .......... 104.4 LF
PROJECT PLAN VIEW-PROJECT 4

DEPOT/FORT VOLUNTEER PARKING LOT PROJECT

TRAIN DEPOT MUSEUM

CASEY TIBBS SPINNER & BASE

564.8 LF BL66 AND PL6 CURB & GUTTER AND BUMP OUT

1111 SY ASPHALT PRIME ALONG NEW CURB

488.3 SY SIDEWALK (7 FT & 5 FT) AND BUMP OUT

174.4 SY SIDEWALK VARIOUS WIDTHS IN & OUT OF FORT VOLUNTEER

ESTIMATE OF QUANTITIES

CONCRETE SIDEWALK ........................................ 642.7 SY
CURB AND GUTTER (INCLUDES PL6 & BL66) ........ 584.8 LF
STANDARD DETAILS AND STANDARD PLATES

The stated radii on the plans and cross sections refer to this line and it shall also be the basis for horizontal linear foot measurement and payment.

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GENERAL NOTES:

When concrete curb and gutter longitudinally adjoins new concrete pavement, the method of attachment shall be by one of the methods shown on Standard Plate 380.11.

See Standard Plate 650.90 for expansion and contraction joints in the curb and gutter.

September 6, 2008
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TRANSVERSE SECTION

- Type P Concrete Gutter Limits
- Approach and/or Driveway

Limits of payment for Concrete Curb and Gutter

Width of Type P Concrete Gutter

Limits of payment for Concrete Curb and Gutter

1/2" Preformed Expansion Joint Filler

Concrete Curb Taper (See Standard Plate 650.35)

1/2" Preformed Expansion Joint Filler

* Joint will not be needed if concrete curb and gutter and Type P concrete gutter is placed at the same time. If the 1/2" Preformed Expansion Joint Filler is provided, then the joint shall be sealed in accordance with Standard Plate 650.90.

GENERAL NOTES:

The concrete for the Type P Concrete Gutter shall comply with the requirements of the Specifications for Class M6 Concrete.

When concrete gutter longitudinally adjoins new concrete pavement, the method of attachment shall be by one of the methods shown on Standard Plate 380.11.

Transverse contraction joints shall be constructed at 10' intervals in the concrete gutter except when concrete gutter is constructed adjacent to mainline PCC pavement. When concrete gutter is constructed adjacent to mainline PCC pavement, a transverse contraction joint shall be constructed in the concrete gutter at each mainline PCC pavement transverse contraction joint location.

When concrete gutter is placed monolithically with mainline PCC pavement, the transverse contraction joints in the concrete gutter shall be sawed and sealed the same as the transverse contraction joints in the mainline PCC pavement.

When concrete gutter is not placed monolithically with the mainline PCC pavement and when the adjacent mainline surfacing is not PCC concrete, the transverse contraction joints in the concrete gutter shall be 1/2 inches deep if formed in the fresh concrete using a suitable grooving tool. If a saw is used to cut the contraction joints, then the depth of the joint shall be at least 1/4 the thickness of the concrete.
End and theoretical elevation of top of curb and gutter shown on plans and cross sections.

Curb Transition

8.33% (1" per Ft.)

Top of Curb

Height of Curb

Gutter Line

LONITUDINAL SECTION OF CONCRETE CURB TAPER
* The silicone sealant shall be placed such that it completely seals the joint and is bonded to the sides of the clean joint as approved by the Engineer.
SECTIONAL VIEW
(Curb and Gutter at ¥\frac{1}{2}'' Preformed Expansion Joint Filler Location)

* The silicone sealant shall be placed such that it completely seals the joint and is bonded to the sides of the clean joint as approved by the Engineer.

GENERAL NOTES:
For illustrative reason, only the type B curb and gutter is shown.

** A ¥\frac{1}{2}'' preformed expansion joint filler shall be placed transversely in the curb and gutter at the following locations:

1. At each junction between the radius return of curb and gutter and curb and gutter which is parallel to the project centerline.
2. At each junction between new curb and gutter and existing curb and gutter.

Transverse contraction joints shall be constructed at 10' intervals in the concrete curb and gutter except when the concrete curb and gutter is constructed adjacent to mainline PCC pavement. When concrete curb and gutter is constructed adjacent to mainline PCC pavement, a transverse contraction joint shall be constructed in the concrete curb and gutter at each mainline PCC pavement transverse contraction joint location.

When concrete curb and gutter is not placed monolithically with the mainline PCC pavement or when the adjacent mainline surfacing is not PCC concrete, the transverse contraction joints in the concrete curb and gutter shall be ¥\frac{1}{2}'' inches deep if formed in the fresh concrete using a suitable grooving tool. If a saw is used to cut the contraction joints, then the depth of the joint shall be at least ¥\frac{1}{4}'' the thickness of the concrete and the joint shall be sealed in accordance with the details shown above.

September 6, 2013

Published Date: 1st Qtr. 2017

Joints in Concrete Curb and Gutter
City of Ft. Pierre

Road Closed
Type III Barricades

Guides for Traffic Control Devices
Special

<table>
<thead>
<tr>
<th>Posted Speed Prior to Work (MPH)</th>
<th>Spacing of Advance Warning Signs (Feet)</th>
<th>Taper Length (Feet)</th>
<th>Spacing of Channelizing Devices (Feet)</th>
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<td>180</td>
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<td>35 - 40</td>
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- Channelizing Devices
Drums or Type II Barricades shall be used.
The signs illustrated are not required if the work zone is more than 2 feet behind the shoulder, 15 feet or more from the edge of any roadway, or more than 2 feet behind the quarterly stop.