

**CITY OF SAUSALITO**  
420 Litho Street, Sausalito, CA 94965

**Addendum No. 3**

Issued **July 17, 2020**

**For**  
**2020 Sausalito Streets Rehabilitation Project**  
**Bee Street and Bonita Street**

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**NOTICE TO ALL PLAN HOLDERS SUBMITTING BIDS FOR THIS WORK:**

**You are hereby notified of the following information, changes, clarifications or modifications to the original Contract Documents, Project Manual, Drawings, Specifications and subsequent Addenda. This Addendum shall supersede the original Contract Documents and previous Addenda wherein it contradicts the same and shall take precedence over anything to the contrary therein. All other conditions remain, UNCHANGED.**

**This Addendum is hereby made a part of the Contract Documents to the same extent as though it were originally included therein.**

**Bid Opening Date has been extended.** Notice is hereby given that sealed bids will be received by the City of Sausalito (City) no later than 2:00PM local time on Thursday July 23, 2020.

**Revision:**  
**Specifications:**

**Section 10-11 CONCRETE ROADWAY REMOVAL.**

In the third paragraph, **replace third sentence with the following:**

“The contractor shall assume the existing pavement thickness is 6 inches for the roadway and 6 inches for sidewalk.”

**Section 10-18 CONCRETE ROADWAY REMOVAL.**

Under “Concrete Improvements” **Delete the following:**

“New concrete sidewalk and concrete driveway shall match existing concrete sidewalk and concrete driveway. Existing concrete sidewalk and concrete driveway shall be seeded with Mexican Pebbles. Contractor shall provide 12-inchx12-inch exhibit of concrete with Mexican Pebbles for review and approval prior to installation of new concrete sidewalk and concrete driveway.”

**Section 10-32 SEWERAGE FLOW CONTROL.**

Add the following Section: “10-32 SEWERAGE FLOW CONTROL”

**10-32 SEWAGE FLOW CONTROL**

To complete the improvements as shown in the Contract documents, the Contractor will temporarily need to re-route sewage bypassing the work zone. The Contractor shall furnish all labor, materials, tools, equipment and supplies required to convey wastewater from a point upstream to a point downstream of the work.

**CONTRACTOR SUBMITTALS**

The Contractor shall submit the following to the Engineer, and receive favorable review prior to installation of sewage bypass equipment:

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- A. A plan for bypassing wastewater, which shall identify the type, size, and quantity of all service and standby pumps, motors, and power equipment; the type and size of all piping, fittings, and connections; the proposed location of bypass pumps and pipes; and the proposed schedule for bypass operation.
- B. A unique Emergency Action Plan for each bypass location. The plan shall include the restoring of normal sewage flows, resumption of the bypass pumping operation, and the reporting and clean-up of any spills.

**EXECUTION GENERAL**

- A. Flow in existing sewers shall not be dammed or otherwise restricted for any period without the approval of the Engineer. All wastewater facilities shall remain in continuous operation during construction.
- C. Bypassing of wastewater to surface water or drainage courses is prohibited.
- D. All pumps and piping shall be adequately sized to convey the flows anticipated at each bypass location. The bypass system shall be watertight; no leakage from bypass equipment, hoses, or pumps onto private property, gutters, streets, sidewalks, or into storm drains or creeks will be allowed.
- E. Prior to commencing bypassing operations at a particular location, all workers, materials, fittings, supports, equipment, and tools shall be staged at that location.

**TEMPORARY PUMPING**

- A. Bypassed sewage shall be contained in an enclosed hose or pipe and shall be redirected into the sanitary sewer system. Dumping, overland or open channel flow of sewage is strictly prohibited. Flushing of sewage from spills or from bypass equipment leakage into storm drains or creeks is also prohibited. Any spill or leakage shall be immediately contained and conveyed to a sanitary sewer or hauled to the Wastewater Treatment Plant without undue delay per the Contractor's Emergency Action Plan.
- B. Where bypass pipelines are required to cross traffic lanes, the piping and fittings shall be buried a minimum of four (4) inches below the pavement surface and backfilled with temporary asphalt concrete. This temporary trenches must be restored to existing or better condition and as approved by the Engineer.
- C. Temporary ramps may be constructed over pipelines six (6) inches in diameter, or less, to allow access to driveways. Pipelines larger than six (6) inches in diameter crossing driveways shall be buried a minimum of four (4) inches below the existing ground or pavement surface and backfilled with temporary asphalt concrete surfacing. No driveway access shall be blocked without the written authorization of the affected property owner.
- D. Air and vacuum relief valves shall be provided at the high point in each section of elevated piping.
- E. Pumped bypass systems shall be continuously monitored.
- F. After the work necessitating bypassing is completed, flow shall be restored to normal, all equipment shall be removed from the sewer system, and all pipes or structures modified or damaged during the bypass operations shall be restored to their original condition.

**Payment - "Sewer Bypass Pumping"** includes furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in bypass pumping including preparing submittals, plugging, bypass pumping, piping, temporary pipe trenching, traffic ramps where needed, surface restoration, protection of piping from traffic, power supply sound attenuation for equipment, temporary flow diversions, handling flows from laterals that are temporarily disconnected, restoration of sewer flows, monitoring of system, odor mitigation, completed and in place, as shown on the Plans, as specified in the Standard Specifications, these special provisions, and as directed by the Engineer.

**Full compensation for conforming to the requirements of this Section shall be considered as included in the prices paid for the various items of work and no separate payment will be made therefor.**

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**Section 10-33 SANITARY SEWER REHABILITATION.**

Add the following Section: "10-33 SANITARY SEWER REHABILITATION"

**10-33 SANITARY SEWER REHABILITATION**

The City prefers that the Contractor rehabilitate the sanitary sewer main using pipe bursting. However, it shall be the Contractor's option to use either open trenching or pipe bursting to rehabilitate the sanitary sewer mains in the locations as shown in the Plans, except in those locations that other approved methods are identified.

Prior to starting the construction, the Contractor shall clean and video inspect the existing sewer lines to verify the existing conditions within the pipe and the number and location of the sewer laterals. Based on the review of the existing sewer line video inspection, the Contractor shall determine if the method for replacement of the existing pipe can be completed by pipe bursting.

The Engineer and Contractor will meet to discuss the proposed rehabilitation strategy. The Engineer must approve the rehabilitation method before the Contractor begins work. If requested, the Contractor shall provide a DVD copy of the video inspection.

Prior to commencement of the approved sewer rehabilitation work, the Contractor shall prepare and submit for approval by the Engineer a staging plan to construct the sewer improvements that minimizes the amount of time any resident or property is without sewer service. The Contractor shall:

1. Provide advanced notification of sewer repairs to property owners as described elsewhere in these Special Provisions;
2. Personally contact a representative of each property before commencing work on the sewer lateral
3. Re-establish sewer service to the property within 8 hours of disruption
4. Sewer services shall be operational for all properties at the end of the workday for each interrupted service.

The Contractor shall be charged a penalty of \$2,500 per location, per day for every sewer service not re-established.

The Contractor shall implement bypass pumping as described in Section 10-32 SEWAGE FLOW CONTROL of these Special Provisions prior to beginning any rehabilitation work.

Materials

Pipe materials used for open trenching or pipe bursting shall be as follows:

- A. High Density Polyethylene Pipe (HDPE) shall be SDR-17 Extra High Molecular Weight, High Density Polyethylene PE 4170, Type III, Class B, Category 5, Grade P34 material as described in ASTM D1248, Cell Class PE345434c\*, D, or E (inner wall shall be white or light in color) per ASTM D3350. DriscoPlex by Performance Pipe or approved equal.

Pipe couplings and fitting used for open trenching shall be as follows:

- C. All fittings for PVC pipe shall conform to the requirements of ASTM D 2241. The ring groove and gasket ring shall be compatible with PVC pipe ends.
- D. The strength class of fittings shall be no less than the strength class of any adjoining pipe.
- E. PVC fittings shall, at a minimum, conform to the requirements of ASTM D 3034 as they apply to type SDR 26 PVC Sewer Pipe using an Elastomeric Gasket Joint in a bell and spigot assembly system. Rubber sealing gaskets shall meet the requirements of ASTM F 477.
- F. All PVC pipe entering or leaving a concrete structure shall have a rubber sealing gasket, as

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supplied by the pipe manufacturer, firmly seated perpendicular to the pipe axis, around the pipe banded and cast into the structure base or near the structure wall center as a water stop. Said water stop may also consist of a manhole coupling with rubber sealing rings cast into the structure base.

Banded couplings shall be used for joining of new pipe or repair of existing pipelines, only couplings as approved by the Engineer shall be allowed.

Open Cut Installation

Open Cut Trenching and backfill shall be per Section Error! Reference source not found. Error! Reference source not found. of these Special Provisions. The Contractor shall work from downstream to upstream. Once the Contractor completes the excavation, removes and disposes the old sewer pipe, he or she shall complete the following:

1. Sewer pipelines shall have a minimum wall-to-wall horizontal clearance of three (3) feet and a minimum vertical clearance of twelve (12) inches from all other improvements and utilities unless otherwise shown on the plans or as approved by the Engineer.
2. For main sewers and trunk sewers, the grade line shall be established by setting cut stakes and obtaining the Engineer's approval for cut sheets before trench excavation is started. During pipe installation, the Contractor shall continuously utilize an industrial-standard laser grade control system to confirm that the pipe is installed to the design grade, subject to the following requirements:
3. The Contractor shall provide a properly calibrated laser instrument and an operator who is qualified and trained in the operation of the particular laser instrument being used. The operator shall adhere to the provisions of the CalOSHA Construction Safety Orders regarding the use of laser equipment.
4. Laser control points shall be established bench marks or construction cut stakes identified on the Engineer's approved cut sheets.
5. Laser must contain a direct grade reading screen, which will allow the Inspector to verify the grade at all times.
6. Pipe shall not be laid when the Inspector determines that the condition of the trench is unsuitable.
7. If the sewer is to be laid in an area that is to be filled, and the cover prior to filling is less than the required minimum cover specified pipe material and type, the pipe shall not be laid until the area has been properly filled and compacted to a level at least equal to required minimum cover above the proposed pipe, unless otherwise authorized by the Inspector.
8. If field conditions in areas that are potentially unstable or subject to settlement warrant, the Inspector may require that the Contractor substitute a different pipe material/type for the pipe shown on the plans.
9. Pipe, fittings and appurtenances shall be carefully handled and protected against damage, impact shocks, and free fall. Pipe shall be stored in a manner which will protect it from damage at the trench site or elsewhere. The Contractor shall inspect each pipe and fitting prior to installation to determine that only undamaged material is installed.
10. Before placement of pipe in the trench, each pipe or fitting shall be thoroughly cleaned of any foreign substance and shall be kept clean at all times thereafter.
11. Sewer pipelines shall be laid upgrade from the point of connection to the existing sewer with the bell end at the upgrade end of each pipe length.
12. Non-marring slings shall be used for lowering each length of pipe into the trench (chains shall not be used). The pipe shall be laid on properly compacted bedding material as specified in Section. No blocking will be permitted and the pipe shall have full bearing for its entire length between bell holes excavated in said bedding material to prevent point loading at the bells or couplings and to allow for unobstructed assembly of all joints. Excavation shall be made as needed outside the normal trench section at field joints to permit adequate access to the joints for field connection operations and for application of coating on field joints. After jointing is completed, bell holes shall be backfilled with properly compacted bedding material, taking care not to damage, move, or lift the pipe from its bedding support.
13. Where it becomes necessary to modify the design pipe alignment to resolve conflicts with

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unforeseen obstructions or other causes, the Contractor shall propose a revised alignment to the Inspector who may allow installation per the revised alignment or may require that the revision be submitted to the Engineer for consideration. Such revision may be made by the deflection of joints, by the use of fittings or by forced bending of the pipe if permitted, however, in no case shall the deflection in the pipe or at any joint exceed the maximum deflection recommended by the pipe manufacturer.

14. Sewer pipes, branches, stubs, or other open ends which are not to be immediately connected, shall be plugged or capped.
15. The Contractor shall take all necessary precautions to prevent excavated or other foreign material from getting into the pipe during the laying operations. At all times when laying operations are not in progress and at the close of the day's work, the openings of all pipe and specials, whether in the trench or in storage, shall be protected with suitable bulkheads to prevent unauthorized access by persons, animals, water, or any undesirable substance.
16. The Contractor shall prevent the pipe from floating during and after its installation.

Installation by Pipe Bursting

The contractor shall burst the existing pipelines while maintaining the existing diameter. However, at the Contractor's options, those pipelines that are 6 inches in diameter can be increased to 8 inches.

The pipe bursting unit shall be designed to force its way through the existing pipe by fragmenting the material and compressing the debris into the surrounding soil as it progresses. The bursting unit shall be pneumatic and shall generate sufficient force to burst and compact the existing pipeline. The bursting tool shall be pulled through the existing pipeline with a winch. The new sewer pipe shall be connected to the bursting unit. The method of connection shall prevent damage to the pipe or exceed its tensile capacity. Provisions shall be made in the equipment to remotely start and stop the bursting unit.

The winch or pulling unit shall be operated to provide constant pull to the bursting unit in order that it may operate in an efficient manner with a minimum of recoil. It shall ensure directional stability in keeping the bursting unit in line. The winch shall be of the constant load type but shall be fitted with a direct reading load gauge to measure the winching load. It shall also be fitted with a device to automatically disengage when loading exceeds a preset maximum load. Contractor shall supply sufficient cable in one continuous length so that the pull may be continuous between winching points. The winch cable and cable drum shall be provided with safety cage and supports. The Contractor shall also provide a system of guide pulleys and bracing at each manhole to minimize contact of cable with the existing sewer between manholes. A nose cone shall be fixed to the first pipe or the head of the bursting unit and shall be fitted with a swivel attachment to reduce the twist transmission between the winch cable and nose cone. Supports to the trench sheet in the insertion trench shall remain completely separate for the pipe support system and shall be so designed that neither the pipe nor the winch cable shall be in contact with them at any time. Proper clearance shall be provided below the existing pipe to allow for the proper use of winch.

The Contractor shall field mark the proposed locations of excavations and contact Underground Service Alert prior to commencing work. The Contractor shall pothole to determine the precise location of all underground utilities that could be affected by the pipe bursting operation as described in Section of these Special Provisions. The Contractor shall determine if the presence of existing utilities could create a conflict with the proposed pipe bursting operation.

The Contractor shall be responsible for maintaining all flows within the system. He or she shall bypass the flows around those sections of pipe to be replaced, burst, or modified. Certain individual services and laterals within the project areas may also require bypassing during the pipe bursting operations. All bypass operations shall be as detailed in Section.

The size, location and method of excavation of all pits on site shall be determined prior to start of construction. The excavations shall be completed as required in Section of these Special Provisions. In considering locations for access pits, the Contractor shall consider the size of the sewer, locations of obstructions and services, pulling distances, traffic conditions, and locations of utilities and sewer laterals. When possible, intermediate access excavations can coincide with building service connection excavations

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or critical obstructions in the sewer. The locations of the excavation points should be such as to minimize disruption.

Insertion pits shall provide a minimum bending radius of 27 times the outside diameter of the HDPE pipe or greater and a maximum 4:1 back slope (one way insertion only) and a pit floor length of 12 times the pipe diameter. Pit width shall be 2 feet wider than the outside diameter of the pipe. A roller or rub shoe shall be installed at pipe entry to prevent pipe chatter as the pipe enters the existing line.

The Contractor shall locate, excavate, and expose all sewer laterals prior to commencing pipe bursting. After property owner notification and sewage bypass is established as required, the lateral shall be disconnected from the main prior to commencing the bursting operation.

The pipe shall be butt welded in accordance with ASTM D 2657-67. The connection shall be leak proof thermal butt joints. All fusing shall be done using tools recommended by the pipe supplier and approved by the Engineer. The fusing machine shall have hydraulic pressure control for fusing two pipe ends together. The ends of pipe shall be electrically heated and thermostatically controlled and shall contain a temperature gauge for monitoring temperature. The heating plate shall be subject to periodic inspection using a temperature stick to assure even heating.

The tensile strength of yield of the butt fusion joints shall not be less than the pipe. The Contractor shall test a specimen of pipe cut across the butt fusion joints in accordance with ASTM D638. Any material may be rejected for failure to meet any of the requirements of these Specifications. The acceptance of any deviation from these Specifications shall be subject to the approval of the Engineer. Joints between pipe sections shall be smooth on the inside and internal projection beads shall not be greater than 3/16 of an inch (5 mm). The internal bead shall be removed with a tool specifically designed for that purpose during the fusing process.

A copy of the required butt fusion parameters listed below shall be kept at the job site:

1. The temperature at the surface of the heating plate (the fusion temperature);
2. The pressure used to push the pipe against the heating plate;
3. The time when the pipe ends are in contact with the heating plate but no pressure is being applied (soak time);
4. The pressure used to push the pipe ends together after heating (the fusion pressure);
5. The time of application of this butt fusion pressure (fusion cooling time);
6. Allowable bead height and width range.

During excavation of insertion and reception pits, the Contractor shall observe the soil conditions to determine the appropriate equipment to burst the pipeline. The Contractor shall immediately notify the Engineer if soil conditions prohibit pipe bursting. The Contractor shall select the appropriate equipment for the conditions found.

Prior to pipe insertion, the Contractor shall confirm:

1. The existing manhole bases shall be prepared to receive the bursting unit prior to commencing operations.
2. All sharp edges shall be removed from the manhole or pipe where the bursting operation commences.
3. The Contractor shall prevent debris from entering the existing sewer pipeline downstream of the bursting operation.
4. The maximum pull length shall be limited to one reach at a time.
5. The pipe bursting operation shall be one continuous process. The pneumatic tool operation shall be simultaneously complimented by operation of the winch. As the bursting tool moves through the existing sewer main, the winch shall provide constant tension to the tool, keeping it in line with the pipe being replaced.

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6. The new sewer pipe shall be installed in a straight horizontal and vertical line with the crown of the new sewer pipe matching the crown of the existing sewer at the exit of the upstream manhole and the entrance into the downstream manhole regardless of the size and alignment of the existing pipe.
7. Lubrication shall be used if in the opinion of the Contractor it is necessary to ensure successful completion of the operation. The Contractor shall use a lubricant which is approved by the Engineer.

During pipe insertion, the Contractor shall:

1. The installation forces on the pipe shall be kept to a minimum. Maximum force applied shall not exceed the stress limits of the pipe
2. Where a device is employed to exert force on the rear of the inserted pipe lengths, the force applied to the inserted pipe shall be evenly distributed around the wall of the pipe.
3. The Contractor shall allow the new HDPE pipe to return to its original length and shape in the unstressed state and then trim the excess pipe in the manholes.

For work at intermediate manholes within the pipe bursting area, the contractor shall:

1. The existing manhole base shall be modified to accommodate the new pipe. Water tight gaskets shall be grouted into the existing concrete base. The gaskets shall be sized to accommodate the new pipeline. The pipe shall be cut in an approved manner to properly seal at the gasket.
2. A flow line shall be hand formed in the base to provide a smooth transition between the incoming and outgoing pipes as shown in the Plans.

For work at the upstream and downstream manholes within the pipe bursting area, the contractor shall:

1. The existing or new manhole base shall be prepared to accommodate the new pipe. Water tight gaskets shall be installed into the concrete base. The gaskets shall be sized to accommodate the new pipeline. The pipe shall be cut in an approved manner to properly seal at the gasket.
2. A flow line shall be hand formed in the base to provide a smooth transition between the incoming and outgoing pipes as shown in the Plans.

The Contractor shall repair any existing sags or those created during the pipe bursting operation at no cost to the Engineer. If sags existing in the pipeline before beginning the work, the Contractor shall determine if the existing sags should be repaired before or after the pipe bursting operation. The Contractor shall excavate the sag portions of the main and lift up the sewer main to the proper grade and alignment. The Contractor shall reinforce the section by encasing it with a controlled low strength material.

Reconnect Sewer Lateral

The Contractor shall be responsible for locating and reconnecting sewer laterals to pipeline restored by either open trenching or pipe bursting. The work will be as shown in the Plans and as directed by the Engineer. The existing sewer laterals may be vitrified clay, cast iron, polyvinyl chloride (PVC), or high-density polyethylene. If the homeowner does not elect to replace their lateral, the Contractor shall use PVC SDR 26 to complete the connection. The limit of work for lateral reconnection is as shown in the Plans or as directed by the Engineer.

The laterals connection method will depend upon the type of main:

1. Connection to an HDPE main will be by an electrofusion saddle
2. Connection to a PVC main for either a PVC or HDPE lateral will be by a PVC wye

**All private sewer laterals shall be reconnected to the main upon completion of the main's installation. All efforts have been made to show existing building sewers connections to the existing main sewers on the Plans, however, the Engineer cannot ensure that there may be**

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**others not shown or shown in other locations. All building sewer locations on the Plans are shown as approximate only and do not necessarily represent existing locations. The existing building sewer connections to the main sewer may be encased in mortar, concrete or reinforced concrete. There will be no additional compensation for demolition of this material.**

**All laterals shall be disconnected prior to pipe bursting or open trenching. Reconnection of existing services shall be made after the new main sewer has been constructed, successfully tested, and at least four hours after the bursting or trenching operation is complete. It is the Contractor's responsibility to make sure that all service connections are reconnected.**

**The existing lateral line shall be tied in with minimum number of bands or fittings and be connected to a section of structurally sound pipe. The Contractor shall use PVC fittings and pipe. The connection between VCP and PVC pipe shall be with an approved adapter.**

**A high-density polyethylene (HDPE) sewer saddle shall be connected to the new HDPE sewer main by Electrofusion. The process should be completed in accordance with the manufacturer's written instructions. The connection to a PVC main shall be by a PVC wye. The lateral connection shall be watertight and shall have the same structural integrity as the new sewer pipe.**

Local Sewer Main Repair

At the locations shown in the Plans, the Contractor shall complete localized repairs on the sanitary sewer pipelines. These are locations with joint offsets, sags, breaks, or other defects in the pipeline that were observed by video inspection. The Contractor shall repair by open cut as described earlier in this Section and Section of these Special Provisions. The actual limits of the repair will vary depending upon the conditions found in the field. The Engineer will direct the Contractor as to the actual limits of work.

Connections to Existing Sewers

Existing sewers are shown on the Plans at the locations where new sewers are to be connected. It is the responsibility of the Contractor to determine the exact location and depth of the existing sewers prior to the installation of any sewer pipe.

Where the connection is to be made into an existing manhole, the Contractor shall make all modification necessary to the existing manhole and channel to accommodate the new pipe.

When the connection is to an existing pipe, the Contractor shall use a coupling as approved by the Engineer.

Sewer Line Testing (Open Cut & Pipe Bursting)

Following successful installation of pipe, the Contractor shall clean and video inspect the new pipe. The Contractor shall provide two DVD copies of the video inspection to the Engineer. The video shall clearly show the locations of all reconnected laterals. Upon review of the DVD should the Engineer find any defects in the installation, the Contractor shall repair the defects at no additional cost to the City.

Defects that require repair include:

- A. Offset joints greater than 1/2"
- B. Sags are defined as localized segments of pipe where one eighth (1/8) of the diameter or more of the new or existing pipe is under water. For an eight inch diameter pipe, the level of inundation will be one inch.
- C. Deformed pipe shape (oval shape >7% of pipe diameter)
- D. Any section of the pipe with a gash, blister, or abrasion, nick, scar, or other deleterious fault greater in depth than ten (10%) percent of the wall thickness shall be removed and replaced at no cost to the Engineer.
- E. Dye testing shall be performed to ensure that all the properties have been reconnected to the City's sewer main.



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**PAYMENT** – The contract price paid per lineal foot paid for “**Rehabilitate Existing Sewer Main**” (Bid Items 504 and 4f) shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work involved in the installation of the sewer main, including potholing, pre and post videotaping, saw cutting, pavement removal, excavation, disposal of unsuitable materials, sewer line locating, sheeting, shoring and bracing, all pipe and fittings, connection to the manhole, reconstructing the manhole bottom, backfilling, compaction, surface restoration, and testing, complete in place, as shown on the plans, as required by these Special Provisions, and as directed by the Engineer.

The contract price paid per each for “**New Sanitary Sewer Lateral, 4” Or 6” HDPE DR 17** (Bid Items 505, 4g, and 4h) (shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work involved in the installation of the sewer lateral, including potholing, saw cutting, pavement removal, excavation, disposal of unsuitable materials, lateral locating, sheeting, shoring and bracing, all pipe and fittings, backfilling, compaction, surface restoration, and testing, complete in place, as shown on the plans, as required by these Special Provisions, and as directed by the Engineer.

**Section 10-34 DEMOLISH AND ABANDON MISCELLANEOUS STORM DRAIN AND SANITARY SEWER FACILITIES.**

Add the following Section: “10-34 DEMOLISH AND ABANDON MISCELLANEOUS STORM DRAIN AND SANITARY SEWER FACILITIES”

**10-34 DEMOLISH AND ABANDON MISCELLANEOUS STORM DRAIN AND SANITARY SEWER FACILITIES**

In the location as shown in the Plans, the Contractor shall remove storm drain and sanitary sewer lines and structures as well as abandon.

1. All pipelines shown to be abandoned shall be filled with sand and plugged with concrete.
2. All pipelines and storm drain structures shown to be removed or that are in conflict with improvements shall be removed to the required limits and with approved soil and compacted as detailed in the Standard Specifications.

All material removed shall become the property of the Contractor and shall be disposed of as indicated in the Standard Specifications.

**PAYMENT**

10-35 “Demolish And Abandon Miscellaneous Storm Drain And Sanitary Sewer Facilities” shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in filling the pipeline, complete in place as specified in these Special Provisions, as shown on the Plans and as directed by the Engineer and no additional compensation will be allowed therefor.

**Full compensation for conforming to the requirements of this Section shall be considered as included in the prices paid for the various items of work and no separate payment will be made therefor.**

**Plan Sheets:**

**Response to Prospective Bidder’s Questions:**

**Question 1:**

Concrete Removal

- a. Legend on GN-01 states existing is 6”, Technical Specifications (TE) 10-11 states to assume thickness is 4”.

**Response 1:**

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- a. Contractor shall provide a bid based on 6 inches.

**Question 2:**

AC Removal

- a. What thickness of existing AC shall we assume for Bid purposes? Legend show 6", TS 10-12 states 4".

**Response 2:**

- a. Contractor shall provide a bid based on 6 inches.

**Question 3:**

Base Failure Repair

- a. TS 10-15 states 12" remove and replace with AB2 below subgrade. Plan detail 7/CD01 shows deep lift AC instead of the normal Pavement Section of 3" AC over 8" AB2. What pavement section is to be used above the digout repair?

**Response 3:**

- a. In locations that are designated as Digouts, the section will be 3" AC over 8" Class 2 AB Over 12" Class 2 AB or equal to 3" AC over 20" of Class 2 AB

**Question 4:**

**CONCRETE WORK**

- a. TS 10-18 notes to seed the existing concrete with Mexican Pebble and provide samples. A. How do we seed the existing concrete? B. If we assume the TS means to seed the new concrete, we do not see any existing seeded concrete on site. Please advise or confirm that new concrete does not require seeding and/or Mexican Pebbles? Pertaining to section 10-18; Concrete Improvements of the special provisions; please clarify the intent where stated; "Existing concrete sidewalk and concrete driveway shall be seeded with Mexican Pebbles." This appears to be a typo as there is no practical way to embed pebbles into existing concrete
- b. Spec's call for Mexican pebble seeding in concrete improvements page 96. Is this correct I see no seeded concrete on site?

**Response 4:**

- a. See Revised Section TS 10-18 Above

**Question 5:**

**Sanitary Sewer**

- a. TS 10-23 states sewer pipe to be SDR35. Plans and Bid Item Schedule call for C900 PVC for sewer main. What Pipe is to be used for new sewer main?

**Response 5:**

- a. Contractor shall provide for HDPE DR 17

**Question 6:**

**Sanitary Sewer**

- a. Bid Item Schedule calls out Pipe Burst Ex 6" VCP Sewer. New sewer alignment and the existing do not match for the lower portion of the run. Thereby, pipe burst is not an option for the entire run. Please clarify
- b. Thank you for the addendum. On Bee Street where the sewer main is called out as pipe burst, the existing sewer line is not in the same alignment beginning at station 12+75 – 14+91. Please clarify the owners intent to pipe burst from station 12+75 – 14+91
- c. Nothing in the specifications for pipe bursting the sewer under the alternate.

**Response 6:**

- a. Pipe Burst from Station 10+31.41 to 12+68. . Cap and abandon in place sewer main from station 12+68 to 14+91. Install remainder of sanitary sewer main by means of open trench from station 12+68. To 14+91
- b. See response above

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- c. See added section TS 10-33 REHABILITATE EXISTING SEWER MAIN

**Question 7:**

**Sanitary Sewer**

- a. Bid Item Schedule calls out C900 PVC for Sewer Laterals, TS 10-23 states SDR35, plans call out HDPE SDR11. Can HDPE be used for pipe bursting laterals? Also, SDR11 seems pretty stiff for the laterals, can a lighter SDR be used instead? What pipe is to be used for open cut laterals?

**Response 7:**

- a. Contractor shall provide for HDPE DR 17

**Question 8:**

**Sanitary Sewer**

- a. There is a callout on UT-01 to "Remove Exist SS Line". Since portions of this line are not in the new sewer alignment, can the line be capped at each end and left in place?

**Response 8:**

- a. Yes, see response to question 6 and added section TS 10-33

**Question 9:**

**Sanitary Sewer**

- a. Can an open cut method of installing the new 6" PVC mainline be used in lieu of pipe bursting? This will help eliminate a 24 hr bypass operation? Limits and/or scope are not clearly defined within the provided bid documents.
- b. Using the open cut method will require a work shift bypass which would be more appropriate for the amount of sewer laterals to contend with.

**Response 9:**

- a. For a and b, Yes, see response to question 6 and added section TS 10-33

**Question 10:**

**Storm Drain**

- a. **10" SD on Bee:** TS 10-26 calls out SDR35, plans show HDPE SDR11, Bid item schedule calls out PVC. What pipe is to be used for the 10" Storm Drain?
- b. The notes on plan page UT-01 for the 10" storm drain reference HDPE SDR-11 Fuse Pipe but the specifications state SDR-35. Please clarify.

**Response 10:**

- a. For a and b, Contractor shall provide for HDPE DR 17

**Question 11:**

**Storm Drain**

- a. **10" SD on Bee:** Plans UT-01 shows the new 10" storm drain running under the existing gutter pan. Existing pipe also appears to be under existing gutter pan. However there is no C&G removal or replacement above the pipeline. Can the new storm drain run be just outside of the gutter pan under the street section and then brought into the existing DI? Also, can the existing storm drain pipe, if under the existing gutter pan, be left in place by capping at each end?

**Response 11:**

- a. Curb and gutter shall be removed and replaced where in conflict with this section of storm drainage work.

**Question 12:**

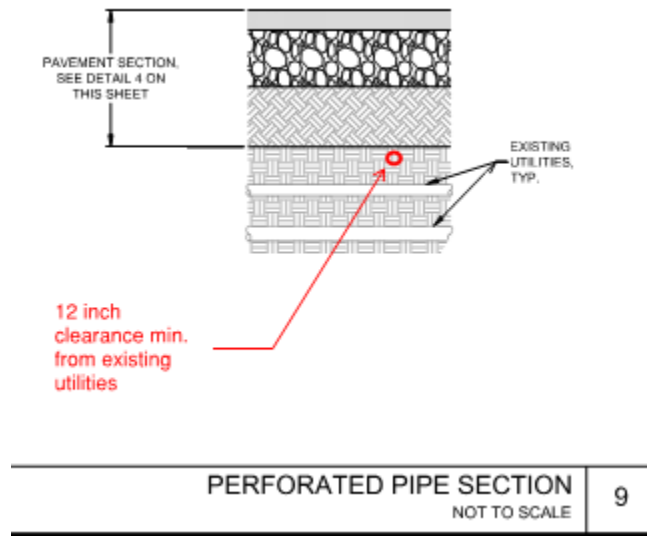
**Storm Drain**

2020 Sausalito Streets Rehabilitation Project  
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- a. There is no trench detail for the perforated subdrain pipe? Only detail 9/CD01 showing it 12" under the deepest utility. Appears that contractor is to place a perforated pipe at approximately 6' deep with native backfill. Please provide detail?
- b. Please provide invert/rim elevations or profiles for the new and perforated storm drain. Detail 9 on CD-01 does not provide this information. Depth varies???

**Response 12:**

- a. For a and b, See Revised Detail 9/CD01 below.



**Question 13:**

**Storm Drain**

- a. Similar to the 10" SD on Bee, Plans UT-02 shows the new 6" solid storm drain running under the new gutter pan. Not sure that this is what the city would want. Can this run be just outside of the gutter pan under the street section and then brought into the new DI?
- b. Clarify if the 6" storm drain runs directly under the existing C&G or in the roadway Plan Sheet UT-02?

**Response 13:**

- a. For a and b, 6" solid storm drain pipe will run outside the concrete curb and gutter.

**Question 14:**

**Fire Hydrant**

- a. Is contractor to relocate fire hydrant or only coordinate with MMWD? If contractor to relocate, which bid item would you like to include this?

**Response 14:**

- a. Contractor to provide a cost for relocating the fire hydrant for coordination with MMWD see bid item 5f.

**Question 15:**

**Earthwork**

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- a. There is lowering of grades at the existing intersections shown on the grading plans. I don't see a bid item for this earthwork. Which bid item would you like to include this work?

**Response 15:**

- a. Contractor shall assume the earthwork is paid for full compensation for conforming to the requirements of the specifications and shall be considered as included in the prices paid for the various items of work and no separate payment will be made therefor.

**Question 16:**

**Geotechnical Report**

- a. Please clarify if this is a geotechnical investigation/soils report available for this project

**Response 16:**

- a. Yes, a geotechnical report is available and was provided in Addenda 1.

**Question 17:**

**Trench Detail**

- a. Plan sheet CD-02 UCS trench Detail 330; If the entire street is to be removed & replaced with a new structural section will the trench detail restoration be required?

**Response 17:**

- a. Where entire street structural section is removed and replaced, final structural section per details on sheet TY.01. Where street structural section is not being removed and replaced, trench restoration detail per CD.02 UCS Trench Detail 330.

**Question 18:**

**Remove Striping**

- a. Please verify that the intent of bid item #204/1e is applicable to removal of existing striping per section 10-13 of the special conditions. There appear to be clear and grub areas outlined on the removal plans but the special conditions specifically call for this bid item to apply to existing striping removal. Please clarify

**Response 18:**

- a. Striping removal will part of bid item 205 and 1f. See attached revised bid schedule.

**Question 19:**

**Aggregate Base**

- a. Please confirm that no aggregate base material is required underneath concrete improvements with the exception of the roadway concrete and any valley gutters (STD #110). The special provisions make reference to the various bid items for concrete improvements including sub-grade and aggregate base, however; the details do not show an aggregate base cushion nor is a required section listed anywhere.

**Response 19:**

- a. Aggregate base will be required as shown on the plans and as referenced in the UCS standards for sidewalk/curb and gutter improvements.

**Question 20:**

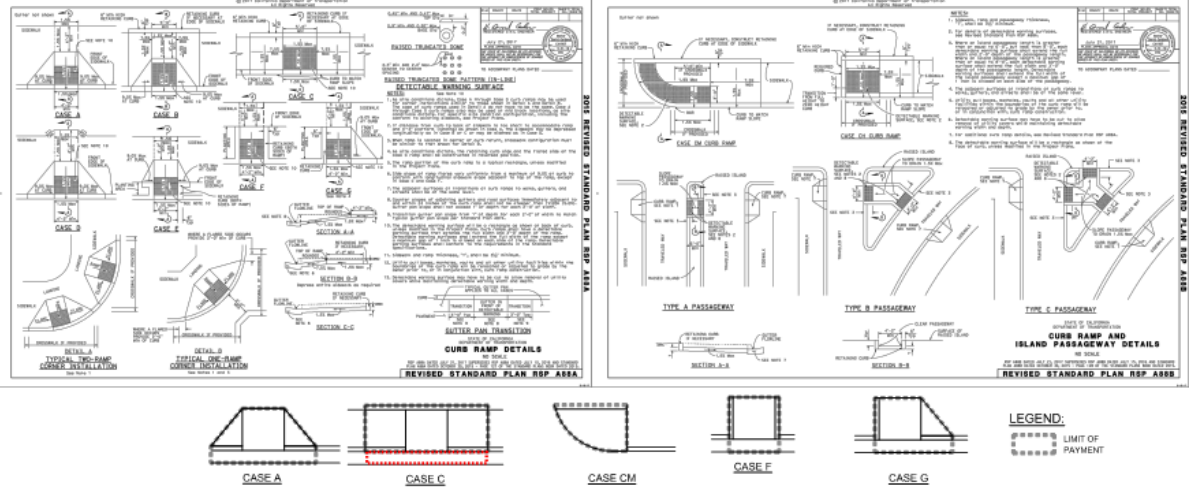
- a. Bonita and Bee - The handicapped ramps will be paid based upon the square footing of handicapped ramps, installed. Is this unit price to include the construction of the curb and gutter in front of the ramp?
- b. Bee – Is the city curb and gutter in front of the driveway approach to be included in the pricing for the driveway or should it be included in the curb and gutter pay item?

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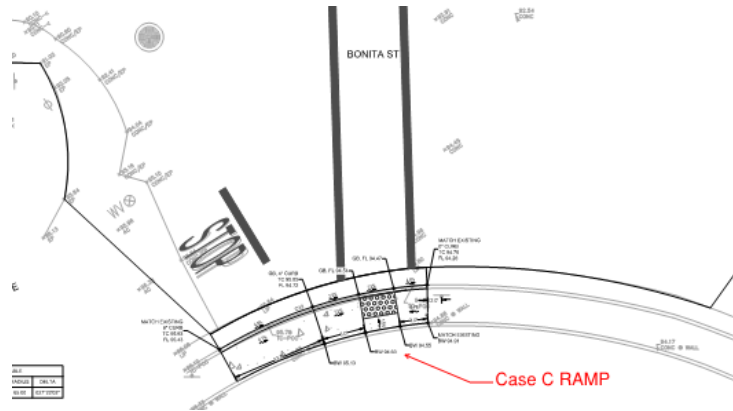
- c. Bee – Bid Item 2d – Case C handicapped ramp. Where is this ramp located?

**Response 20:**

- a. See details below for limits of work associated with ramps based on detail 2 Sheet CD.01.



- b. The curb and gutter along Bee will be replaced with this project and should be included in the price for removal and replacement of curb and gutter along Bee Street.
- c. See image below associated with Sheet CR.03.



**Question 21:**

- a. Bid Schedule update?

**Response 21:**

- a. See attached updated Bid Schedule.

2020 Sausalito Streets Rehabilitation Project  
Addendum No. 3

**Question 22:**

- a. Question pertaining to closing of the street. The specs are not 100% clear as to whether or not we can close the streets to through traffic while making accommodations for local traffic?
- b. Will extended full closures be allowed for the entire street width during the roadway reconstruction?

**Response 22:**

- a. During construction hours, streets may be closed to through traffic while making accommodations for local traffic. After construction hours, streets to be made passable for all traffic as construction activity permits. After construction hours, driveways shall be made accessible to residents as construction activity permits.
- b. Full closures will be permitted as needed with a minimum of 72 hr advance notice to Engineer and 48hr notice to public. Full closures are to be minimized and streets opened as soon as practical. Emergency vehicles are to be accommodated at all times.

**END OF ADDENDUM NO. 3**

**Issued By: City of Sausalito  
Andrew Davidson  
Senior Engineer**

**ACKNOWLEDGED**

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**Bidder's Signature**

**A signed copy of this addendum is to be submitted as a part of the bid package for the subject project. Failure to do so may subject the Bidder to Disqualification.**

### Bid Schedule

This Bid Schedule must be completed in ink and included with the sealed Bid Proposal. Pricing must be provided for each Bid Item as indicated. Items marked "(SW)" are Specialty Work that must be performed by a qualified Subcontractor. The lump sum or unit cost for each item must be inclusive of all costs, whether direct or indirect, including profit and overhead. The sum of all amounts entered in the "Extended Total Amount" column must be identical to the Base Bid price entered in Section 1 of the Bid Proposal form.

AL = Allowance      CF = Cubic Feet      CY = Cubic Yard      EA = Each      LB = Pounds  
 LF = Linear Foot      LS = Lump Sum      SF = Square Feet      TON = Ton (2000 lbs)

BID ITEM NO.	ITEM DESCRIPTION	EST. QTY.	UNIT	UNIT COST	EXTENDED TOTAL AMOUNT
100	MOBILIZATION	1	LS	\$	\$
101	TRAFFIC CONTROL SYSTEM	1	LS	\$	\$
102	WATER POLLUTION CONTROL	1	LS	\$	\$
103	LANDSCAPE RESTORATION	1	LS	\$	\$
200	REMOVE CONCRETE CURB AND GUTTER	344	LF	\$	\$
201	REMOVE CONCRETE SIDEWALK	950	SF	\$	\$
202	REMOVE CONCRETE ROADWAY	10,290	SF	\$	\$
203	FULL DEPTH ASPHALT REMOVAL	4,500	SF	\$	\$
204	CLEARING AND GRUBBING	90	SF	\$	\$
205	REMOVE THERMOPLASTIC PAVEMENT STRIPING	1	LS	\$	\$
300	CONCRETE CURB AND GUTTER	358	LF	\$	\$
301	CONCRETE VERTICAL CURB	156	LF	\$	\$
302	CONCRETE SIDEWALK	817	SF	\$	\$
303	CONCRETE ACCESSIBLE RAMP (CASE A)	80	SF	\$	\$
304	CONCRETE ACCESSIBLE RAMP (CASE C)	85	SF	\$	\$
305	CONCRETE ACCESSIBLE RAMP (CASE CM)	110	SF	\$	\$
400	HMA – 3" BONITA STREET	272	TONS	\$	\$
401	AGGREGATE BASE – 8" BONITA STREET	370	CY	\$	\$
402	BASE FAILURE REPAIR (REVOCABLE)	1,200	SF	\$	\$
403	CONFORM PAVEMENT GRINDING	270	SF	\$	\$
500	ADJUST TO GRADE (UTILITY VALVES)	6	EA	\$	\$



BID ITEM NO.	ITEM DESCRIPTION	EST. QTY.	UNIT	UNIT COST	EXTENDED TOTAL AMOUNT
501	ADJUST TO GRADE (SANITARY SEWER MANHOLE)	1	EA	\$	\$
502	ADJUST TO GRADE (SANITARY SEWER CLEANOUT)	1	EA	\$	\$
503	ADJUST TO GRADE (UTILITY BOX – WATER METER)	1	EA	\$	\$
504	REHABILITATE EXISTING SEWER MAIN	221	LF	\$	\$
505	NEW SANITARY SEWER LATERAL, 4" HDPE DR 17	100	LF	\$	\$
506	NEW SANITARY SEWER MANHOLE	2	EA	\$	\$
507	RODDING INLET	1	EA	\$	\$
508	CLEANOUT, BACKWATER PREVENTION, BOX AND GRATE	5	EA	\$	\$
509	NEW STORM DRAIN PIPE, 6" PVC SOLID	190	LF	\$	\$
510	NEW SUBDRAIN, 6" PVC PERFORATED	210	LF	\$	\$
511	STORM DRAIN INLET	1	EA	\$	\$
600	12" STOP BAR	60	LF	\$	\$
601	BLUE REFLECTIVE MARKER	1	EA	\$	\$
602	12" WHITE STANDARD CROSSWALK	197	LF	\$	\$
603	PAVEMENT MARKINGS – "STOP"	110	SF	\$	\$

TOTAL BASE BID: Items 1 through 603 inclusive: \$\_\_\_\_\_

*Note: The amount entered as the "Total Base Bid" should be identical to the Base Bid amount entered in Section 1 of the Bid Proposal form.*

BID SCHEDULE  
BID ALTERNATIVE #1

BID ITEM NO.	ITEM DESCRIPTION	EST. QTY.	UNIT	UNIT COST	EXTENDED TOTAL AMOUNT
1a	REMOVE CONCRETE CURB AND GUTTER	136	LF	\$	\$
1b	REMOVE CONCRETE SIDEWALK	1,340	SF	\$	\$
1c	REVMOVE CONCRETE ROADWAY	10,110	SF	\$	\$
1d	FULL DEPTH ASPHALT REMOVAL	7,150	SF	\$	\$
1e	CLEARING AND GRUBBING	5	SF	\$	\$
1f	REMOVE THERMOPLASTIC PAVEMENT STRIPING	1	LS	\$	\$
2a	CONCRETE CURB AND GUTTER	154	LF	\$	\$
2b	VERTICAL CURB	100	LF	\$	\$
2c	CONCRETE SIDEWALK	620	SF	\$	\$
2d	CONCRETE ACCESSIBLE RAMP (CASE C)	155	SF	\$	\$
2e	CONCRETE ACCESSIBLE RAMP (CASE CM)	165	SF	\$	\$
2f	CONCRETE DRIVEWAY – STANDARD	320	SF	\$	\$
3a	HMA – 3” BEE STREET	309	TONS	\$	\$
3b	AGGREGATE BASE – 8” BEE STREET	421	CY	\$	\$
3c	BASE FAILURE REPAIR (REVOCABLE)	2,515	SF	\$	\$
3d	CONFORM PAVEMENT GRINDING	245	SF	\$	\$
4a	ADJUST TO GRADE (STORM DRAIN MANHOLE)	5	EA	\$	\$
4b	ADJUST TO GRADE (UTILITY VALVES)	2	EA	\$	\$
4c	ADJUST TO GRADE (SANITARY SEWER MANHOLE)	1	EA	\$	\$
4d	ADJUST TO GRADE (UTILITY VALULTS – TELE/ELEC)	1	EA	\$	\$
4e	ADJUST TO GRADE (UTILITY BOX – WATER METER)	2	EA	\$	\$
4f	REHABILITATE EXISTING SEWER MAIN	430	LF	\$	\$
4g	NEW SANITARY SEWER LATERAL, 6” HDPE DR 17	196	LF	\$	\$
4h	NEW SANITARY SEWER LATERAL, 4” HDPE DR 17	126	LF	\$	\$
4i	CLEANOUT, BACKWATER PREVENTION, BOX AND GRATE	15	EA	\$	\$

BID ITEM NO.	ITEM DESCRIPTION	EST. QTY.	UNIT	UNIT COST	EXTENDED TOTAL AMOUNT
4j	REPLACE STORM DRAIN MAIN, 10" PVC SOLID	437	LF	\$	\$
4k	REPLACE STORM DRAIN LATERAL, 6" PVC SOLID	75	LF	\$	\$
5a	12" STOP BAR	24	LF	\$	\$
5b	BLUE REFLECTIVE MARKER	1	EA	\$	\$
5c	18" WHITE CONTINENTAL CROSSWALK	30	LF	\$	\$
5d	12" WHITE STANDARD CROSSWALK	154	LF	\$	\$
5e	PAVEMENT MARKINGS – "STOP"	44	SF	\$	\$
5f	RELOCATE FIRE HYDRANT	1	EA	\$	\$

TOTAL BID ALTERNATIVE #1: Items 1a through 5e inclusive:  
\$ \_\_\_\_\_

*Note: The amount entered as the "Total Bid Alternate #1" should be identical to the Alternate #1 amount entered in Section 1 of the Bid Proposal form.*

Sum Total Base Bid plus Total Bid Alternative # 1:  
\$ \_\_\_\_\_

BIDDER NAME: \_\_\_\_\_

END OF BID SCHEDULE