



CONTRACT DOCUMENTS

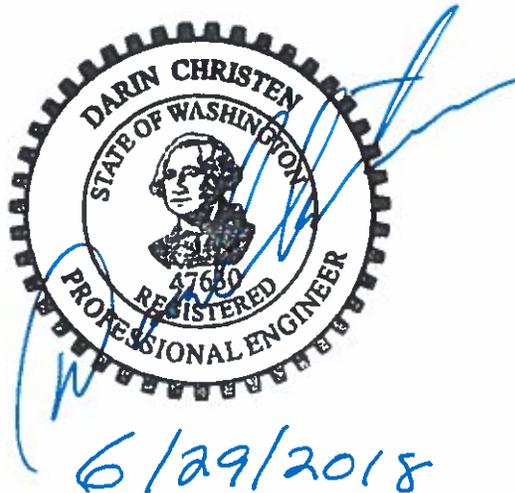
**2018 SANITARY AND STORM SEWER LINING
PROJECT# SS-2018-003**

CITY OF MOUNT VERNON, WASHINGTON

JILL BOUDREAU, MAYOR

CITY COUNCIL

MELISSA BEATON
RICHARD BROCKSMITH
IRIS CARIAS
MARY HUDSON
MARK HULST
JOE LINDQUIST
GARY MOLENAAR



For information on this project, contact:
Public Works Department
Darin Christen, P.E., (360) 336-6204

The Engineering material and data in this document were prepared under the supervision and direction of the above signed, whose seal as a Registered Professional Engineer is affixed above.

INCLUDED DOCUMENTS

Bidding:

Request for Bid Proposals

Supplemental Instructions to Bidders

Proposal Form

Bid Bond Form

Bidders Checklist

Award:

Contract

Retainage Options Form

Retainage Bond Form

Payment Bond Form

Performance Bond Form

Plans, Maps, and Specifications:

Amendments to the Standard Specifications

Special Provisions

Plans

Wage Information

**CITY OF MOUNT VERNON
REQUEST FOR BID PROPOSALS**

The City of Mount Vernon is accepting sealed bid proposals for the following project.

Project Name: 2018 Sanitary and Storm Sewer Lining
Project Number: SS-2018-003

Project Manager: Darin Christen, P.E.

Deadline for
Submitting Bids: 10:00 am, Tuesday, July 24, 2018

Submit Bids To: Finance Director
910 Cleveland Ave
Mount Vernon, WA 98273

Bid Opening: Bids will be opened at the above location and time.

Estimated Project Cost: \$530,000

Project Duration: 90 Calendar Days

Project Description: Work includes lining approximately 11,762 feet of sanitary sewer pipe and approximately 145 feet of storm sewer pipe with a cured in place pipe (CIPP) liner system. The CIPP liner system must be Insituform, In-Liner, National Liner, Master Liner, or an approved equal as determined by the City of Mount Vernon. Alternate CIPP systems will be considered based on an established record of successful installations similar to these four systems as determined by the City of Mount Vernon. Work also includes grouting and restoring laterals and trimming intruding laterals. Man entry may be required for some work. Contractor will be responsible to determine and incorporate bypass and man entry costs into unit costs for bid items. Contractor must pay prevailing wages.

Bid Proposals: Must be prepared and submitted in accordance with Section 1-02 of the Project Specifications, and must be accompanied by a bid deposit or bid bond in the minimum amount of 5% of the proposal total.

Bid packets (including the project plans, specifications, proposal forms, and other project documents) may be obtained electronically at no cost from www.mountvernonwa.gov/bids.aspx. Hard copies may be purchased directly from the Mount Vernon Public Works Department at 1024 Cleveland Avenue, Mount Vernon, WA for \$25.00 Bid packets may be mailed upon request for an additional fee of \$10.00. All fees are non-refundable.

Addenda will be issued online, and will be emailed or mailed to bidders who are on the plan holders list. Bidders who download the bid packets will not be automatically added to the plan holders list and are encouraged to email a request to be added.

The City of Mount Vernon reserves the right to reject any or all bid proposals, revise or cancel the work, complete the work by other means, or to postpone the bid award by up to thirty (30) days after bid opening.

Questions about this project may be directed by email to mvengeering@mountvernonwa.gov or by telephone at (360) 336-6204.

CITY OF MOUNT VERNON

Doug Volesky, Finance Director

Published: Skagit Valley Herald & DJC: June 29, 2018, and July 6, 2018

SUPPLEMENTAL INSTRUCTIONS TO BIDDERS

PLEASE READ ALL INSTRUCTIONS CAREFULLY BEFORE PREPARING AND SUBMITTING YOUR BID.

1. The City of Mount Vernon has furnished a **PROPOSAL FORM** in the bid package. This form must be completed in full and may not be otherwise altered or conditioned in any manner. The proposal form includes the following parts:
 - a. Bidder Declaration
 - b. Bidder Identification
 - c. Bidder Responsibility Information
 - d. Non-Collusion Declaration
 - e. Schedule of Bid Prices
 - f. Proposal Signature and Addenda Acknowledgement
2. All entries in the proposal forms, including signatures, must be **TYPEWRITTEN OR WRITTEN IN INK.**
3. The Bidder must submit a **UNIT PRICE FOR EVERY ITEM ON THE PROPOSAL FORM.** The unit prices must be written in figures with no more than two places to the right of the decimal point. In the event of an error, the unit price will take precedence over all other figures, and any corrections made will be based on the unit price.
4. **CORRECTIONS TO ENTRIES** must be made by striking through the entry in ink and making the correct entry in ink adjacent to the entry. A representative of the Bidder must initial the change in ink. Do not use "White Out" or similar product to make corrections.
5. Bid proposals must be **PROPERLY EXECUTED** with the signature of a person or persons legally authorized to bind the Bidder to a contract. The name of each person signing shall be typed or printed below the signature.
6. **BIDS SUBMITTED BY CORPORATIONS** must bear the seal of the corporation and give the state of incorporation. A bid submitted by an agent must have attached a current power of attorney certifying the agent's authority to bind the Bidder. The name of each person signing must be typed or printed below the signature.
7. Bid proposals must not contain any **UNAUTHORIZED ADDITIONS, DELETIONS, OR CONDITIONS.**
8. The proposal forms must be completed in full. Any **MISSING VALUES OR OTHER MISSING INFORMATION** may cause the proposal to be deemed irregular.

9. A **BID DEPOSIT OR BID BOND** must be included with your bid. See Section 1-02.7.
10. Place the completed proposal forms and bid deposit or bid bond in a **SEALED OPAQUE ENVELOPE** marked:

Bid Proposal for PROJECT# SS-2018-003
2018 SANITARY & STORM SEWER LINING
(name of your company)
(address)
(phone number)

MAIL THE ABOVE PACKAGE INSIDE A MAILING ENVELOPE OR DELIVER IT IN PERSON to the following address **PRIOR TO THE BID OPENING DATE AND TIME** as stated in the Call for Bid Proposals:

City Finance Director
Mount Vernon City Hall
910 Cleveland Avenue
Mount Vernon, Washington 98273

11. **CONSIDERATION OF BIDS** will begin when the bids are opened and read publicly at the place and time indicated in the "Request for Bid Proposals".
 - a. The apparent low bidder will typically be announced at the end of the bid opening.
 - b. A bid tabulation will be provided on the website (usually within 1 business day).
 - c. Prior to award, bids will be examined for eligibility based on bid responsiveness and bidder responsibility in accordance with the specifications and applicable laws.
 - d. The lowest remaining eligible bid will be awarded the contract within 30 days of bid opening in most cases. The next two lowest bids will be kept as eligible until the Contract is executed. Bidders whose bids are no longer eligible for consideration will be notified and their bid deposits released.
 - e. Once the contract has been executed, all bid deposits from the remaining unsuccessful bidders will be released.

**BID PROPOSAL FOR
2018 SANITARY & STORM SEWER LINING, PROJECT SS-2018-003**

TO:

Mayor Boudreau and City Council Members
910 Cleveland Avenue
Mount Vernon, WA 98273

The undersigned declares that they have examined the location of the project site and the conditions of work and have carefully read and thoroughly understand the Contract Documents for the above named project. The Undersigned hereby proposes to undertake and complete the work in accordance with said Contract Documents, and agrees to accept as payment for said work, the schedule of lump sum and unit prices as set forth in the "Bid" below.

The undersigned acknowledge that payment will be based on the actual work performed and material used as measured or provided for in accordance with the Contract Documents, and that no additional compensation will be allowed for any taxes not included in each lump sum or unit price.

The undersigned Bidder hereby certifies that, within the three-year period immediately preceding the bid solicitation date for this Project, the bidder is not a "willful" violator, as defined in RCW 49.48.082, of any provision of chapters 49.46, 49.48, or 49.52 RCW, as determined by a final and binding citation and notice of assessment issued by the Department of Labor and Industries or through a civil judgment entered by a court of limited or general jurisdiction.

Base Bid	\$
Sales Tax (8.7%)	\$
Total Bid and Sales Tax	\$

OFFICIAL AUTHORIZED TO SIGN FOR BIDDER: "I certify (or declare) under penalty of perjury under the laws of the State of Washington that the foregoing is true and correct".

Bidder's Business Name:	
Signature:	Date:
Print Name and Title:	Location or Place Executed (City, State)

** If a corporation, proposal must be executed in the corporate name by the president or vice-president (or any other corporate officer accompanied by evidence of authority to sign). If a co-partnership, proposal must be executed by a partner.*

Check One: Sole Proprietorship Partnership Joint Venture Corporation

State of Incorporation, or if not a corporation, State where business entity was formed.	State:
If a co-partnership, give firm name under which business is transacted.	State:

BIDDER IDENTIFICATION

The name of the Bidder submitting this proposal, the address, email, and phone number to which all communications concerned with this proposal shall be made, and the number which has been assigned indicating the Bidder is licensed to do business in the State of Washington are as follows:

Firm Name: _____

Contact Name: _____

Email Address: _____

Address: _____

Telephone: _____ Contractor's Number: _____

The firm submitting this proposal is a: _____ Sole Proprietorship
_____ Partnership
_____ Corporation

The names and titles of the principal officers of the corporation submitting this proposal, or of the partnership, or of all persons interested in this proposal as principals are as follows:

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

NOTE: Signatures of this proposal must be identified above. Failure to identify the Signatures will be cause for considering the proposal irregular and for subsequent rejection of the Bid.

BIDDER RESPONSIBILITY INFORMATION

Name of Contractor: _____

Address: _____

Phone Number: _____ Fax Number: _____

Type of work generally performed by contractor: _____

Number of years the contractor has been engaged in the construction business under the present firm name indicated:

Gross dollar amount of work presently under contract: _____

Gross dollar amount of contracts awarded but not started: _____

List of major pieces of equipment which are owned by the Contractor and which will be available and required for use on this project:

Name of the Superintendent you propose to employ on the project and how long with your company:

Your bank or lending institution:

Washington State Department of Labor and Industries Workmen's Compensation

Account No.: _____

Washington State Department of Labor and Industries Contractor's Registration No:

Registration #: _____ Expiration Date: _____

Washington State Dept. of Employment Security Department No: _____

Washington State Excise Tax Registration No.: _____

Failure to return this Declaration as part of the bid proposal package will make the bid nonresponsive and ineligible for award.

NON-COLLUSION DECLARATION

I, by signing the proposal, hereby declare, under penalty of perjury under the laws of the United States that the following statements are true and correct:

1. That the undersigned person(s), firm, association or corporation has (have) not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with the project for which this proposal is submitted.
2. That by signing the signature page of this proposal, I am deemed to have signed and to have agreed to the provisions of this declaration.

NOTICE TO ALL BIDDERS

To report rigging activities call:

1-800-424-9071

The U.S. Department of Transportation (USDOT) operates the above toll-free “hotline” Monday through Friday, 8:00 a.m. to 5:00 p.m., eastern time. Anyone with knowledge of possible bid rigging, bidder collusion, or other fraudulent activities should use the “hotline” to report such activities.

The “hotline” is part of USDOT’s continuing effort to identify and investigate highway construction contract fraud and abuse and is operated under the direction of the USDOT Inspector General. All information will be treated confidentially and caller anonymity will be respected.

DOT Form 272-036H EF
Revised 5/06

SCHEDULE OF BID PRICES

BID ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXT. PRICE
SS01	MOBILIZATION	1	LS		
SS02	PROJECT SPCC PLAN	1	LS		
SS03	PROJECT TEMPORARY TRAFFIC CONTROL	1	LS		
SS04	TRIM PROTRUDING LATERAL	13	EA		
SS05	LATERAL RECONNECTION AND GROUTING	191	EA		
SS06	CIPP - 6 IN. DIAM	682	LF		
SS07	CIPP - 8 IN. DIAM	8113	LF		
SS08	CIPP - 10 IN. DIAM	1859	LF		
SS09	CIPP - 12 IN. DIAM	337	LF		
SS10	CIPP - 15 IN. DIAM	564	LF		

*See project plans, maps, and specifications for specific descriptions and locations of work to be completed.

PROPOSAL SIGNATURE AND ADDENDA ACKNOWLEDGEMENT

The Bidder is hereby advised that by signature of this proposal, he/she is deemed to have acknowledged all requirements and signed all certificates contained herein. The undersigned hereby agrees to pay labor not less than the prevailing rates of wages or less than the hourly minimum rate of wages as specified in the Specifications and Conditions, for this project. A proposal guaranty in an amount of five percent (5%) of the total bid, based upon the approximation estimate of quantities at the above prices and in the form as indicated below, is attached hereto:

- CASH IN THE AMOUNT OF _____
- CASHIER’S CHECK _____
- CERTIFIED CHECK Dollars (\$_____) Payable to the city of Mount
- PROPOSAL BOND Vernon IN THE AMOUNT OF 5% OF THE BID.

Receipt is hereby acknowledged that the following addenda have been received:

- Addendum #1
- Addendum #2
- Addendum #3
- Addendum #4
- Addendum #5

SIGNATURE OF AUTHORIZED OFFICIAL(S)

(PROPOSAL MUST BE SIGNED)

SIGNATURE:

FIRM NAME:

STATE OF WASHINGTON)
) ss.
COUNTY OF SKAGIT)

On this ____ day of _____, 2018, before me personally appeared _____ to me personally known to be the person described in and who executed the above instrument and who acknowledged that _____ had the authority to submit this proposal on behalf of said firm.

NOTARY PUBLIC, in and for the State of Washington,
Residing at: _____
My Commission Expires: _____

This proposal form is not transferable and any alteration of the firm’s name entered hereon without prior permission from the City of Mount Vernon will be cause for considering the proposal irregular and for subsequent rejection of the Bid.

BID BOND

KNOW ALL MEN BY THESE PRESENTS, that we _____ as principal, and the _____ a corporation duly organized under the laws of the State of _____ and having its principal place of business at _____, in the State of Washington, as Surety, are held and firmly bound unto the City of Mount Vernon, a Municipal Corporation in the State of Washington, in the full and penal sum of five percent (5%) of the total bid amount appearing on the bid proposal of said principal for the work hereinafter described, for the payment of which, well and truly to be made, we bind our heirs, executors, administrators and assigns, and successors and assigns, jointly and severally, firmly by these presents.

The condition of this bond is such that, whereas, the principal herein is herewith submitting his or its bid proposal for 2018 SANITARY & STORM SEWER LINING, Project#, SS-2018-003 said bid proposal, by reference thereto, being hereby made a part hereof.

NOW, THEREFORE, if the bid proposal submitted by the PRINCIPAL is accepted, and the contract is awarded to said PRINCIPAL, and if said PRINCIPAL shall duly make and enter into and execute said contract and shall furnish the performance bond as required by the bidding and contract documents within a period of ten (10) days from and after said award, exclusive of the day of such award, then its obligation to pay the above-mentioned penal sum as liquidated damages shall be null and void, otherwise it shall remain and be in full force and effect.

Signed and Sealed this _____ day of _____, 2018.

Principal:

By: _____ (Seal)

Surety:

By: _____ (Seal)

Attorney-In-Fact

The Attorney-in-fact who executes this bond in behalf of the surety, must attach a copy of his power of attorney as evidence of his authority.

BIDDER'S CHECKLIST

This list is intended to assist the bidder in completing the Bidder's Proposal. The Bidder should carefully review the Proposal form, Contract Documents, and Supplemental Instructions to Bidders to ensure a responsive bid is submitted.

1. Has a bid bond or certified check been enclosed with your bid?
2. Is the amount of the bid guaranty at least five percent (5%) of the total amount of the bid?
3. Have all the pages of the Proposal Form been completed?
4. Have all items been bid on?
5. Have all the required signatures been added?
6. Have you read the Non-Collusion Declaration?
7. Have you shown your State Contractor's License Number on the proposal?
8. Have you acknowledged all addenda?

CONTRACT
2018 SANITARY AND STORM SEWER LINING
PROJECT, SS-2018-003

THIS AGREEMENT, made and entered into in duplicate this _____ day of _____, 2018, by and between the City of Mount Vernon, Washington hereinafter called the City of Mount Vernon "City" and _____ "Contractor", hereinafter called the Contractor.

WITNESSETH:

That in consideration of the terms and conditions contained herein and attached and made a part of this agreement, the parties hereto covenant and agree as follows:

1. The Contractor shall do all work and furnish all tools, equipment and materials for the 2018 Sanitary & Storm Sewer Lining project as described in the attached Request for Bid Proposals, including addenda, for the amount bid which are by this reference incorporated herein and made a part hereof, and shall perform any alterations in or additions to the work provided under this contract and every part thereof.
2. If said work is not completed within the time specified, the Contractor agrees to pay to the City of Mount Vernon the sum as specified in Section 1.08.9 of the 2018 WSDOT Standard Specifications for each and every working day said work remains uncompleted and after expiration of the specified time, as liquidated damages. The Contractor shall provide and bear the expense of all equipment, work and labor of any sort whatsoever that may be required for the transfer of materials and for constructing and completing the work provided for in this contract and every part thereof and shall guarantee said materials and work for a period of one year after completion of this contract, except as may be modified by the plans, specifications, and/or contract documents.
3. The City of Mount Vernon agrees to pay the Contractor for the actual quantities in the completed work according to the schedule of unit prices set forth in the bid proposal hereto attached and made a part of this contract.
4. The Contractor for himself, and for his heirs, executors, administrators, successors and assigns, does hereby agree to the full performance of all the covenants herein contained upon the part of the Contractor.
5. It is further provided that no liability shall attach to the City of Mount Vernon by reason of entering into this contract, except as expressly provided herein.

6. The Contractor shall defend indemnify and hold the City its officers, officials, employees and volunteers harmless from any and all claims, injuries, damages, loss or suits including attorney fees, arising out of or in connection with the performance of this Contract, except for injuries and damages caused by the sole negligence of the City.

Should a court of competent jurisdiction determine that this Contract is subject to RCW 4.24.115, then, in the event of liability for damages arising out of bodily injury to persons or damages to property caused by or resulting from the concurrent negligence of the Contractor and the City, its officers, officials, employees and volunteers, the Contractor's liability hereunder shall be only to the extent of the Contractor's negligence. It is further specifically and expressly understood that the indemnification provided herein constitutes the Contractor's waiver of immunity under Industrial Insurance, Title 51 RCW, solely for the purposes of this indemnification. This waiver has been mutually negotiated by the parties. The provisions of this section shall survive the expiration of termination of this Contract.

IN WITNESS WHEREOF, the parties hereto have caused this agreement to be executed the day and year first above written.

This _____ day of _____, 2018.

CONTRACTOR:

CITY OF MOUNT VERNON:

Authorized Signature

Jill Boudreau, Mayor

Printed

Tax ID No. _____

Attest:

Doug Volesky, Finance Director

Approved as to Form:

Kevin Rogerson, City Attorney

RETAINAGE INVESTMENT OPTION

CONTRACTOR: _____

PROJECT NAME: 2018 Sanitary and Storm Sewer Lining

DATE: _____

Pursuant to R.C.W. 60.28.010, as amended, you may choose how your retainage under this contract will be held and invested. Please complete and sign this form indicating your preference. If you fail to do so, the Owner will hold your retainage as described in "Current Expense" option 1 below.

- ____ 1. Current Expense: The Owner will retain your money in its Current Expense Fund Account until thirty days following final acceptance of the improvement or work as completed. You will not receive interest earned on this money.

- ____ 2. Interest Bearing Account: The Owner will deposit retainage checks in an interest-bearing account in a bank, mutual savings bank, or savings and loan association, not subject to withdrawal until after the final acceptance of the improvement or work as completed or until agreed to by both parties. Interest on the account will be paid to you.

- ____ 3. Escrow/Investments: The Owner will place the retainage checks in escrow with a bank or trust company until thirty days following the final acceptance of the improvement or work as completed. When the moneys reserved are to be placed in escrow, the Owner will issue a check representing the sum of the moneys reserve payable to the bank or trust company and you jointly. This check will be converted into bonds and securities chosen by you and approved by the Owner and these bonds and securities will be held in escrow. Interest on these bonds and securities will be paid to you as interest accrues.

- ____ 4. Surety Bond: The Contractor will obtain a bond from a Surety Company, licensed to conduct business in the State of Washington for the estimated amount of Retainage based on 5% of the bid price. The Retainage Bond form will be provided by the City.

Contractor's signature

Date

Title

RETAINAGE BOND

KNOW ALL BY THESE PRESENTS: That _____, a corporation existing under and by virtue of the laws of the State of _____ and authorized to do business in the State of Washington, as Principal, and _____, a corporation organized and existing under the laws of the State of _____ and authorized to transact the business of surety in the State of Washington, as Surety, are jointly and severally held and bound unto City of Mount Vernon, Washington (City) and the State of Washington (State), and are similarly held and bound unto the beneficiaries of the trust fund created by Chapter 60.28 Revised Code of Washington (RCW), and their heirs, executors, administrators, successors and assigns in the penal sum of Dollars (\$_____), plus 5% of any increases in the contract amount that have occurred or may occur, due to change orders, increases in the quantities or the addition of any new item of work.

WHEREAS, the Principal has executed Contract for **2018 SANITARY & STORM SEWER LINING PROJECT** with the City; and

WHEREAS, said Contract and Chapter 60.28 RCW require the City to withhold from the Principal the sum of five percent (5%) from monies earned by the Principal on estimates during the progress of the work, hereinafter referred to as earned retained funds; and

WHEREAS, the Principal/Surety has requested that the City accept a bond in lieu of earned retained funds as allowed under Chapter 60.28 RCW.

NOW, THEREFORE, this obligation is such that the Surety, its successors and assigns, are held and bound unto City, State and unto all beneficiaries of the trust fund created by RCW 60.28.011 (1) in the aforesaid sum. This bond, including any proceeds therefrom, is subject to all claims and liens and in the same manner and priority as set forth for retained percentages in Chapter 60.28 RCW. The condition of this obligation is such that if the Principal shall satisfy all payment obligations to persons who may lawfully claim under the trust fund created pursuant to Chapter 60.28 RCW, to the State of Washington, and to the City, and indemnify and hold the City harmless from any and all loss, costs, and damages that the City may sustain by release of said retainage to Principal/Surety, then this obligation shall be null and void provided the Surety is notified by City that the requirements of RCW 60.28.021 have been satisfied and the obligation is duly released by City; otherwise it shall remain in full force and effect.

IT IS HEREBY DECLARED AND AGREED that the Surety shall be liable under this obligation as Principal. The Surety will not be discharged or released from liability for any act, omission, or defense of any kind or nature that would not also discharge the Principal.

IT IS HEREBY FURTHER DECLARED AND AGREED that this obligation shall be binding upon and inure to the benefit of the Principal, the Surety, the City, State and, the beneficiaries of the trust fund created by Chapter 60.28, Revised Code of Washington (RCW) and their respective heirs, executors, administrators, successors and assigns.

SIGNED AND SEALED this day of _____, 2018.

Principal:

By: _____
Name/Title:
Address:

Surety:

By: _____
Name/Title:
Address:

Note: A power of attorney must be provided which appoints the Surety's true and lawful attorney-in-fact to make, execute, seal and deliver this bond.

PUBLIC WORKS PAYMENT BOND
TO CITY OF MOUNT VERNON, WASHINGTON
BOND NO. _____

The City of Mount Vernon, Washington has awarded to _____ (Principal), a contract for the construction of the project designated as **2018 SANITARY & STORM SEWER LINING, PROJECT SS-2018-003**, and said Principal is required under the terms of that Contract to furnish a payment bond in accord with Title 39.08 Revised Code of Washington (RCW) and (where applicable) 60.28 RCW.

The Principal, and _____ (Surety), a corporation organized under the laws of the State of _____ and licensed to do business in the State of Washington as surety and named in the current list of "Surety Companies Acceptable in Federal Bonds" as published in the Federal Register by the Audit Staff Bureau of Accounts, U.S. Treasury Dept., are jointly and severally held and firmly bound to the City in the sum of _____ US Dollars (\$ _____) Total Contract Amount, subject to the provisions herein.

This statutory payment bond shall become null and void, if and when the Principal, its heirs, executors, administrators, successors, or assigns shall pay all persons in accordance with RCW 39.08, 39.12, and 60.28 including all workers, laborers, mechanics, subcontractors, and materialmen, and all person who shall supply such contractor or subcontractor with provisions and supplies for the carrying on of such work, and all taxes incurred on said Contract under Titles 50 and 51 RCW and all taxes imposed on the Principal under Title 82 RCW; and if such payment obligations have not been fulfilled, this bond shall remain in full force and effect.

The Surety for value received agrees that no change, extension of time, alteration or addition to the terms of the Contract, the specifications accompanying the Contract, or to the work to be performed under the Contract shall in any way affect its obligation on this bond, and waives notice of any changes, extension of time, alteration or addition to the terms of the Contract or the work performed. The Surety agrees that modifications and changes to the terms and conditions of the Contract that increase the total amount to be paid the Principal shall automatically increase the obligation of the Surety on this bond and notice to Surety is not required for such increased obligation.

This bond may be executed in two (2) original counterparts, and shall be signed by the parties' duly authorized officers. This bond will only be accepted if it is accompanied by a fully executed and original power of attorney for the office executing on behalf of the surety.

PRINCIPAL

SURETY

Principal Signature

Date

Surety Signature

Date

Printed Name

Printed Name

Title

Title

Name, address, and telephone of local office/agent of Surety Company is:

Approved as to form:

Kevin Rogerson
City Attorney of Mount Vernon, WA

Date

**PERFORMANCE BOND
TO THE
CITY OF MOUNT VERNON, WASHINGTON**

KNOW ALL MEN BY THESE PRESENTS, that whereas the City of Mount Vernon, Washington has awarded to _____, hereinafter designated as the "Principal" a contract for the **2018 SANITARY & STORM SEWER LINING PROJECT SS-2018-003**, as hereto attached and made a part hereof and whereas, said Principal is required under the terms of said contract to furnish a bond for the faithful performance of said contract.

NOW THEREFORE, we the Principal and _____ (*surety*) a corporation, organized and existing under and by the virtue of the laws of the State of Washington, duly authorized to do business in the State of Washington, as surety are held and firmly bound unto the City of Mount Vernon, Washington in the sum of:

_____ (\$ _____) *Total Contract Amount.*

Lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by those presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that if the above bonded Principal, his or its heirs, executors, administrators, successors, or assigns, shall in all things stand to and abide by, and well and truly keep and perform the covenants, conditions and agreements in the said Contract, and shall faithfully perform all the provisions of such Contract and shall also well and truly perform and fulfill all the undertakings, covenants, terms, conditions and agreements of any and all duly authorized modifications of said contract that may hereafter be made, at the time and in the manner therein specified or within such extensions of time as may be granted under said contract, and shall pay all laborer, mechanics, subcontractors, and material men and all persons who shall supply such person or persons, or subcontractors, with provisions and supplies for the carrying on of such work, on his or their part, the claims of any persons or persons arising under the contract to the extent such claims are provided for in RCW 39.08.010; the State of Washington with respect to taxes imposed pursuant to Titles 50,51, and 82 RCW which may be due; and shall indemnify and save harmless the City of Mount Vernon, Washington, their officers and agents from any claim for such payment and from any damage or expense by reason of failure of performance as specified in said contract; and shall further save harmless and indemnify said City of Mount Vernon, Washington, from any defect or defects in any of the workmanship entering into any part of the work or designated equipment covered by said contract, which shall develop or be discovered within one (1) year after the final acceptance of such work, then this obligation shall become null and void; otherwise, it shall be and remain in full force and effect; provided that the liability hereunder for defects in materials and workmanship for a period of one year after the acceptance of the works shall not exceed the sum of:

_____ (\$ _____) *Total Contract Amount.*

And the said surety, for value received, hereby further stipulates and agrees that no change, extension of time, alteration or addition to the terms of the Contract or to the work to be performed thereunder or the specifications accompanying the same shall in any way affects its obligation this bond, and it does hereby waive notice of any change, extension of time, alterations, or additions to the terms of the Contract or the work or to the specifications.

The Surety hereby agrees that the modifications and changes may be made in the terms and provisions of the aforesaid Contract without notice to Surety, and any such modifications or changes increasing the total amount to be paid the Principal shall automatically increase the obligation of the Surety on this Performance Bond in a like amount, such increase, however, not to exceed twenty-five percent (25%) of the original amount of this bond without the consent of the Surety.

IN WITNESS WHEREOF, the said Principal and the said Surety have caused this bond and two counterparts thereof to be signed and sealed by their duly authorized officers this _____ day of _____, 2018.

Principal

Surety

By: _____
Signature

By: _____
Signature

Printed

Printed

Title: _____

ATTEST *(if corporation)*: _____ (Corporate Seal)

Name and address of local office/agent of
Surety Company is:

By: _____

Title: _____

Approved as to form:

City Attorney

AMENDMENTS TO THE STANDARD SPECIFICATIONS

1 **INTRO.AP1**
2 **INTRODUCTION**

3 The following Amendments and Special Provisions shall be used in conjunction with the
4 2018 Standard Specifications for Road, Bridge, and Municipal Construction.

5
6 **AMENDMENTS TO THE STANDARD SPECIFICATIONS**
7

8 The following Amendments to the Standard Specifications are made a part of this contract
9 and supersede any conflicting provisions of the Standard Specifications. For informational
10 purposes, the date following each Amendment title indicates the implementation date of the
11 Amendment or the latest date of revision.

12
13 Each Amendment contains all current revisions to the applicable section of the Standard
14 Specifications and may include references which do not apply to this particular project.

15
16 1-02.AP1
17 **Section 1-02, Bid Procedures and Conditions**
18 **April 2, 2018**

19 **1-02.4(1) General**

20 This section is supplemented with the following:

21
22 Prospective Bidders are advised that the Contracting Agency may include a partially
23 completed Washington State Department of Ecology (Ecology) Transfer of Coverage
24 (Ecology Form ECY 020-87a) for the Construction Stormwater General Permit
25 (CSWGP) as part of the Bid Documents. When the Contracting Agency requires the
26 transfer of coverage of the CSWGP to the Contractor, an informational copy of the
27 Transfer of Coverage and the associated CSWGP will be included in the appendices.
28 As a condition of Section 1-03.3, the Contractor is required to complete sections I, III,
29 and VIII of the Transfer of Coverage and return the form to the Contracting Agency.

30
31 The Contracting Agency is responsible for compliance with the CSWGP until the end of
32 day that the Contract is executed. Beginning on the day after the Contract is executed,
33 the Contractor shall assume complete legal responsibility for compliance with the
34 CSWGP and full implementation of all conditions of the CSWGP as they apply to the
35 Contract Work.

36
37 **1-02.5 Proposal Forms**

38 The first sentence of the first paragraph is revised to read:

39
40 At the request of a Bidder, the Contracting Agency will provide a physical Proposal
41 Form for any project on which the Bidder is eligible to Bid.

42
43 **1-02.6 Preparation of Proposal**

44 Item number 1 of the second paragraph is revised to read:

- 45
46 1. A unit price for each item (omitting digits more than two places to the right of the
47 decimal point),
48

1 In the third sentence of the fourth paragraph, "WSDOT Form 422-031" is revised to read
2 "WSDOT Form 422-031U".

3
4 The following is inserted after the third sentence of the fourth paragraph:

5
6 Bidders shall submit a UDBE Broker Agreement documenting the fees or commissions
7 charged by the Broker for any Broker listed on the UDBE Utilization Certification in
8 accordance with the Special Provisions. Bidders shall submit a completed UDBE
9 Trucking Credit Form for each UDBE Trucking firm listed on the UDBE Utilization
10 Certification in accordance with the Special Provisions. WSDOT Form 272-058 is
11 available for this purpose.

12
13 The following new paragraph is inserted before the last paragraph:

14
15 The Bidder shall submit with their Bid a completed Contractor Certification Wage Law
16 Compliance form (WSDOT Form 272-009). Failure to return this certification as part of
17 the Bid Proposal package will make this Bid Nonresponsive and ineligible for Award. A
18 Contractor Certification of Wage Law Compliance form is included in the Proposal
19 Forms.

20 21 **1-02.13 Irregular Proposals**

22 Item 1(h) is revised to read:

- 23
24 h. The Bidder fails to submit Underutilized Disadvantaged Business Enterprise Good
25 Faith Effort documentation, if applicable, as required in Section 1-02.6, or if the
26 documentation that is submitted fails to demonstrate that a Good Faith Effort to
27 meet the Condition of Award was made;

28
29 Item 1(i) is revised to read the following three items:

- 30
31 i. The Bidder fails to submit an Underutilized Disadvantaged Business Enterprise
32 Trucking Credit Form, if applicable, as required in Section 1-02.6, or if the Form
33 that is submitted fails to meet the requirements of the Special Provisions;
34
35 j. The Bidder fails to submit an Underutilized Disadvantaged Business Enterprise
36 Broker Agreement, if applicable, as required in Section 1-02.6, or if the
37 documentation that is submitted fails to demonstrate that the fee/commission is
38 reasonable as determined by the Contracting Agency; or
39
40 k. The Bid Proposal does not constitute a definite and unqualified offer to meet the
41 material terms of the Bid invitation.
42
43
44
45
46

1 1-03.AP1
2 **Section 1-03, Award and Execution of Contract**
3 **January 2, 2018**

4 **1-03.3 Execution of Contract**

5 The first paragraph is revised to read:

6
7 Within 20 calendar days after the Award date, the successful Bidder shall return the
8 signed Contracting Agency-prepared Contract, an insurance certification as required by
9 Section 1-07.18, a satisfactory bond as required by law and Section 1-03.4, the
10 Transfer of Coverage form for the Construction Stormwater General Permit with
11 sections I, III, and VIII completed when provided, and shall be registered as a contractor
12 in the state of Washington.
13

14 **1-03.5 Failure to Execute Contract**

15 The first sentence is revised to read:

16
17 Failure to return the insurance certification and bond with the signed Contract as
18 required in Section 1-03.3, or failure to provide Disadvantaged, Minority or Women's
19 Business Enterprise information if required in the Contract, or failure or refusal to sign
20 the Contract, or failure to register as a contractor in the state of Washington, or failure
21 to return the completed Transfer of Coverage for the Construction Stormwater General
22 Permit to the Contracting Agency when provided shall result in forfeiture of the proposal
23 bond or deposit of this Bidder.
24

25 1-05.AP1
26 **Section 1-05, Control of Work**
27 **April 2, 2018**

28 **1-05.9 Equipment**

29 The following new paragraph is inserted before the first paragraph:

30
31 Prior to mobilizing equipment on site, the Contractor shall thoroughly remove all loose
32 dirt and vegetative debris from drive mechanisms, wheels, tires, tracks, buckets and
33 undercarriage. The Engineer will reject equipment from the site until it returns clean.
34

35 This section is supplemented with the following:

36
37 Upon completion of the Work, the Contractor shall completely remove all loose dirt and
38 vegetative debris from equipment before removing it from the job site.
39

40 1-06.AP1
41 **Section 1-06, Control of Material**
42 **January 2, 2018**

43 **1-06.1(3) Aggregate Source Approval (ASA) Database**

44 This section is supplemented with the following:
45

1 Regardless of status of the source, whether listed or not listed in the ASA database the
2 source owner may be asked to provide testing results for toxicity in accordance with
3 Section 9-03.21(1).
4

5 **1-06.2(2)D Quality Level Analysis**

6 This section is supplemented with the following new subsection:
7

8 **1-06.2(2)D5 Quality Level Calculation – HMA Compaction**

9 The procedures for determining the quality level and pay factor for HMA compaction are
10 as follows:
11

- 12 1. Determine the arithmetic mean, X_m , for compaction of the lot:
13

$$14 \quad X_m = \frac{\sum x}{n}$$

15
16 Where:

17 x = individual compaction test values for each subplot in the lot.

18 $\sum x$ = summation of individual compaction test values

19 n = total number test values
20

- 21 2. Compute the sample standard deviation, “S”, for each constituent:
22

$$23 \quad S = \left[\frac{n \sum x^2 - (\sum x)^2}{n(n-1)} \right]^{\frac{1}{2}}$$

24
25 Where:

26 $\sum x^2$ = summation of the squares of individual compaction test values

27 $(\sum x)^2$ = summation of the individual compaction test values squared
28

- 29 3. Compute the lower quality index (Q_L):
30

$$31 \quad Q_L = \frac{X_m - LSL}{S}$$

32
33 Where:

34 $LSL = 91.5$
35

- 36 4. Determine P_L (the percent within the lower Specification limit which
37 corresponds to a given Q_L) from Table 1. For negative values of Q_L , P_L is
38 equal to 100 minus the table P_L . If the value of Q_L does not correspond exactly
39 to a figure in the table, use the next higher value.
40

- 41 5. Determine the quality level (the total percent within Specification limits):
42

43 Quality Level = P_L
44

- 1 6. Using the quality level from step 5, determine the composite pay factor (CPF)
2 from Table 2.
3
4 7. If the CPF determined from step 6 is 1.00 or greater: use that CPF for the
5 compaction lot; however, the maximum HMA compaction CPF using an LSL =
6 91.5 shall be 1.05.
7
8 8. If the CPF from step 6 is not 1.00 or greater: repeat steps 3 through 6 using an
9 LSL = 91.0. The value thus determined shall be the HMA compaction CPF for
10 that lot; however, the maximum HMA compaction CPF using an LSL = 91.00
11 shall be 1.00.
12

13 **1-06.2(2)D4 Quality Level Calculation**

14 The first paragraph (excluding the numbered list) is revised to read:

15
16 The procedures for determining the quality level and pay factors for a material, other
17 than HMA compaction, are as follows:

18
19 1-07.AP1

20 **Section 1-07, Legal Relations and Responsibilities to the Public**

21 **April 2, 2018**

22 **1-07.5 Environmental Regulations**

23 This section is supplemented with the following new subsections:

24 **1-07.5(5) U.S. Army Corps of Engineers**

25 When temporary fills are permitted, the Contractor shall remove fills in their entirety and
26 the affected areas returned to pre-construction elevations.
27

28
29 If a U.S. Army Corps of Engineers permit is noted in Section 1-07.6 of the Special
30 Provisions, the Contractor shall retain a copy of the permit or the verification letter (in
31 the case of a Nationwide Permit) on the worksite for the life of the Contract. The
32 Contractor shall provide copies of the permit or verification letter to all subcontractors
33 involved with the authorized work prior to their commencement of any work in waters of
34 the U.S.
35

36 **1-07.5(6) U.S. Fish/Wildlife Services and National Marine Fisheries Service**

37 The Contracting Agency will provide fish exclusion and handling services if the Work
38 dictates. However, if the Contractor discovers any fish stranded by the project and a
39 Contracting Agency biologist is not available, they shall immediately release the fish
40 into a flowing stream or open water.
41

42 **1-07.5(1) General**

43 The first sentence is deleted and replaced with the following:

44
45 No Work shall occur within areas under the jurisdiction of resource agencies unless
46 authorized in the Contract.
47

48 The third paragraph is deleted.
49

1 **1-07.5(2) State Department of Fish and Wildlife**

2 This section is revised to read:

3
4 In doing the Work, the Contractor shall:

- 5
6 1. Not degrade water in a way that would harm fish, wildlife, or their habitat.
7
8 2. Not place materials below or remove them from the ordinary high water line
9 except as may be specified in the Contract.
10
11 3. Not allow equipment to enter waters of the State except as specified in the
12 Contract.
13
14 4. Revegetate in accordance with the Plans, unless the Special Provisions permit
15 otherwise.
16
17 5. Prevent any fish-threatening silt buildup on the bed or bottom of any body of
18 water.
19
20 6. Ensure continuous stream flow downstream of the Work area.
21
22 7. Dispose of any project debris by removal, burning, or placement above high-
23 water flows.
24
25 8. Immediately notify the Engineer and stop all work causing impacts, if at any
26 time, as a result of project activities, fish are observed in distress or a fish kill
27 occurs.
28

29 If the Work in (1) through (3) above differs little from what the Contract requires, the
30 Contracting Agency will measure and pay for it at unit Contract prices. But if Contract
31 items do not cover those areas, the Contracting Agency will pay pursuant to Section 1-
32 09.4. Work in (4) through (8) above shall be incidental to Contract pay items.
33

34 **1-07.5(3) State Department of Ecology**

35 This section is revised to read:

36
37 In doing the Work, the Contractor shall:

- 38
39 1. Comply with Washington State Water Quality Standards.
40
41 2. Perform Work in such a manner that all materials and substances not
42 specifically identified in the Contract documents to be placed in the water do
43 not enter waters of the State, including wetlands. These include, but are not
44 limited to, petroleum products, hydraulic fluid, fresh concrete, concrete
45 wastewater, process wastewater, slurry materials and waste from shaft drilling,
46 sediments, sediment-laden water, chemicals, paint, solvents, or other toxic or
47 deleterious materials.
48
49 3. Use equipment that is free of external petroleum-based products.
50

- 1 4. Remove accumulations of soil and debris from drive mechanisms (wheels,
2 tracks, tires) and undercarriage of equipment prior to using equipment below
3 the ordinary high water line.
- 4
- 5 5. Clean loose dirt and debris from all materials placed below the ordinary high
6 water line. No materials shall be placed below the ordinary high water line
7 without the Engineer's concurrence.
- 8
- 9 6. When a violation of the Construction Stormwater General Permit (CSWGP)
10 occurs, immediately notify the Engineer and fill out WSDOT Form 422-011,
11 Contractor ECAP Report, and submit the form to the Engineer within 48 hours
12 of the violation.
- 13
- 14 7. Once Physical Completion has been given, prepare a Notice of Termination
15 (Ecology Form EGY 020-87) and submit the Notice of Termination
16 electronically to the Engineer in a PDF format a minimum of 7 calendar days
17 prior to submitting the Notice of Termination to Ecology.
- 18
- 19 8. Transfer the CSWGP coverage to the Contracting Agency when Physical
20 Completion has been given and the Engineer has determined that the project
21 site is not stabilized from erosion.
- 22
- 23 9. Submit copies of all correspondence with Ecology electronically to the
24 Engineer in a PDF format within four calendar days.
- 25

26 **1-07.5(4) Air Quality**

27 This section is revised to read:

28
29 The Contractor shall comply with all regional clean air authority and/or State
30 Department of Ecology rules and regulations.

31
32 The air quality permit process may include additional State Environment Policy Act
33 (SEPA) requirements. Contractors shall contact the appropriate regional air pollution
34 control authority well in advance of beginning Work.

35
36 When the Work includes demolition or renovation of any existing facility or structure that
37 contains Asbestos Containing Material (ACM) and/or Presumed Asbestos-Containing
38 Material (PACM), the Contractor shall comply with the National Emission Standards for
39 Hazardous Air Pollutants (NESHAP).

40
41 Any requirements included in Federal and State regulations regarding air quality that
42 applies to the "owner or operator" shall be the responsibility of the Contractor.

43 **1-07.7(1) General**

44 The first sentence of the third paragraph is revised to read:

45
46
47 When the Contractor moves equipment or materials on or over Structures, culverts or
48 pipes, the Contractor may operate equipment with only the load-limit restrictions in
49 Section 1-07.7(2).

1 The first sentence of the last paragraph is revised to read:

2
3 Unit prices shall cover all costs for operating over Structures, culverts and pipes.

4
5 **1-07.9(2) Posting Notices**

6 The second sentence of the first paragraph (up until the colon) is revised to read:

7
8 The Contractor shall ensure the most current edition of the following are posted:

9
10 In items 1 through 10, the revision dates are deleted.

11
12 **1-07.11(2) Contractual Requirements**

13 In this section, “creed” is revised to read “religion”.

14
15 Item numbers 1 through 9 are revised to read 2 through 10, respectively.

16
17 After the preceding Amendment is applied, the following new item number 1 is inserted:

- 18
19 1. The Contractor shall maintain a Work site that is free of harassment, humiliation,
20 fear, hostility and intimidation at all times. Behaviors that violate this requirement
21 include but are not limited to:
- 22 a. Persistent conduct that is offensive and unwelcome.
 - 23 b. Conduct that is considered to be hazing.
 - 24 c. Jokes about race, gender, or sexuality that are offensive.
 - 25 d. Unwelcome, unwanted, rude or offensive conduct or advances of a sexual
26 nature which interferes with a person’s ability to perform their job or creates an
27 intimidating, hostile, or offensive work environment.
 - 28 e. Language or conduct that is offensive, threatening, intimidating or hostile
29 based on race, gender, or sexual orientation.
 - 30 f. Repeating rumors about individuals in the Work Site that are considered to be
31 harassing or harmful to the individual’s reputation.
- 32
33
34
35
36
37
38

39 **1-07.11(5) Sanctions**

40 This section is supplemented with the following:

41
42 Immediately upon the Engineer’s request, the Contractor shall remove from the Work
43 site any employee engaging in behaviors that promote harassment, humiliation, fear or
44 intimidation including but not limited to those described in these specifications.

45
46 **1-07.11(6) Incorporation of Provisions**

47 The first sentence is revised to read:

1 The Contractor shall include the provisions of Section 1-07.11(2) Contractual
2 Requirements (1) through (5) and the Section 1-07.11(5) Sanctions in every
3 subcontract including procurement of materials and leases of equipment.
4

5 **1-07.18 Public Liability and Property Damage Insurance**

6 Item number 1 is supplemented with the following new sentence:
7

8 This policy shall be kept in force from the execution date of the Contract until the
9 Physical Completion Date.
10

11 1-08.AP1

12 **Section 1-08, Prosecution and Progress** 13 **January 2, 2018**

14 **1-08.5 Time for Completion**

15 Item number 2 of the sixth paragraph is supplemented with the following:
16

- 17 f. A copy of the Notice of Termination sent to the Washington State Department of
18 Ecology (Ecology); the elapse of 30 calendar days from the date of receipt of the
19 Notice of Termination by Ecology; and no rejection of the Notice of Termination by
20 Ecology. This requirement will not apply if the Construction Stormwater General
21 Permit is transferred back to the Contracting Agency in accordance with Section 8-
22 01.3(16).
23

24 **1-08.7 Maintenance During Suspension**

25 The fifth paragraph is revised to read:
26

27 The Contractor shall protect and maintain all other Work in areas not used by traffic. All
28 costs associated with protecting and maintaining such Work shall be the responsibility
29 of the Contractor.
30

31 1-09.AP1

32 **Section 1-09, Measurement and Payment** 33 **April 2, 2018**

34 **1-09.2(2) Specific Requirements for Batching Scales**

35 The last sentence of the first paragraph is revised to read:
36

37 Batching scales used for concrete or hot mix asphalt shall not be used for batching
38 other materials.
39

40 2-02.AP2

41 **Section 2-02, Removal of Structures and Obstructions** 42 **April 2, 2018**

43 **2-02.3(3) Removal of Pavement, Sidewalks, Curbs, and Gutters**

44 In item number 3 of the first paragraph, the second sentence is revised to read:
45

1 For concrete pavement removal, a second vertical full depth relief saw cut offset 12 to
2 18 inches from and parallel to the initial saw cut is also required, unless the Engineer
3 allows otherwise.
4

5 2-09.AP2

6 **Section 2-09, Structure Excavation**

7 **April 2, 2018**

8 **2-09.2 Materials**

9 In the first paragraph, the references to “Portland Cement” and “Aggregates for Portland
10 Cement Concrete” are revised to read:

11
12 Cement 9-01
13 Fine Aggregate for Concrete 9-03.1(2)
14

15 **2-09.3(3)D Shoring and Cofferdams**

16 The first sentence of the sixth paragraph is revised to read:

17
18 Structural shoring and cofferdams shall be designed for conditions stated in this Section
19 using methods shown in Division I Section 5 of the AASHTO *Standard Specifications*
20 *for Highway Bridges* Seventeenth Edition – 2002 for allowable stress design, or the
21 AASHTO *LRFD Bridge Design Specifications* for load and resistance factor design.
22

23 3-01.AP3

24 **Section 3-01, Production from Quarry and Pit Sites**

25 **April 2, 2018**

26 **3-01.1 Description**

27 The first paragraph is revised to read:

28
29 This Work shall consist of manufacturing and producing crushed and screened
30 aggregates including pit run aggregates of the kind, quality, and grading specified for
31 use in the construction of concrete, hot mix asphalt, crushed surfacing, maintenance
32 rock, ballast, gravel base, gravel backfill, gravel borrow, riprap, and bituminous surface
33 treatments of all descriptions.
34

35 4-04.AP4

36 **Section 4-04, Ballast and Crushed Surfacing**

37 **April 2, 2018**

38 **4-04.3(5) Shaping and Compaction**

39 This section is supplemented with the following new paragraph:

40
41 When using 100% Recycled Concrete Aggregate, the Contractor may submit a written
42 request to use a test point evaluation for compaction acceptance testing in lieu of
43 compacting to 95% of the standard density as determined by the requirements of
44 Section 2-03.3(14)D. The test point evaluation shall be performed in accordance with
45 SOP 738.
46

1 5-01.AP5
2 **Section 5-01, Cement Concrete Pavement Rehabilitation**
3 **April 2, 2018**

4 **5-01.3(4) Replace Cement Concrete Panel**

5 The last sentence of the fourth to last paragraph is revised to read:

6
7 If the replacement panel is located in an area that will be ground as part of concrete
8 pavement grinding in accordance with Section 5-01.3(9), the surface smoothness shall
9 be measured, by the Contractor, in conjunction with the smoothness measurement
10 done in accordance with Section 5-01.3(10).

11
12 5-04.AP5
13 **Section 5-04, Hot Mix Asphalt**
14 **April 2, 2018**

15 **5-04.1 Description**

16 The last sentence of the first paragraph is revised to read:

17
18 The manufacture of HMA may include additives or processes that reduce the optimum
19 mixing temperature (Warm Mix Asphalt) or serve as a compaction aid in accordance
20 with these Specifications.

21
22 **5-04.2 Materials**

23 The reference to “Warm Mix Asphalt Additive” is revised to read “HMA Additive”.

24
25 **5-04.2(1) How to Get an HMA Mix Design on the QPL**

26 The last bullet in the first paragraph is revised to read:

- 27
28 • Do not include HMA additives that reduce the optimum mixing temperature or
29 serve as a compaction aid when developing a mix design or submitting a mix
30 design for QPL evaluation. The use of HMA additives is not part of the process for
31 obtaining approval for listing a mix design on the QPL. Refer to Section 5-04.2(2)B.

32
33 In the table, “WSDOT Standard Practice QC-8” is revised to read “WSDOT Standard
34 Practice QC-8 located in the WSDOT Materials Manual M 46-01”.

35
36 **5-04.2(1)C Mix Design Resubmittal for QPL Approval**

37 Item number 3 of the first paragraph is revised to read:

- 38
39 3. Changes in modifiers used in the asphalt binder.

40
41 **5-04.2(2)B Using Warm Mix Asphalt Processes**

42 This section, including title, is revised to read:

43
44 **5-04.2(2)B Using HMA Additives**

45 The Contractor may, at the Contractor’s discretion, elect to use additives that reduce
46 the optimum mixing temperature or serve as a compaction aid for producing HMA.
47 Additives include organic additives, chemical additives and foaming processes. The use
48 of Additives is subject to the following:

- Do not use additives that reduce the mixing temperature in accordance with Section 5-04.3(6) in the production of High RAP/Any RAS mixtures.
- Before using additives, obtain the Engineer’s approval using WSDOT Form 350-076 to describe the proposed additive and process.

5-04.3(3)A Mixing Plant

In item number 5 of the first paragraph, “WSDOT T 168” is revised to read “FOP for AASHTO T 168”.

5-04.3(4) Preparation of Existing Paved Surfaces

The first sentence of the fourth paragraph is revised to read:

Unless otherwise allowed by the Engineer, use cationic emulsified asphalt CSS-1, CSS-1h, or Performance Graded (PG) asphalt for tack coat.

5-04.3(6) Mixing

The first paragraph is revised to read:

The asphalt supplier shall introduce recycling agent and anti-stripping additive, in the amount designated on the QPL for the mix design, into the asphalt binder prior to shipment to the asphalt mixing plant.

The seventh paragraph is revised to read:

Upon discharge from the mixer, ensure that the temperature of the HMA does not exceed the optimum mixing temperature shown on the accepted Mix Design Report by more than 25°F, or as allowed by the Engineer. When an additive is included in the manufacture of HMA, do not heat the additive (at any stage of production including in binder storage tanks) to a temperature higher than the maximum recommended by the manufacturer of the additive.

5-04.3(7) Spreading and Finishing

The last row of the table is revised to read:

$\frac{3}{8}$ inch	0.25 feet	0.30 feet
--------------------	-----------	-----------

5-04.3(8) Aggregate Acceptance Prior to Incorporation in HMA

The following new paragraph is inserted after the first paragraph:

The Contracting Agency’s combined aggregate bulk specific gravity (Gsb) blend as shown on the HMA Mix Design will be used for VMA calculations until the Contractor submits a written request for a Gsb test. The new Gsb will be used in the VMA calculations for HMA from the date the Engineer receives the written request for a Gsb retest. The Contractor may request aggregate specific gravity (Gsb) testing be performed by the Contracting Agency twice per project. The Gsb blend of the combined stockpiles will be used to calculate voids in mineral aggregate (VMA) of any HMA produced after the new Gsb is determined.

1 **5-04.3(9)A1 Test Section – When Required, When to Stop**

2 The following new row is inserted after the second row in Table 9:

VMA	Minimum PFI of 0.95 based on the criteria in Section 5-04.3(9)B4 ²	None ⁴
-----	---	-------------------

4 **5-04.3(9)A2 Test Section – Evaluating the HMA Mixture in a Test Section**

5 In Table 9a, the test property “Gradation, Asphalt Binder, and Va” is revised to read
6 “Gradation, Asphalt Binder, VMA, and Va”
7

8 **5-04.3(9)B3 Mixture Statistical Evaluation – Acceptance Testing**

9 In Table 11, “Va” is revised to read “VMA and Va”
10

11 **5-04.3(9)B5 Mixture Statistical Evaluation – Composite Pay Factors (CPF)**

12 The following new row is inserted above the last row in Table 12:
13

Voids in Mineral Aggregate (VMA)	2
----------------------------------	---

14 **5-04.3(9)B7 Mixture Statistical Evaluation – Retests**

15 The second to last sentence is revised to read:
16

17
18
19 The sample will be tested for a complete gradation analysis, asphalt binder content,
20 VMA and Va, and the results of the retest will be used for the acceptance of the HMA
21 mixture in place of the original mixture subplot sample test results.
22

23 **5-04.3(10)C1 HMA Compaction Statistical Evaluation – Lots and Sublots**

24 The bulleted item in the fourth paragraph is revised to read:
25

- 26 • For a compaction lot in progress with a compaction CPF less than 0.75 using an
27 LSL = 91.0, a new compaction lot will begin at the Contractor’s request after the
28 Engineer is satisfied that material conforming to the Specifications can be
29 produced. See also Section 5-04.3(11)F.
30

31 **5-04.3(10)C2 HMA Compaction Statistical Evaluation – Acceptance Testing**

32 In the table, “WSDOT FOP for AASHTO T 355” is revised to read “FOP for AASHTO T 355”.
33

34 **5-04.3(10)C3 HMA Statistical Compaction – Price Adjustments**

35 In the first paragraph, “WSDOT FOP for AASHTO T 355” is revised to read “FOP for
36 AASHTO T 355”.
37

38 The first sentence in the second paragraph is revised to read:
39

40 For each HMA compaction lot (that is accepted by Statistical Evaluation) which does
41 not meet the criteria in the preceding paragraph, the compaction lot shall be evaluated
42 in accordance with Section 1-06.2(2)D5 to determine the appropriate Composite Pay
43 Factor (CPF).
44

45 The last two paragraphs are revised to read:

Determine the Compaction Price Adjustment (CPA) from the table below, selecting the equation for CPA that corresponds to the value of CPF determined above.

Calculating HMA Compaction Price Adjustment (CPA)	
Value of CPF	Equation for Calculating CPA
When CPF > 1.00	$CPA = [0.80 \times (CPF - 1.00)] \times Q \times UP$
When CPF = 1.00	CPA = \$0
When CPF < 1.0	$CPA = [0.40 \times (CPF - 1.00)] \times Q \times UP$

Where

CPA = Compaction Price Adjustment for the compaction lot (\$)

CPF = Composite Pay Factor for the compaction lot (maximum is 1.05)

Q = Quantity in the compaction lot (tons)

UP = Unit price of the HMA in the compaction lot (\$/ton)

5-04.3(13) Surface Smoothness

The second to last paragraph is revised to read:

When concrete pavement is to be placed on HMA, the surface tolerance of the HMA shall be such that no surface elevation lies above the Plan grade minus the specified Plan depth of concrete pavement. Prior to placing the concrete pavement, bring any such irregularities to the required tolerance by grinding or other means allowed by the Engineer.

5-04.5 Payment

The paragraph following the Bid item "Crack Sealing-LF", per linear foot is revised to read:

The unit Contract price per linear foot for "Crack Sealing-LF" shall be full payment for all costs incurred to perform the Work described in Section 5-04.3(4)A.

5-05.AP5

Section 5-05, Cement Concrete Pavement

April 2, 2018

5-05.1 Description

In the first paragraph, "portland cement concrete" is revised to read "cement concrete".

5-05.2 Materials

In the first paragraph, the reference to "Portland Cement" is revised to read:

Cement 9-01

5-05.3(1) Concrete Mix Design for Paving

The table title in item number 4 is revised to read **Concrete Batch Weights**.

In item 4a, "Portland Cement" is revised to read "Cement".

1 **5-05.3(4) Measuring and Batching Materials**

2 Item number 2 is revised to read:

- 3
4 2. **Batching Materials** – On all projects requiring more than 2,500 cubic yards of
5 concrete for paving, the batching plant shall be equipped to proportion aggregates
6 and cement by weight by means of automatic and interlocked proportioning
7 devices of accepted type.
8

9 **5-05.3(4)A Acceptance of Portland Cement Concrete Pavement**

10
11 This section's title is revised to read:

12
13 **Acceptance of Portland Cement or Blended Hydraulic Cement Concrete**
14 **Pavement**

15
16 The first sentence is revised to read:

17
18 Acceptance of portland cement or blended hydraulic cement concrete pavement shall
19 be as provided under statistical or nonstatistical acceptance.
20

21 **5-05.4 Measurement**

22 The last paragraph is revised to read:

23
24 The calculation for cement concrete compliance adjustment is the volume of concrete
25 represented by the CPF and the Thickness deficiency adjustment.
26

27 **5-05.5 Payment**

28 The bid item "Portland Cement Concrete Compliance Adjustment", by calculation, and the
29 paragraph following this bid item are revised to read:

30
31 "Cement Concrete Compliance Adjustment", by calculation.
32

33 Payment for "Cement Concrete Compliance Adjustment" will be calculated by
34 multiplying the unit Contract price for the cement concrete pavement, times the volume
35 for adjustment, times the percent of adjustment determined from the calculated CPF
36 and the Deficiency Adjustment listed in Section 5-05.5(1)A.
37

38 6-01.AP6

39 **Section 6-01, General Requirements for Structures**
40 **January 2, 2018**

41 **6-01.10 Utilities Supported by or Attached to Bridges**

42 In the third paragraph, "Federal Standard 595" is revised to read "SAE AMS Standard 595".
43

44 **6-01.12 Final Cleanup**

45 The second paragraph is deleted.
46

1 6-02.AP6
2 **Section 6-02, Concrete Structures**
3 **April 2, 2018**

4 **6-02.1 Description**

5 The first sentence is revised to read:

6
7 This Work consists of the construction of all Structures (and their parts) made of
8 portland cement or blended hydraulic cement concrete with or without reinforcement,
9 including bridge approach slabs.

10
11 **6-02.2 Materials**

12 In the first paragraph, the references to “Portland Cement” and “Aggregates for Portland
13 Cement Concrete” are revised to read:

14
15 Cement 9-01
16 Aggregates for Concrete 9-03.1

17
18 **6-02.3(2) Proportioning Materials**

19 The second paragraph is revised to read:

20
21 Unless otherwise specified, the Contractor shall use Type I or II portland cement or
22 blended hydraulic cement in all concrete as defined in Section 9-01.2(1).

23
24 **6-02.3(2)A Contractor Mix Design**

25 The last sentence of the last paragraph is revised to read:

26
27 For all other concrete, air content shall be a minimum of 4.5 percent and a maximum of
28 7.5 percent for all concrete placed above the finished ground line unless noted
29 otherwise.

30
31 **6-02.3(2)A1 Contractor Mix Design for Concrete Class 4000D**

32 Item number 5 of the first paragraph is deleted.

33
34 Item number 6 of the first paragraph (after the preceding Amendment is applied) is
35 renumbered to 5.

36
37 **6-02.3(2)B Commercial Concrete**

38 The second paragraph is revised to read:

39
40 Where concrete Class 3000 is specified for items such as, culvert headwalls, plugging
41 culverts, concrete pipe collars, pipe anchors, monument cases, Type PPB, PS, I, FB
42 and RM signal standards, pedestals, cabinet bases, guardrail anchors, fence post
43 footings, sidewalks, concrete curbs, curbs and gutters, and gutters, the Contractor may
44 use commercial concrete. If commercial concrete is used for sidewalks, concrete curbs,
45 curbs and gutters, and gutters, it shall have a minimum cementitious material content of
46 564 pounds per cubic yard of concrete, shall be air entrained, and the tolerances of
47 Section 6-02.3(5)C shall apply.
48

1 **6-02.3(4)D Temperature and Time For Placement**

2 The following is inserted after the first sentence of the first paragraph:

3
4 The upper temperature limit for placement for Class 4000D concrete may be increased
5 to a maximum of 80°F if allowed by the Engineer.
6

7 **6-02.3(5)C Conformance to Mix Design**

8 Item number 1 of the second paragraph is revised to read:

- 9
10 1. Cement weight plus 5 percent or minus 1 percent of that specified in the
11 mix design.
12

13 **6-02.3(6)A1 Hot Weather Protection**

14 The first paragraph is revised to read:

15
16 The Contractor shall provide concrete within the specified temperature limits. Cooling of
17 the coarse aggregate piles by sprinkling with water is permitted provided the moisture
18 content is monitored, the mixing water is adjusted for the free water in the aggregate
19 and the coarse aggregate is removed from at least 1 foot above the bottom of the pile.
20 Sprinkling of fine aggregate piles with water is not allowed. Refrigerating mixing water
21 or replacing all or part of the mixing water with crushed ice is permitted, provided the ice
22 is completely melted by placing time.
23

24 The second sentence of the second paragraph is revised to read:

25
26 These surfaces include forms, reinforcing steel, steel beam flanges, and any others that
27 touch the concrete.
28

29 **6-02.3(10)D4 Monitoring Bridge Deck Concrete Temperature After Placement**

30 This section, including title, is revised to read:

31
32 **6-02.3(10)D4 Vacant**
33

34 **6-02.3(10)D5 Bridge Deck Concrete Finishing and Texturing**

35 In the third subparagraph of the first paragraph, the last sentence is revised to read:

36
37 The Contractor shall texture the bridge deck surface to within 3-inches minimum and
38 24-inches maximum of the edge of concrete at expansion joints, within 1-foot minimum
39 and 2-feet maximum of the curb line, and within 3-inches minimum and 9-inches
40 maximum of the perimeter of bridge drain assemblies.
41

42 **6-02.3(10)F Bridge Approach Slab Orientation and Anchors**

43 The last paragraph is deleted.
44

45 **6-02.3(13)A Strip Seal Expansion Joint System**

46 In item number 3 of the third paragraph, "Federal Standard 595" is revised to read "SAE
47 AMS Standard 595".
48

49 **6-02.3(23) Opening to Traffic**

50 This section is supplemented with the following new paragraph:

1
2 After curing bridge approach slabs in accordance with Section 6-02.3(11), the
3 bridge approach slabs may be opened to traffic when a minimum compressive strength
4 of 2,500 psi is achieved.

5
6 **6-02.3(24)C Placing and Fastening**

7 The fourth sentence of the second paragraph is revised to read:

8
9 All epoxy-coated bars in the top mat of the bridge deck shall be tied at all intersections,
10 however they may be tied at alternate intersections when spacing is less than 1 foot in
11 each direction and they are supported by continuous supports meeting all other
12 requirements of supports for epoxy-coated bars.

13
14 The sixth paragraph (excluding the numbered list) is revised to read:

15
16 Precast concrete supports (or other accepted devices) shall be used to maintain the
17 concrete coverage required by the Plans. The precast concrete supports shall:

18
19 Item number 2 of the sixth paragraph is revised to read:

- 20
21 2. Have a compressive strength equal to or greater than that of the concrete in which
22 they are embedded.

23
24 The first sentence of the seventh paragraph is revised to read:

25
26 In slabs, each precast concrete support shall have either: (1) a grooved top that will
27 hold the reinforcing bar in place, or (2) an embedded wire that protrudes and is tied to
28 the reinforcing steel.

29
30 The eighth paragraph is revised to read:

31
32 Precast concrete supports may be accepted based on a Manufacturer's Certificate of
33 Compliance.

34
35 The ninth paragraph (excluding the numbered list) is revised to read:

36
37 In lieu of precast concrete supports, the Contractor may use metal or all-plastic
38 supports to hold uncoated bars. Any surface of a metal support that will not be covered
39 by at least ½ inch of concrete shall be one of the following:

40
41 The tenth paragraph is revised to read:

42
43 In lieu of precast concrete supports, epoxy-coated reinforcing bars may be supported
44 by one of the following:

- 45
46 1. Metal supports coated entirely with a dielectric material such as epoxy or
47 plastic,
48
49 2. Other epoxy-coated reinforcing bars, or
50
51 3. All-plastic supports.

1
2 The following new paragraph is inserted after the tenth paragraph:

3
4 Damaged coatings on metal bar supports shall be repaired prior to placing concrete.

5
6 The twelfth paragraph (after the preceding Amendment is applied) is revised to read:

7
8 All-plastic supports shall be lightweight, non-porous, and chemically inert in concrete.
9 All-plastic supports shall have rounded seatings, shall not deform under load during
10 normal temperatures, and shall not shatter or crack under impact loading in cold
11 weather. All-plastic supports shall be placed at spacings greater than 1 foot along the
12 bar and shall have at least 25 percent of their gross place area perforated to
13 compensate for the difference in the coefficient of thermal expansion between plastic
14 and concrete. The shape and configuration of all-plastic supports shall permit complete
15 concrete consolidation in and around the support.

16
17 The thirteenth paragraph (after the preceding Amendment is applied) is revised to read:

18
19 A “mat” is two adjacent and perpendicular layers of reinforcing steel. In bridge decks,
20 top and bottom mats shall be supported adequately enough to hold both in their proper
21 positions. If bar supports directly support, or are directly supported on No. 4 bars, they
22 shall be spaced at not more than 3-foot intervals (or not more than 4-foot intervals for
23 bars No. 5 and larger). Wire ties to girder stirrups shall not be considered as supports.
24 To provide a rigid mat, the Contractor shall add other supports and tie wires to the top
25 mat as needed.

26
27 **6-02.3(27) Concrete for Precast Units**

28 The last sentence of the first paragraph is revised to read:

29
30 Type III portland cement or blended hydraulic cement is permitted to be used in precast
31 concrete units.

32
33 **6-02.3(28)B Curing**

34 In the second paragraph, the reference to Section 6-02.3(25)B is revised to read Section 6-
35 02.3(25)C.

36
37 **6-02.3(28)D Contractors Control Strength**

38 In the first paragraph, “WSDOT FOP for AASHTO T 23” is revised to read “FOP for
39 AASHTO T 23”.

40
41 6-05.AP6

42 **Section 6-05, Piling**
43 **January 2, 2018**

44 **6-05.3(9)A Pile Driving Equipment Approval**

45 The fourth sentence of the second paragraph is revised to read:

46
47 For prestressed concrete piles, the allowable driving stress in kips per square inch shall
48 be $0.095 \cdot \sqrt{f'_c}$ plus prestress in tension, and $0.85f'_c$ minus prestress in compression,
49 where f'_c is the concrete compressive strength in kips per square inch.

1
2 6-07.AP6
3 **Section 6-07, Painting**
4 **January 2, 2018**

5 **6-07.3(6)A Paint Containers**
6 In item number 2 of the first paragraph, “Federal Standard 595” is revised to read “SAE AMS
7 Standard 595”.

8
9 6-08.AP6
10 **Section 6-08, Bituminous Surfacing on Structure Decks**
11 **January 2, 2018**

12 **6-08.3(7)A Concrete Deck Preparation**
13 The first sentence of the first paragraph is revised to read:

14
15 The Contractor, with the Engineer, shall inspect the exposed concrete deck to establish
16 the extent of bridge deck repair in accordance with Section 6-09.3(6).

17
18 6-09.AP6
19 **Section 6-09, Modified Concrete Overlays**
20 **January 2, 2018**

21 **6-09.3 Construction Requirements**
22 This section is supplemented with the following new subsection:

23
24 **6-09.3(15) Sealing and Texturing Concrete Overlay**
25 After the requirements for checking for bond have been met, all joints and visible cracks
26 shall be filled and sealed with a high molecular weight methacrylate resin (HMWM). The
27 Contractor may use compressed air to accelerate drying of the deck surface for crack
28 identification and sealing. Cracks 1/16 inch and greater in width shall receive two
29 applications of HMWM. Immediately following the application of HMWM, the wetted
30 surface shall be coated with sand for abrasive finish.

31
32 After all cracks have been filled and sealed and the HMWM resin has cured, the
33 concrete overlay surface shall receive a longitudinally sawn texture in accordance with
34 Section 6-02.3(10)D5.

35
36 Traffic shall not be permitted on the finished concrete until it has reached a minimum
37 compressive strength of 3,000 psi as verified by rebound number determined in
38 accordance with ASTM C805 and the longitudinally sawn texture is completed.

39
40 **6-09.3(1)B Rotary Milling Machines**
41 This section is revised to read:

42
43 Rotary milling machines used to remove an upper layer of existing concrete overlay,
44 when present, shall have a maximum operating weight of 50,000 pounds and conform
45 to Section 6-08.3(5)B.
46

1 **6-09.3(1)C Hydro-Demolition Machines**

2 The first sentence of this section is revised to read:

3
4 Hydro-demolition machines shall consist of filtering and pumping units operating in
5 conjunction with a remote-controlled robotic device, using high-velocity water jets to
6 remove sound concrete to the nominal scarification depth shown in the Plans with a
7 single pass of the machine, and with the simultaneous removal of deteriorated
8 concrete.
9

10 **6-09.3(1)D Shot Blasting Machines**

11 This section, including title, is revised to read:

12
13 **6-09.3(1)D Vacant**

14
15 **6-09.3(2) Submittals**

16 Item number 1 and 2 are revised to read:

- 17
18 1. A Type 1 Working Drawing consisting of catalog cuts and operating parameters of
19 the hydro-demolition machine selected by the Contractor for use in this project to
20 scarify concrete surfaces.
21
22 2. A Type 1 Working Drawing consisting of catalog cuts, operating parameters, axle
23 loads, and axle spacing of the rotary milling machine (if used to remove an upper
24 layer of existing concrete overlay when present).
25

26 The first sentence of item number 3 is revised to read:

27
28 A Type 2 Working Drawing of the Runoff Water Disposal Plan.
29

30 **6-09.3(5)A General**

31 The first sentence of the fourth paragraph is revised to read:

32
33 All areas of the deck that are inaccessible to the selected scarifying machine shall be
34 scarified to remove the concrete surface matrix to a maximum nominal scarification
35 depth shown in the Plans by a method acceptable to the Engineer.
36

37 This section is supplemented with the following:

38
39 Concrete process water generated by scarifying concrete surface and removing existing
40 concrete overlay operations shall be contained, collected, and disposed of in
41 accordance with Section 5-01.3(11) and Section 6-09.3(5)C, and the Section 6-09.3(2)
42 Runoff Water Disposal Plan.
43

44 **6-09.3(5)B Testing of Hydro-Demolition and Shot Blasting Machines**

45 This section's title is revised to read:

46
47 **Testing of Hydro-Demolition Machines**

48
49 The second paragraph is revised to read:
50

1 In the “sound” area of concrete, the equipment shall be programmed to remove
2 concrete to the nominal scarification depth shown in the Plans with a single pass of the
3 machine.
4

5 **6-09.3(5)D Shot Blasting**

6 This section, including title, is revised to read:
7

8 **6-09.3(5)D Vacant** 9

10 **6-09.3(5)E Rotomilling**

11 This section, including title, is revised to read:
12

13 **6-09.3(5)E Removing Existing Concrete Overlay Layer by Rotomilling**

14 When the Contractor elects to remove the upper layer of existing concrete overlay,
15 when present, by rotomilling prior to final scarifying, the entire concrete surface of the
16 bridge deck shall be milled to remove the surface matrix to the depth specified in the
17 Plans with a tolerance as specified in Section 6-08.3(5)B. The operating parameters of
18 the rotary milling machine shall be monitored in order to prevent the unnecessary
19 removal of concrete below the specified removal depth.
20

21 **6-09.3(6) Further Deck Preparation**

22 The first paragraph is revised to read::
23

24 Once the lane or strip being overlaid has been cleaned of debris from scarifying, the
25 Contractor, with the Engineer, shall perform a visual inspection of the scarified surface.
26 The Contractor shall mark those areas of the existing bridge deck that are authorized by
27 the Engineer for further deck preparation by the Contractor.
28

29 Item number 4 of the second paragraph is deleted.
30

31 The first sentence of the third paragraph is deleted.
32

33 **6-09.3(6)A Equipment for Further Deck Preparation**

34 This section is revised to read:
35

36 Further deck preparation shall be performed using either power driven hand tools
37 conforming to Section 6-09.3(1)A, or hydro-demolition machines conforming to Section
38 6-09.3(1)C.
39

40 **6-09.3(6)B Deck Repair Preparation**

41 The second paragraph is deleted.
42

43 The last sentence of the second paragraph (after the preceding Amendment is applied) is
44 revised to read:
45

46 In no case shall the depth of a sawn vertical cut exceed $\frac{3}{4}$ inch or to the top of the top
47 steel reinforcing bars, whichever is less.
48

49 The first sentence of the third to last paragraph is revised to read:
50

1 Where existing steel reinforcing bars inside deck repair areas show deterioration
2 greater than 20-percent section loss, the Contractor shall furnish and place steel
3 reinforcing bars alongside the deteriorated bars in accordance with the details shown in
4 the Standard Plans.

5
6 The last paragraph is deleted.

8 **6-09.3(7) Surface Preparation for Concrete Overlay**

9 The first seven paragraphs are deleted and replaced with the following:

10
11 Following the completion of any required further deck preparation the entire lane or strip
12 being overlaid shall be cleaned to be free from oil and grease, rust and other foreign
13 material that may still be present. These materials shall be removed by detergent-
14 cleaning or other method accepted by the Engineer followed by sandblasting.

15
16 After detergent cleaning and sandblasting is completed, the entire lane or strip being
17 overlaid shall be swept clean in final preparation for placing concrete using either
18 compressed air or vacuum machines.

19
20 Hand tool chipping, sandblasting and cleaning in areas adjacent to a lane or strip being
21 cleaned in final preparation for placing concrete shall be discontinued when final
22 preparation is begun. Scarifying and hand tool chipping shall remain suspended until
23 the concrete has been placed and the requirement for curing time has been satisfied.
24 Sandblasting and cleaning shall remain suspended for the first 24 hours of curing time
25 after the completion of concrete placing.

26
27 Scarification, and removal of the upper layer of concrete overlay when present, may
28 proceed during the final cleaning and overlay placement phases of the Work on
29 adjacent portions of the Structure so long as the scarification and concrete overlay
30 removal operations are confined to areas which are a minimum of 100 feet away from
31 the defined limits of the final cleaning or overlay placement in progress. If the
32 scarification and concrete overlay removal impedes or interferes in any way with the
33 final cleaning or overlay placement as determined by the Engineer, the scarification and
34 concrete overlay removal Work shall be terminated immediately and the scarification
35 and concrete overlay removal equipment removed sufficiently away from the area being
36 prepared or overlaid to eliminate the conflict. If the grade is such that water and
37 contaminants from the scarification and concrete overlay removal operation will flow
38 into the area being prepared or overlaid, the scarification and concrete overlay removal
39 operation shall be terminated and shall remain suspended for the first 24 hours of
40 curing time after the completion of concrete placement.

41 42 **6-09.3(12) Finishing Concrete Overlay**

43 The third paragraph is deleted.

44
45 The last paragraph is deleted.

46 47 **6-09.3(13) Curing Concrete Overlay**

48 The first sentence of the first paragraph is revised to read:
49

1 As the finishing operation progresses, the concrete shall be immediately covered with a
2 single layer of clean, new or used, wet burlap.

3
4 The last sentence of the second paragraph is deleted.

5
6 The following two new paragraphs are inserted after the second paragraph:

7
8 As an alternative to the application of burlap and fog spraying described above, the
9 Contractor may propose a curing system using proprietary curing blankets specifically
10 manufactured for bridge deck curing. The Contractor shall submit a Type 2 Working
11 Drawing consisting of details of the proprietary curing blanket system, including product
12 literature and details of how the system is to be installed and maintained.

13
14 The wet curing regimen as described shall remain in place for a minimum of 42-hours.

15
16 The last paragraph is deleted.

17 18 **6-09.3(14) Checking for Bond**

19 The first sentence of the first paragraph is revised to read:

20
21 After the requirements for curing have been met, the entire overlaid surface shall be
22 sounded by the Contractor, in a manner accepted by and in the presence of the
23 Engineer, to ensure total bond of the concrete to the bridge deck.

24
25 The last sentence of the first paragraph is deleted.

26
27 The second paragraph is deleted.

28
29 6-10.AP6

30 **Section 6-10, Concrete Barrier**

31 **April 2, 2018**

32 **6-10.2 Materials**

33 In the first paragraph, the reference to "Portland Cement" is revised to read:

34
35 Cement 9-01

36
37 6-11.AP6

38 **Section 6-11, Reinforced Concrete Walls**

39 **April 2, 2018**

40 **6-11.2 Materials**

41 In the first paragraph, the reference to "Aggregates for Portland Cement Concrete" is
42 revised to read:

43
44 Aggregates for Concrete 9-03.1

1 6-12.AP6
2 **Section 6-12, Noise Barrier Walls**
3 **April 2, 2018**

4 **6-12.2 Materials**

5 In the first paragraph, the reference to “Aggregates for Portland Cement Concrete” is
6 revised to read:

7
8 Aggregates for Concrete 9-03.1
9

10 6-13.AP6
11 **Section 6-13, Structural Earth Walls**
12 **April 2, 2018**

13 **6-13.2 Materials**

14 In the first paragraph, the reference to “Aggregates for Portland Cement Concrete” is
15 revised to read:

16
17 Aggregates for Concrete 9-03.1
18

19 6-14.AP6
20 **Section 6-14, Geosynthetic Retaining Walls**
21 **April 2, 2018**

22 **6-14.2 Materials**

23 In the first paragraph, the references to “Portland Cement” and “Aggregates for Portland
24 Cement Concrete” are revised to read:

25
26 Cement 9-01
27 Aggregates for Concrete 9-03.1
28

29 6-16.AP6
30 **Section 6-16, Soldier Pile and Soldier Pile Tieback Walls**
31 **April 2, 2018**

32 **6-16.2 Materials**

33 In the first paragraph, the reference to “Aggregates for Portland Cement Concrete” is
34 revised to read:

35
36 Aggregates for Concrete 9-03.1
37

38 6-18.AP6
39 **Section 6-18, Shotcrete Facing**
40 **January 2, 2018**

41 **6-18.3(3) Testing**

42 In the last sentence of the first paragraph, “AASHTO T 24” is revised to read “ASTM C1604”.
43

44 **6-18.3(3)B Production Testing**

45 In the last sentence, “AASHTO T 24” is revised to read “ASTM C1604”.

1
2 **6-18.3(4) Qualifications of Contractor’s Personnel**
3 In the last sentence of the second paragraph, “AASHTO T 24” is revised to read “ASTM
4 C1604”.

5
6 6-19.AP6
7 **Section 6-19, Shafts**
8 **April 2, 2018**

9 **6-19.2 Materials**
10 In the first paragraph, the references to “Portland Cement” and “Aggregates for Portland
11 Cement Concrete” are revised to read:

12
13 Cement 9-01
14 Aggregates for Concrete 9-03.1

15
16 **6-19.3(3)C Conduct of Shaft Casing Installation and Removal and Shaft**
17 **Excavation Operations**

18 The first paragraph is supplemented with the following:

19
20 In no case shall shaft excavation and casing placement extend below the bottom of
21 shaft excavation as shown in the Plans.

22
23 **6-19.3(6)E Thermal Wire and Thermal Access Point (TAPS)**

24 The third sentence of the third paragraph is revised to read:

25
26 The thermal wire shall extend from the bottom of the reinforcement cage to the top of
27 the shaft, with a minimum of 5-feet of slack wire provided above the top of shaft.

28
29 The following new sentence is inserted after the third sentence of the third paragraph:

30
31 All thermal wires in a shaft shall be equal lengths.

32
33 7-02.AP7
34 **Section 7-02, Culverts**
35 **April 2, 2018**

36 **7-02.2 Materials**
37 In the first paragraph, the references to “Portland Cement” and “Aggregates for Portland
38 Cement Concrete” are revised to read:

39
40 Cement 9-01
41 Aggregates for Concrete 9-03.1

42
43 **7-02.3(6)A4 Excavation and Bedding Preparation**

44 The first sentence of the third paragraph is revised to read:

45
46 The bedding course shall be a 6-inch minimum thickness layer of culvert bedding
47 material, defined as granular material either conforming to Section 9-03.12(3) or to
48 AASHTO Grading No. 57 as specified in Section 9-03.1(4)C.

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7-08.AP7

**Section 7-08, General Pipe Installation Requirements
April 2, 2018**

7-08.3(3) Backfilling

The fifth sentence of the fourth paragraph is revised to read:

All compaction shall be in accordance with the Compaction Control Test of Section 2-03.3(14)D except in the case that 100% Recycled Concrete Aggregate is used.

The following new sentences are inserted after the fifth sentence of the fourth paragraph:

When 100% Recycled Concrete Aggregate is used, the Contractor may submit a written request to use a test point evaluation for compaction acceptance. Test Point evaluation shall be performed in accordance with SOP 738.

8-01.AP8

**Section 8-01, Erosion Control and Water Pollution Control
April 2, 2018**

8-01.1 Description

This section is revised to read:

This Work consists of furnishing, installing, maintaining, removing and disposing of best management practices (BMPs), as defined in the Washington Administrative Code (WAC) 173-201A, to manage erosion and water quality in accordance with these Specifications and as shown in the Plans or as designated by the Engineer.

The Contracting Agency may have a National Pollution Discharge Elimination System Construction Stormwater General Permit (CSWGP) as identified in the Contract Special Provisions. The Contracting Agency may or may not transfer coverage of the CSWGP to the Contractor when a CSWGP has been obtained. The Contracting Agency may not have a CSWGP for the project but may have another water quality related permit as identified in the Contract Special Provisions or the Contracting Agency may not have water quality related permits but the project is subject to applicable laws for the Work. Section 8-01 covers all of these conditions.

8-01.2 Materials

The first paragraph is revised to read:

Materials shall meet the requirements of the following sections:

Corrugated Polyethylene Drain Pipe	9-05.1(6)
Quarry Spalls	9-13
Erosion Control and Roadside Planting	9-14
Construction Geotextile	9-33

8-01.3(1) General

This section is revised to read:

1
2 Adaptive management shall be employed throughout the duration of the project for the
3 implementation of erosion and water pollution control permit requirements for the
4 current condition of the project site. The adaptive management includes the selection
5 and utilization of BMPs, scheduling of activities, prohibiting unacceptable practices,
6 implementing maintenance procedures, and other managerial practices that when used
7 singularly or in combination, prevent or reduce the release of pollutants to waters of the
8 State. The adaptive management shall use the means and methods identified in this
9 section and means and methods identified in the Washington State Department of
10 Transportation's Temporary Erosion and Sediment Control Manual or the Washington
11 State Department of Ecology's Stormwater Management Manuals for construction
12 stormwater.

13
14 The Contractor shall install a high visibility fence along the site preservation lines shown
15 in the Plans or as instructed by the Engineer.

16
17 Throughout the life of the project, the Contractor shall preserve and protect the
18 delineated preservation area, acting immediately to repair or restore any fencing
19 damaged or removed.

20
21 All discharges to surface waters shall comply with surface water quality standards as
22 defined in Washington Administrative Code (WAC) Chapter 173-201A. All discharges to
23 the ground shall comply with groundwater quality standards WAC Chapter 173-200.

24
25 The Contractor shall comply with the CSWGP when the project is covered by the
26 CSWGP. Temporary Work, at a minimum, shall include the implementation of:

- 27
- 28 1. Sediment control measures prior to ground disturbing activities to ensure all
29 discharges from construction areas receive treatment prior to discharging from
30 the site.
 - 31 2. Flow control measures to prevent erosive flows from developing.
 - 32 3. Water management strategies and pollution prevention measures to prevent
33 contamination of waters that will be discharged to surface waters or the
34 ground.
 - 35 4. Erosion control measures to stabilize erodible earth not being worked.
 - 36 5. Maintenance of BMPs to ensure continued compliant performance.
 - 37 6. Immediate corrective action if evidence suggests construction activity is not in
38 compliance. Evidence includes sampling data, olfactory or visual evidence
39 such as the presence of suspended sediment, turbidity, discoloration, or oil
40 sheen in discharges.

41
42 To the degree possible, the Contractor shall coordinate this temporary Work with
43 permanent drainage and erosion control Work the Contract requires.

44
45 Clearing, grubbing, excavation, borrow, or fill within the Right of Way shall never
46 expose more erodible earth than as listed below:

1

Western Washington (West of the Cascade Mountain Crest)		Eastern Washington (East of the Cascade Mountain Crest)	
May 1 through September 30	17 Acres	April 1 through October 31	17 Acres
October 1 through April 30	5 Acres	November 1 through March 31	5 Acres

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The Engineer may increase or decrease the limits based on project conditions.

Erodible earth is defined as any surface where soils, grindings, or other materials may be capable of being displaced and transported by rain, wind, or surface water runoff.

Erodible earth not being worked, whether at final grade or not, shall be covered within the specified time period (see the table below), using BMPs for erosion control.

Western Washington (West of the Cascade Mountain Crest)		Eastern Washington (East of the Cascade Mountain Crest)	
October 1 through April 30	2 days maximum	October 1 through June 30	5 days maximum
May 1 to September 30	7 days maximum	November 1 through March 31	10 days maximum

11

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When applicable, the Contractor shall be responsible for all Work required for compliance with the CSWGP including annual permit fees.

If the Engineer, under Section 1-08.6, orders the Work suspended, the Contractor shall continue to comply with this division during the suspension.

Nothing in this Section shall relieve the Contractor from complying with other Contract requirements.

21

8-01.3(1)A Submittals

22

This section's content is deleted.

23

24

This section is supplemented with the following new subsection:

25

26

8-01.3(1)A1 Temporary Erosion and Sediment Control

27

28

29

30

31

32

33

A Temporary Erosion and Sediment Control (TESC) plan consists of a narrative section and plan sheets that meets the Washington State Department of Ecology's Stormwater Pollution Prevention Plan (SWPPP) requirement in the CSWGP. Abbreviated TESC plans are not required to include plan sheets and are used on small projects that disturb soil and have the potential to discharge but are not covered by the CSWGP. The contract uses the term "TESC plan" to describe both TESC plans and abbreviated TESC plans. When the Contracting Agency has developed a TESC plan for a Contract,

1 the narrative is included in the appendix to the Special Provisions and the TESC plan
2 sheets, when required, are included in the Contract Plans. The Contracting Agency
3 TESC plan will not include off-site areas used to directly support construction activity.
4

5 The Contractor shall either adopt the TESC Plan in the Contract or develop a new
6 TESC Plan. If the Contractor adopts the Contracting Agency TESC Plan, the Contractor
7 shall modify the TESC Plan to meet the Contractor's schedule, method of construction,
8 and to include off-site areas that will be used to directly support construction activity
9 such as equipment staging yards, material storage areas, or borrow areas. Contractor
10 TESC Plans shall include all high visibility fence delineation shown on the Contracting
11 Agency Contract Plans. All TESC Plans shall meet the requirements of the current
12 edition of the WSDOT Temporary Erosion and Sediment Control Manual M 3109 and
13 be adaptively managed as needed throughout construction based on site inspections
14 and discharge samples to maintain compliance with the CSWGP. The Contractor shall
15 develop a schedule for implementation of the TESC work and incorporate it into the
16 Contractor's progress schedule.
17

18 The Contractor shall submit their TESC Plan (either the adopted plan or new plan) and
19 implementation schedule as Type 2 Working Drawings. At the request of the Engineer,
20 updated TESC Plans shall be submitted as Type 1 Working Drawings.
21

22 **8-01.3(1)B Erosion and Sediment Control (ESC) Lead**

23 This section is revised to read:
24

25 The Contractor shall identify the ESC Lead at the preconstruction discussions and in
26 the TESC Plan. The ESC Lead shall have, for the life of the Contract, a current
27 Certificate of Training in Construction Site Erosion and Sediment Control from a course
28 approved by the Washington State Department of Ecology. The ESC Lead must be
29 onsite or on call at all times throughout construction. The ESC Lead shall be listed on
30 the Emergency Contact List required under Section 1-05.13(1).
31

32 The ESC Lead shall implement the TESC Plan. Implementation shall include, but is not
33 limited to:
34

- 35 1. Installing, adaptively managing, and maintaining temporary erosion and
36 sediment control BMPs to assure continued performance of their intended
37 function. Damaged or inadequate BMPs shall be corrected immediately.
38
- 39 2. Updating the TESC Plan to reflect current field conditions.
40
- 41 3. Discharge sampling and submitting Discharge Monitoring Reports (DMRs) to
42 the Washington State Department of Ecology in accordance with the CSWGP.
43
- 44 4. Develop and maintain the Site Log Book as defined in the CSWGP. When the
45 Site Log Book or portion thereof is electronically developed, the electronic
46 documentation must be accessible onsite. As a part of the Site Log Book, the
47 Contractor shall develop and maintain a tracking table to show that identified
48 TESC compliance issues are fully resolved within 10 calendar days. The table
49 shall include the date an issue was identified, a description of how it was
50 resolved, and the date the issue was fully resolved.
51

1 The ESC Lead shall also inspect all areas disturbed by construction activities, all on-site
2 erosion and sediment control BMPs, and all stormwater discharge points at least once
3 every calendar week and within 24-hours of runoff events in which stormwater
4 discharges from the site. Inspections of temporarily stabilized, inactive sites may be
5 reduced to once every calendar month. The Washington State Department of Ecology's
6 Erosion and Sediment Control Site Inspection Form, located at
7 [https://ecology.wa.gov/Regulations-Permits/Permits-certifications/Stormwater-general-](https://ecology.wa.gov/Regulations-Permits/Permits-certifications/Stormwater-general-permits/Construction-stormwater-permit)
8 [permits/Construction-stormwater-permit](https://ecology.wa.gov/Regulations-Permits/Permits-certifications/Stormwater-general-permits/Construction-stormwater-permit), shall be completed for each inspection and a
9 copy shall be submitted to the Engineer no later than the end of the next working day
10 following the inspection.

11 **8-01.3(1)C Water Management**

12 This section is supplemented with the following new subsections:

13 **8-01.3(1)C5 Water Management for In-Water Work Below Ordinary High Water** 14 **Mark (OHWM)**

15 Work over surface waters of the state (defined in WAC 173-201A-010) or below the
16 OHWM (defined in RCW 90.58.030) must comply with water quality standards for
17 surface waters of the state of Washington.

18 **8-01.3(1)C6 Environmentally Acceptable Hydraulic Fluid**

19 All equipment containing hydraulic fluid that extends from a bridge deck over surface
20 waters of the state or below the OHWM, shall be equipped with an environmentally
21 acceptable hydraulic fluid. The fluid shall meet specific requirements for
22 biodegradability, aquatic toxicity, and bioaccumulation in accordance with the United
23 States Environmental Protection Agency (EPA) publication EPA800-R-11-002.
24 Acceptance shall be in accordance with Section 1-06.3, Manufacturer's Certification of
25 Compliance.

26 The designation of environmentally acceptable hydraulic fluid does not mean fluid spills
27 are acceptable. The Contractor shall respond to spills to land or water in accordance
28 with the Contract.

29 **8-01.3(1)C7 Turbidity Curtain**

30 All Work for the turbidity curtain shall be in accordance with the manufacturer's
31 recommendations for the site conditions. Removal procedures shall be developed and
32 used to minimize silt release and disturbance of silt. The Contractor shall submit a Type
33 2 Working Drawing, detailing product information, installation and removal procedures,
34 equipment and workforce needs, maintenance plans, and emergency
35 repair/replacement plans.

36 Turbidity curtain materials, installation, and maintenance shall be sufficient to comply
37 with water quality standards.

38 The Contractor shall notify the Engineer 10 days in advance of removing the turbidity
39 curtain. All components of the turbidity curtain shall be removed from the project.

40 **8-01.3(1)C1 Disposal of Dewatering Water**

41 This section is revised to read:

1 When uncontaminated groundwater is encountered in an excavation on a project it may
2 be infiltrated within vegetated areas of the right of way not designated as Sensitive
3 Areas or incorporated into an existing stormwater conveyance system at a rate that will
4 not cause erosion or flooding in any receiving surface water.

5
6 Alternatively, the Contractor may pursue independent disposal and treatment
7 alternatives that do not use the stormwater conveyance system provided it is in
8 compliance with the applicable WACs and permits.
9

10 **8-01.3(1)C2 Process Wastewater**

11 This section is revised to read:

12
13 Wastewater generated on-site as a byproduct of a construction process shall not be
14 discharged to surface waters of the State. Some sources of process wastewater may
15 be infiltrated in accordance with the CSWGP with concurrence from the Engineer.
16 Some sources of process wastewater may be disposed via independent disposal and
17 treatment alternatives in compliance with the applicable WACs and permits.
18

19 **8-01.3(1)C3 Shaft Drilling Slurry Wastewater**

20 This section is revised to read:

21
22 Wastewater generated on-site during shaft drilling activity shall be managed and
23 disposed of in accordance with the requirements below. No shaft drilling slurry
24 wastewater shall be discharged to surface waters of the State. Neither the sediment nor
25 liquid portions of the shaft drilling slurry wastewater shall be contaminated, as
26 detectable by visible or olfactory indication (e.g., chemical sheen or smell).
27

- 28 1. Water-only shaft drilling slurry or water slurry with accepted flocculants may be
29 infiltrated on-site. Flocculants used shall meet the requirements of Section 9-
30 14.5(1) or shall be chitosan products listed as General Use Level Designation
31 (GULD) on the Washington State Department of Ecology's stormwater
32 treatment technologies webpage for construction treatment. Infiltration is
33 permitted if the following requirements are met:
 - 34 a. Wastewater shall have a pH of 6.5 – 8.5 prior to discharge.
 - 35 b. The amount of flocculant added to the slurry shall be kept to the minimum
36 needed to adequately settle out solids. The flocculant shall be thoroughly
37 mixed into the slurry.
 - 38 c. The slurry removed from the shaft shall be contained in a leak proof cell
39 or tank for a minimum of 3 hours.
 - 40 d. The infiltration rate shall be reduced if needed to prevent wastewater from
41 leaving the infiltration location. The infiltration site shall be monitored
42 regularly during infiltration activity. All wastewater discharged to the
43 ground shall fully infiltrate and discharges shall stop before the end of
44 each work day.
 - 45 e. Drilling spoils and settled sediments remaining in the containment cell or
46 tank shall be disposed of in accordance with Section 6-19.3(4)F.
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- f. Infiltration locations shall be in upland areas at least 150 feet away from surface waters, wells, on-site sewage systems, aquifer sensitive recharge areas, sole source aquifers, well head protection areas, and shall be marked on the plan sheets before the infiltration activity begins.
- g. Prior to infiltration, the Contractor shall submit a Shaft Drilling Slurry Wastewater Management and Infiltration Plan as a Type 2 Working Drawing. This Plan shall be kept on-site, adapted if needed to meet the construction requirements, and updated to reflect what is being done in the field. The Working Drawing shall include, at a minimum, the following information:
 - i. Plan sheet showing the proposed infiltration location and all surface waters, wells, on-site sewage systems, aquifer-sensitive recharge areas, sole source aquifers, and well-head protection areas within 150 feet.
 - ii. The proposed elevation of soil surface receiving the wastewater for infiltration and the anticipated phreatic surface (i.e., saturated soil).
 - iii. The source of the water used to produce the slurry.
 - iv. The estimated total volume of wastewater to be infiltrated.
 - v. The accepted flocculant to be used (if any).
 - vi. The controls or methods used to prevent surface wastewater runoff from leaving the infiltration location.
 - vii. The strategy for removing slurry wastewater from the shaft and containing the slurry wastewater once it has been removed from the shaft.
 - viii. The strategy for monitoring infiltration activity and adapting methods to ensure compliance.
 - ix. A contingency plan that can be implemented immediately if it becomes evident that the controls in place or methods being used are not adequate.
 - x. The strategy for cleaning up the infiltration location after the infiltration activity is done. Cleanup shall include stabilizing any loose sediment on the surface within the infiltration area generated as a byproduct of suspended solids in the infiltrated wastewater or soil disturbance associated with BMP placement and removal.
- 2. Shaft drilling mineral slurry, synthetic slurry, or slurry with polymer additives not allowed for infiltration shall be contained and disposed of by the Contractor at an accepted disposal facility in accordance with Section 2-03.3(7)C. Spoils

1 that have come into contact with mineral slurry shall be disposed of in
2 accordance with Section 6-19.3(4)F.

3
4 **8-01.3(1)C4 Management of Off-Site Water**

5 This section is revised to read:

6
7 Prior to clearing and grubbing, the Contractor shall intercept all sources of off-site
8 surface water and overland flow that will run-on to the project. Off-site surface water
9 run-on shall be diverted through or around the project in a way that does not introduce
10 construction related pollution. It shall be diverted to its preconstruction discharge
11 location in a manner that does not increase preconstruction flow rate and velocity and
12 protects contiguous properties and waterways from erosion. The Contractor shall
13 submit a Type 2 Working Drawing consisting of the method for performing this Work.

14
15 **8-01.3(1)E Detention/Retention Pond Construction**

16 This section is revised to read:

17
18 Whether permanent or temporary, ponds shall be constructed before beginning other
19 grading and excavation Work in the area that drains into that pond. Detention/retention
20 ponds may be constructed concurrently with grading and excavation when allowed by
21 the Engineer. Temporary conveyances shall be installed concurrently with grading in
22 accordance with the TESC Plan so that newly graded areas drain to the pond as they
23 are exposed.

24
25 **8-01.3(2)F Dates for Application of Final Seed, Fertilizer, and Mulch**

26 In the table, the second column heading is revised to read:

27
28 **Eastern Washington¹**
29 **(East of the Cascade Mountain Crest)**

30
31 Footnote 1 in the table is revised to read:

32
33 Seeding may be allowed outside these dates when allowed or directed by the Engineer.

34
35 **8-01.3(5) Plastic Covering**

36 The first sentence of the first paragraph is revised to read:

37
38 **Erosion Control** – Plastic coverings used to temporarily cover stockpiled materials,
39 slopes or bare soils shall be installed and maintained in a way that prevents water from
40 intruding under the plastic and prevents the plastic cover from being damaged by wind.

41
42 **8-01.3(7) Stabilized Construction Entrance**

43 The first paragraph is revised to read:

44
45 Temporary stabilized construction entrance shall be constructed in accordance with the
46 *Standard Plans*, prior to construction vehicles entering the roadway from locations that
47 generate sediment track out on the roadway. Material used for stabilized construction
48 entrance shall be free of extraneous materials that may cause or contribute to track out.

1 **8-01.3(8) Street Cleaning**

2 This section is revised to read:

3
4 Self-propelled pickup street sweepers shall be used to remove and collect dirt and other
5 debris from the Roadway. The street sweeper shall effectively collect these materials
6 and prevent them from being washed or blown off the Roadway or into waters of the
7 State. Street sweepers shall not generate fugitive dust and shall be designed and
8 operated in compliance with applicable air quality standards. Material collected by the
9 street sweeper shall be disposed of in accordance with Section 2-03.3(7)C.

10
11 When allowed by the Engineer, power broom sweepers may be used in non-
12 environmentally sensitive areas. The broom sweeper shall sweep dirt and other debris
13 from the roadway into the work area. The swept material shall be prevented from
14 entering or washing into waters of the State.

15
16 Street washing with water will require the concurrence of the Engineer.

17
18 **8-01.3(12) Compost Socks**

19 The first two sentences of the first paragraph are revised to read:

20
21 Compost socks are used to disperse flow and sediment. Compost socks shall be
22 installed as soon as construction will allow but before flow conditions create erosive
23 flows or discharges from the site. Compost socks shall be installed prior to any
24 mulching or compost placement.

25
26 **8-01.3(13) Temporary Curb**

27 The second to last sentence of the second paragraph is revised to read:

28
29 Temporary curbs shall be a minimum of 4 inches in height.

30
31 **8-01.3(14) Temporary Pipe Slope Drain**

32 The third and fourth paragraphs are revised to read:

33
34 The pipe fittings shall be water tight and the pipe secured to the slope with metal posts,
35 wood stakes, sand bags, or as allowed by the Engineer.

36
37 The water shall be discharged to a stabilized conveyance, sediment trap, stormwater
38 pond, rock splash pad, or vegetated strip, in a manner to prevent erosion and maintain
39 water quality compliance.

40
41 The last paragraph is deleted.

42
43 **8-01.3(15) Maintenance**

44 This section is revised to read:

45
46 Erosion and sediment control BMPs shall be maintained or adaptively managed as
47 required by the CSWGP until the Engineer determines they are no longer needed.
48 When deficiencies in functional performance are identified, the deficiencies shall be
49 rectified immediately.

50

1 The BMPs shall be inspected on the schedule outlined in Section 8-01.3(1)B for
2 damage and sediment deposits. Damage to or undercutting of BMPs shall be repaired
3 immediately.

4
5 In areas where the Contractor's activities have compromised the erosion control
6 functions of the existing grasses, the Contractor shall overseed at no additional cost to
7 the Contracting Agency.

8
9 The quarry spalls of construction entrances shall be refreshed, replaced, or screened to
10 maintain voids between the spalls for collecting mud and dirt.

11
12 Unless otherwise specified, when the depth of accumulated sediment and
13 debris reaches approximately $\frac{1}{3}$ the height of the BMP the deposits shall be removed.
14 Debris or contaminated sediment shall be disposed of in accordance with Section 2-
15 03.3(7)C. Clean sediments may be stabilized on-site using BMPs as allowed by the
16 Engineer.

17 18 **8-01.3(16) Removal**

19 This section is revised to read:

20
21 The Contractor shall remove all temporary BMPs, all associated hardware and
22 associated accumulated sediment deposition from the project limits prior to Physical
23 Completion unless otherwise allowed by the Engineer. When the temporary BMP
24 materials are made of natural plant fibers unaltered by synthetic materials the Engineer
25 may allow leaving the BMP in place.

26
27 The Contractor shall remove BMPs and associated hardware in a way that minimizes
28 soil disturbance. The Contractor shall permanently stabilize all bare and disturbed soil
29 after removal of BMPs. If the installation and use of the erosion control BMPs have
30 compacted or otherwise rendered the soil inhospitable to plant growth, such as
31 construction entrances, the Contractor shall take measures to rehabilitate the soil to
32 facilitate plant growth. This may include, but is not limited to, ripping the soil,
33 incorporating soil amendments, or seeding with the specified seed.

34
35 At the request of the Contractor and at the sole discretion of the Engineer the CSWGP
36 may be transferred back to the Contracting Agency. Approval of the Transfer of
37 Coverage request will require the following:

- 38
39
- 40 1. All other Work required for Contract Completion has been completed.
 - 41 2. All Work required for compliance with the CSWGP has been completed to the
42 maximum extent possible. This includes removal of BMPs that are no longer
43 needed and the site has undergone all Stabilization identified for meeting the
44 requirements of Final Stabilization in the CSWGP.
 - 45 3. An Equitable Adjustment change order for the cost of Work that has not been
46 completed by the Contractor.
 - 47 4. Submittal of the Washington State Department of Ecology Transfer of
48 Coverage form (Ecology form ECY 020-87a) to the Engineer.
- 49
50
51

1 If the Engineer approves the transfer of coverage back to the Contracting Agency, the
2 requirement in Section 1-07.5(3) for the Contractor's submittal of the Notice of
3 Termination form to the Washington State Department of Ecology will not apply.
4

5 **8-01.4 Measurement**

6 This section's content is deleted and replaced with the following new subsections:
7

8 **8-01.4(1) Lump Sum Bid for Project (No Unit Items)**

9 When the Bid Proposal contains the item "Erosion Control and Water Pollution
10 Prevention" there will be no measurement of unit or force account items for Work
11 defined in Section 8-01 except as described in Sections 8-01.4(3) and 8-01.4(4). Also,
12 except as described in Section 8-01.4(3), all of Sections 8-01.4(2) and 8-01.5(2) are
13 deleted.
14

15 **8-01.4(2) Item Bids**

16 When the Proposal does not contain the items "Erosion Control and Water Pollution
17 Prevention", Section 8-01.4(1) and 8-01.5(1) are deleted and the Bid Proposal will
18 contain some or all of the following items measured as noted.
19

20 ESC lead will be measured per day for each day that an inspection is made and a
21 report is filed.
22

23 Biodegradable erosion control blanket and plastic covering will be measured by the
24 square yard along the ground slope line of surface area covered and accepted.
25

26 Turbidity curtains will be measured by the linear foot along the ground line of the
27 installed curtain.
28

29 Check dams will be measured per linear foot one time only along the ground line of
30 the completed check dam. No additional measurement will be made for check
31 dams that are required to be rehabilitated or replaced due to wear.
32

33 Stabilized construction entrances will be measured by the square yard by ground
34 slope measurement for each entrance constructed.
35

36 Tire wash facilities will be measured per each for each tire wash installed.
37

38 Street cleaning will be measured by the hour for the actual time spent cleaning
39 pavement, refilling with water, dumping and transport to and from cleaning
40 locations within the project limits, as authorized by the Engineer. Time to mobilize
41 the equipment to or from the project limits on which street cleaning is required will
42 not be measured.
43

44 Inlet protections will be measured per each for each initial installation at a
45 drainage structure.
46

47 Silt fence, gravel filter, compost berms, and wood chip berms will be measured by
48 the linear foot along the ground line of the completed barrier.
49

50 Wattles and compost socks will be measured by the linear foot.
51

1 Temporary curbs will be measured by the linear foot along the ground line of the
2 completed installation.

3
4 Temporary pipe slope drains will be measured by the linear foot along the flow line
5 of the pipe.

6
7 Coir logs will be measured by the linear foot along the ground line of the completed
8 installation.

9
10 Outlet protections will be measured per each initial installation at an outlet location.

11
12 Tackifiers will be measure by the acre by ground slope measurement.

13
14 **8-01.4(3) Reinstating Unit Items with Lump Sum Erosion Control and Water
15 Pollution Prevention**

16 The Contract Provisions may establish the project as lump sum, in accordance with
17 Section 8-01.4(1) and also include one or more of the items included above in Section
18 8-01.4(2). When that occurs, the corresponding measurement provision in Section 8-
19 01.4(2) is not deleted and the Work under that item will be measured as specified.

20
21 **8-01.4(4) Items not included with Lump Sum Erosion Control and Water Pollution
22 Prevention**

23 Compost blanket will be measured by the square yard by ground slope surface area
24 covered and accepted.

25
26 Mulching will be measured by the acre by ground slope surface area covered and
27 accepted.

28
29 Seeding, fertilizing, liming, mulching, and mowing, will be measured by the acre by
30 ground slope measurement.

31
32 Seeding and fertilizing by hand will be measured by the square yard by ground slope
33 measurement. No adjustment in area size will be made for the vegetation free zone
34 around each plant.

35
36 Fencing will be measured by the linear foot along the ground line of the completed
37 fence.

38
39 **8-01.5 Payment**

40 This section's content is deleted and replaced with the following new subsections:

41
42 **8-01.5(1) Lump Sum Bid for Project (No Unit Items)**

43 Payment will be made for the following Bid item when it is included in the Proposal:

44
45 "Erosion Control and Water Pollution Prevention", lump sum.

46
47 The lump sum Contract price for "Erosion Control and Water Pollution Prevention"
48 shall be full pay to perform the Work as described in Section 8-01 except for costs
49 compensated by Bid Proposal items inserted through Contract Provisions as
50 described in Section 8-01.4(2). Progress payments for the lump sum item "Erosion
51 Control and Water Pollution Prevention" will be made as follows:

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1. The Contracting Agency will pay 15 percent of the bid amount for the initial set up for the item. Initial set up includes the following:
 - a. Acceptance of the TESC Plan provided by the Contracting Agency or submittal of a new TESC Plan,
 - b. Submittal of a schedule for the installation of the BMPs, and
 - c. Identifying water quality sampling locations.
2. 70 percent of the bid amount will be paid in accordance with Section 1-09.9.
3. Once the project is physically complete and copies of the all reports submitted to the Washington State Department of Ecology have been submitted to the Engineer, and, if applicable, transference of the CSWGP back to the Contracting Agency is complete, the remaining 15 percent of the bid amount shall be paid in accordance with Section 1-09.9.

8-01.5(2) Item Bids

- “ESC Lead”, per day.
- “Turbidity Curtain”, per linear foot.
- “Biodegradable Erosion Control Blanket”, per square yard.
- “Plastic Covering”, per square yard.
- “Check Dam”, per linear foot.
- “Inlet Protection”, per each.
- “Gravel Filter Berm”, per linear foot.
- “Stabilized Construction Entrance”, per square yard.
- “Street Cleaning”, per hour.
- “Silt Fence”, per linear foot.
- “Wood Chip Berm”, per linear foot.
- “Compost Berm”, per linear foot.
- “Wattle”, per linear foot.
- “Compost Sock”, per linear foot.
- “Coir Log”, per linear foot.

- 1 "Temporary Curb", per linear foot.
- 2
- 3 "Temporary Pipe Slope Drain", per linear foot.
- 4
- 5 "Temporary Seeding", per acre.
- 6
- 7 "Outlet Protection", per each.
- 8
- 9 "Tackifier", per acre.
- 10
- 11 "Erosion/Water Pollution Control", by force account as provided in Section 1-09.6.
- 12

13 Maintenance and removal of erosion and water pollution control devices including
14 removal and disposal of sediment, stabilization and rehabilitation of soil disturbed
15 by these activities, and any additional Work deemed necessary by the Engineer to
16 control erosion and water pollution will be paid by force account in accordance with
17 Section 1-09.6.

18
19 To provide a common Proposal for all Bidders, the Contracting Agency has entered an
20 amount in the Proposal to become a part of the Contractor's total Bid.

21
22 **8-01.5(3) Reinstating Unit Items with Lump Sum Erosion Control and Water**
23 **Pollution Prevention**

24 The Contract may establish the project as lump sum, in accordance with Section 8-
25 01.4(1) and also reinstate the measurement of one or more of the items described in
26 Section 8-01.4(2), except for Erosion/Water Pollution Control, by force account. When
27 that occurs, the corresponding payment provision in Section 8-01.5(2) is not deleted
28 and the Work under that item will be paid as specified.

29
30 **8-01.5(4) Items not included with Lump Sum Erosion Control and Water Pollution**
31 **Prevention**

32 Payment will be made for each of the following Bid items when they are included in the
33 Proposal:

- 34
- 35 "Compost Blanket", per square yard.
- 36
- 37 "Mulching", per acre
- 38
- 39 "Mulching with PAM", per acre
- 40
- 41 "Mulching with Short-Term Mulch", per acre.
- 42
- 43 "Mulching with Moderate-Term Mulch", per acre.
- 44
- 45 "Mulching with Long-Term Mulch", per acre.
- 46
- 47 "Seeding, Fertilizing and Mulching", per acre.
- 48
- 49 "Seeding and Fertilizing", per acre.
- 50
- 51 "Seeding and Fertilizing by Hand", per square yard.

- 1
- 2 "Second Application of Fertilizer", per acre.
- 3
- 4 "Liming", per acre.
- 5
- 6 "Mowing", per acre.
- 7
- 8 "Seeding and Mulching", per acre.
- 9
- 10 "High Visibility Fence", per linear foot.
- 11

12 8-02.AP8
13 **Section 8-02, Roadside Restoration**
14 **January 2, 2018**

15 **8-02.2 Materials**

16 The reference to the material "Soil" is revised to read "Topsoil".

17
18 **8-02.5 Payment**

19 The following new paragraph is inserted following the Bid item "Plant Selection ____", per
20 each:

21
22 The unit Contract price for "Plant Selection ____", per each shall be full pay for all Work
23 to perform the work as specified within the planting area prior to planting for weed
24 control, planting area preparation and installation of plants with initial watering.

25
26 The paragraph following the Bid item "PSIPE ____", per each is revised to read:

27
28 The unit Contract price for "PSIPE ____", per each, shall be full pay for all Work to
29 perform the work as specified within the planting area for weed control and planting
30 area preparation, planting, cleanup, and water necessary to complete planting
31 operations as specified to the end of first year plant establishment.

32
33 8-04.AP8
34 **Section 8-04, Curbs, Gutters, and Spillways**
35 **April 2, 2018**

36 **8-04.2 Materials**

37 In the first paragraph, the reference to "Portland Cement" is revised to read:

38
39 Cement 9-01

40
41 **8-04.3(1) Cement Concrete Curbs, Gutters, and Spillways**

42 The first paragraph is supplemented with the following:

43
44 Roundabout truck apron cement concrete curb and gutter shall be constructed with air
45 entrained concrete Class 4000 conforming to the requirements of Section 6-02.

46

1 8-06.AP8
2 **Section 8-06, Cement Concrete Driveway Entrances**
3 **April 2, 2018**

4 **8-06.2 Materials**

5 In the first paragraph, the reference to “Portland Cement” is revised to read:

6
7 Cement 9-01

8
9 **8-06.3 Construction Requirements**

10 The first paragraph is revised to read:

11
12 Cement concrete driveway approaches shall be constructed with air entrained concrete
13 Class 4000 conforming to the requirements of Section 6-02 or Portland Cement or
14 Blended Hydraulic Cement Concrete Pavement conforming to the requirements of
15 Section 5-05.

16
17 8-07.AP8
18 **Section 8-07, Curbs, Gutters, and Spillways**
19 **April 2, 2018**

20 **8-07.3(1) Installing Curbs**

21 The first sentence of the first paragraph is revised to read:

22
23 The curb shall be firmly bedded for its entire length and breadth on a mortar bed
24 conforming to Section 9-20.4(3) composed of one part Portland cement or blended
25 hydraulic cement and two parts sand.

26
27 The fourth paragraph is revised to read:

28
29 All joints between adjacent pieces of curb except joints for expansion and/or drainage
30 as designated by the Engineer shall be filled with mortar composed of one part Portland
31 cement or blended hydraulic cement and two parts sand.

32
33 8-11.AP8
34 **Section 8-11, Guardrail**
35 **April 2, 2018**

36 **8-11.3(1)C Terminal and Anchor Installation**

37 The first sentence of the second to last paragraph is revised to read:

38
39 Assembly and installation of Beam Guardrail Non-flared Terminals for Type 31 guardrail
40 shall be supervised at all times by a manufacturer’s representative, or an installer who
41 has been trained and certified by the manufacturer.

42
43 The last paragraph is revised to read:

44
45 Beam Guardrail Non-flared Terminals for Type 31 guardrail shall meet the crash test
46 and evaluation criteria in the Manual for Assessing Safety Hardware (MASH).

47

1 **8-11.4 Measurement**

2 The third paragraph is revised to read:

3
4 Measurement of beam guardrail _____ terminal will be per each for the
5 completed terminal.

6
7 The fourth paragraph is revised to read:

8
9 Measurement of beam guardrail Type 31 buried terminal Type 2 will be per linear foot
10 for the completed terminal.

11
12 **8-11.5 Payment**

13 The Bid item “Beam Guardrail Buried Terminal Type 1”, per each is deleted from this
14 section.

15
16 The Bid item “Beam Guardrail Buried Terminal Type 2”, per linear foot and the following
17 paragraph are revised to read:

18 “Beam Guardrail Type 31 Buried Terminal Type 2”, per linear foot.

19
20 The unit Contract price per linear foot for “Beam Guardrail Type 31 Buried Terminal
21 Type 2” shall be full payment for all costs to obtain and provide materials and perform
22 the Work as described in Section 8-11.3(1)C.
23

24
25 8-14.AP8

26 **Section 8-14, Cement Concrete Sidewalks**
27 **April 2, 2018**

28 **8-14.2 Materials**

29 In the first paragraph, the reference to “Portland Cement” is revised to read:

30
31 Cement 9-01
32

33 In the second paragraph, each reference to “Federal Standard 595” is revised to read “SAE
34 AMS Standard 595”.
35

36 8-16.AP8

37 **Section 8-16, Concrete Slope Protection**
38 **April 2, 2018**

39 **8-16.2 Materials**

40 In the first paragraph, the last two material references are revised to read:

41
42 Poured Portland Cement or Blended Hydraulic Cement
43 Concrete Slope Protection 9-13.5(2)
44 Pneumatically Placed Portland Cement or Blended
45 Hydraulic Cement Concrete Slope Protection 9-13.5(3)
46

1 8-20.AP8
2 **Section 8-20, Illumination, Traffic Signal Systems, Intelligent Transportation**
3 **Systems, and Electrical**
4 **April 2, 2018**

5 **8-20.1(1) Regulations and Code**

6 The last paragraph is revised to read:

7
8 Persons performing electrical Work shall be certified in accordance with and supervised
9 as required by RCW 19.28.161. Proof of certification shall be worn at all times in
10 accordance with WAC 296-46B-942. Persons failing to meet these certification
11 requirements may not perform any electrical work, and shall stop any active electrical
12 work, until their certification is provided and worn in accordance with this Section.

13
14 **8-20.2(2) Equipment List and Drawings**

15 This section is renumbered:

16
17 **8-20.2(1) Equipment List and Drawings**

18
19 **8-20.3(4) Foundations**

20 The second sentence of the first paragraph is revised to read:

21
22 Concrete for Type II, III, IV, V, and CCTV signal standards and light standard
23 foundations shall be Class 4000P and does not require air entrainment.

24
25 **8-20.3(5)A General**

26 The last two sentences of the last paragraph is deleted.

27
28 This section is supplemented with the following:

29
30 All conduits shall include a pull tape with the equipment grounding conductor. The pull
31 tape shall be attached to the conduit near the end bell or grounded end bushing, or to
32 duct plugs or caps if present, at both ends of the conduit.

33
34 **8-20.3(8) Wiring**

35 The seventeenth paragraph is supplemented with the following:

36
37 Pulling tape shall meet the requirements of Section 9-29.1(10). Pull string may not be
38 used.

39
40 8-21.AP8
41 **Section 8-21, Permanent Signing**
42 **January 2, 2018**

43 **8-21.3(9)F Foundations**

44 Item number 3 of the twelfth paragraph is supplemented with the following new sentence:

45
46 Class 4000P concrete for roadside sign structures does not require air entrainment.
47

1 9-02.AP9
 2 **Section 9-02, Bituminous Materials**
 3 **April 2, 2018**

4 **9-02.1 Asphalt Material, General**

5 The second paragraph is revised to read:

6
 7 The Asphalt Supplier of Performance Graded (PG) asphalt binder and emulsified
 8 asphalt shall have a Quality Control Plan (QCP) in accordance with WSDOT QC 2
 9 “Standard Practice for Asphalt Suppliers That Certify Performance Graded and
 10 Emulsified Asphalts”. The Asphalt Supplier’s QCP shall be submitted and receive the
 11 acceptance of the WSDOT State Materials Laboratory. Once accepted, any change to
 12 the QCP will require a new QCP to be submitted for acceptance. The Asphalt Supplier
 13 of PG asphalt binder and emulsified asphalt shall certify through the Bill of Lading that
 14 the PG asphalt binder or emulsified asphalt meets the Specification requirements of the
 15 Contract.

16
 17 **9-02.1(4) Performance Graded Asphalt Binder (PGAB)**

18 This section’s title is revised to read:

19
 20 **Performance Graded (PG) Asphalt Binder**

21
 22 The first paragraph is revised to read:

23
 24 PG asphalt binder meeting the requirements of AASHTO M 332 Table 1 of the grades
 25 specified in the Contract shall be used in the production of HMA. For HMA with greater
 26 than 20 percent RAP by total weight of HMA, or any amount of RAS, the new asphalt
 27 binder, recycling agent and recovered asphalt (RAP and/or RAS) when blended in the
 28 proportions of the mix design shall meet the PG asphalt binder requirements of
 29 AASHTO M 332 Table 1 for the grade of asphalt binder specified by the Contract.

30
 31 The second paragraph, including the table, is revised to read:

32
 33 In addition to AASHTO M 332 Table 1 specification requirements, PG asphalt binders
 34 shall meet the following requirements:
 35

		Additional Requirements by Performance Grade (PG) Asphalt Binders					
Property	Test Method	PG58S-22	PG58H-22	PG58V-22	PG64S-28	PG64H-28	PG64V-28
RTFO Residue: Average Percent Recovery @ 3.2 kPa	AASHTO T 350 ¹			30% Min.	20% Min.	25% Min.	30% Min.
¹ Specimen conditioned in accordance with AASHTO T 240 – RTFO.							

36
 37 The third paragraph is revised to read:

1
2 The RTFO J_{nrdiff} and the PAV direct tension specifications of AASHTO M 332 are not
3 required.
4

5 This section is supplemented with the following:
6

7 If the asphalt binder verification sample test results fail to meet AASHTO Test Method T
8 350 "Standard Method of Test for Multiple Stress Creep Recovery (MSCR) Test of
9 Asphalt Binder Using a Dynamic Shear Rheometer (DSR)" for average percent
10 recovery @ 3.2 kPa for the applicable grades of binder in accordance with Section 9-
11 02.1(4), the Contracting Agency may elect to test the sample using AASHTO Test
12 Method T 301 "Standard Method of Test for Elastic Recovery Test of Asphalt Materials
13 by Means of a Ductilometer."
14

15 When AASHTO T 301 is used, a minimum of 65% elastic recovery (ER) will be required
16 when tested at $25^{\circ}\text{C} \pm 0.5^{\circ}\text{C}$.
17

18 **9-02.1(6) Cationic Emulsified Asphalt**

19 This section is revised to read:
20

21 Cationic Emulsified Asphalt meeting the requirements of AASHTO M 208 Table 1 of the
22 grades specified in the Contract shall be used.
23

24 **9-02.5 Warm Mix Asphalt (WMA) Additive**

25 This section, including title, is revised to read:
26

27 **9-02.5 HMA Additive**

28 Additives for HMA shall be accepted by the Engineer.
29

30 9-03.AP9

31 **Section 9-03, Aggregates**

32 **April 2, 2018**

33 **9-03.1 Aggregates for Portland Cement Concrete**

34 This section's title is revised to read:
35

36 **Aggregates for Concrete**

37 **9-03.1(1) General Requirements**

38 The first two sentences of the first paragraph are revised to read:
39

40 Concrete aggregates shall be manufactured from ledge rock, talus, or sand and gravel
41 in accordance with the provisions of Section 3-01. Reclaimed aggregate may be used if
42 it complies with the specifications for concrete.
43
44

45 The second paragraph (up until the colon) is revised to read:
46

47 Aggregates for concrete shall meet the following test requirements:
48

49 The second sentence of the second to last paragraph is revised to read:

1
2 The Contractor shall submit test results according to ASTM C1567 through the
3 Engineer to the State Materials Laboratory that demonstrate that the proposed fly ash
4 when used with the proposed aggregates and cement will control the potential
5 expansion to 0.20 percent or less before the fly ash and aggregate sources may be
6 used in concrete.
7

8 **9-03.1(2) Fine Aggregate for Portland Cement Concrete**

9 This section's title is revised to read:

10 **Fine Aggregate for Concrete**

11 **9-03.1(4) Coarse Aggregate for Portland Cement Concrete**

12 This section's title is revised to read:

13 **Coarse Aggregate for Concrete**

14 **9-03.1(4)C Grading**

15 The first paragraph (up until the colon) is revised to read:

16 Coarse aggregate for concrete when separated by means of laboratory sieves shall
17 conform to one or more of the following gradings as called for elsewhere in these
18 Specifications, Special Provisions, or in the Plans:
19

20 **9-03.1(5) Combined Aggregate Gradation for Portland Cement Concrete**

21 This section's title is revised to read:

22 **Combined Aggregate Gradation for Concrete**

23 **9-03.1(5)B Grading**

24 In the last paragraph, "WSDOT FOP for WAQTC/AASHTO T 27/T 11" is revised to read
25 "FOP for WAQTC/AASHTO T 27/T 11".
26

27 **9-03.2 Aggregate for Job-Mixed Portland Cement Mortar**

28 This section's title is revised to read:

29 **Aggregate for Job-Mixed Portland Cement or Blended Hydraulic Cement Mortar**

30 The first sentence of the first paragraph is revised to read:

31 Fine aggregate for portland cement or blended hydraulic cement mortar shall consist of
32 sand or other inert materials, or combinations thereof, accepted by the Engineer, having
33 hard, strong, durable particles free from adherent coating.
34

35 **9-03.4(1) General Requirements**

36 The first paragraph (up until the colon) is revised to read:

37 Aggregate for bituminous surface treatment shall be manufactured from ledge rock,
38 talus, or gravel, in accordance with Section 3-01. Aggregates for Bituminous Surface
39 Treatment shall meet the following test requirements:
40
41
42
43
44
45
46
47
48
49
50

1
2 **9-03.8(1) General Requirements**

3 The first paragraph (up until the colon) is revised to read:

4
5 Aggregates for Hot Mix Asphalt shall meet the following test requirements:

6
7 **9-03.8(7) HMA Tolerances and Adjustments**

8 In the table in item number 1, the fifth row is revised to read:

9

Asphalt binder	-0.4% to 0.5%		±0.7%
----------------	---------------	--	-------

10
11 In the table in item number 1, the following new row is inserted before the last row:

12

Voids in Mineral Aggregate, VMA	-1.5%		
---------------------------------	-------	--	--

13
14 **9-03.9(1) Ballast**

15 The second paragraph (up until the colon) is revised to read:

16
17 Aggregates for ballast shall meet the following test requirements:

18
19 **9-03.14(4) Gravel Borrow for Structural Earth Wall**

20 The second sentence of the first paragraph is revised to read:

21
22 The material shall be substantially free of shale or other soft, poor durability particles,
23 and shall not contain recycled materials, such as glass, shredded tires, concrete rubble,
24 or asphaltic concrete rubble.

25
26 **9-03.21(1)E Table on Maximum Allowable percent (By Weight) of Recycled Material**

27
28 "Portland Cement" is deleted from the first two rows in the table.

29
30 9-04.AP9

31 **Section 9-04, Joint and Crack Sealing Materials**
32 **April 2, 2018**

33 **9-04.1(2) Premolded Joint Filler for Expansion Joints**

34 In this section, each reference to "AASHTO T 42" is revised to read "ASTM D 545".

35
36 **9-04.2(1)A1 Hot Poured Sealant for Cement Concrete Pavement**

37 This section is supplemented with the following:

38
39 Hot poured sealant for cement concrete pavement is acceptable for installations in
40 joints where cement concrete pavement abuts a bituminous pavement.

41
42 **9-04.2(1)A2 Hot Poured Sealant for Bituminous Pavement**

43 This section is supplemented with the following:

44
45 Hot poured sealant for bituminous pavement is acceptable for installations in joints
46 where cement concrete pavement abuts a bituminous pavement.

1
2 **9-04.2(1)B Sand Slurry for Bituminous Pavement**

3 Item number 2 of the first paragraph is revised to read:

- 4
5 2. Two percent portland cement or blended hydraulic cement, and
6

7 **9-04.3 Joint Mortar**

8 The first paragraph is revised to read:

9
10 Mortar for hand mortared joints shall conform to Section 9-20.4(3) and consist of one
11 part portland cement or blended hydraulic cement, three parts fine sand, and sufficient
12 water to allow proper workability.
13

14 9-05.AP9

15 **Section 9-05, Drainage Structures and Culverts**

16 **April 2, 2018**

17 **9-05.3(1)C Age at Shipment**

18 The last sentence of the first paragraph is revised to read:

19
20 Unless it is tested and accepted at an earlier age, it shall not be considered ready for
21 shipment sooner than 28 days after manufacture when made with Type II portland
22 cement or blended hydraulic cement, nor sooner than 7 days when made with Type III
23 portland cement.
24

25 9-06.AP9

26 **Section 9-06, Structural Steel and Related Materials**

27 **January 2, 2018**

28 **9-06.5 Bolts**

29 This section's title is revised to read:

30
31 **Bolts and Rods**
32

33 **9-06.5(4) Anchor Bolts**

34 This section, including title, is revised to read:

35
36 **9-06.5(4) Anchor Bolts and Anchor Rods**

37 Anchor bolts and anchor rods shall meet the requirements of ASTM F1554 and, unless
38 otherwise specified, shall be Grade 105 and shall conform to Supplemental
39 Requirements S2, S3, and S4.
40

41 Nuts for ASTM F1554 Grade 105 black anchor bolts and anchor rods shall conform to
42 ASTM A563, Grade D or DH. Nuts for ASTM F1554 Grade 105 galvanized anchor bolts
43 and anchor rods shall conform to either ASTM A563, Grade DH, or AASHTO M292,
44 Grade 2H, and shall conform to the overtapping, lubrication, and rotational testing
45 requirements in Section 9-06.5(3). Nuts for ASTM F1554 Grade 36 or 55 black or
46 galvanized anchor bolts and anchor rods shall conform to ASTM A563, Grade A or DH.
47 Washers shall conform to ASTM F436.
48

1 The bolts and rods shall be tested by the manufacturer in accordance with the
2 requirements of the pertinent Specification and as specified in these Specifications.
3 Anchor bolts, anchor rods, nuts, and washers shall be inspected prior to shipping to the
4 project site. The Contractor shall submit to the Engineer for acceptance a
5 Manufacturer's Certificate of Compliance for the anchor bolts, anchor rods, nuts, and
6 washers, as defined in Section 1-06.3. If the Engineer deems it appropriate, the
7 Contractor shall provide a sample of the anchor bolt, anchor rod, nut, and washer for
8 testing.

9
10 All bolts, rods, nuts, and washers shall be marked and identified as required in the
11 pertinent Specification.

12 13 **9-06.18 Metal Bridge Railing**

14 The second sentence of the first paragraph is revised to read:

15
16 Steel used for metal railings, when galvanized after fabrication in accordance with
17 AASHTO M111, shall have a controlled silicon content of either 0.00 to 0.06 percent or
18 0.15 to 0.25 percent.

19
20 9-07.AP9

21 **Section 9-07, Reinforcing Steel**

22 **April 2, 2018**

23 **9-07.5(2) Corrosion Resistant Dowel Bars (for Cement Concrete Pavement and** 24 **Cement Concrete Pavement Rehabilitation)**

25 The first paragraph (up until the colon) is revised to read:

26
27 Corrosion resistant dowel bars shall be 1½ inch outside diameter plain round steel bars
28 or tubular bars 18 inches in length and meet the requirements of one of the following:

29
30 Item number 4 and 5 of the first paragraph are revised to read:

- 31
32 4. Corrosion-resistant, low-carbon, chromium plain steel bars for concrete
33 reinforcement meeting all the requirements of ASTM A 1035 Alloy Type CS Grade
34 100 or Alloy Type CS Grade 120.
35
36 5. Zinc Clad dowel bars shall be 1½ inch solid bars or tubular bars with 1.695 inch
37 outside diameter by 0.120 inch wall and shall have a minimum 0.035 inch A710
38 Zinc alloy clad to a plain steel inner bar meeting the chemical and physical
39 properties of AASHTO M 31, Grade 60, or AASHTO M 255, Grade 60. A710 Zinc
40 shall be composed of: zinc: 99.5 percent, by weight, minimum; copper: 0.1-0.25
41 percent, by weight; and iron: 0.0020 percent, by weight, maximum. Each end of
42 tubular bars shall be plugged using a snug-fitting insert to prohibit any intrusion of
43 concrete or other materials.
44

1 9-08.AP9
2 **Section 9-08, Paints and Related Materials**
3 **January 2, 2018**

4 **9-08.1(2)K Orange Equipment Enamel**
5 In the second sentence of the first paragraph, the reference to “Federal Standard 595” is
6 revised to read “SAE AMS Standard 595”.

7
8 **9-08.1(8) Standard Colors**
9 In the first paragraph, the reference to “Federal Standard 595” is revised to read “SAE AMS
10 Standard 595”.

11
12 9-13.AP9
13 **Section 9-13, Riprap, Quarry Spalls, Slope Protection, and Rock for Erosion**
14 **and Scour Protection and Rock Walls**
15 **April 2, 2018**

16 **9-13.1(1) General**
17 The last paragraph is revised to read:

18
19 Riprap and quarry spalls shall be free from segregation, seams, cracks, and other
20 defects tending to destroy its resistance to weather and shall meet the following test
21 requirements:

22
23 **9-13.5 Concrete Slope Protection**
24 This section is revised to read:

25
26 Concrete slope protection shall consist of reinforced portland cement or blended
27 hydraulic cement concrete poured or pneumatically placed upon the slope with a
28 rustication joint pattern or semi-open concrete masonry units placed upon the slope
29 closely adjoining each other.

30
31 **9-13.5(2) Poured Portland Cement Concrete Slope Protection**
32 This section’s title is revised to read:

33
34 **Poured Portland Cement or Blended Hydraulic Cement Concrete Slope Protection**
35

36 **9-13.5(3) Pneumatically Placed Portland Cement Concrete Slope Protection**
37 This section’s title is revised to read:

38
39 **Pneumatically Placed Portland Cement or Blended Hydraulic Cement Concrete**
40 **Slope Protection**

41
42 The first paragraph is revised to read:

43
44 **Cement** – This material shall be portland cement or blended hydraulic cement as
45 specified in Section 9-01.

46
47 **9-13.7(1) Rock for Rock Walls and Chinking Material**
48 The first paragraph (up until the colon) is revised to read:

1
2 Rock for rock walls and chinking material shall be hard, sound and durable material,
3 free from seams, cracks, and other defects tending to destroy its resistance to weather,
4 and shall meet the following test requirements:

5
6 9-14.AP9

7 **Section 9-14, Erosion Control and Roadside Planting**
8 **January 2, 2018**

9 **9-14.4(2) Hydraulically Applied Erosion Control Products (HECPs)**

10 In the second column of Table 1, "ASTM D 586" is revised to read "AASHTO T 267".

11
12 In Table 1, the second to last row is deleted.

13
14 9-16.AP9

15 **Section 9-16, Fence and Guardrail**
16 **April 2, 2018**

17 **9-16.3(5) Anchors**

18 The last paragraph is revised to read:

19
20 Cement grout shall conform to Section 9-20.3(4) and consist of one part portland
21 cement or blended hydraulic cement and two parts sand.

22
23 9-18.AP9

24 **Section 9-18, Precast Traffic Curb**
25 **April 2, 2018**

26 **9-18.1(1) Aggregates and Proportioning**

27 Item number 1 of the first paragraph is revised to read:

28
29 1. Portland cement or blended hydraulic cement shall conform to the requirements of
30 Section 9-01 except that it may be Type I portland cement conforming to AASHTO
31 M 85.

32
33 9-20.AP9

34 **Section 9-20, Concrete Patching Material, Grout, and Mortar**
35 **January 2, 2018**

36 **9-20.5 Bridge Deck Repair Material**

37 Item number 3 of the first paragraph is revised to read:

38
39 3. Permeability of less than 2,000 coulombs at 28-days or more in accordance with
40 AASHTO T 277.

41

1 9-21.AP9
2 **Section 9-21, Raised Pavement Markers (RPM)**
3 **January 2, 2018**

4 **9-21.2 Raised Pavement Markers Type 2**

5 This section's content is deleted.

6

7 **9-21.2(1) Physical Properties**

8 This section, including title, is revised to read:

9

10 **9-21.2(1) Standard Raised Pavement Markers Type 2**

11 The marker housing shall contain reflective faces as shown in the Plans to reflect
12 incident light from either a single or opposite directions and meet the requirements of
13 ASTM D 4280 including Flexural strength requirements.

14

15 **9-21.2(2) Optical Requirements**

16 This section, including title, is revised to read:

17

18 **9-21.2(2) Abrasion Resistant Raised Markers Type 2**

19 Abrasion Resistant Raised Markers Type 2 shall comply with Section 9-21.2(1) and
20 meet the requirements of ASTM D 4280 with the following additional requirement: The
21 coefficient of luminous intensity of the markers shall be measured after subjecting the
22 entire lens surface to the test described in ASTM D 4280 Section 9.5 using a sand drop
23 apparatus. After the exposure described above, retroreflected values shall not be less
24 than 0.5 times a nominal unblemished sample.

25

26 **9-21.2(3) Strength Requirements**

27 This section is deleted in its entirety.

28

29 9-26.AP9

30 **Section 9-26, Epoxy Resins**

31 **April 2, 2018**

32 **9-26.1(2) Packaging and Marking**

33 The second paragraph is revised to read:

34

35 Containers shall be identified as "Component A" (contains the Epoxy Resin) and
36 "Component B" (Contains the Curing Agent) and shall show the type, grade, class, and
37 mixing directions as defined by these Specifications. Each container shall be marked by
38 permanent marking with the name of the formulator, the lot or batch number, the date of
39 packaging, expiration date and the quantity contained in pounds or gallons. If the two
40 containers are furnished in a single cartridge, that cartridge shall be marked by
41 permanent marking to the cartridge with the name of the formulator and the lots or
42 batch numbers for both Component A and Component B, the date of packaging,
43 expiration date, and the quantity contained in ounces or milliliters.

44

1 9-28.AP9
2 **Section 9-28, Signing Materials and Fabrication**
3 **April 2, 2018**

4 **9-28.10 Vacant**

5 This section, including title, is revised to read:
6

7 **9-28.10 Digital Printing**

8 Transparent and opaque durable inks used in digital printed sign messages shall be as
9 recommended by the manufacturer. When properly applied, digital printed colors shall
10 have a warranty life of the base retroreflective sign sheeting. Digital applied colors shall
11 present a smooth surface, free from foreign material, and all messages and borders
12 shall be clear and sharp. Digital printed signs shall conform to 70% of the retroreflective
13 minimum values established for its type and color. Digitally printed signs shall meet the
14 daytime color and luminance, and nighttime color requirements of ASTM D 4956. No
15 variations in color or overlapping of colors will be permitted. Digital printed permanent
16 traffic signs shall have an integrated engineered match component clear protective
17 overlay recommended by the sheeting manufacturer applied to the entire face of the
18 sign. On Temporary construction/maintenance signs printed with black ink only, the
19 protective overlay film is optional, as long as the finished sign has a warranty of a
20 minimum of three years from sign sheeting manufacturer.

21
22 All digital printed traffic control signs shall be an integrated engineered match
23 component system. The integrated engineered match component system shall consist
24 of retroreflective sheeting, durable ink(s), and clear overlay film all from the same
25 manufacturer applied to aluminum substrate conforming to Section 9-28.8.

26
27 The sign fabricator shall use an approved integrated engineered match component
28 system as listed on the Qualified Products List (QPL). Each approved digital printer
29 shall only use the compatible retroreflective sign sheeting manufacturer's engineered
30 match component system products.

31
32 Each retroreflective sign sheeting manufacturer/integrated engineered match
33 component system listed on the QPL shall certify a department approved sign fabricator
34 is approved to operate their compatible digital printer. The sign fabricator shall re-certify
35 annually with the retroreflective sign manufacturer to ensure their digital printer is still
36 meeting manufacturer's specifications for traffic control signs. Documentation of each
37 re-certification shall be submitted to the QPL Engineer annually.
38

39 **9-28.11 Hardware**

40 The last paragraph is revised to read:
41

42 All steel parts shall be galvanized in accordance with AASHTO M111. Steel bolts and
43 related connecting hardware shall be galvanized in accordance with ASTM F 2329.
44

45 **9-28.14(2) Steel Structures and Posts**

46 The first sentence of the third paragraph is revised to read:
47

48 Anchor rods for sign bridge and cantilever sign structure foundations shall conform to
49 Section 9-06.5(4), including Supplemental Requirement S4 tested at -20°F.

1
2 In the second sentence of the fourth paragraph, "AASHTO M232" is revised to read "ASTM
3 F 2329".

4
5 The first sentence of the fifth paragraph is revised to read:

6
7 Except as otherwise noted, steel used for sign structures and posts shall have a
8 controlled silicon content of either 0.00 to 0.06 percent or 0.15 to 0.25 percent.

9
10 The last sentence of the last paragraph is revised to read:

11
12 If such modifications are contemplated, the Contractor shall submit a Type 2 Working
13 Drawing of the proposed modifications.

14
15 9-29.AP9

16 **Section 9-29, Illumination, Signal, Electrical**
17 **April 2, 2018**

18 **9-29.1 Conduit, Innerduct, and Outerduct**

19 This section is supplemented with the following new subsection:

20
21 **9-29.1(10) Pull Tape**

22 Pull tape shall be pre-lubricated polyester pulling tape. The pull tape shall have a
23 minimum width of ½-inch and a minimum tensile strength of 500 pounds. Pull tape may
24 have measurement marks.

25
26 **9-29.2(1) Junction Boxes**

27 The first paragraph is revised to read:

28
29 For the purposes of this Specification concrete is defined as portland cement or
30 blended hydraulic cement concrete and non-concrete is all others.

31
32 **9-29.2(1)A2 Non-Concrete Junction Boxes**

33 The first paragraph is revised to read:

34
35 Material for the non-concrete junction boxes shall be of a quality that will provide for a
36 similar life expectancy as portland cement or blended hydraulic cement concrete in a
37 direct burial application.

38
39 **9-29.2(2)A Standard Duty Cable Vaults and Pull Boxes**

40 In the table in the last paragraph, the fourth, fifth and sixth rows are revised to read:

41

Slip Resistant Lid	ASTM A36 steel
Frame	ASTM A36 steel
Slip Resistant Frame	ASTM A36 steel

42
43 **9-29.6 Light and Signal Standards**

44 In the first sentence of the third paragraph, "AASHTO M232" is revised to read "ASTM F
45 2329".

1 Item number 2 of the last paragraph is revised to read:
2

- 3 2. The steel light and signal standard fabricator's shop drawing submittal, including
4 supporting design calculations, submitted as a Type 2E Working Drawing in
5 accordance with Section 8-20.2(1) and the Special Provisions.
6

7 **9-29.6(1) Steel Light and Signal Standards**

8 In the second paragraph, "AASHTO M232" is revised to read "ASTM F 2329".
9

10 The first sentence of the last paragraph is revised to read:
11

12 Steel used for light and signal standards shall have a controlled silicon content of either
13 0.00 to 0.06 percent or 0.15 to 0.25 percent.
14

15 **9-29.6(5) Foundation Hardware**

16 In the last paragraph, "AASHTO M232" is revised to read "ASTM F 2329".
17

18 **9-29.10(1) Conventional Roadway Luminaires**

19 This section is revised to read:
20

21 All conventional roadway luminaires shall meet 3G vibration requirements as described
22 in ANSI C136.31.
23

24 All luminaires shall have housings fabricated from aluminum. The housing shall be
25 painted flat gray, SAE AMS Standard 595 color chip No. 26280, unless otherwise
26 specified in the Contract. Painted housings shall withstand a 1,000 hour salt spray test
27 as specified in ASTM B117.
28

29 Each housing shall include a four bolt slip-fitter mount capable of accepting a nominal
30 2" tenon and adjustable within +/- 5 degrees of the axis of the tenon. The clamping
31 bracket(s) and the cap screws shall not bottom out on the housing bosses when
32 adjusted within the +/- 5 degree range. No part of the slipfitter mounting brackets on the
33 luminaires shall develop a permanent set in excess of 0.2 inch when the cap screws
34 used for mounting are tightened to a torque of 32 foot-pounds. Each luminaire shall
35 include leveling reference points for both transverse and longitudinal adjustment.
36

37 All luminaires shall include shorting caps when shipped. The caps shall be removed
38 and provided to the Contracting Agency when an alternate control device is required to
39 be installed in the photocell socket. House side shields shall be included when required
40 by the Contract. Order codes shall be modified to the minimum extent necessary to
41 include the option for house side shields.
42

43 This section is supplemented with the following new subsections:
44

45 **9-29.10(1)A High Pressure Sodium (HPS) Conventional Roadway Luminaires**

46 HPS conventional roadway luminaires shall meet the following requirements:
47

- 48 1. General shape shall be "cobrahead" style, with flat glass lens and full cutoff
49 optics.
50

- 1 2. Light pattern distribution shall be IES Type III.
- 2
- 3 3. The reflector of all luminaires shall be of a snap-in design or secured with
- 4 screws. The reflector shall be polished aluminum or prismatic borosilicate
- 5 glass.
- 6
- 7 4. Flat lenses shall be formed from heat resistant, high-impact, molded
- 8 borosilicate or tempered glass.
- 9
- 10 5. The lens shall be mounted in a doorframe assembly, which shall be hinged to
- 11 the luminaire and secured in the closed position to the luminaire by means of
- 12 an automatic latch. The lens and doorframe assembly, when closed, shall
- 13 exert pressure against a gasket seat. The lens shall not allow any light output
- 14 above 90 degrees nadir. Gaskets shall be composed of material capable of
- 15 withstanding the temperatures involved and shall be securely held in place.
- 16
- 17 6. The ballast shall be mounted on a separate exterior door, which shall be
- 18 hinged to the luminaire and secured in the closed position to the luminaire
- 19 housing by means of an automatic type of latch (a combination hex/slot
- 20 stainless steel screw fastener may supplement the automatic-type latch).
- 21
- 22 7. Each luminaire shall be capable of accepting a 150, 200, 250, 310, or 400 watt
- 23 lamp complete and associated ballast. Lamps shall mount horizontally.
- 24

25 **9-29.10(1)B Light Emitting Diode (LED) Conventional Roadway Luminaires**

26 LED Conventional Roadway Luminaires are divided into classes based on their

27 equivalent High Pressure Sodium (HPS) luminaires. Current classes are 200W, 250W,

28 310W, and 400W. LED luminaires are required to be pre-approved in order to verify

29 their photometric output. To be considered for pre-approval, LED luminaires must meet

30 the requirements of this section.

31

32 LED luminaires shall include a removable access door, with tool-less entry, for access

33 to electronic components and the terminal block. The access door shall be removable,

34 but include positive retention such that it can hang freely without disconnecting from the

35 luminaire housing. LED drivers may be mounted either to the interior of the luminaire

36 housing or to the removable door itself.

37

38 LED drivers shall be removable for user replacement. All internal modular components

39 shall be connected by means of mechanical plug and socket type quick disconnects.

40 Wire nuts may not be used for any purpose. All external electrical connections to the

41 luminaire shall be made through the terminal block.

42

43 LED luminaires shall include a 7-pin NEMA photocell receptacle. The LED driver(s)

44 shall be dimmable from ten volts to zero volts. LED output shall have a Correlated Color

45 Temperature (CCT) of 4000K nominal (4000-4300K) and a Color Rendering Index

46 (CRI) of 70 or greater. LED output shall be a minimum of 85% at 75,000 hours at 25

47 degrees Celsius.

48

49 LED luminaires shall be available for 120V, 240V, and 480V supply voltages. Voltages

50 refer to the supply voltages to the luminaires present in the field. LED power usage

51 shall not exceed the following maximum values for the applicable wattage class:

1

Class	Max. Wattage
200W	110W
250W	165W
310W	210W
400W	275W

2

3

4

5

6

7

8

9

Only one brand of LED conventional roadway luminaire may be used on a Contract. They do not necessarily have to be the same brand as any high-mast, underdeck, or wall-mount luminaires when those types of luminaires are specified in the Contract. LED luminaires shall include a standard 10 year manufacturer warranty.

10

11

9-29.10(2) Decorative Luminaires

12

This section, including title, is revised to read:

13

14

9-29.10(2) Vacant

15

16

9-29.12 Electrical Splice Materials

17

This section is supplemented with the following new subsections:

18

19

9-29.12(3) Splice Enclosures

20

9-29.12(3)A Heat Shrink Splice Enclosure

21

Heat shrink splice enclosures shall be medium or heavy wall cross-linked polyolefin, meeting the requirements of AMS-DTL-23053/15, with thermoplastic adhesive sealant. Heat shrink splices used for “wye” connections require rubber electrical mastic tape.

22

23

24

25

26

9-29.12(3)B Molded Splice Enclosure

27

Molded splice enclosures shall use epoxy resin in a clear rigid plastic mold. The material used shall be compatible with the insulation material of the insulated conductor or cable. The component materials of the resin insulation shall be packaged ready for convenient mixing without removing from the package.

28

29

30

31

9-29.12(4) Re-Enterable Splice Enclosure

32

Re-enterable splice enclosures shall use either dielectric grease or a flexible resin contained in a two-piece plastic mold. The mold shall either snap together or use stainless steel hose clamps.

33

34

35

36

9-29.12(5) Vinyl Electrical Tape for Splices

37

Vinyl electrical tape in splicing applications shall meet the requirements of MIL-I-24391C.

38

39

40

41

9-29.12(1) Illumination Circuit Splices

42

This section is revised to read:

43

44

Underground illumination circuit splices shall be solderless crimped connections capable of securely joining the wires, both mechanically and electrically, as defined in

45

1 Section 8-20.3(8). Aerial illumination splices shall be solderless crimp connectors or
2 split bolt vice-type connectors.

3
4 **9-29.12(1)A Heat Shrink Splice Enclosure**

5 This section is deleted in its entirety.

6
7 **9-29.12(1)B Molded Splice Enclosure**

8 This section is deleted in its entirety.

9
10 **9-29.12(2) Traffic Signal Splice Material**

11 This section is revised to read:

12
13 Induction loop splices and magnetometer splices shall use an uninsulated barrel-type
14 crimped connector capable of being soldered.

15
16 **9-29.16(2)E Painting Signal Heads**

17 In the first sentence, "Federal Standard 595" is revised to read "SAE AMS Standard 595".

18
19 **9-29.17 Signal Head Mounting Brackets and Fittings**

20 In the first paragraph, item number 2 under **Stainless Steel** is revised to read:

21
22 2. Bands or cables for Type N mount.

23
24 **9-29.20 Pedestrian Signals**

25 In item 2C of the second paragraph, "Federal Standard 595" is revised to read "SAE AMS
26 Standard 595".

27
28 9-34.AP9

29 **Section 9-34, Pavement Marking Material**
30 **January 2, 2018**

31 **9-34.2(2) Color**

32 Each reference to "Federal Standard 595" is revised to read "SAE AMS Standard 595".

33
34 **9-34.2(5) Low VOC Waterborne Paint**

35 The heading "Standard Waterborne Paint" is supplemented with "Type 1 and 2".

36
37 The heading "High-Build Waterborne Paint" is supplemented with "Type 4".

38
39 The heading "Cold Weather Waterborne Paint" is supplemented with "Type 5".

40
41 In the row beginning with "° @90°F", each minimum value is revised to read "60".

42
43 In the row beginning with "Fineness of Grind, (Hegman Scale)", each minimum value is
44 revised to read "3".

1 The last four rows are replaced with the following:
 2

Vehicle Composition	ASTM D 2621	100% acrylic emulsion	100% cross-linking acrylic ⁴	100% acrylic emulsion
Freeze-Thaw Stability, KU	ASTM D 2243 and D 562	@ 5 cycles show no coagulation or change in viscosity greater than ± 10 KU	@ 5 cycles show no coagulation or change in viscosity greater than ± 10 KU	@ 3 cycles show no coagulation or change in viscosity greater than ± 10 KU
Heat Stability	ASTM D 562 ²	± 10 KU from the initial viscosity	± 10 KU from the initial viscosity	± 10 KU from the initial Viscosity
Low Temperature Film Formation	ASTM D 2805 ³	No Cracks*		No Cracks
Cold Flexibility ⁵	ASTM D522	Pass at 0.5 in mandrel*		
Test Deck Durability ⁶	ASTM D913	$\geq 70\%$ paint retention in wheel track*		
Mud Cracking	(See note 7)	No Cracks	No Cracks	

3
 4 After the preceding Amendments are applied, the following new column is inserted after the
 5 "Standard Waterborne Paint Type 1 and 2" column:
 6

Semi-Durable Waterborne Paint Type 3			
White		Yellow	
Min.	Max.	Min.	Max.
Within ± 0.3 of qualification sample			
80	95	80	95
60		60	
77		77	
	65		65
43		43	
	1.25		1.25
3		3	
0.98		0.96	
88		50	
100°		100°	
9.5		9.5	
	10		10
100% acrylic emulsion			
@ 5 cycles show no coagulation or change in viscosity greater than ± 10 KU			
± 10 KU from the initial viscosity			
No Cracks			
Pass at 0.25 in mandrel			
$\geq 70\%$ paint retention in wheel track			
No Cracks			

7
 8 The footnotes are supplemented with the following:
 9

10 ⁴Cross-linking acrylic shall meet the requirements of federal specification TT-P-1952F
 11 Section 3.1.1.
 12

1 ⁵Cold Flexibility: The paint shall be applied to an aluminum panel at a wet film thickness
2 of 15 mils and allowed to dry under ambient conditions (50±10% RH and 72±5 °F) for
3 24 hours. A cylindrical mandrel apparatus (in accordance with ASTM D522 method B)
4 shall be put in a 40°F refrigerator when the paint is drawn down. After 24 hours, the
5 aluminum panel with dry paint shall be put in the 40°F refrigerator with the mandrel
6 apparatus for 2 hours. After 2 hours, the panel and test apparatus shall be removed and
7 immediately tested to according to ASTM D522 to evaluate cold flexibility. Paint must
8 show no evidence of cracking, chipping or flaking when bent 180 degrees over a
9 mandrel bar of specified diameter.

10
11 ⁶NTPEP test deck, or a test deck conforming to ASTM D713, shall be conducted for a
12 minimum of six months with the following additional requirements: it shall be applied at
13 15 wet mils to a test deck that is located at 40N latitude or higher with at least 10,000
14 ADT and which was applied during the months of September through November.

15
16 ⁷Paint is applied to an approximately 4"x12" aluminum panel using a drawdown bar with
17 a 50 mil gap. The coated panel is allowed to dry under ambient conditions (50±10% RH
18 and 72±5 °F) for 24 hours. Visual evaluation of the dry film shall reveal no cracks.

20 **9-34.3 Plastic**

21 In the first sentence of the last paragraph, "Federal Standard 595" is revised to read "SAE
22 AMS Standard 595".

24 **9-34.3(2) Type B – Pre-Formed Fused Thermoplastic**

25 In the last two paragraphs, each reference to "Federal Standard 595" is revised to read
26 "SAE AMS Standard 595".

28 **9-34.7(1) Requirements**

29 The first paragraph is revised to read:

30
31 Field performance evaluation is required for low VOC solvent-based paint per Section
32 9-34.2(4), Type A – liquid hot applied thermoplastic per Section 9-34.3(1), Type B –
33 preformed fused thermoplastic per Section 9-34.3(2), Type C – cold applied preformed
34 tape per Section 9-34.3(3), and Type D – liquid applied methyl methacrylate per Section
35 9-34.3(4).

36
37 The last paragraph is deleted.

39 **9-34.7(1)C Auto No-Track Time**

40 The first paragraph is revised to read:

41
42 Auto No-Track Time will only be required for low VOC solvent-based paint in
43 accordance with Section 9-34.2(4).

44
45 The second and third sentences of the second paragraph are deleted.

PROJECT SPECIAL PROVISIONS

1 **SPECIAL PROVISIONS**

2
3 The following Special Provisions are made a part of this contract and supersede any conflicting
4 provisions of the 2018 Standard Specifications for Road, Bridge and Municipal Construction,
5 and the foregoing Amendments to the Standard Specifications.
6

7 Several types of Special Provisions are included in this contract; General, Region, Bridges and
8 Structures, and Project Specific. Special Provisions types are differentiated as follows:
9

10	(date)	General Special Provision
11	(*****)	Notes a revision to a General Special Provision and also notes a Project Specific Special Provision.
12		
13		
14	(Regions ¹ date)	Region Special Provision
15	(BSP date)	Bridges and Structures Special Provision
16		

17 **General Special Provisions** are similar to Standard Specifications in that they typically apply to
18 many projects, usually in more than one Region. Usually, the only difference from one project to
19 another is the inclusion of variable project data, inserted as a “fill-in”.
20

21 **Region Special Provisions** are commonly applicable within the designated Region. Region
22 designations are as follows:
23

24	<u>Regions¹</u>	
25	ER	Eastern Region
26	NCR	North Central Region
27	NWR	Northwest Region
28	OR	Olympic Region
29	SCR	South Central Region
30	SWR	Southwest Region
31		
32	WSF	Washington State Ferries Division
33		

34 **Bridges and Structures Special Provisions** are similar to Standard Specifications in that they
35 typically apply to many projects, usually in more than one Region. Usually, the only difference
36 from one project to another is the inclusion of variable project data, inserted as a “fill-in”.
37

38 **Project Specific Special Provisions** normally appear only in the contract for which they were
39 developed.
40
41

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Division 1
General Requirements

DESCRIPTION OF WORK

This Contract provides for the improvement of sewer pipes and other work, all in accordance with the attached Contract Plans, these Contract Provisions, and the Standard Specifications.

Work includes lining approximately 11,555 feet of sanitary sewer pipe and approximately 145 feet of storm sewer pipe as depicted in the project plans/maps with a cured in place pipe (CIPP) liner system.

The CIPP liner system must be Insituform, In-Liner, National Liner, Master Liner, or an approved equal as determined by the City of Mount Vernon. Alternate CIPP systems will be considered based on an established record of successful installations similar to these four systems as determined by the City of Mount Vernon.

Work also includes grouting and restoring laterals and trimming intruding laterals. Contractor will be responsible to determine and incorporate bypass costs into unit costs for bid items.

Further investigation on the part of the contractor may be necessary to fully assess the requirements of the work.

1-01.3 Definitions
(January 4, 2016 APWA GSP)

Delete the heading **Completion Dates** and the three paragraphs that follow it, and replace them with the following:

Dates

Bid Opening Date

The date on which the Contracting Agency publicly opens and reads the Bids.

Award Date

The date of the formal decision of the Contracting Agency to accept the lowest responsible and responsive Bidder for the Work.

Contract Execution Date

The date the Contracting Agency officially binds the Agency to the Contract.

Notice to Proceed Date

The date stated in the Notice to Proceed on which the Contract time begins.

Substantial Completion Date

The day the Engineer determines the Contracting Agency has full and unrestricted use and benefit of the facilities, both from the operational and safety standpoint, any remaining traffic disruptions will be rare and brief, and only minor incidental work, replacement of temporary substitute facilities, plant establishment periods, or correction or repair remains for the Physical Completion of the total Contract.

1 **Physical Completion Date**

2 The day all of the Work is physically completed on the project. All documentation
3 required by the Contract and required by law does not necessarily need to be furnished
4 by the Contractor by this date.

5 **Completion Date**

6 The day all the Work specified in the Contract is completed and all the obligations of the
7 Contractor under the contract are fulfilled by the Contractor. All documentation required
8 by the Contract and required by law must be furnished by the Contractor before
9 establishment of this date.

10 **Final Acceptance Date**

11 The date on which the Contracting Agency accepts the Work as complete.

12
13 Supplement this Section with the following:

14
15 All references in the Standard Specifications, Amendments, or WSDOT General Special
16 Provisions, to the terms “Department of Transportation”, “Washington State Transportation
17 Commission”, “Commission”, “Secretary of Transportation”, “Secretary”, “Headquarters”, and
18 “State Treasurer” shall be revised to read “Contracting Agency”.

19
20 All references to the terms “State” or “state” shall be revised to read “Contracting Agency”
21 unless the reference is to an administrative agency of the State of Washington, a State
22 statute or regulation, or the context reasonably indicates otherwise.

23
24 All references to “State Materials Laboratory” shall be revised to read “Contracting Agency
25 designated location”.

26
27 All references to “final contract voucher certification” shall be interpreted to mean the
28 Contracting Agency form(s) by which final payment is authorized, and final completion and
29 acceptance granted.

30
31 **Additive**

32 A supplemental unit of work or group of bid items, identified separately in the Bid Proposal,
33 which may, at the discretion of the Contracting Agency, be awarded in addition to the base
34 bid.

35
36 **Alternate**

37 One of two or more units of work or groups of bid items, identified separately in the Bid
38 Proposal, from which the Contracting Agency may make a choice between different
39 methods or material of construction for performing the same work.

40
41 **Business Day**

42 A business day is any day from Monday through Friday except holidays as listed in Section
43 1-08.5.

44
45 **Contract Bond**

46 The definition in the Standard Specifications for “Contract Bond” applies to whatever bond
47 form(s) are required by the Contract Documents, which may be a combination of a Payment
48 Bond and a Performance Bond.

1 **Contract Documents**

2 See definition for "Contract".

3
4 **Contract Time**

5 The period of time established by the terms and conditions of the Contract within which the
6 Work must be physically completed.

7
8 **Notice of Award**

9 The written notice from the Contracting Agency to the successful Bidder signifying the
10 Contracting Agency's acceptance of the Bid Proposal.

11
12 **Notice to Proceed**

13 The written notice from the Contracting Agency or Engineer to the Contractor authorizing
14 and directing the Contractor to proceed with the Work and establishing the date on which
15 the Contract time begins.

16
17 **Traffic**

18 Both vehicular and non-vehicular traffic, such as pedestrians, bicyclists, wheelchairs, and
19 equestrian traffic.

20
21 **1-02 BID PROCEDURES AND CONDITIONS**

22
23 **1-02.1 Prequalification of Bidders**

24
25 Delete this section and replace it with the following:

26
27 **1-02.1 Qualifications of Bidder**

28 *(January 24, 2011 APWA GSP)*

29
30 Before award of a public works contract, a bidder must meet at least the minimum
31 qualifications of RCW 39.04.350(1) to be considered a responsible bidder and qualified to
32 be awarded a public works project.

33
34 **1-02.2 Plans and Specifications**

35 *(June 27, 2011 APWA GSP)*

36
37 Delete this section and replace it with the following:

38
39 Information as to where Bid Documents can be obtained or reviewed can be found in the
40 Call for Bids (Advertisement for Bids) for the work.

41
42 After award of the contract, plans and specifications will be issued to the Contractor at no
43 cost as detailed below:

To Prime Contractor	No. of Sets	Basis of Distribution
Reduced plans (11" x 17")	3	Furnished automatically upon award.

Contract Provisions	3	Furnished automatically upon award.
Large plans (e.g., 22" x 34")	0	Furnished only upon request.

Additional plans and Contract Provisions may be obtained by the Contractor from the source stated in the Call for Bids, at the Contractor's own expense.

1-02.4(1) General

(April 20, 2016 MV GSP)

This section is supplemented with the following:

A Plan Holders List will be kept by the City in order to provide addenda to bidders. The Plan Holders List may be viewed on the City's website at www.mountvernonwa.gov. It is the Bidder's responsibility to request their name be added to the Plan Holders List by calling the Engineering Department at 360-336-6204. Addenda will be issued to all members of the Plan Holders List and will also be made available in downloadable form on the website.

1-02.5 Proposal Forms

(July 31, 2017 APWA GSP)

Delete this section and replace it with the following:

The Proposal Form will identify the project and its location and describe the work. It will also list estimated quantities, units of measurement, the items of work, and the materials to be furnished at the unit bid prices. The bidder shall complete spaces on the proposal form that call for, but are not limited to, unit prices; extensions; summations; the total bid amount; signatures; date; and, where applicable, retail sales taxes and acknowledgment of addenda; the bidder's name, address, telephone number, and signature; the bidder's UDBE/DBE/M/WBE commitment, if applicable; a State of Washington Contractor's Registration Number; and a Business License Number, if applicable. Bids shall be completed by typing or shall be printed in ink by hand, preferably in black ink. The required certifications are included as part of the Proposal Form.

The Contracting Agency reserves the right to arrange the proposal forms with alternates and additives, if such be to the advantage of the Contracting Agency. The bidder shall bid on all alternates and additives set forth in the Proposal Form unless otherwise specified.

1-02.6 Preparation of Proposal

(June 20, 2017 APWA GSP)

Supplement the second paragraph with the following:

4. If a minimum bid amount has been established for any item, the unit or lump sum price must equal or exceed the minimum amount stated.

- 1 5. Any correction to a bid made by interlineation, alteration, or erasure, shall be initialed
2 by the signer of the bid.
3

4 Delete the fourth paragraph and replace it with the following:
5

6 The Bidder shall submit with the Bid a completed Underutilized Disadvantaged Business
7 Enterprise (UDBE) Utilization Certification, when required by the Special Provisions. For
8 each and every UDBE firm listed on the Bidder's completed Underutilized Disadvantaged
9 Business Enterprise Utilization Certification, the Bidder shall submit written confirmation
10 from that UDBE firm that the UDBE is in agreement with the UDBE participation commitment
11 that the Bidder has made in the Bidder's completed Underutilized Disadvantaged Business
12 Enterprise Utilization Certification. WSDOT Form 422-031U (Underutilized Disadvantaged
13 Business Enterprise Written Confirmation Document) is to be used for this purpose. Bidder
14 must submit good faith effort documentation with the Underutilized Disadvantaged Business
15 Enterprise Utilization Certification only in the event the bidder's efforts to solicit sufficient
16 UDBE participation have been unsuccessful. Directions for delivery of the Underutilized
17 Disadvantaged Business Enterprise Written Confirmation Documents and Underutilized
18 Disadvantaged Business Enterprise Good Faith Effort documentation are included in
19 Sections 1-02.9
20

21 Delete the last paragraph, and replace it with the following:
22

23 The Bidder shall make no stipulation on the Bid Form, nor qualify the bid in any manner.
24

25 A bid by a corporation shall be executed in the corporate name, by the president or a vice
26 president (or other corporate officer accompanied by evidence of authority to sign).
27

28 A bid by a partnership shall be executed in the partnership name, and signed by a partner. A
29 copy of the partnership agreement shall be submitted with the Bid Form if any UDBE
30 requirements are to be satisfied through such an agreement.
31

32 A bid by a joint venture shall be executed in the joint venture name and signed by a member
33 of the joint venture. A copy of the joint venture agreement shall be submitted with the Bid
34 Form if any UDBE requirements are to be satisfied through such an agreement.
35
36

37 **1-02.7 Bid Deposit**

38 *(March 8, 2013 APWA GSP)*
39

40 Supplement this section with the following:
41

42 Bid bonds shall contain the following:

- 43 1. Contracting Agency-assigned number for the project;
- 44 2. Name of the project;
- 45 3. The Contracting Agency named as obligee;
- 46 4. The amount of the bid bond stated either as a dollar figure or as a percentage which
47 represents five percent of the maximum bid amount that could be awarded;

- 1 5. Signature of the bidder's officer empowered to sign official statements. The signature of
2 the person authorized to submit the bid should agree with the signature on the bond, and
3 the title of the person must accompany the said signature;
- 4 6. The signature of the surety's officer empowered to sign the bond and the power of
5 attorney.
6

7 If so stated in the Contract Provisions, bidder must use the bond form included in the
8 Contract Provisions.
9

10 If so stated in the Contract Provisions, cash will not be accepted for a bid deposit.
11

12 **1-02.9 Delivery of Proposal**

13 *(April 23, 2018 MV GSP)*
14

15 Delete this section and replace it with the following:
16

17 Bids will not be accepted or read by the City of Mount Vernon unless they are received in
18 person or by mail at the following location prior to the scheduled Bid Opening:
19

20 City Finance Director
21 Mount Vernon City Hall
22 910 Cleveland Avenue
23 Mount Vernon, Washington 98273
24

25 Each proposal (including all required documents) shall be enclosed in a sealed opaque
26 envelope, and plainly marked as follows:
27

28 Proposal for Contract
29 (Name of Bidder)
30 (Project Number and Project Name)
31 City of Mount Vernon, WA
32

33 **1-02.10 Withdrawing, Revising, or Supplementing Proposal**

34 *(July 23, 2015 APWA GSP)*
35

36 Delete this section, and replace it with the following:
37

38 After submitting a physical Bid Proposal to the Contracting Agency, the Bidder may
39 withdraw, revise, or supplement it if:
40

- 41 1. The Bidder submits a written request signed by an authorized person and
42 physically delivers it to the place designated for receipt of Bid Proposals, and
- 43 2. The Contracting Agency receives the request before the time set for receipt of Bid
44 Proposals, and
- 45 3. The revised or supplemented Bid Proposal (if any) is received by the Contracting
46 Agency before the time set for receipt of Bid Proposals.
47

48 If the Bidder's request to withdraw, revise, or supplement its Bid Proposal is received
49 before the time set for receipt of Bid Proposals, the Contracting Agency will return the
50 unopened Proposal package to the Bidder. The Bidder must then submit the revised or

1 supplemented package in its entirety. If the Bidder does not submit a revised or
2 supplemented package, then its bid shall be considered withdrawn.

3
4 Late revised or supplemented Bid Proposals or late withdrawal requests will be date
5 recorded by the Contracting Agency and returned unopened. Mailed, emailed, or faxed
6 requests to withdraw, revise, or supplement a Bid Proposal are not acceptable.
7

8 **1-02.13 Irregular Proposals**

9 *(June 20, 2017 APWA GSP)*

10
11 Delete this section and replace it with the following:

- 12
13 1. A Proposal will be considered irregular and will be rejected if:
- 14 a. The Bidder is not prequalified when so required;
 - 15 b. The authorized Proposal form furnished by the Contracting Agency is not used or
16 is altered;
 - 17 c. The completed Proposal form contains any unauthorized additions, deletions,
18 alternate Bids, or conditions;
 - 19 d. The Bidder adds provisions reserving the right to reject or accept the award, or
20 enter into the Contract;
 - 21 e. A price per unit cannot be determined from the Bid Proposal;
 - 22 f. The Proposal form is not properly executed;
 - 23 g. The Bidder fails to submit or properly complete a Subcontractor list, if applicable,
24 as required in Section 1-02.6;
 - 25 h. The Bidder fails to submit or properly complete an Underutilized Disadvantaged
26 Business Enterprise Certification, if applicable, as required in Section 1-02.6;
 - 27 i. The Bidder fails to submit written confirmation from each UDBE firm listed on the
28 Bidder's completed UDBE Utilization Certification that they are in agreement with
29 the bidder's UDBE participation commitment, if applicable, as required in Section
30 1-02.6, or if the written confirmation that is submitted fails to meet the
31 requirements of the Special Provisions;
 - 32 j. The Bidder fails to submit UDBE Good Faith Effort documentation, if applicable,
33 as required in Section 1-02.6, or if the documentation that is submitted fails to
34 demonstrate that a Good Faith Effort to meet the Condition of Award was made;
 - 35 k. The Bid Proposal does not constitute a definite and unqualified offer to meet the
36 material terms of the Bid invitation; or
 - 37 l. More than one Proposal is submitted for the same project from a Bidder under
38 the same or different names.
- 39
40 2. A Proposal may be considered irregular and may be rejected if:
- 41 a. The Proposal does not include a unit price for every Bid item;
 - 42 b. Any of the unit prices are excessively unbalanced (either above or below the
43 amount of a reasonable Bid) to the potential detriment of the Contracting Agency;
 - 44 c. Receipt of Addenda is not acknowledged;
 - 45 d. A member of a joint venture or partnership and the joint venture or partnership
46 submit Proposals for the same project (in such an instance, both Bids may be
47 rejected); or
 - 48 e. If Proposal form entries are not made in ink.

1 **1-02.15 Pre Award Information**

2 *(August 14, 2013 APWA GSP)*

3
4 Revise this section to read:

5
6 Before awarding any contract, the Contracting Agency may require one or more of these
7 items or actions of the apparent lowest responsible bidder:

- 8 1. A complete statement of the origin, composition, and manufacture of any or all materials
9 to be used,
- 10 2. Samples of these materials for quality and fitness tests,
- 11 3. A progress schedule (in a form the Contracting Agency requires) showing the order of
12 and time required for the various phases of the work,
- 13 4. A breakdown of costs assigned to any bid item,
- 14 5. Attendance at a conference with the Engineer or representatives of the Engineer,
- 15 6. Obtain, and furnish a copy of, a business license to do business in the city or county
16 where the work is located.
- 17 7. Any other information or action taken that is deemed necessary to ensure that the bidder
18 is the lowest responsible bidder.

19
20
21 **1-03.2 Award of Contract**

22 *(April 20, 2016 MV GSP)*

23
24 Revise this section to read:

25
26 Normally, Contract Award or Bid rejection will occur within 30 calendar days after Bid
27 opening. If the lowest responsible Bidder and the Contracting Agency agree, this deadline
28 may be extended. If they cannot agree on an extension by the 30 calendar day deadline, the
29 Contracting Agency reserves the right to Award the Contract to the next lowest responsible
30 Bidder or reject all Bids. The Contracting Agency will notify the successful Bidder of the
31 Contract Award in writing.

32
33 **1-03.3 Execution of Contract**

34 *(October 1, 2005 APWA GSP)*

35
36 Revise this section to read:

37
38 Copies of the Contract Provisions, including the unsigned Form of Contract, will be available
39 for signature by the successful bidder on the first business day following award. The number
40 of copies to be executed by the Contractor will be determined by the Contracting Agency.

41
42 Within 10 calendar days after the award date, the successful bidder shall return the signed
43 Contracting Agency-prepared contract, an insurance certification as required by Section 1-
44 07.18, and a satisfactory bond as required by law and Section 1-03.4. Before execution of
45 the contract by the Contracting Agency, the successful bidder shall provide any pre-award
46 information the Contracting Agency may require under Section 1-02.15.

47
48 Until the Contracting Agency executes a contract, no proposal shall bind the Contracting
49 Agency nor shall any work begin within the project limits or within Contracting Agency-

1 furnished sites. The Contractor shall bear all risks for any work begun outside such areas
2 and for any materials ordered before the contract is executed by the Contracting Agency.
3

4 If the bidder experiences circumstances beyond their control that prevents return of the
5 contract documents within the calendar days after the award date stated above, the
6 Contracting Agency may grant up to a maximum of 30 additional calendar days for return of
7 the documents, provided the Contracting Agency deems the circumstances warrant it.
8

9
10 **1-03.4 Contract Bond**
11 *(April 27, 2016 MV GSP)*
12

13 Delete the first paragraph and replace it with the following:
14

15 The successful bidder shall provide executed payment and performance bonds for the full
16 contract amount each. The bonds shall:

- 17 1. Be on Contracting Agency-furnished form(s);
- 18 2. Be signed by an approved surety (or sureties) that:
 - 19 a. Is registered with the Washington State Insurance Commissioner, and
 - 20 b. Appears on the current Authorized Insurance List in the State of Washington
21 published by the Office of the Insurance Commissioner,
- 22 3. Guarantee that the Contractor will perform and comply with all obligations, duties, and
23 conditions under the Contract, including but not limited to the duty and obligation to
24 indemnify, defend, and protect the Contracting Agency against all losses and claims
25 related directly or indirectly from any failure:
 - 26 a. Of the Contractor (or any of the employees, subcontractors, or lower tier
27 subcontractors of the Contractor) to faithfully perform and comply with all contract
28 obligations, conditions, and duties, or
 - 29 b. Of the Contractor (or the subcontractors or lower tier subcontractors of the
30 Contractor) to pay all laborers, mechanics, subcontractors, lower tier subcontractors,
31 material person, or any other person who provides supplies or provisions for carrying
32 out the work;
- 33 4. Be conditioned upon the payment of taxes, increases, and penalties incurred on the
34 project under titles 50, 51, and 82 RCW; and
- 35 5. Be accompanied by a power of attorney for the Surety's officer empowered to sign the
36 bond; and
- 37 6. Be signed by an officer of the Contractor empowered to sign official statements (sole
38 proprietor or partner). If the Contractor is a corporation, the bond(s) must be signed by
39 the president or vice president, unless accompanied by written proof of the authority of
40 the individual signing the bond(s) to bind the corporation (i.e., corporate resolution,
41 power of attorney, or a letter to such effect signed by the president or vice president).
42

43 **1-03.6 Return of Bid Deposit**
44 *(April 22, 2016 MV GSP)*
45

46 Delete this section and replace it with the following:
47

1 Bid Bonds and Bid Deposits will be released when the City determines that the bid proposal
2 is no longer eligible for further consideration. Accordingly, Bid Bonds and Bid Deposits will
3 be released for:
4

- 5 1. Any proposal that has been rejected by the City;
 - 6 2. Any proposal that is withdrawn by the Bidder in accordance with section 1-02.10;
 - 7 3. All but the two lowest remaining eligible proposals following award to another bidder;
 - 8 4. All remaining unsuccessful proposals following contract execution with another bidder.
- 9

10
11 **1-03.7 Judicial Review**
12 *(July 23, 2015 APWA GSP)*

13
14 Revise this section to read:

15
16 Any decision made by the Contracting Agency regarding the Award and execution of the
17 Contract or Bid rejection shall be conclusive subject to the scope of judicial review permitted
18 under Washington Law. Such review, if any, shall be timely filed in the Superior Court of the
19 county where the Contracting Agency headquarters is located, provided that where an
20 action is asserted against a county, RCW 36.01.05 shall control venue and jurisdiction.
21

22 **1-04.6 Variation in Estimated Quantities**
23 *(April 25, 2016 MV GSP)*

24
25 Replace this section with the following:

26
27 The quantities for all bid items have been entered into the Proposal only to provide a
28 common proposal for bidders. Actual quantities will be determined in the field as the work
29 progresses, and will be paid at the original bid price, regardless of final quantity.
30

31 **1-05.7 Removal of Defective and Unauthorized Work**
32 *(October 1, 2005 APWA GSP)*

33
34 Supplement this section with the following:

35
36 If the Contractor fails to remedy defective or unauthorized work within the time specified in a
37 written notice from the Engineer, or fails to perform any part of the work required by the
38 Contract Documents, the Engineer may correct and remedy such work as may be identified
39 in the written notice, with Contracting Agency forces or by such other means as the
40 Contracting Agency may deem necessary.
41

42 If the Contractor fails to comply with a written order to remedy what the Engineer determines
43 to be an emergency situation, the Engineer may have the defective and unauthorized work
44 corrected immediately, have the rejected work removed and replaced, or have work the
45 Contractor refuses to perform completed by using Contracting Agency or other forces. An
46 emergency situation is any situation when, in the opinion of the Engineer, a delay in its
47 remedy could be potentially unsafe, or might cause serious risk of loss or damage to the
48 public.
49

50 Direct or indirect costs incurred by the Contracting Agency attributable to correcting and
51 remedying defective or unauthorized work, or work the Contractor failed or refused to

1 perform, shall be paid by the Contractor. Payment will be deducted by the Engineer from
2 monies due, or to become due, the Contractor. Such direct and indirect costs shall include in
3 particular, but without limitation, compensation for additional professional services required,
4 and costs for repair and replacement of work of others destroyed or damaged by correction,
5 removal, or replacement of the Contractor's unauthorized work.
6

7 No adjustment in contract time or compensation will be allowed because of the delay in the
8 performance of the work attributable to the exercise of the Contracting Agency's rights
9 provided by this Section.

10
11 The rights exercised under the provisions of this section shall not diminish the Contracting
12 Agency's right to pursue any other avenue for additional remedy or damages with respect to
13 the Contractor's failure to perform the work as required.
14

15 16 **1-05.11 Final Inspection**

17
18 Delete this section and replace it with the following:
19

20 **1-05.11 Final Inspections and Operational Testing** 21 *(October 1, 2005 APWA GSP)* 22

23 **1-05.11(1) Substantial Completion Date** 24

25 When the Contractor considers the work to be substantially complete, the Contractor shall
26 so notify the Engineer and request the Engineer establish the Substantial Completion Date.
27 The Contractor's request shall list the specific items of work that remain to be completed in
28 order to reach physical completion. The Engineer will schedule an inspection of the work
29 with the Contractor to determine the status of completion. The Engineer may also establish
30 the Substantial Completion Date unilaterally.
31

32 If, after this inspection, the Engineer concurs with the Contractor that the work is
33 substantially complete and ready for its intended use, the Engineer, by written notice to the
34 Contractor, will set the Substantial Completion Date. If, after this inspection the Engineer
35 does not consider the work substantially complete and ready for its intended use, the
36 Engineer will, by written notice, so notify the Contractor giving the reasons therefor.
37

38 Upon receipt of written notice concurring in or denying substantial completion, whichever is
39 applicable, the Contractor shall pursue vigorously, diligently and without unauthorized
40 interruption, the work necessary to reach Substantial and Physical Completion. The
41 Contractor shall provide the Engineer with a revised schedule indicating when the
42 Contractor expects to reach substantial and physical completion of the work.
43

44 The above process shall be repeated until the Engineer establishes the Substantial
45 Completion Date and the Contractor considers the work physically complete and ready for
46 final inspection.
47

48 **1-05.11(2) Final Inspection and Physical Completion Date** 49

50 When the Contractor considers the work physically complete and ready for final inspection,
51 the Contractor by written notice, shall request the Engineer to schedule a final inspection.

1 The Engineer will set a date for final inspection. The Engineer and the Contractor will then
2 make a final inspection and the Engineer will notify the Contractor in writing of all particulars
3 in which the final inspection reveals the work incomplete or unacceptable. The Contractor
4 shall immediately take such corrective measures as are necessary to remedy the listed
5 deficiencies. Corrective work shall be pursued vigorously, diligently, and without interruption
6 until physical completion of the listed deficiencies. This process will continue until the
7 Engineer is satisfied the listed deficiencies have been corrected.

8
9 If action to correct the listed deficiencies is not initiated within 7 days after receipt of the
10 written notice listing the deficiencies, the Engineer may, upon written notice to the
11 Contractor, take whatever steps are necessary to correct those deficiencies pursuant to
12 Section 1-05.7.

13 The Contractor will not be allowed an extension of contract time because of a delay in the
14 performance of the work attributable to the exercise of the Engineer's right hereunder.

15
16 Upon correction of all deficiencies, the Engineer will notify the Contractor and the
17 Contracting Agency, in writing, of the date upon which the work was considered physically
18 complete. That date shall constitute the Physical Completion Date of the contract, but shall
19 not imply acceptance of the work or that all the obligations of the Contractor under the
20 contract have been fulfilled.

21 **1-05.11(3) Operational Testing**

22
23
24 It is the intent of the Contracting Agency to have at the Physical Completion Date a
25 complete and operable system. Therefore when the work involves the installation of
26 machinery or other mechanical equipment; street lighting, electrical distribution or signal
27 systems; irrigation systems; buildings; or other similar work it may be desirable for the
28 Engineer to have the Contractor operate and test the work for a period of time after final
29 inspection but prior to the physical completion date. Whenever items of work are listed in the
30 Contract Provisions for operational testing they shall be fully tested under operating
31 conditions for the time period specified to ensure their acceptability prior to the Physical
32 Completion Date. During and following the test period, the Contractor shall correct any items
33 of workmanship, materials, or equipment which prove faulty, or that are not in first class
34 operating condition. Equipment, electrical controls, meters, or other devices and equipment
35 to be tested during this period shall be tested under the observation of the Engineer, so that
36 the Engineer may determine their suitability for the purpose for which they were installed.
37 The Physical Completion Date cannot be established until testing and corrections have been
38 completed to the satisfaction of the Engineer.

39
40 The costs for power, gas, labor, material, supplies, and everything else needed to
41 successfully complete operational testing, shall be included in the unit contract prices
42 related to the system being tested, unless specifically set forth otherwise in the proposal.

43
44 Operational and test periods, when required by the Engineer, shall not affect a
45 manufacturer's guaranties or warranties furnished under the terms of the contract.
46
47

1 Add the following new section:
2

3 **1-05.12(1) One-Year Guarantee Period**
4 *(March 8, 2013 APWA GSP)*
5

6 The Contractor shall return to the project and repair or replace all defects in
7 workmanship and material discovered within one year after Final Acceptance of the
8 Work. The Contractor shall start work to remedy any such defects within 7 calendar
9 days of receiving Contracting Agency's written notice of a defect, and shall complete
10 such work within the time stated in the Contracting Agency's notice. In case of an
11 emergency, where damage may result from delay or where loss of services may result,
12 such corrections may be made by the Contracting Agency's own forces or another
13 contractor, in which case the cost of corrections shall be paid by the Contractor. In the
14 event the Contractor does not accomplish corrections within the time specified, the work
15 will be otherwise accomplished and the cost of same shall be paid by the Contractor.
16

17 When corrections of defects are made, the Contractor shall then be responsible for
18 correcting all defects in workmanship and materials in the corrected work for one year
19 after acceptance of the corrections by Contracting Agency.
20

21 This guarantee is supplemental to and does not limit or affect the requirements that the
22 Contractor's work comply with the requirements of the Contract or any other legal rights
23 or remedies of the Contracting Agency.
24

25 **1-05.13 Superintendents, Labor and Equipment of Contractor**
26 *(August 14, 2013 APWA GSP)*
27

28 Delete the sixth and seventh paragraphs of this section.
29

30 Add the following new section:
31

32 **1-05.16 Water and Power**
33 *(October 1, 2005 APWA GSP)*
34

35 The Contractor shall make necessary arrangements, and shall bear the costs for power and
36 water necessary for the performance of the work, unless the contract includes power and
37 water as a pay item.
38

39 **1-06.6 Recycled Materials**
40 *(January 4, 2016 APWA GSP)*
41

42 Delete this section, including its subsections, and replace it with the following:
43

44 The Contractor shall make their best effort to utilize recycled materials in the construction of
45 the project. Approval of such material use shall be as detailed elsewhere in the Standard
46 Specifications.
47

1 Prior to Physical Completion the Contractor shall report the quantity of recycled materials
2 that were utilized in the construction of the project for each of the items listed in Section 9-
3 03.21. The report shall include hot mix asphalt, recycled concrete aggregate, recycled
4 glass, steel furnace slag and other recycled materials (e.g. utilization of on-site material and
5 aggregates from concrete returned to the supplier). The Contractor's report shall be
6 provided on DOT form 350-075 Recycled Materials Reporting.
7

8 **1-07.1 Laws to be Observed**
9 *(October 1, 2005 APWA GSP)*

10 Supplement this section with the following:

11
12 In cases of conflict between different safety regulations, the more stringent regulation shall
13 apply.
14

15
16 The Washington State Department of Labor and Industries shall be the sole and paramount
17 administrative agency responsible for the administration of the provisions of the Washington
18 Industrial Safety and Health Act of 1973 (WISHA).
19

20 The Contractor shall maintain at the project site office, or other well known place at the
21 project site, all articles necessary for providing first aid to the injured. The Contractor shall
22 establish, publish, and make known to all employees, procedures for ensuring immediate
23 removal to a hospital, or doctor's care, persons, including employees, who may have been
24 injured on the project site. Employees should not be permitted to work on the project site
25 before the Contractor has established and made known procedures for removal of injured
26 persons to a hospital or a doctor's care.
27

28 The Contractor shall have sole responsibility for the safety, efficiency, and adequacy of the
29 Contractor's plant, appliances, and methods, and for any damage or injury resulting from
30 their failure, or improper maintenance, use, or operation. The Contractor shall be solely and
31 completely responsible for the conditions of the project site, including safety for all persons
32 and property in the performance of the work. This requirement shall apply continuously, and
33 not be limited to normal working hours. The required or implied duty of the Engineer to
34 conduct construction review of the Contractor's performance does not, and shall not, be
35 intended to include review and adequacy of the Contractor's safety measures in, on, or near
36 the project site.
37

38
39 **1-07.2 State Taxes**

40
41 Delete this section, including its sub-sections, in its entirety and replace it with the following:
42

43 **1-07.2 State Sales Tax**
44 *(June 27, 2011 APWA GSP)*
45

46 The Washington State Department of Revenue has issued special rules on the State sales
47 tax. Sections 1-07.2(1) through 1-07.2(3) are meant to clarify those rules. The Contractor
48 should contact the Washington State Department of Revenue for answers to questions in
49 this area. The Contracting Agency will not adjust its payment if the Contractor bases a bid
50 on a misunderstood tax liability.
51

1 The Contractor shall include all Contractor-paid taxes in the unit bid prices or other contract
2 amounts. In some cases, however, state retail sales tax will not be included. Section 1-
3 07.2(2) describes this exception.
4

5 The Contracting Agency will pay the retained percentage (or release the Contract Bond if a
6 FHWA-funded Project) only if the Contractor has obtained from the Washington State
7 Department of Revenue a certificate showing that all contract-related taxes have been paid
8 (RCW 60.28.051). The Contracting Agency may deduct from its payments to the Contractor
9 any amount the Contractor may owe the Washington State Department of Revenue,
10 whether the amount owed relates to this contract or not. Any amount so deducted will be
11 paid into the proper State fund.
12

13 **1-07.2(1) State Sales Tax — Rule 171**

14
15 WAC 458-20-171, and its related rules, apply to building, repairing, or improving streets,
16 roads, etc., which are owned by a municipal corporation, or political subdivision of the state,
17 or by the United States, and which are used primarily for foot or vehicular traffic. This
18 includes storm or combined sewer systems within and included as a part of the street or
19 road drainage system and power lines when such are part of the roadway lighting system.
20 For work performed in such cases, the Contractor shall include Washington State Retail
21 Sales Taxes in the various unit bid item prices, or other contract amounts, including those
22 that the Contractor pays on the purchase of the materials, equipment, or supplies used or
23 consumed in doing the work.
24

25 **1-07.2(2) State Sales Tax — Rule 170**

26
27 WAC 458-20-170, and its related rules, apply to the constructing and repairing of new or
28 existing buildings, or other structures, upon real property. This includes, but is not limited to,
29 the construction of streets, roads, highways, etc., owned by the state of Washington; water
30 mains and their appurtenances; sanitary sewers and sewage disposal systems unless such
31 sewers and disposal systems are within, and a part of, a street or road drainage system;
32 telephone, telegraph, electrical power distribution lines, or other conduits or lines in or above
33 streets or roads, unless such power lines become a part of a street or road lighting system;
34 and installing or attaching of any article of tangible personal property in or to real property,
35 whether or not such personal property becomes a part of the realty by virtue of installation.
36

37 For work performed in such cases, the Contractor shall collect from the Contracting Agency,
38 retail sales tax on the full contract price. The Contracting Agency will automatically add this
39 sales tax to each payment to the Contractor. For this reason, the Contractor shall not
40 include the retail sales tax in the unit bid item prices, or in any other contract amount subject
41 to Rule 170, with the following exception.
42

43 Exception: The Contracting Agency will not add in sales tax for a payment the Contractor or
44 a subcontractor makes on the purchase or rental of tools, machinery, equipment, or
45 consumable supplies not integrated into the project. Such sales taxes shall be included in
46 the unit bid item prices or in any other contract amount.
47

1 **1-07.2(3) Services**

2
3 The Contractor shall not collect retail sales tax from the Contracting Agency on any contract
4 wholly for professional or other services (as defined in Washington State Department of
5 Revenue Rules 138 and 244).
6

7 **1-07.17 Utilities and Similar Facilities**

8 *(February 7, 2017 MV GSP)*
9

10 This section is supplemented with the following:

11
12 Locations and dimensions shown in the Plans for existing facilities are in accordance
13 with available information obtained without uncovering, measuring, or other verification.
14 The following addresses and telephone numbers of utility companies known or
15 suspected of having facilities within the project limits are supplied for the Contractor's
16 convenience:
17
18

Puget Sound Energy	Mike Schroyer (360) 766-5464 michael.schroyer@pse.com
Potelco	Troy Linderman (360) 630-7894 troy.linderman@pse.com
Intolight	Bryan Waters (425) 456-2558 bryan.Waters@pse.com
Frontier Communications	Larry Bogues (360) 395-8430 lawrence.bogues@ftr.com
Cascade Natural Gas	Ted McCammant (360) 733-5986 ted.mccammant@cngc.com
Comcast	Bill Inama (360) 929-2424 bill_inama@cable.comcast.com
Skagit County PUD	Mike Demers (360) 424-7104 demers@skagitpud.org
Wave Broadband	Barry Patton (206) 786-6189 bpatton@wavebroadband.com cc: noc@wavebroadband.com

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1-07.18 Public Liability and Property Damage Insurance

Delete this section in its entirety, and replace it with the following:

1-07.18 Insurance
(January 4, 2016 APWA GSP)

1-07.18(1) General Requirements

- A. The Contractor shall procure and maintain the insurance described in all subsections of section 1-07.18 of these Special Provisions, from insurers with a current A. M. Best rating of not less than A-: VII and licensed to do business in the State of Washington. The Contracting Agency reserves the right to approve or reject the insurance provided, based on the insurer's financial condition.
- B. The Contractor shall keep this insurance in force without interruption from the commencement of the Contractor's Work through the term of the Contract and for thirty (30) days after the Physical Completion date, unless otherwise indicated below.
- C. If any insurance policy is written on a claims made form, its retroactive date, and that of all subsequent renewals, shall be no later than the effective date of this Contract. The policy shall state that coverage is claims made, and state the retroactive date. Claims-made form coverage shall be maintained by the Contractor for a minimum of 36 months following the Completion Date or earlier termination of this Contract, and the Contractor shall annually provide the Contracting Agency with proof of renewal. If renewal of the claims made form of coverage becomes unavailable, or economically prohibitive, the Contractor shall purchase an extended reporting period ("tail") or execute another form of guarantee acceptable to the Contracting Agency to assure financial responsibility for liability for services performed.
- D. The Contractor's Automobile Liability, Commercial General Liability and Excess or Umbrella Liability insurance policies shall be primary and non-contributory insurance as respects the Contracting Agency's insurance, self-insurance, or self-insured pool coverage. Any insurance, self-insurance, or self-insured pool coverage maintained by the Contracting Agency shall be excess of the Contractor's insurance and shall not contribute with it.
- E. The Contractor shall provide the Contracting Agency and all additional insureds with written notice of any policy cancellation, within two business days of their receipt of such notice.
- F. The Contractor shall not begin work under the Contract until the required insurance has been obtained and approved by the Contracting Agency
- G. Failure on the part of the Contractor to maintain the insurance as required shall constitute a material breach of contract, upon which the Contracting Agency may, after giving five business days' notice to the Contractor to correct the breach, immediately terminate the Contract or, at its discretion, procure or renew such insurance and pay any and all premiums in connection therewith, with any sums so expended to be repaid to the Contracting Agency

1 on demand, or at the sole discretion of the Contracting Agency, offset against funds due the
2 Contractor from the Contracting Agency.

3
4 H. All costs for insurance shall be incidental to and included in the unit or lump sum prices of
5 the Contract and no additional payment will be made.

6
7 **1-07.18(2) Additional Insured**

8 All insurance policies, with the exception of Workers Compensation, and of Professional Liability
9 and Builder's Risk (if required by this Contract) shall name the following listed entities as
10 additional insured(s) using the forms or endorsements required herein:

- 11 ▪ the Contracting Agency and its officers, elected officials, employees, agents, and
12 volunteers

13 The above-listed entities shall be additional insured(s) for the full available limits of liability
14 maintained by the Contractor, irrespective of whether such limits maintained by the Contractor
15 are greater than those required by this Contract, and irrespective of whether the Certificate of
16 Insurance provided by the Contractor pursuant to 1-07.18(4) describes limits lower than those
17 maintained by the Contractor.

18
19 For Commercial General Liability insurance coverage, the required additional insured
20 endorsements shall be at least as broad as ISO forms CG 20 10 10 01 for ongoing operations
21 and CG 20 37 10 01 for completed operations.

22
23 **1-07.18(3) Subcontractors**

24 The Contractor shall cause each Subcontractor of every tier to provide insurance coverage that
25 complies with all applicable requirements of the Contractor-provided insurance as set forth
26 herein, except the Contractor shall have sole responsibility for determining the limits of coverage
27 required to be obtained by Subcontractors.

28
29 The Contractor shall ensure that all Subcontractors of every tier add all entities listed in
30 1-07.18(2) as additional insureds, and provide proof of such on the policies as required by that
31 section as detailed in 1-07.18(2) using an endorsement as least as broad as ISO CG 20 10 10
32 01 for ongoing operations and CG 20 37 10 01 for completed operations.

33
34 Upon request by the Contracting Agency, the Contractor shall forward to the Contracting
35 Agency evidence of insurance and copies of the additional insured endorsements of each
36 Subcontractor of every tier as required in 1-07.18(4) Verification of Coverage.

37
38 **1-07.18(4) Verification of Coverage**

39 The Contractor shall deliver to the Contracting Agency a Certificate(s) of Insurance and
40 endorsements for each policy of insurance meeting the requirements set forth herein when the
41 Contractor delivers the signed Contract for the work. Failure of Contracting Agency to demand
42 such verification of coverage with these insurance requirements or failure of Contracting Agency
43 to identify a deficiency from the insurance documentation provided shall not be construed as a
44 waiver of Contractor's obligation to maintain such insurance.

45
46 Verification of coverage shall include:

- 47 1. An ACORD certificate or a form determined by the Contracting Agency to be equivalent.
- 48 2. Copies of all endorsements naming Contracting Agency and all other entities listed in
49 1-07.18(2) as additional insured(s), showing the policy number. The Contractor may submit

- 1 a copy of any blanket additional insured clause from its policies instead of a separate
 2 endorsement.
- 3 3. Any other amendatory endorsements to show the coverage required herein.
- 4 4. A notation of coverage enhancements on the Certificate of Insurance shall not satisfy these
 5 requirements – actual endorsements must be submitted.

6
 7 Upon request by the Contracting Agency, the Contractor shall forward to the Contracting
 8 Agency a full and certified copy of the insurance policy(s). If Builders Risk insurance is required
 9 on this Project, a full and certified copy of that policy is required when the Contractor delivers
 10 the signed Contract for the work.

11
 12 **1-07.18(5) Coverages and Limits**

13 The insurance shall provide the minimum coverages and limits set forth below. Contractor’s
 14 maintenance of insurance, its scope of coverage, and limits as required herein shall not be
 15 construed to limit the liability of the Contractor to the coverage provided by such insurance, or
 16 otherwise limit the Contracting Agency’s recourse to any remedy available at law or in equity.

17
 18 All deductibles and self-insured retentions must be disclosed and are subject to approval by the
 19 Contracting Agency. The cost of any claim payments falling within the deductible or self-insured
 20 retention shall be the responsibility of the Contractor. In the event an additional insured incurs a
 21 liability subject to any policy’s deductibles or self-insured retention, said deductibles or self-
 22 insured retention shall be the responsibility of the Contractor.

23
 24 **1-07.18(5)A Commercial General Liability**

25 Commercial General Liability insurance shall be written on coverage forms at least as broad as
 26 ISO occurrence form CG 00 01, including but not limited to liability arising from premises,
 27 operations, stop gap liability, independent contractors, products-completed operations, personal
 28 and advertising injury, and liability assumed under an insured contract. There shall be no
 29 exclusion for liability arising from explosion, collapse or underground property damage.

30
 31 The Commercial General Liability insurance shall be endorsed to provide a per project general
 32 aggregate limit, using ISO form CG 25 03 05 09 or an equivalent endorsement.

33
 34 Contractor shall maintain Commercial General Liability Insurance arising out of the Contractor’s
 35 completed operations for at least three years following Substantial Completion of the Work.

36
 37 Such policy must provide the following minimum limits:

38	\$1,000,000	Each Occurrence
39	\$2,000,000	General Aggregate
40	\$2,000,000	Products & Completed Operations Aggregate
41	\$1,000,000	Personal & Advertising Injury each offence
42	\$1,000,000	Stop Gap / Employers’ Liability each accident

43
 44 **1-07.18(5)B Automobile Liability**

45 Automobile Liability shall cover owned, non-owned, hired, and leased vehicles; and shall be
 46 written on a coverage form at least as broad as ISO form CA 00 01. If the work involves the
 47 transport of pollutants, the automobile liability policy shall include MCS 90 and CA 99 48
 48 endorsements.

1 Such policy must provide the following minimum limit:
2 \$1,000,000 Combined single limit each accident

3
4 **1-07.18(5)C Workers' Compensation**

5 The Contractor shall comply with Workers' Compensation coverage as required by the Industrial
6 Insurance laws of the State of Washington.

7
8 **1-07.24 Rights of Way**
9 *(July 23, 2015 APWA GSP)*

10
11 Delete this section and replace it with the following:

12
13 Street Right of Way lines, limits of easements, and limits of construction permits are
14 indicated in the Plans. The Contractor's construction activities shall be confined within these
15 limits, unless arrangements for use of private property are made.

16
17 Generally, the Contracting Agency will have obtained, prior to bid opening, all rights of way
18 and easements, both permanent and temporary, necessary for carrying out the work.
19 Exceptions to this are noted in the Bid Documents or will be brought to the Contractor's
20 attention by a duly issued Addendum.

21
22 Whenever any of the work is accomplished on or through property other than public Right of
23 Way, the Contractor shall meet and fulfill all covenants and stipulations of any easement
24 agreement obtained by the Contracting Agency from the owner of the private property.
25 Copies of the easement agreements may be included in the Contract Provisions or made
26 available to the Contractor as soon as practical after they have been obtained by the
27 Engineer.

28
29 Whenever easements or rights of entry have not been acquired prior to advertising, these
30 areas are so noted in the Plans. The Contractor shall not proceed with any portion of the
31 work in areas where right of way, easements or rights of entry have not been acquired until
32 the Engineer certifies to the Contractor that the right of way or easement is available or that
33 the right of entry has been received. If the Contractor is delayed due to acts of omission on
34 the part of the Contracting Agency in obtaining easements, rights of entry or right of way, the
35 Contractor will be entitled to an extension of time. The Contractor agrees that such delay
36 shall not be a breach of contract.

37
38 Each property owner shall be given 48 hours notice prior to entry by the Contractor. This
39 includes entry onto easements and private property where private improvements must be
40 adjusted.

41
42 The Contractor shall be responsible for providing, without expense or liability to the
43 Contracting Agency, any additional land and access thereto that the Contractor may desire
44 for temporary construction facilities, storage of materials, or other Contractor needs.
45 However, before using any private property, whether adjoining the work or not, the
46 Contractor shall file with the Engineer a written permission of the private property owner,
47 and, upon vacating the premises, a written release from the property owner of each property
48 disturbed or otherwise interfered with by reasons of construction pursued under this
49 contract. The statement shall be signed by the private property owner, or proper authority
50 acting for the owner of the private property affected, stating that permission has been
51 granted to use the property and all necessary permits have been obtained or, in the case of

1 a release, that the restoration of the property has been satisfactorily accomplished. The
2 statement shall include the parcel number, address, and date of signature. Written releases
3 must be filed with the Engineer before the Completion Date will be established.
4

5 **1-08 PROSECUTION AND PROGRESS**

6
7 Add the following new section:
8

9 **1-08.0 Preliminary Matters** 10 (May 25, 2006 APWA GSP)

11
12 Add the following new section:
13

14 **1-08.0(1) Preconstruction Conference** 15 (October 10, 2008 APWA GSP)

16
17 Prior to the Contractor beginning the work, a preconstruction conference will be held
18 between the Contractor, the Engineer and such other interested parties as may be invited.
19 The purpose of the preconstruction conference will be:

- 20 1. To review the initial progress schedule;
- 21 2. To establish a working understanding among the various parties associated or affected
22 by the work;
- 23 3. To establish and review procedures for progress payment, notifications, approvals,
24 submittals, etc.;
- 25 4. To establish normal working hours for the work;
- 26 5. To review safety standards and traffic control; and
- 27 6. To discuss such other related items as may be pertinent to the work.

28
29 The Contractor shall prepare and submit at the preconstruction conference the following:

- 30 1. A breakdown of all lump sum items;
- 31 2. A preliminary schedule of working drawing submittals; and
- 32 3. A list of material sources for approval if applicable.

33
34 Add the following new section:
35

36 **1-08.0(2) Hours of Work** 37 (December 8, 2014 APWA GSP)

38
39 Except in the case of emergency or unless otherwise approved by the Engineer, the normal
40 working hours for the Contract shall be any consecutive 8-hour period between 7:00 a.m.
41 and 6:00 p.m. Monday through Friday, exclusive of a lunch break. If the Contractor desires
42 different than the normal working hours stated above, the request must be submitted in
43 writing prior to the preconstruction conference, subject to the provisions below. The working
44 hours for the Contract shall be established at or prior to the preconstruction conference.
45

1 All working hours and days are also subject to local permit and ordinance conditions (such
2 as noise ordinances).

3
4 If the Contractor wishes to deviate from the established working hours, the Contractor shall
5 submit a written request to the Engineer for consideration. This request shall state what
6 hours are being requested, and why. Requests shall be submitted for review no later than 2
7 business days prior to the day(s) the Contractor is requesting to change the hours.

8
9 If the Contracting Agency approves such a deviation, such approval may be subject to
10 certain other conditions, which will be detailed in writing. For example:

- 11 1. On non-Federal aid projects, requiring the Contractor to reimburse the Contracting
12 Agency for the costs in excess of straight-time costs for Contracting Agency
13 representatives who worked during such times. (The Engineer may require
14 designated representatives to be present during the work. Representatives who may
15 be deemed necessary by the Engineer include, but are not limited to: survey crews;
16 personnel from the Contracting Agency's material testing lab; inspectors; and other
17 Contracting Agency employees or third party consultants when, in the opinion of the
18 Engineer, such work necessitates their presence.)
- 19 2. Considering the work performed on Saturdays, Sundays, and holidays as working
20 days with regard to the contract time.
- 21 3. Considering multiple work shifts as multiple working days with respect to contract
22 time even though the multiple shifts occur in a single 24-hour period.
- 23 4. If a 4-10 work schedule is requested and approved the non working day for the week
24 will be charged as a working day.
- 25 5. If Davis Bacon wage rates apply to this Contract, all requirements must be met and
26 recorded properly on certified payroll
27

28 **1-08.0(2) Hours of Work**

29 *(April 23, 2018 MV GSP)*

30
31 This section is supplemented with the following:

32
33 If the Contracting Agency has approved a deviation in the working hours, the Contractor
34 shall, at the City's request, provide written notice (to be provided by the City) by mail or
35 door hanger to the abutting property owners no less than 48 hours prior to performing
36 the work.
37

38 **1-08.1 Subcontracting**

39 *(February 16, 2018 APWA GSP)*

40
41
42 The eighth and ninth paragraphs are revised to read:

43
44 On all projects, the Contractor shall certify to the actual amount received from the Contracting
45 Agency and amounts paid to all firms that were used as Subcontractors, lower tier
46 subcontractors, manufacturers, regular dealers, or service providers on the Contract. This
47 includes all Disadvantaged, Minority, Small, Veteran or Women's Business Enterprise firms.
48 This Certification shall be submitted to the Engineer on a monthly basis each month between

1 Execution of the Contract and Physical Completion of the Contract using the application
2 available at: <https://wsdot.diversitycompliance.com>. A monthly report shall be submitted for
3 every month between Execution of the Contract and Physical Completion regardless of whether
4 payments were made or work occurred.

5
6 The Contractor shall comply with the requirements of RCW 39.04.250, 39.76.011, 39.76.020,
7 and 39.76.040, in particular regarding prompt payment to Subcontractors. Whenever the
8 Contractor withholds payment to a Subcontractor for any reason including disputed amounts,
9 the Contractor shall provide notice within 10 calendar days to the Subcontractor with a copy to
10 the Contracting Agency identifying the reason for the withholding and a clear description of what
11 the Subcontractor must do to have the withholding released. Retainage withheld by the
12 Contractor prior to completion of the Subcontractors work is exempt from reporting as a
13 payment withheld and is not included in the withheld amount. The Contracting Agency's copy of
14 the notice to Subcontractor for deferred payments shall be submitted to the Engineer
15 concurrently with notification to the Subcontractor.

16
17
18 **1-08.3(2)A Type A Progress Schedule**
19 *(March 13, 2012 APWA GSP)*

20
21 Revise this section to read:

22
23 The Contractor shall submit 1 copies of a Type A Progress Schedule no later than at the
24 preconstruction conference, or some other mutually agreed upon submittal time. The
25 schedule may be a critical path method (CPM) schedule, bar chart, or other standard
26 schedule format. Regardless of which format used, the schedule shall identify the critical
27 path. The Engineer will evaluate the Type A Progress Schedule and approve or return the
28 schedule for corrections within 15 calendar days of receiving the submittal.

29
30 **1-08.4 Prosecution of Work**

31
32 Delete this section and replace it with the following:

33
34 **1-08.4 Notice to Proceed and Prosecution of Work**
35 *(July 23, 2015 APWA GSP)*

36
37 Notice to Proceed will be given after the contract has been executed and the contract bond
38 and evidence of insurance have been approved and filed by the Contracting Agency. The
39 Contractor shall not commence with the work until the Notice to Proceed has been given by
40 the Engineer. The Contractor shall commence construction activities on the project site
41 within ten days of the Notice to Proceed Date, unless otherwise approved in writing. The
42 Contractor shall diligently pursue the work to the physical completion date within the time
43 specified in the contract. Voluntary shutdown or slowing of operations by the Contractor
44 shall not relieve the Contractor of the responsibility to complete the work within the time(s)
45 specified in the contract.

46
47 When shown in the Plans, the first order of work shall be the installation of high visibility
48 fencing to delineate all areas for protection or restoration, as described in the Contract.
49 Installation of high visibility fencing adjacent to the roadway shall occur after the placement
50 of all necessary signs and traffic control devices in accordance with 1-10.1(2). Upon

1 construction of the fencing, the Contractor shall request the Engineer to inspect the fence.
2 No other work shall be performed on the site until the Contracting Agency has accepted the
3 installation of high visibility fencing, as described in the Contract.
4

5 **1-08.5 Time for Completion**
6 *(April 24, 2018 MV GSP)*
7

8 Revise the third and fourth paragraphs to read:
9

10 Contract time shall begin on the day specified in the Notice to Proceed. Work shall be
11 completed within 60 calendar days, and shall be completed prior to October 1, 2018.
12

13 Each working day shall be charged to the contract as it occurs, until the contract work is
14 physically complete. If substantial completion has been granted and all the authorized
15 working days have been used, charging of working days will cease.
16

17 Revise the sixth paragraph to read:
18

19 The Engineer will give the Contractor written notice of the completion date of the contract
20 after all the Contractor's obligations under the contract have been performed by the
21 Contractor. The following events must occur before the Completion Date can be
22 established:

- 23 1. The physical work on the project must be complete; and
 - 24 2. The Contractor must furnish all documentation required by the contract and required by
25 law, to allow the Contracting Agency to process final acceptance of the contract. The
26 following documents must be received by the Project Engineer prior to establishing a
27 completion date:
 - 28 a. Certified Payrolls if requested (per Section 1-07.9(5)).
 - 29 b. Material Acceptance Certification Documents
 - 30 c. Quarterly Reports of Amounts Credited as DBE Participation, as required by the
31 Contract Provisions.
 - 32 d. Final Contract Voucher Certification
 - 33 e. Copies of the approved "Affidavit of Prevailing Wages Paid" for the Contractor and all
34 Subcontractors
 - 35 f. Property owner releases per Section 1-07.24
- 36

37 **1-08.9 Liquidated Damages**
38 *(August 14, 2013 APWA GSP)*
39

40 Revise the fourth paragraph to read:
41

42 When the Contract Work has progressed to Substantial Completion as defined in the
43 Contract, the Engineer may determine that the work is Substantially Complete. The
44 Engineer will notify the Contractor in writing of the Substantial Completion Date. For
45 overruns in Contract time occurring after the date so established, the formula for liquidated
46 damages shown above will not apply. For overruns in Contract time occurring after the
47 Substantial Completion Date, liquidated damages shall be assessed on the basis of direct
48 engineering and related costs assignable to the project until the actual Physical Completion
49 Date of all the Contract Work. The Contractor shall complete the remaining Work as

1 promptly as possible. Upon request by the Project Engineer, the Contractor shall furnish a
2 written schedule for completing the physical Work on the Contract.

3
4 **1-09.9 Payments**

5 *(March 13, 2012 APWA GSP)*
6

7 Delete the first four paragraphs and replace them with the following:
8

9 The basis of payment will be the actual quantities of Work performed according to the
10 Contract and as specified for payment.
11

12 The Contractor shall submit a breakdown of the cost of lump sum bid items at the
13 Preconstruction Conference, to enable the Project Engineer to determine the Work
14 performed on a monthly basis. A breakdown is not required for lump sum items that include
15 a basis for incremental payments as part of the respective Specification. Absent a lump
16 sum breakdown, the Project Engineer will make a determination based on information
17 available. The Project Engineer's determination of the cost of work shall be final.
18

19 Progress payments for completed work and material on hand will be based upon progress
20 estimates prepared by the Engineer. A progress estimate cutoff date will be established at
21 the preconstruction conference.
22

23 The initial progress estimate will be made not later than 30 days after the Contractor
24 commences the work, and successive progress estimates will be made every month
25 thereafter until the Completion Date. Progress estimates made during progress of the work
26 are tentative, and made only for the purpose of determining progress payments. The
27 progress estimates are subject to change at any time prior to the calculation of the final
28 payment.
29

30 The value of the progress estimate will be the sum of the following:

- 31 1. Unit Price Items in the Bid Form — the approximate quantity of acceptable units of
32 work completed multiplied by the unit price.
- 33 2. Lump Sum Items in the Bid Form — based on the approved Contractor's lump sum
34 breakdown for that item, or absent such a breakdown, based on the Engineer's
35 determination.
- 36 3. Materials on Hand — 100 percent of invoiced cost of material delivered to Job site or
37 other storage area approved by the Engineer.
- 38 4. Change Orders — entitlement for approved extra cost or completed extra work as
39 determined by the Engineer.
40

41 Progress payments will be made in accordance with the progress estimate less:

- 42 1. Retainage per Section 1-09.9(1), on non FHWA-funded projects;
- 43 2. The amount of progress payments previously made; and
- 44 3. Funds withheld by the Contracting Agency for disbursement in accordance with the
45 Contract Documents.
46

1 Progress payments for work performed shall not be evidence of acceptable performance or
2 an admission by the Contracting Agency that any work has been satisfactorily completed.
3 The determination of payments under the contract will be final in accordance with Section
4 1-05.1.

5
6 **1-09.11(3) Time Limitation and Jurisdiction**

7 *(July 23, 2015 APWA GSP)*

8
9 Revise this section to read:

10
11 For the convenience of the parties to the Contract it is mutually agreed by the parties that
12 any claims or causes of action which the Contractor has against the Contracting Agency
13 arising from the Contract shall be brought within 180 calendar days from the date of final
14 acceptance (Section 1-05.12) of the Contract by the Contracting Agency; and it is further
15 agreed that any such claims or causes of action shall be brought only in the Superior Court
16 of the county where the Contracting Agency headquarters is located, provided that where
17 an action is asserted against a county, RCW 36.01.05 shall control venue and jurisdiction.
18 The parties understand and agree that the Contractor's failure to bring suit within the time
19 period provided, shall be a complete bar to any such claims or causes of action. It is further
20 mutually agreed by the parties that when any claims or causes of action which the
21 Contractor asserts against the Contracting Agency arising from the Contract are filed with
22 the Contracting Agency or initiated in court, the Contractor shall permit the Contracting
23 Agency to have timely access to any records deemed necessary by the Contracting Agency
24 to assist in evaluating the claims or action.

25
26 **1-09.13(3) Claims \$250,000 or Less**

27 *(October 1, 2005 APWA GSP)*

28
29 Delete this section and replace it with the following:

30
31 The Contractor and the Contracting Agency mutually agree that those claims that total
32 \$250,000 or less, submitted in accordance with Section 1-09.11 and not resolved by
33 nonbinding ADR processes, shall be resolved through litigation unless the parties mutually
34 agree in writing to resolve the claim through binding arbitration.

35
36 **1-09.13(3)A Administration of Arbitration**

37 *(July 23, 2015 APWA GSP)*

38
39 Revise the third paragraph to read:

40
41 The Contracting Agency and the Contractor mutually agree to be bound by the decision of
42 the arbitrator, and judgment upon the award rendered by the arbitrator may be entered in
43 the Superior Court of the county in which the Contracting Agency's headquarters is located,
44 provided that where claims subject to arbitration are asserted against a county, RCW
45 36.01.05 shall control venue and jurisdiction of the Superior Court. The decision of the
46 arbitrator and the specific basis for the decision shall be in writing. The arbitrator shall use
47 the Contract as a basis for decisions.
48

1 **Division 7**
2 **Drainage Structures, Storm Sewers, Sanitary**
3 **Sewers, Water Mains, and Conduits**
4

5 Add the following new section:
6

7 **7-20 Cured In Place Pipe (CIPP)**
8 *(June 28, 2018 MV GSP)*
9

10 **7-20.1 Description**

11 This work consists of the rehabilitation of stormwater and sanitary wastewater mainline
12 pipes, normally without excavation, using a CIPP lining system which includes the
13 installation of resin impregnated, flexible, non-woven felt tube installed into the existing
14 mainline, and utilizing a pressure apparatus positioned in the mainline pipe. The CIPP lining
15 system shall cure the resin into a hard impermeable CIPP pipe liner with a watertight
16 connection seal at the manhole and at each service lateral. The liner shall form a
17 continuous one piece structural pipe-within-a-pipe.
18
19

20 **7-20.2 Materials**
21

22 **7-20.2(1) Submittals**
23

24 The CONTRACTOR shall not install materials or equipment which require submittals until
25 reviewed by the ENGINEER. No liner shall be installed until the City has approved the
26 design calculations provided by the CONTRACTOR. Compensation for all work required for
27 the submittal of product data shall be considered incidental to the project.

28 The CONTRACTOR shall submit the following materials to the ENGINEER:

- 29 A. Manufacturer's product literature and application, installation and recommended
30 repair (patching) requirements for materials used in liner.
- 31 B. Manufacturer's product certification of conformance to ASTM Standards for materials
32 used in liner.
- 33 C. Example Manufacturer's Wet Out Report and the Manufacturer's recommended
34 curing procedure to be submitted with initial product data submittals, as well as
35 actual Manufacturer's Wet Out Report including raw resin data for each liner to be
36 installed and the Manufacturer's recommended curing procedure, temperature and
37 pressure.
- 38 D. Liner Pipe Thickness Design Calculations. The design calculations shall be in
39 accordance with Appendix X.I of ASTM F 1216. The liner thickness calculations shall
40 assume the following physical properties:
- 41 a. existing pipes of diameter equal to or less than 8 inches are "partially
42 deteriorated"; and
- 43 b. existing pipes of diameter greater than 8 inches are "fully deteriorated"; and
- 44 c. minimum ovality of host pipe is 5%; and enhancement factor (K) is 7.0.

- 1 E. Manufacturer's product literature, application and installation method used to seal
2 ends of liner. Manufacturer's product literature, application and installation method
3 used for lateral repair.
- 4 F. Any additional installation guidelines or manufacturers recommendations as
5 requested by ENGINEER.
- 6 G. Manufacturer's heating requirements.
- 7 H. Bypass pumping and/or diversion plans shall be submitted for review at least 10
8 working days prior to the work. The bypass pumping plan shall include an
9 emergency response plan to be followed in the event of a failure of the bypass
10 pumping system.

11

12 **7-20.2(2) Tube Materials**

13 The tube material shall meet the requirements of ASTM F 1216 and ASTM D5813, or better.
14 The tube shall consist of one or more layers of flexible needled felt or an equivalent
15 nonwoven or woven material, or a combination of nonwoven and woven materials, capable
16 of carrying resin, withstanding installation pressures and curing temperatures. The tube shall
17 be compatible with the resin system used.

18 The material shall be able to stretch to fit irregular pipe sections and negotiate bends. The
19 outside layer of the tube shall be plastic coated with a material that is compatible with the
20 resin system used. The tube shall be fabricated to a size that, when installed, will tightly fit
21 the internal circumference and the length of the original conduit. Allowance shall be made
22 for circumferential stretching during inversion.

23 Seams in the tube shall be stronger than the non-seamed material.

24 The wall color of the interior pipe surface of CIPP after installation shall be a light reflective
25 color so that a clear detailed examination with closed circuit television inspection equipment
26 may be made.

27

28 **7-20.2(3) Resin Materials**

29 The resin system shall meet the structural and chemical resistance requirements of ASTM F
30 1216 and/or ASTM F 1743, or better. A general purpose, unsaturated, styrene- based,
31 thermoset resin and catalyst system or an epoxy resin and hardener that is compatible with
32 the inversion process shall be used. The resin must be able to cure in the presence or
33 absence of water and the initiation temperature for cure shall be recommended by the resin
34 manufacturer and reviewed by the ENGINEER.

35

36

37 **7-20.3 Construction Requirements**

38

39 **7-20.3(1) Customer Notification**

40 The Contractor shall notify all sewer customers affected by the work between 48 and 72
41 hours prior to beginning work. Notification shall be by means of a written notice on a door
42 hanger, delivered to each customer door. The notice shall inform the customer of the date
43 when service will be interrupted, the beginning and expected duration of the interruption,
44 and advise the customer to minimize water usage during this period. The Contractor shall

1 ensure that every user is so notified. Notification shall include telephone number(s) for
2 contacting the Contractor at any time, day or night.

3 4 **7-20.3(2) Cleaning**

5 All sewer lines must be cleaned (and inspected by video) prior to lining. Material shall be
6 removed from the pipe at the downstream catch basin or manhole and not allowed to
7 continue downstream. When cleaning is complete, the pipe shall be free of all dirt, grease,
8 rocks, sand, and other debris and materials.

9 The CONTRACTOR must obtain permission from the Skagit County PUD and the City of
10 Mount Vernon Fire Dept. prior to fire hydrant use.

11 Sewer cleaning equipment shall be High-Velocity Jet (Hydro cleaning) Equipment. The
12 equipment and methods selected shall be satisfactory to the ENGINEER. The equipment
13 shall have a selection of two or more high-velocity nozzles. The nozzles shall be capable of
14 producing a scouring action from 15 to 45 degrees in all size lines designated to be cleaned.
15 Equipment shall also include a high-velocity gun for washing and scouring manhole walls
16 and floor. The gun shall be capable of producing flows from a fine spray to a solid stream.
17 The equipment shall carry its own water tank, auxiliary engines, pumps, and hydraulically
18 driven hose reel. The NASSCO Jetter Code of Practice shall be consulted as a guide for the
19 selection of different type nozzles and recommended pressure applications for various
20 cleaning requirements.

21 During sewer cleaning operations, satisfactory precautions shall be taken in the use of
22 cleaning equipment. When hydraulically propelled cleaning tools (which depend upon water
23 pressure to provide their cleaning force) or tools which retard the flow in the sewer line are
24 used, precautions shall be taken to insure that the water pressure created does not damage
25 or cause flooding of public or private property being served by the sewer.

26 All manhole entries shall follow OSHA confined space entry requirements. The
27 CONTRACTOR shall be solely responsible for all injuries and property damage resulting
28 from manhole entry.

29 30 31 **7-20.3(3) Inspection Documentation**

32 33 **7-20.3(3)A Video Inspection Required**

34 CONTRACTOR shall provide all test results and inspection documentation to the
35 ENGINEER for acceptance. All sewer lines shall be inspected by video camera and
36 documented in accordance with NAASCO Pipeline Assessment and Certification Program
37 (PACP) standards.

38 A pre-lining video inspection shall be performed following or during pre-lining cleaning.

39 A post-lining video inspection shall be performed after all work in the pipe has been
40 completed including reconnection and grouting of laterals.

41 CONTRACTOR shall provide to the City one pre-lining video inspection, and one post-lining
42 video inspection in a digital video file acceptable to the ENGINEER for each pipe run (from
43 manhole to manhole). The files shall be named in accordance with the requirements of this
44 section. Each inspection video shall provide a clear view free of obstructions and lens
45 obscuring damage or debris. Video recording shall start after the camera is placed into the
46 starting manhole and all initial measurements and adjustments have been made. Video

1 recording shall include the full length of the run and shall stop and provide details on each
2 lateral, defect, or anomaly. Video recording shall stop in the ending manhole, prior to pulling
3 the camera back out.
4

5 **7-20.3(3)B Video Camera Requirements**

6 CONTRACTOR shall use a video camera for the inspection that is specifically designed and
7 constructed for sewer inspection. The camera shall be 100% digital. Any analog or NTSC
8 video camera will be deemed unacceptable. Lighting for the camera shall be suitable to
9 allow a clear picture of the entire periphery of the pipe. The camera shall be operative in
10 100% humidity conditions. The camera, monitor, and other components of the video system
11 shall be capable of producing picture quality sufficient to determine condition of the pipes
12 being inspected. The camera used for television inspection shall be self-propelled, crawler-
13 type units having 360° pan and tilt capabilities. No hand winching units shall be allowed. The
14 camera shall be moved through the line in either direction at a moderate rate, stopping when
15 necessary to permit proper documentation of the sewer's condition. In no case will the
16 television camera travel at a speed greater than 30 feet per minute.
17

18 **7-20.3(3)C Minimum Reporting Requirements**

19 Each individual pipe run (manhole to manhole) shall be included in a single video file and
20 shall provide record of distances to within +/- 2 feet.

21 Inspection videos shall be in MPEG video format with a frame resolution of at least 640x480
22 pixels and a frame rate of at least 29 fps.

23 Screen text in the video shall be clearly displayed on a contrasting background (e.g., light
24 text on dark background or dark text on light background).

25 Inspection videos shall begin and end with the following screen text for approximately 15
26 seconds:

- 27 a. Beginning and ending manhole numbers
- 28 b. Pipe diameter
- 29 c. Pipe material
- 30 d. Name of project: "2016 Sewer Lining Project"
- 31 e. Location (street name)
- 32 f. Date and time of day
- 33 g. CONTRACTOR name
- 34 h. Operator's name
- 35 i. The running footage (distance travelled)

36 During video inspection, the screen text shall include the following and no other information,
37 and shall do so without obscuring the central view of the pipe being inspected:

- 38 a. Beginning and ending manhole or catchbasin numbers
- 39 b. The running footage (distance travelled)

40 Video files shall be named in accordance with the following file naming convention:

41 Pipe Serial Number - - Date time stamp in YYYYMMDDhhmm format

1 For example: a pre-lining video inspection of a pipe with a serial number of 12345, where
2 the inspection ended on December 1, 2016 at 2:31 P.M. would be named like this:

3 PRE - -12345 - - 201612011431.mpg

4 As an additional example: a post-lining video inspection of a pipe with a serial number of
5 67890, where the inspection ended on January 10, 2017 at 9:45 A.M. would be named like
6 this:

7 POST - - 67890 - - 201701100945.mpg

8 9 **7-20.3(4) Construction**

10 CIPP shall be installed in accordance with ASTM F 1216 for Heat Cure CIPP systems and
11 the manufacturer's recommendations.

12 13 **7-20.3(4)A Resin Impregnation**

14 A certified Wet Out Report shall be completed, signed, and submitted for each liner
15 delivered to the site. The Wet Out Report shall include, but is not limited to, wet-out date,
16 resin identification, resin weight, resin admixtures, fabric tube length, diameter, and
17 thickness.

18 The tube shall be vacuum-impregnated with resin (wet-out) under controlled conditions. The
19 volume of resin used shall be sufficient to fill all voids in the tube material at nominal
20 thickness and diameter. The volume shall be adjusted by adding 5% to 10% excess resin
21 volume compared to the volume of the felt to compensate for the change in resin volume
22 due to polymerization and to allow for any migration of resin into the cracks and joints in the
23 original pipe.

24 25 **7-20.3(4)B Tube Insertion**

26 The wet out tube shall be positioned in the pipeline using either inversion (ASTM F 1216) or
27 a pull-in method (ASTM F 1743), If pulled into place, a power winch shall be utilized and
28 care shall be exercised not to damage the tube as a result of pull-in friction. The tube shall
29 be pulled-in or inverted through an existing manhole or approved access point and fully
30 extend to the next designated manhole or termination point.

31 32 **7-20.3(4)C Curing**

33 Curing shall be accomplished by utilizing circulating heated water or steam under
34 hydrostatic pressure in accordance with ASTM F 1216 and the manufacturer's
35 recommended cure schedule.

36 37 **7-20.3(4)D Sealing Liner at Sewer Access Structures**

38 Seals shall be made with an epoxy or resin mixture compatible with the liner/resin system
39 and shall be performed as recommended by the manufacturer. Hydraulic cements and
40 quick-set cement products are not acceptable.

41 42 **7-20.3(5) Trim Protruding Lateral**

1 Contractor shall all protruding laterals as necessary to install CIPP liner in each run as
2 described in the project plans and specifications.
3

4 **7-20.3(6) Lateral Reconnection and Grouting**

5 CONTRACTOR shall be responsible for confirming the locations of all lateral connections
6 prior to installing and curing the CIPP. Unless otherwise directed by the ENGINEER, all
7 lateral connections shall be reinstated.

8 CONTRACTOR shall certify he has a minimum of two (2) complete working cutters plus
9 spare key components on the site before each inversion. The operator of the remote
10 controlled cutting device shall have at least 2 years' experience with such equipment.

11 CONTRACTOR shall fully reinstate all active lateral connections in each run, as soon as is
12 practical after lining the pipe. The lateral connections shall be reopened from inside the
13 sewer by means of a closed-circuit television camera controlled cutting device appropriate
14 for use on CIPP liners. All openings shall be clean and neatly cut and the bottom of the
15 opening shall be flush with the lateral pipe. The opening shall be buffed with a wire brush to
16 remove rough edges and provide a smooth finish. Service connections shall be
17 reestablished to a minimum of 95% of the flow capacity.

18 No additional payment will be made for excavations for the purpose of reopening lateral
19 connections. All costs and liabilities associated with such excavation and restoration work
20 shall be the responsibility of the CONTRACTOR.

21
22 Any service connection opened to greater than 100% of its original diameter shall have a
23 "Top Hat" system installed at CONTRACTOR's Expense. The liner materials shall meet or
24 exceed ASTM F2561 specifications and meet or exceed the lateral repair standards noted in
25 509.7(a).
26

27 **7-20.3(7) Testing**

28 CONTRACTOR shall periodically conduct sampling and testing of the cured product in
29 accordance with the manufacturer's recommendations for quality control purposes.
30 Documentation of such sampling and testing shall be provided to the ENGINEER upon
31 request. Also, upon request, CONTRACTOR shall provide ENGINEER with acceptable
32 samples to be submitted to an independent testing lab for confirmation at the OWNER's
33 expense.
34

35 **7-20.3(8) Acceptance**

36 The finished liner shall be continuous over the entire length of the installation and shall be
37 free of significant visual defects, damage, deflection, holes, leaks and other defects.

38 Infiltration of groundwater shall be grounds for rejection of work.

39 If the ENGINEER's review of the final video inspection identifies repairable defects in the
40 work, CONTRACTOR shall replace the defective run. CONTRACTOR may submit for
41 ENGINEER's consideration a manufacturer reviewed/approved repair plan as an alternative
42 to replacing the defective work. Any such repairs made by CONTRACTOR shall include an
43 extended warranty for one (1) additional year from the expiration of the Contract warranty.
44

45 The following repair methods for common defects are considered acceptable. Additional
46 defects may be identified, and will be handled on a case-by-case basis. In all cases,

1 acceptance shall be provided only after all required documentation has been received and
 2 reviewed by the ENGINEER:
 3

DEFECT	REPAIR	REJECTION CRITERIA
Wrinkles/ridges exceeding 5% of pipe diameter outside of 120-degree invert arc – OR – wrinkles/ridges exceeding 2% of pipe diameter inside of the 120-degree invert arc centered at the bottom of the pipe.	Grind to within required tolerance, coat ground area with manufacturer’s approved resin. Point repair may be required if minimum thickness is affected by repair.	The Engineer may reject the work if wrinkles or ridges exceed 10% of pipe diameter.
Holes, tears, soft spots, lifts, delamination, blisters/bubbles.	Point repairs under manufacturer’s approved recommendations.	If defective areas cover greater than 5% of the surface area the Engineer reserves the right to reject the work.
CIPP thickness less than calculated minimum thickness.	If the Engineer determines that the CIPP is acceptable, payment may be reduced by the percentage below the design minimum thickness. In some cases, a second CIPP within the first may be allowed.	If the actual thickness is less than 87.5% of the design minimum thickness, the Engineer reserves the right to reject the work.
Service reinstated to greater than 100% of original diameter.	System must be installed at the Contractor’s expense. The liner shall be LMK Technologies – Shorty T-Liner, or approved equal. The liner must extend at least 6 inches beyond both sides of a lateral opening and extend at least 36 inches into the lateral. A manufacturer approved adhesive shall be used to ensure a tight bond against the CIPP liner.	The Engineer reserves the right to reject any improperly installed lateral repairs.

4
 5
 6 **7-20.4 Measurement**
 7 The length of CIPP lining shall be the number of linear feet of completed installation
 8 measured from center to center of the beginning and ending manholes or catch basins or
 9 similar structures. Measurement shall be made by hard tape and shall be recorded on the
 10 most recent plan or map provided by the Engineer. Plan measurements shall be used
 11 unless CONTRACTOR provides accurate measurements in accordance with this section
 12 and records the measurements in the form provided on the plans.

13
 14 CONTRACTOR shall provide all quantities for payment in the form provided on each
 15 map/plan sheet.

16
 17 **7-20.5 Payment**
 18 Payment will be made for each of the following Bid items that are included in the Proposal:

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“CIPP - ____ In. Diam” per linear foot.
“Trim Protruding Lateral” per each.
“Lateral Reconnection and Grouting” per each.

The unit Contract price for “CIPP - ____ In. Diam” per linear foot of the kind and size specified shall be full compensation for all Work to provide and install a complete CIPP liner including cleaning, temporary plugging, bypass pumping, preparation, insertion, curing, and video inspection.

The unit Contract price for “Lateral Reconnection and Grouting” per each shall be full compensation for grouting and restoring service connections between the main and each active lateral or branch connection, and providing video inspection of the completed work.

**STANDARD PLANS,
PROJECT OVERVIEW MAP,
PROJECT LOCATION MAPS**



PIPE LENGTH (MANHOLE TO MANHOLE BY HARD TAPE):
LATERALS REOPENED:
LATERALS GROUTED:
PROTRUDING LATERALS TRIMMED:

CONSTRUCTION NOTES:

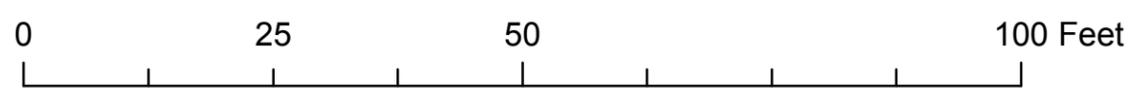
RESTORE 0 LATERALS.

TRIM 0 PROTRUDING LATERALS.

MATERIAL = CORRUGATED HDPE. PIPE DRAINS TO WETLAND. DRAIN END OF PIPE IS SUBMERGED.

ALL UTILITY INFORMATION IS APPROXIMATE. CONTRACTOR TO VERIFY AND NOTE DISCREPANCIES IN DIAMETER, LENGTH, AND LOCATION TO ENGINEER.

- Project Segment
- Sewer Pipes**
- Combined Sewer
- Sanitary Sewer
- Storm Sewer
- CB
- MH

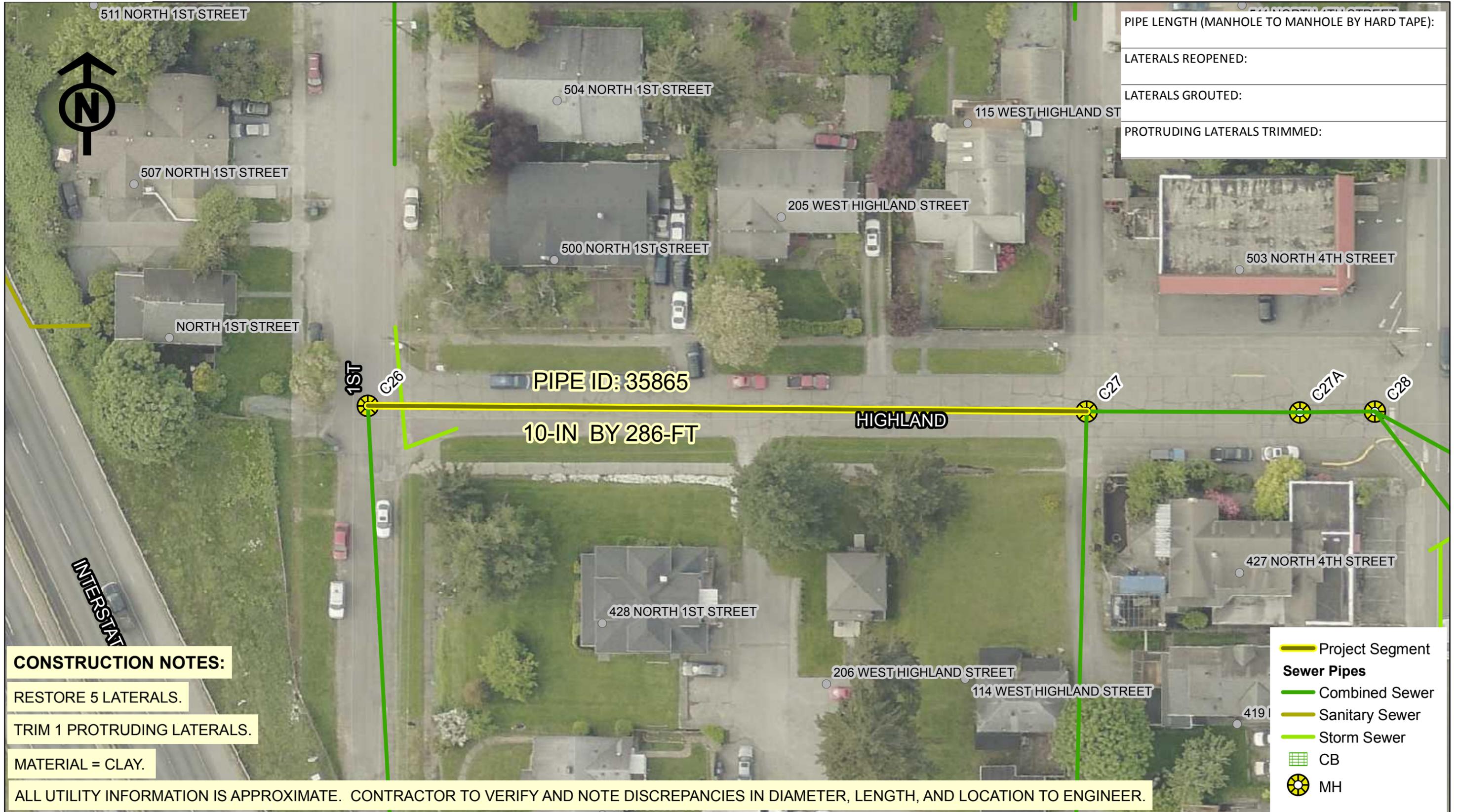


PipeID#: **21131**

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Project #SS-2018-003: 2018 Sewer Lining

(Note: This map set supercedes all previous versions)



PIPE LENGTH (MANHOLE TO MANHOLE BY HARD TAPE):
LATERALS REOPENED:
LATERALS GROUTED:
PROTRUDING LATERALS TRIMMED:

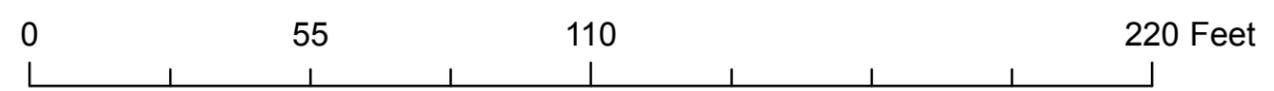
CONSTRUCTION NOTES:

- RESTORE 5 LATERALS.
- TRIM 1 PROTRUDING LATERALS.
- MATERIAL = CLAY.

ALL UTILITY INFORMATION IS APPROXIMATE. CONTRACTOR TO VERIFY AND NOTE DISCREPANCIES IN DIAMETER, LENGTH, AND LOCATION TO ENGINEER.

Legend

- Project Segment (Yellow line)
- Sewer Pipes
 - Combined Sewer (Green line)
 - Sanitary Sewer (Light Green line)
 - Storm Sewer (Lighter Green line)
- CB (Grid icon)
- MH (Yellow circle with black center icon)



PipeID#: **35865**

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Project #SS-2018-003: 2018 Sewer Lining

(Note: This map set supercedes all previous versions)



PipeID#: **35866**

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PIPE LENGTH (MANHOLE TO MANHOLE BY HARD TAPE):
LATERALS REOPENED:
LATERALS GROUTED:
PROTRUDING LATERALS TRIMMED:

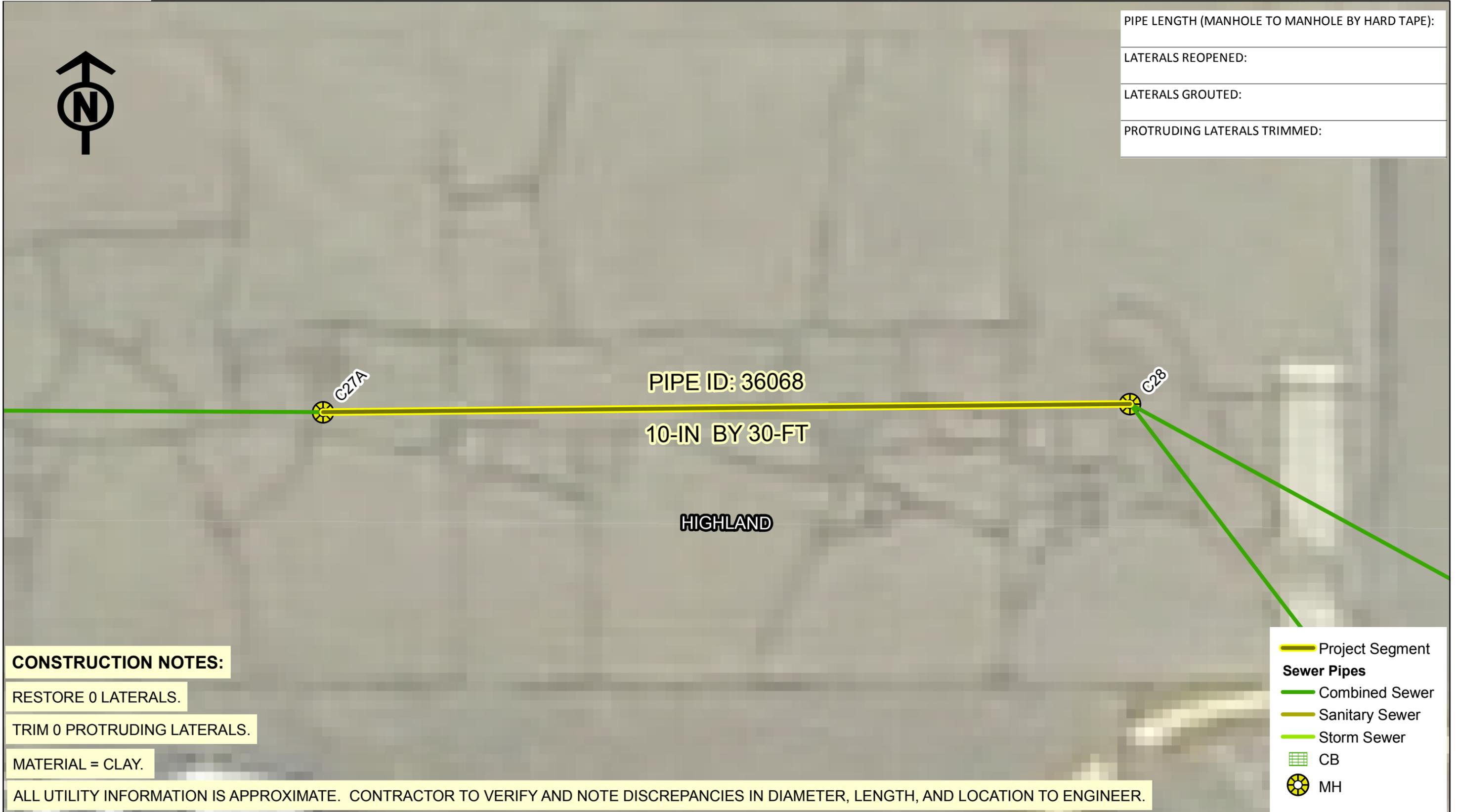


PipeID#: **35907**

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PIPE LENGTH (MANHOLE TO MANHOLE BY HARD TAPE):
LATERALS REOPENED:
LATERALS GROUTED:
PROTRUDING LATERALS TRIMMED:



CONSTRUCTION NOTES:

RESTORE 0 LATERALS.

TRIM 0 PROTRUDING LATERALS.

MATERIAL = CLAY.

ALL UTILITY INFORMATION IS APPROXIMATE. CONTRACTOR TO VERIFY AND NOTE DISCREPANCIES IN DIAMETER, LENGTH, AND LOCATION TO ENGINEER.

	Project Segment
Sewer Pipes	
	Combined Sewer
	Sanitary Sewer
	Storm Sewer
	CB
	MH



PipeID#: **36068**

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PipeID#: 35905

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PIPE LENGTH (MANHOLE TO MANHOLE BY HARD TAPE):
LATERALS REOPENED:
LATERALS GROUTED:
PROTRUDING LATERALS TRIMMED:

CONSTRUCTION NOTES:

RESTORE 2 LATERALS.

TRIM 0 PROTRUDING LATERALS.

MATERIAL = CLAY AND PVC.

ALL UTILITY INFORMATION IS APPROXIMATE. CONTRACTOR TO VERIFY AND NOTE DISCREPANCIES IN DIAMETER, LENGTH, AND LOCATION TO ENGINEER.

- Project Segment
- Sewer Pipes**
- Combined Sewer
- Sanitary Sewer
- Storm Sewer
- CB
- MH



PipeID#: **36113**

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PIPE LENGTH (MANHOLE TO MANHOLE BY HARD TAPE):
LATERALS REOPENED:
LATERALS GROUTED:
PROTRUDING LATERALS TRIMMED:

CONSTRUCTION NOTES:

RESTORE 0 LATERALS.

TRIM 0 PROTRUDING LATERALS.

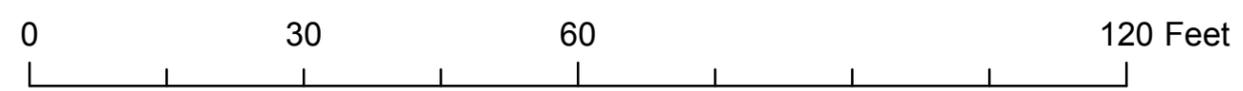
MATERIAL = CLAY.

ALL UTILITY INFORMATION IS APPROXIMATE. CONTRACTOR TO VERIFY AND NOTE DISCREPANCIES IN DIAMETER, LENGTH, AND LOCATION TO ENGINEER.

Project Segment

Sewer Pipes

- Combined Sewer
- Sanitary Sewer
- Storm Sewer
- CB
- MH

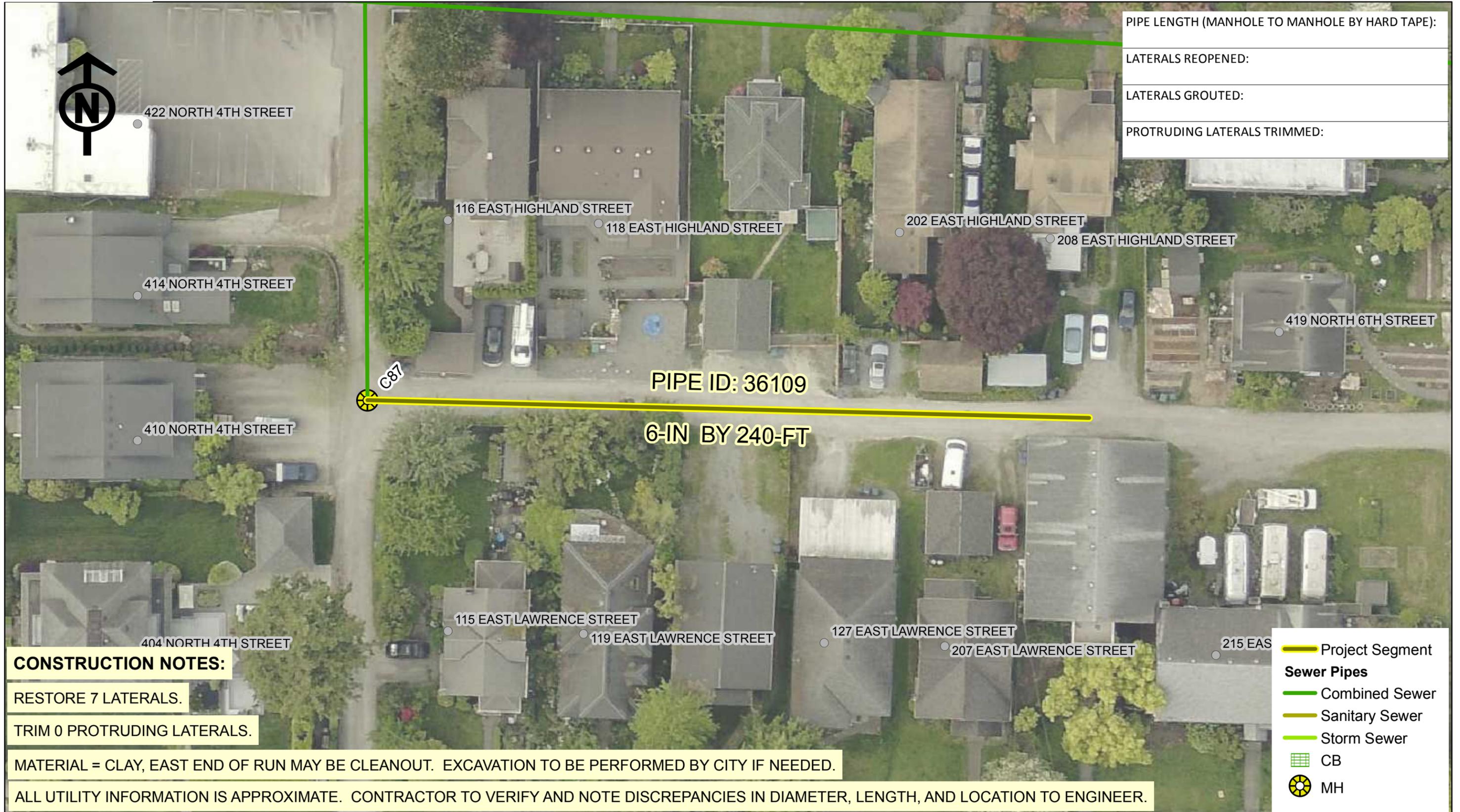


PipeID#: **36110**

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Project #SS-2018-003: 2018 Sewer Lining

(Note: This map set supercedes all previous versions)



PIPE LENGTH (MANHOLE TO MANHOLE BY HARD TAPE):
LATERALS REOPENED:
LATERALS GROUTED:
PROTRUDING LATERALS TRIMMED:

CONSTRUCTION NOTES:

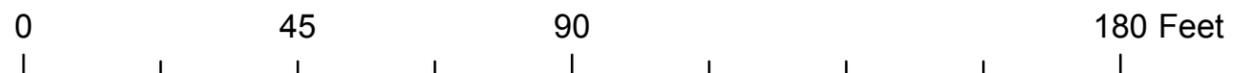
RESTORE 7 LATERALS.

TRIM 0 PROTRUDING LATERALS.

MATERIAL = CLAY, EAST END OF RUN MAY BE CLEANOUT. EXCAVATION TO BE PERFORMED BY CITY IF NEEDED.

ALL UTILITY INFORMATION IS APPROXIMATE. CONTRACTOR TO VERIFY AND NOTE DISCREPANCIES IN DIAMETER, LENGTH, AND LOCATION TO ENGINEER.

- Project Segment
- Sewer Pipes**
- Combined Sewer
- Sanitary Sewer
- Storm Sewer
- CB
- MH

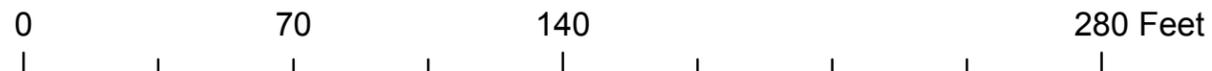
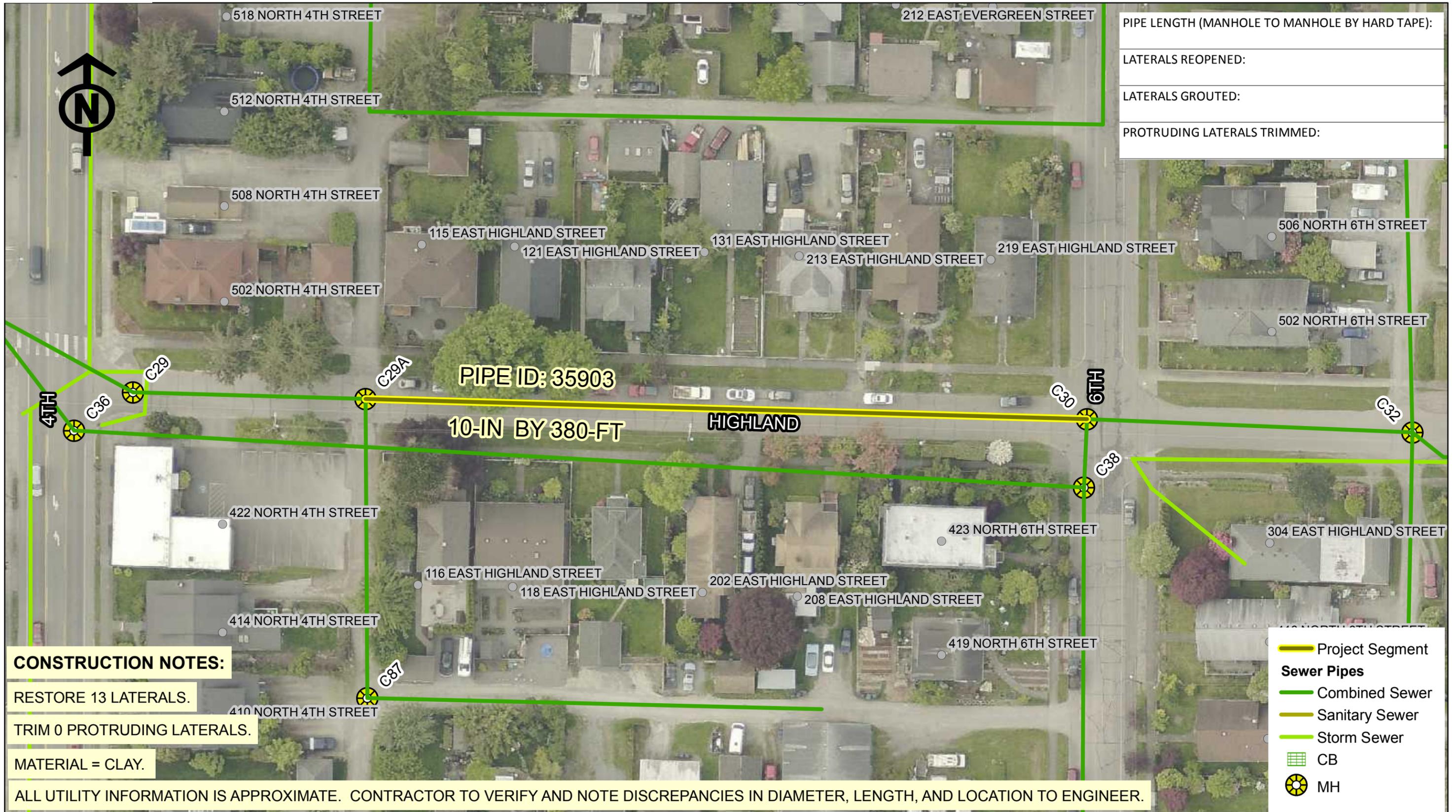


PipeID#: **36109**

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Project #SS-2018-003: 2018 Sewer Lining

(Note: This map set supercedes all previous versions)

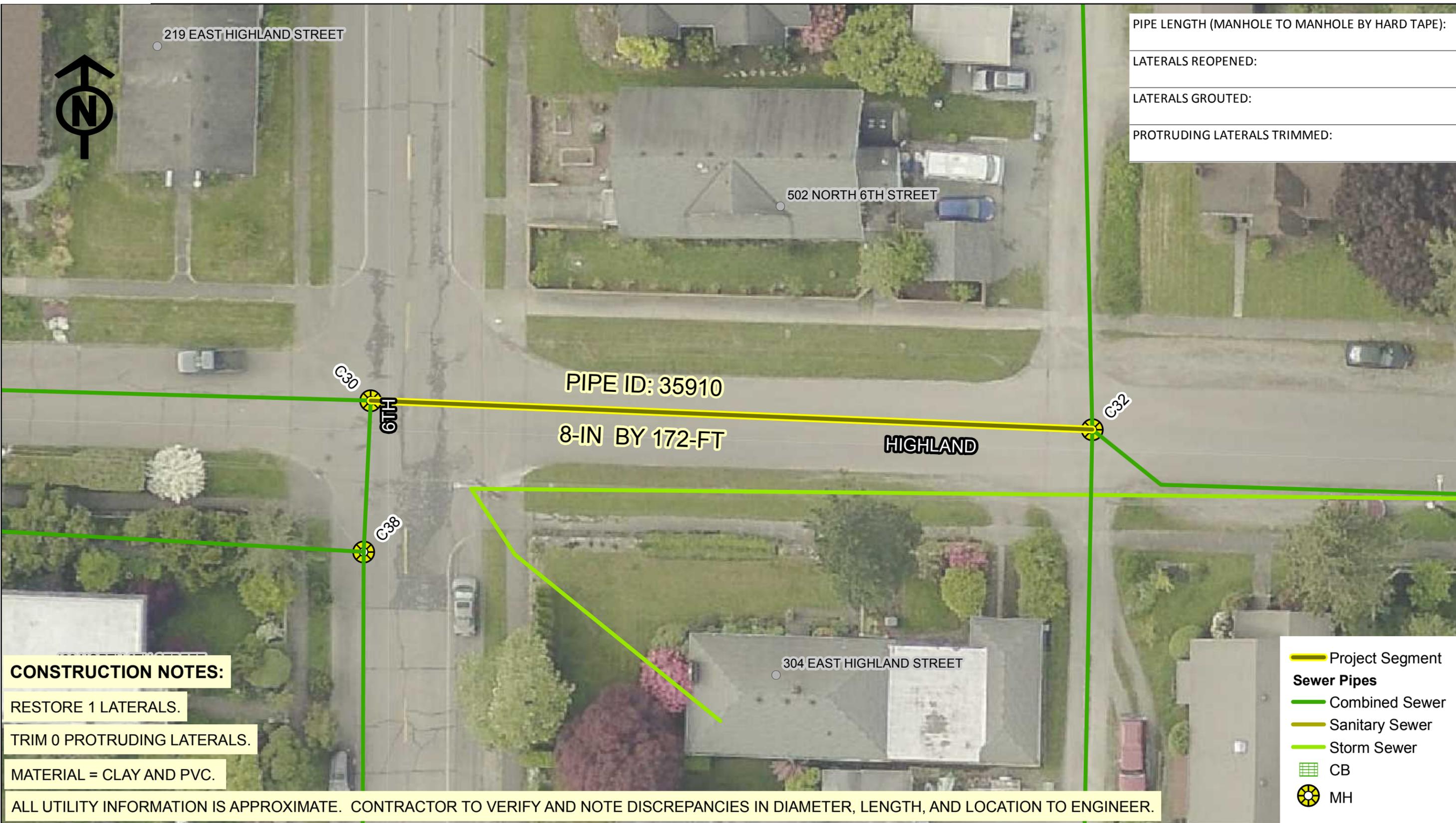


PipeID#: **35903**

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Project #SS-2018-003: 2018 Sewer Lining

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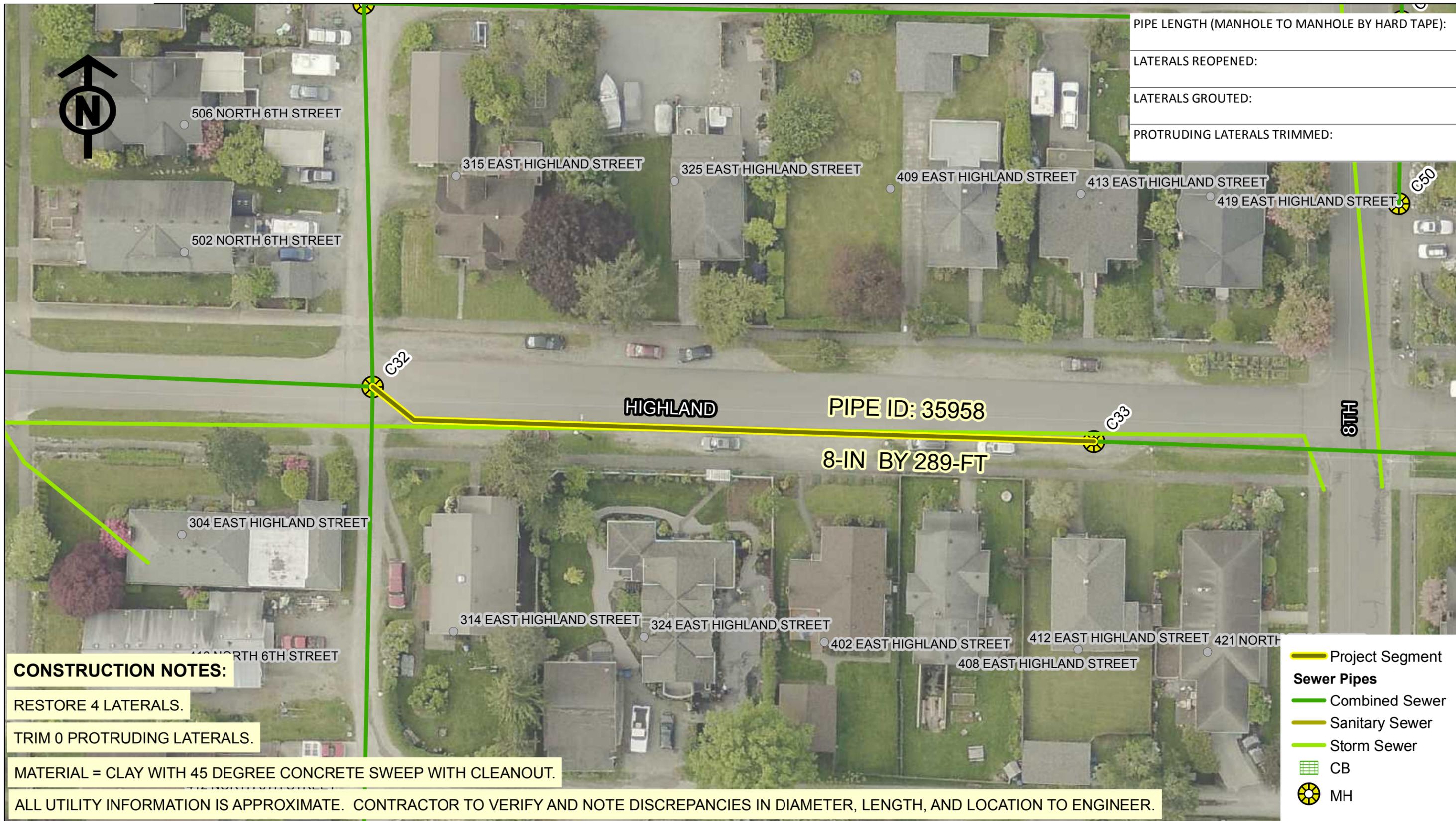


PipeID#: **35910**

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Project #SS-2018-003: 2018 Sewer Lining

(Note: This map set supercedes all previous versions)



PIPE LENGTH (MANHOLE TO MANHOLE BY HARD TAPE):
LATERALS REOPENED:
LATERALS GROUTED:
PROTRUDING LATERALS TRIMMED:

CONSTRUCTION NOTES:

RESTORE 4 LATERALS.

TRIM 0 PROTRUDING LATERALS.

MATERIAL = CLAY WITH 45 DEGREE CONCRETE SWEEP WITH CLEANOUT.

ALL UTILITY INFORMATION IS APPROXIMATE. CONTRACTOR TO VERIFY AND NOTE DISCREPANCIES IN DIAMETER, LENGTH, AND LOCATION TO ENGINEER.

- Project Segment
- Sewer Pipes**
- Combined Sewer
- Sanitary Sewer
- Storm Sewer
- CB
- MH

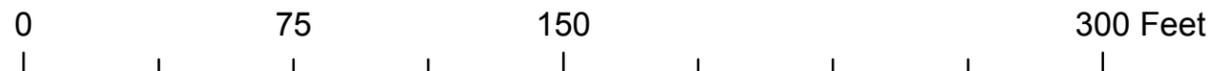
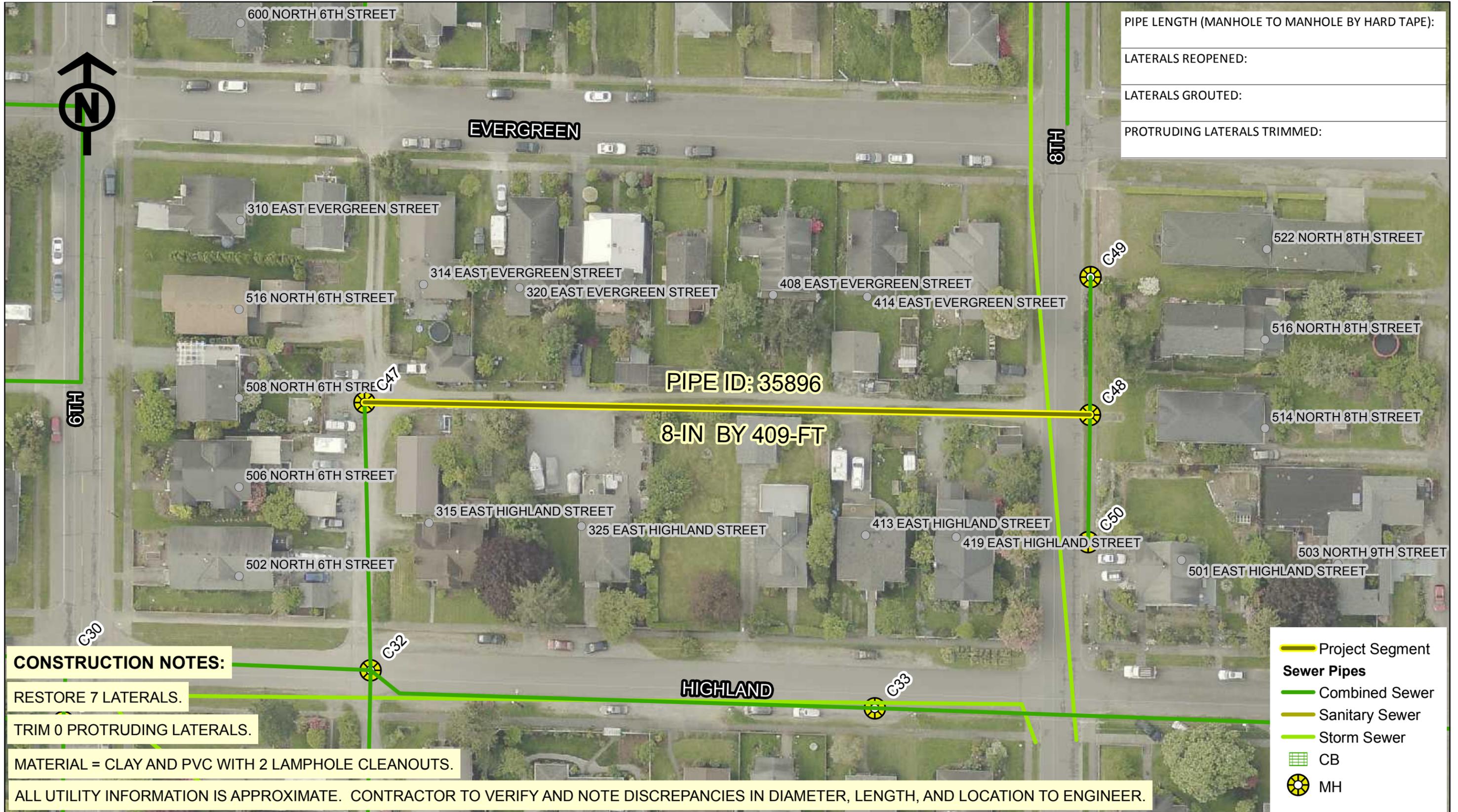


PipeID#: **35958**

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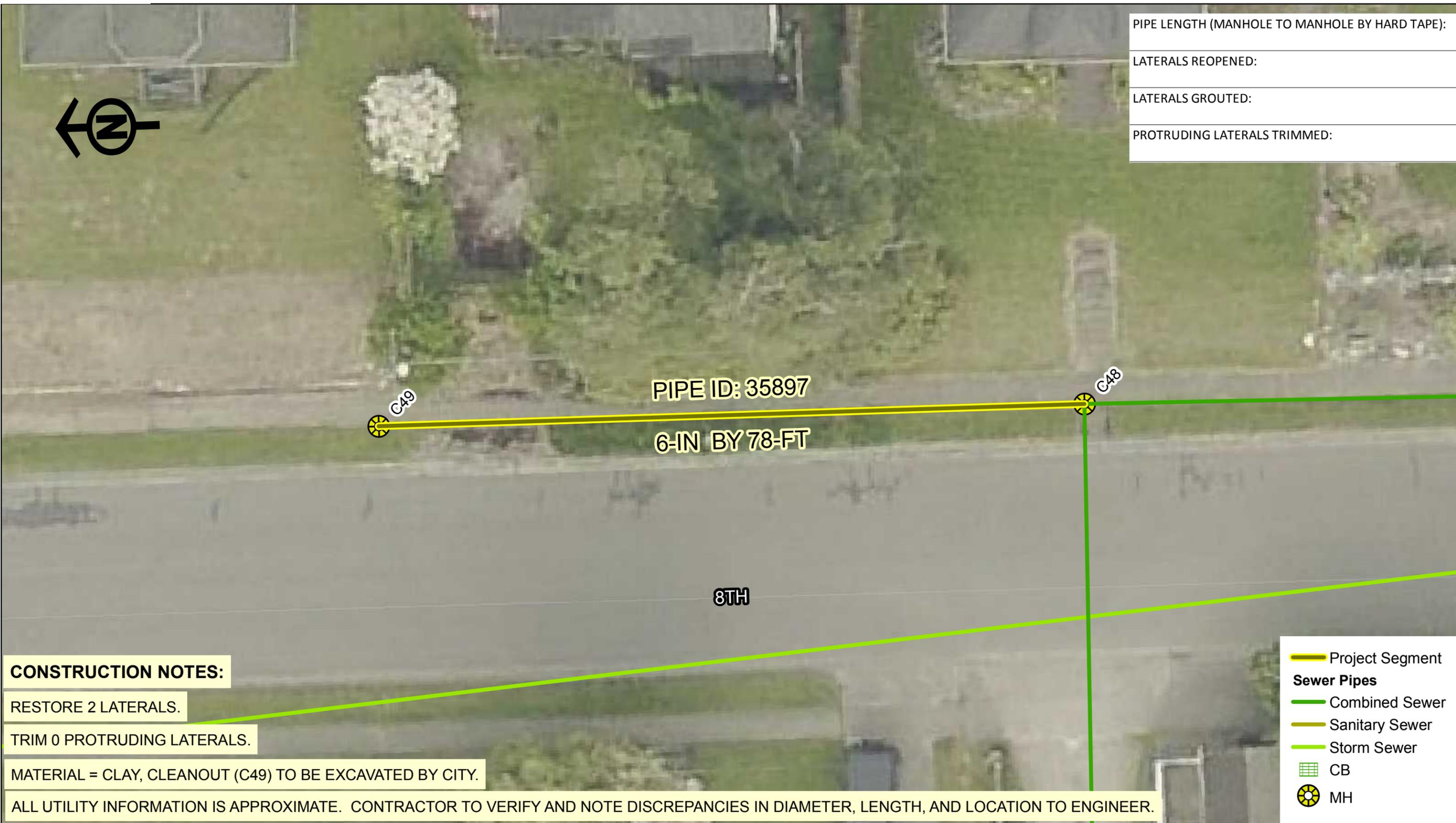
Project #SS-2018-003: 2018 Sewer Lining

(Note: This map set supercedes all previous versions)



PipeID#: **35896**

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PipeID#: **35897**

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Project #SS-2018-003: 2018 Sewer Lining

(Note: This map set supercedes all previous versions)

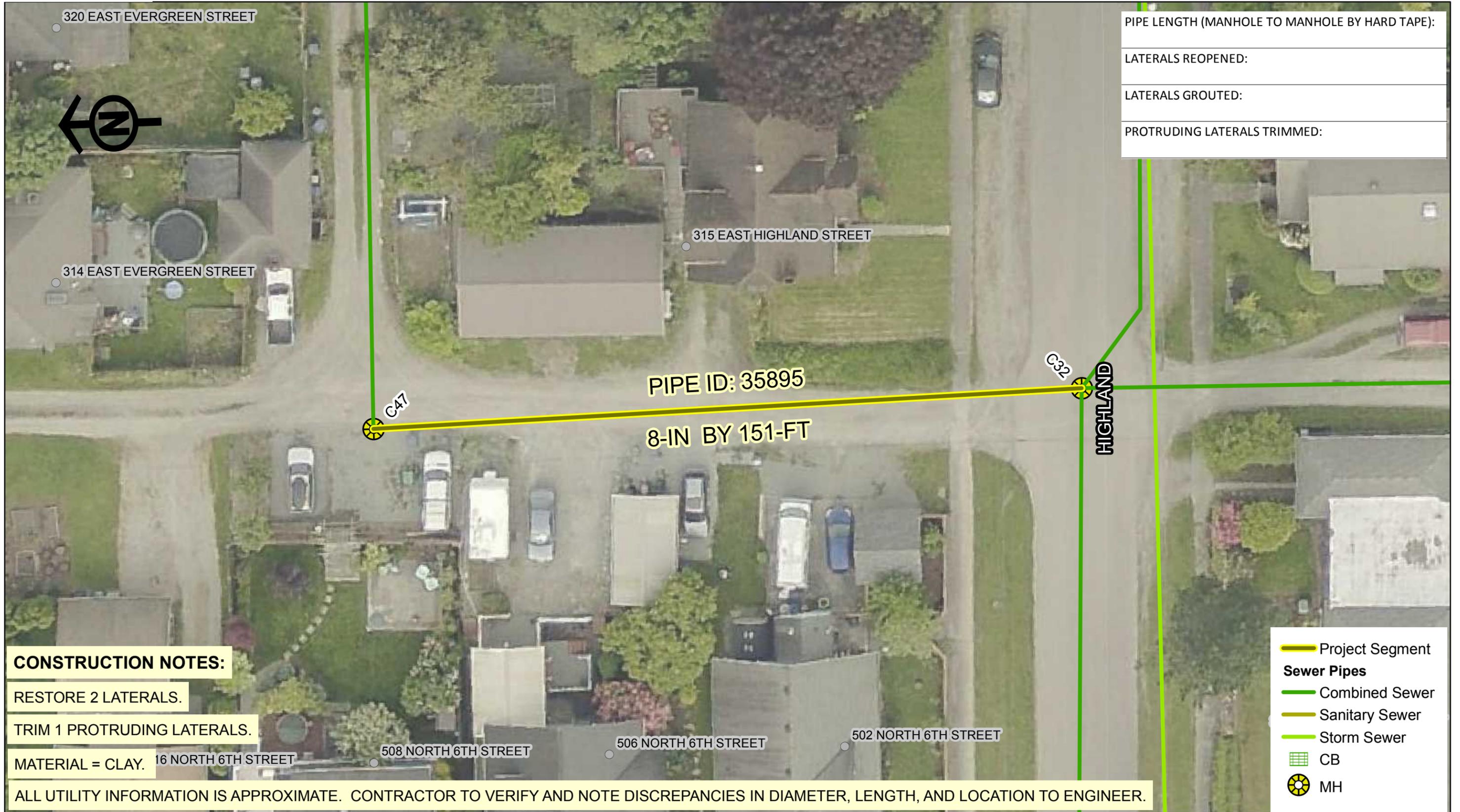


PipeID#: **35914**

The City of Mount Vernon does not warrant, guarantee, or accept any liability for the accuracy, precision, or completeness of any information shown or described herein or for any inferences made therefrom. Any use made of this information is solely at the risk of the user.

Project #SS-2018-003: 2018 Sewer Lining

(Note: This map set supercedes all previous versions)



PIPE LENGTH (MANHOLE TO MANHOLE BY HARD TAPE):
LATERALS REOPENED:
LATERALS GROUTED:
PROTRUDING LATERALS TRIMMED:

CONSTRUCTION NOTES:

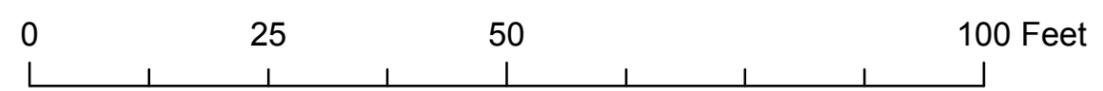
RESTORE 2 LATERALS.

TRIM 1 PROTRUDING LATERALS.

MATERIAL = CLAY. 16 NORTH 6TH STREET

ALL UTILITY INFORMATION IS APPROXIMATE. CONTRACTOR TO VERIFY AND NOTE DISCREPANCIES IN DIAMETER, LENGTH, AND LOCATION TO ENGINEER.

- Project Segment
- Sewer Pipes**
- Combined Sewer
- Sanitary Sewer
- Storm Sewer
- CB
- MH

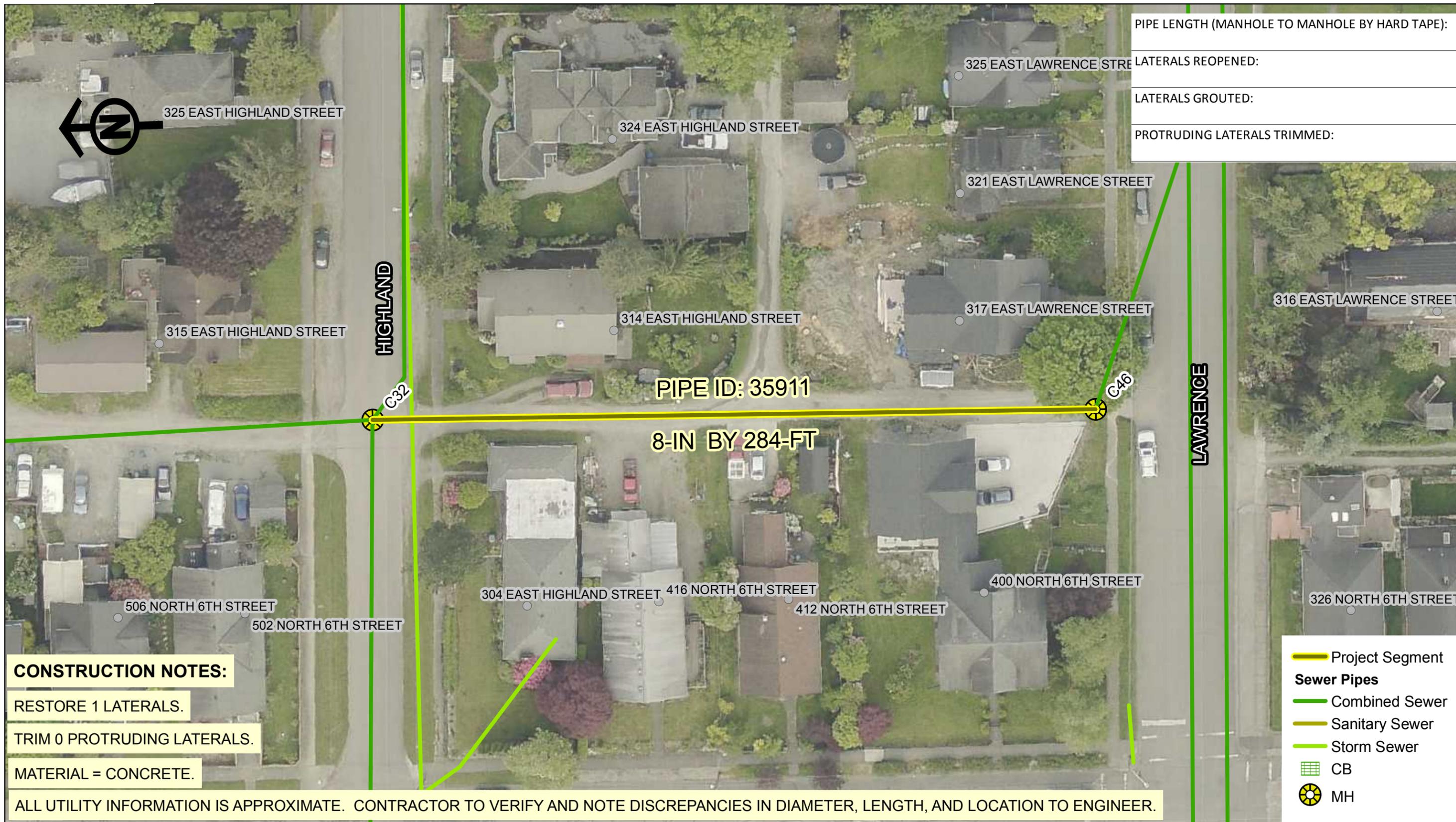


PipeID#: **35895**

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Project #SS-2018-003: 2018 Sewer Lining

(Note: This map set supercedes all previous versions)



PIPE LENGTH (MANHOLE TO MANHOLE BY HARD TAPE):
LATERALS REOPENED:
LATERALS GROUTED:
PROTRUDING LATERALS TRIMMED:

CONSTRUCTION NOTES:

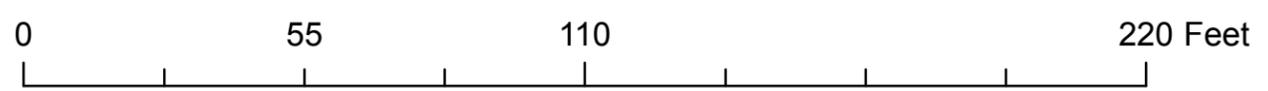
RESTORE 1 LATERALS.

TRIM 0 PROTRUDING LATERALS.

MATERIAL = CONCRETE.

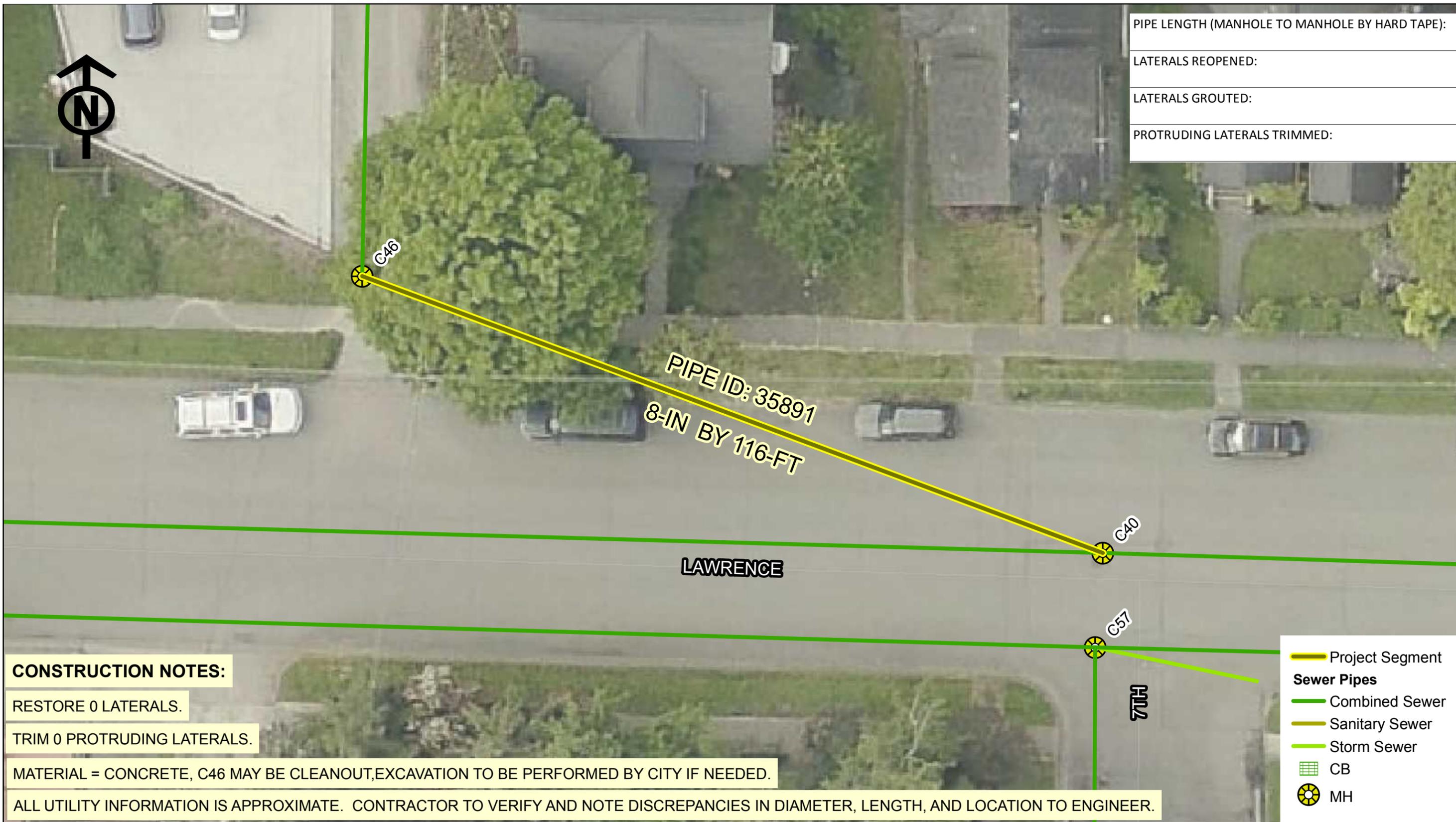
ALL UTILITY INFORMATION IS APPROXIMATE. CONTRACTOR TO VERIFY AND NOTE DISCREPANCIES IN DIAMETER, LENGTH, AND LOCATION TO ENGINEER.

- Project Segment
- Sewer Pipes**
- Combined Sewer
- Sanitary Sewer
- Storm Sewer
- CB
- MH



PipeID#: **35911**

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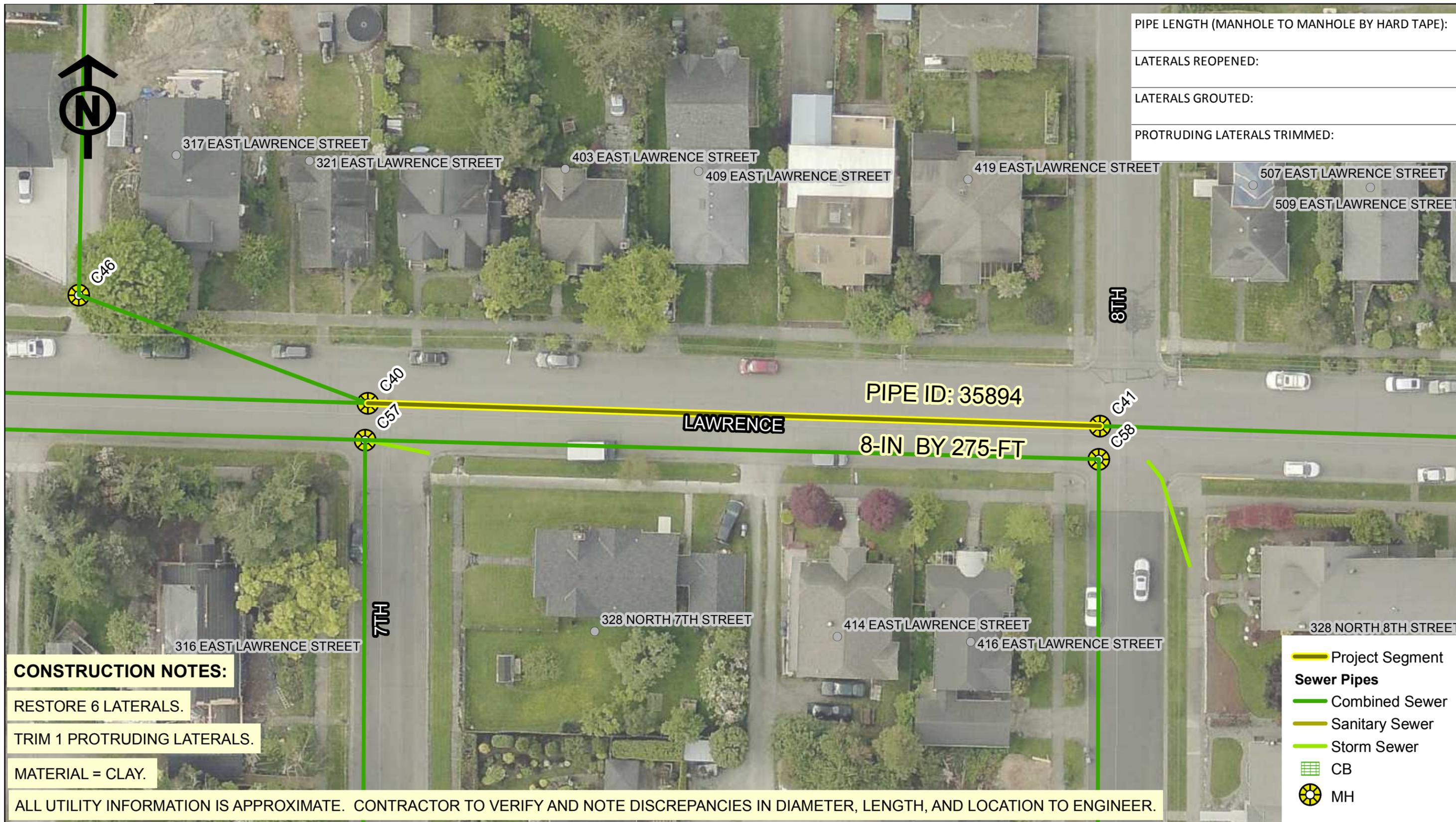


PipeID#: **35891**

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Project #SS-2018-003: 2018 Sewer Lining

(Note: This map set supercedes all previous versions)



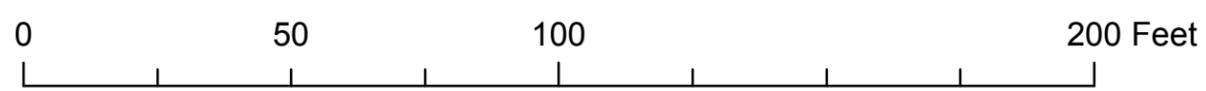
PIPE LENGTH (MANHOLE TO MANHOLE BY HARD TAPE):
LATERALS REOPENED:
LATERALS GROUTED:
PROTRUDING LATERALS TRIMMED:

CONSTRUCTION NOTES:

- RESTORE 6 LATERALS.
- TRIM 1 PROTRUDING LATERALS.
- MATERIAL = CLAY.

ALL UTILITY INFORMATION IS APPROXIMATE. CONTRACTOR TO VERIFY AND NOTE DISCREPANCIES IN DIAMETER, LENGTH, AND LOCATION TO ENGINEER.

— Project Segment
Sewer Pipes
— Combined Sewer
— Sanitary Sewer
— Storm Sewer
 CB
 MH

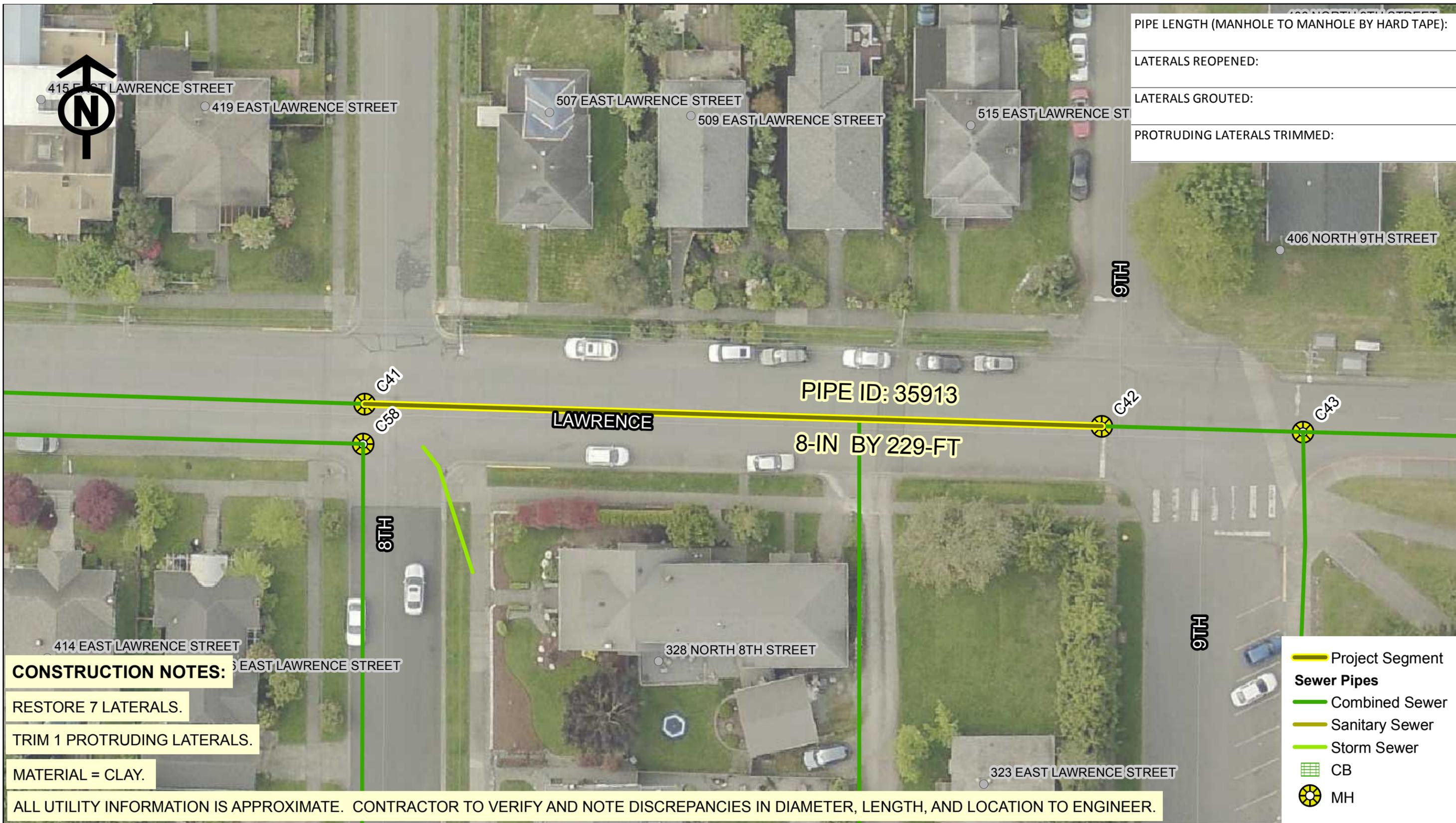


PipeID#: **35894**

The City of Mount Vernon does not warrant, guarantee, or accept any liability for the accuracy, precision, or completeness of any information shown or described herein or for any inferences made therefrom. Any use made of this information is solely at the risk of the user.

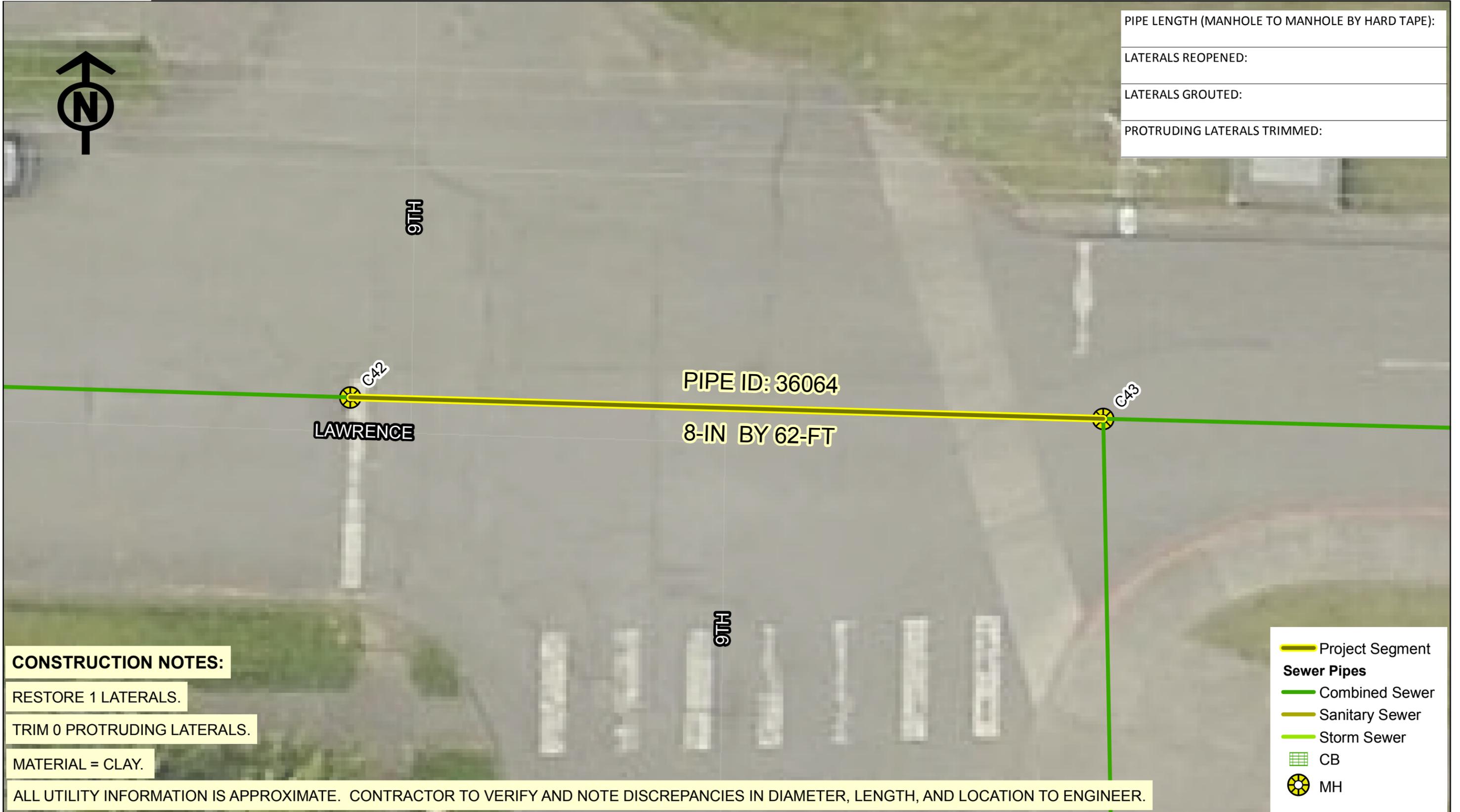
Project #SS-2018-003: 2018 Sewer Lining

(Note: This map set supercedes all previous versions)



PipeID#: 35913

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PipeID#: **36064**

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PIPE LENGTH (MANHOLE TO MANHOLE BY HARD TAPE):

LATERALS REOPENED:

LATERALS GROUTED:

PROTRUDING LATERALS TRIMMED:



HIGHLAND

PIPE ID: 36067

10-IN BY 36-FT



6TH

CONSTRUCTION NOTES:

RESTORE 0 LATERALS.

TRIM 0 PROTRUDING LATERALS.

MATERIAL = CLAY AND CONCRETE.

ALL UTILITY INFORMATION IS APPROXIMATE. CONTRACTOR TO VERIFY AND NOTE DISCREPANCIES IN DIAMETER, LENGTH, AND LOCATION TO ENGINEER.

- Project Segment
- Sewer Pipes**
- Combined Sewer
- Sanitary Sewer
- Storm Sewer
- CB
- MH

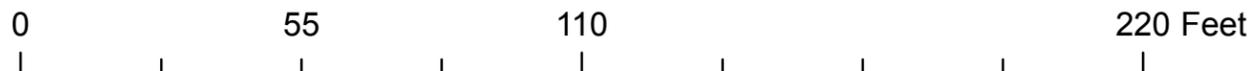


PipeID#: **36067**

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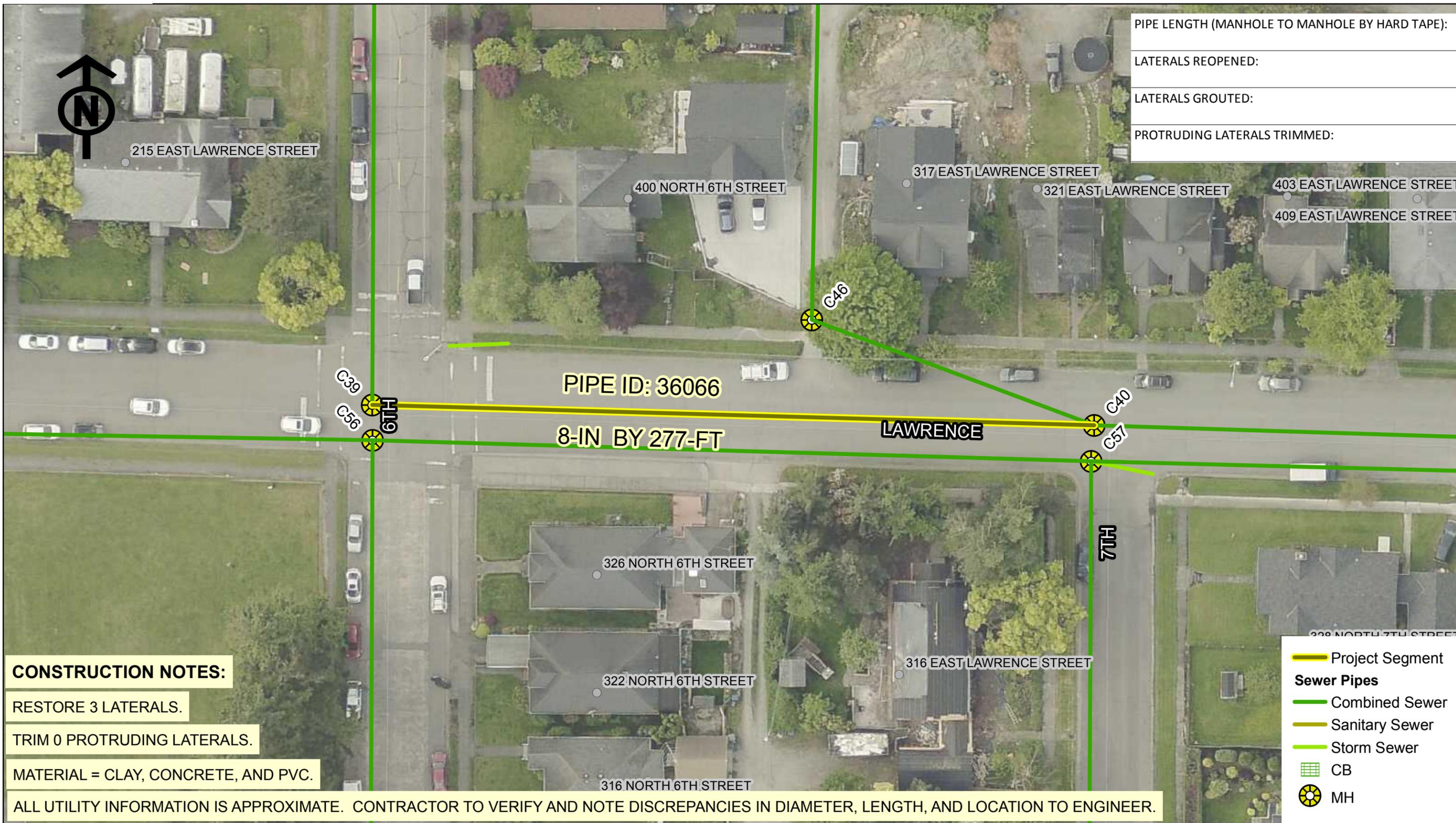
Project #SS-2018-003: 2018 Sewer Lining

(Note: This map set supercedes all previous versions)



PipeID#: **35893**

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PIPE LENGTH (MANHOLE TO MANHOLE BY HARD TAPE):
LATERALS REOPENED:
LATERALS GROUTED:
PROTRUDING LATERALS TRIMMED:

CONSTRUCTION NOTES:

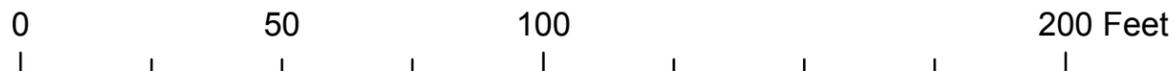
RESTORE 3 LATERALS.

TRIM 0 PROTRUDING LATERALS.

MATERIAL = CLAY, CONCRETE, AND PVC.

ALL UTILITY INFORMATION IS APPROXIMATE. CONTRACTOR TO VERIFY AND NOTE DISCREPANCIES IN DIAMETER, LENGTH, AND LOCATION TO ENGINEER.

- Project Segment
- Sewer Pipes**
- Combined Sewer
- Sanitary Sewer
- Storm Sewer
- CB
- MH



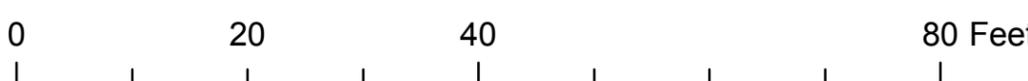
PipeID#: **36066**

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PIPE LENGTH (MANHOLE TO MANHOLE BY HARD TAPE):
LATERALS REOPENED:
LATERALS GROUTED:
PROTRUDING LATERALS TRIMMED:

- Project Segment
- Sewer Pipes**
- Combined Sewer
- Sanitary Sewer
- Storm Sewer
- CB
- MH



PipeID#: **35908**

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Project #SS-2018-003: 2018 Sewer Lining

(Note: This map set supercedes all previous versions)



PipeID#: **35909**

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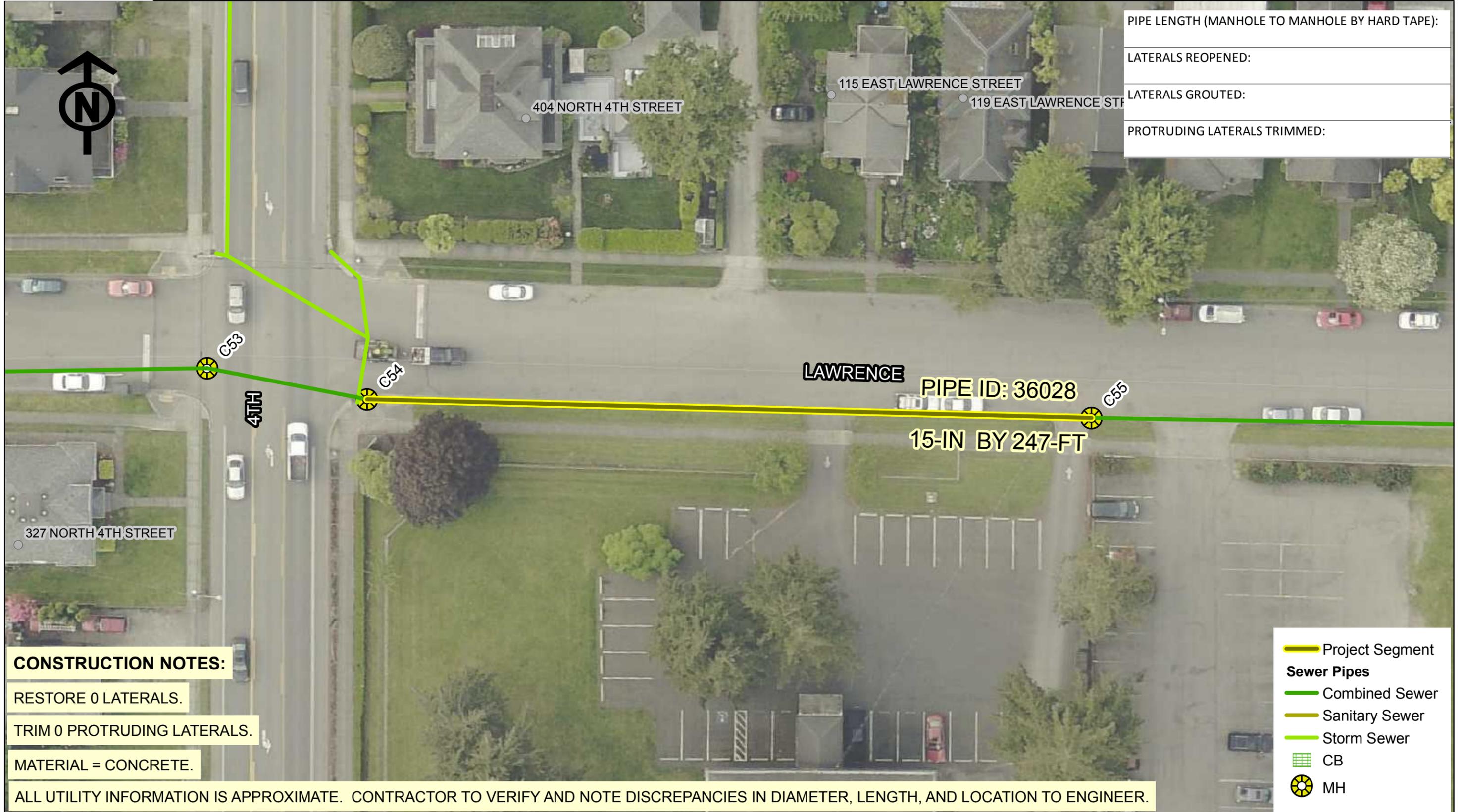


PipeID#: **35892**

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Project #SS-2018-003: 2018 Sewer Lining

(Note: This map set supercedes all previous versions)



PIPE LENGTH (MANHOLE TO MANHOLE BY HARD TAPE):
LATERALS REOPENED:
LATERALS GROUTED:
PROTRUDING LATERALS TRIMMED:

CONSTRUCTION NOTES:

RESTORE 0 LATERALS.

TRIM 0 PROTRUDING LATERALS.

MATERIAL = CONCRETE.

ALL UTILITY INFORMATION IS APPROXIMATE. CONTRACTOR TO VERIFY AND NOTE DISCREPANCIES IN DIAMETER, LENGTH, AND LOCATION TO ENGINEER.

- Project Segment
- Sewer Pipes**
- Combined Sewer
- Sanitary Sewer
- Storm Sewer
- CB
- MH



PipeID#: **36028**

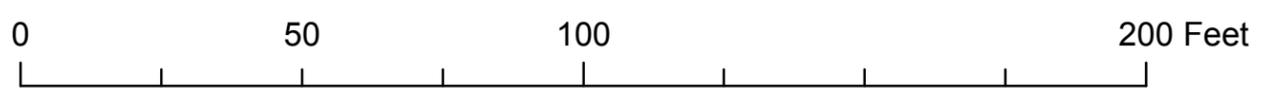
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Project #SS-2018-003: 2018 Sewer Lining

(Note: This map set supercedes all previous versions)



PIPE LENGTH (MANHOLE TO MANHOLE BY HARD TAPE):
LATERALS REOPENED:
LATERALS GROUTED:
PROTRUDING LATERALS TRIMMED:

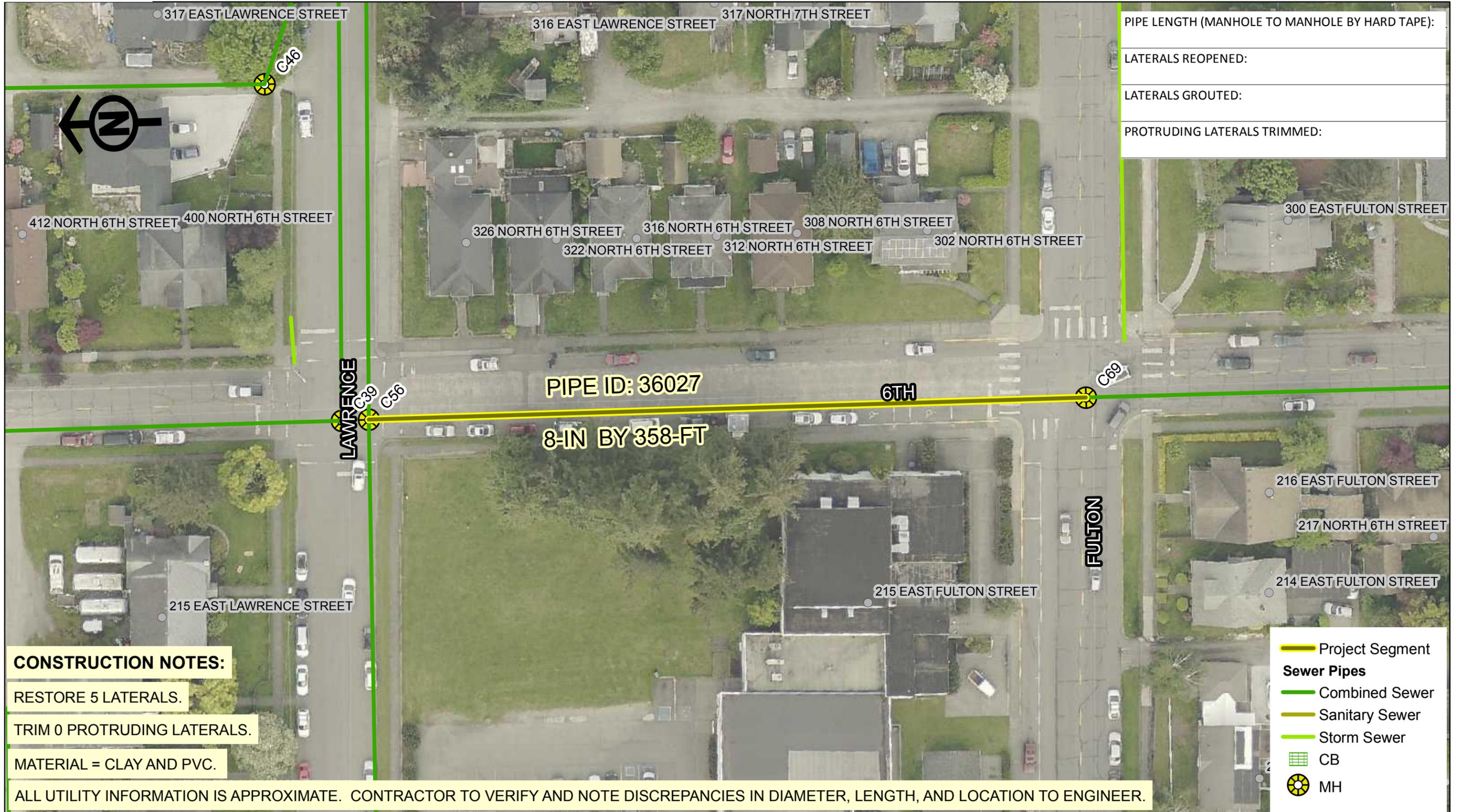


PipeID#: **35959**

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Project #SS-2018-003: 2018 Sewer Lining

(Note: This map set supercedes all previous versions)

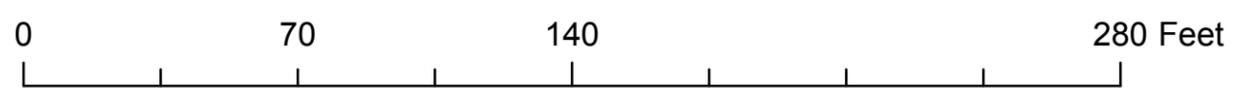
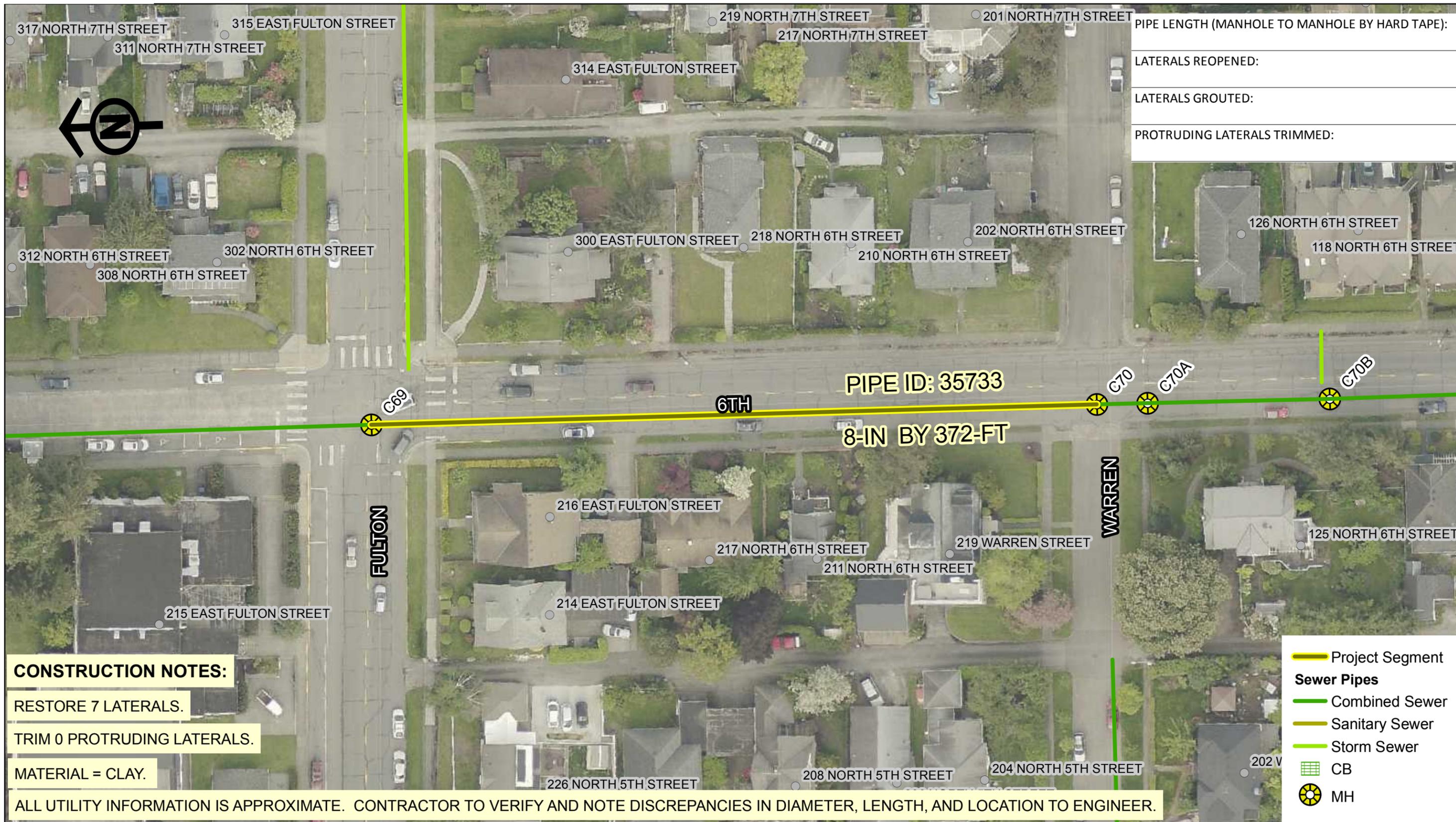


PipeID#: 36027

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Project #SS-2018-003: 2018 Sewer Lining

(Note: This map set supercedes all previous versions)

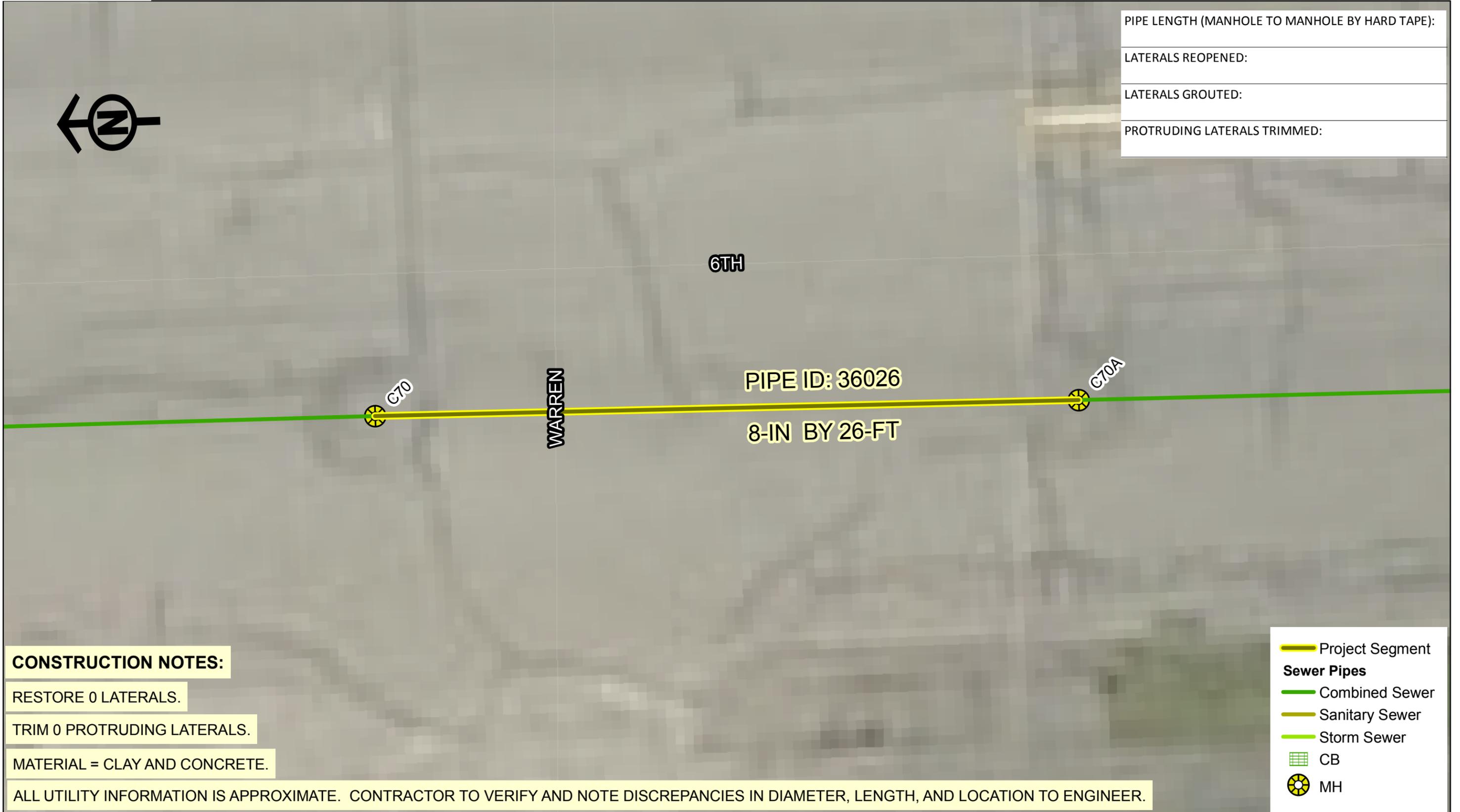


PipeID#: **35733**

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PIPE LENGTH (MANHOLE TO MANHOLE BY HARD TAPE):
LATERALS REOPENED:
LATERALS GROUTED:
PROTRUDING LATERALS TRIMMED:



CONSTRUCTION NOTES:

RESTORE 0 LATERALS.

TRIM 0 PROTRUDING LATERALS.

MATERIAL = CLAY AND CONCRETE.

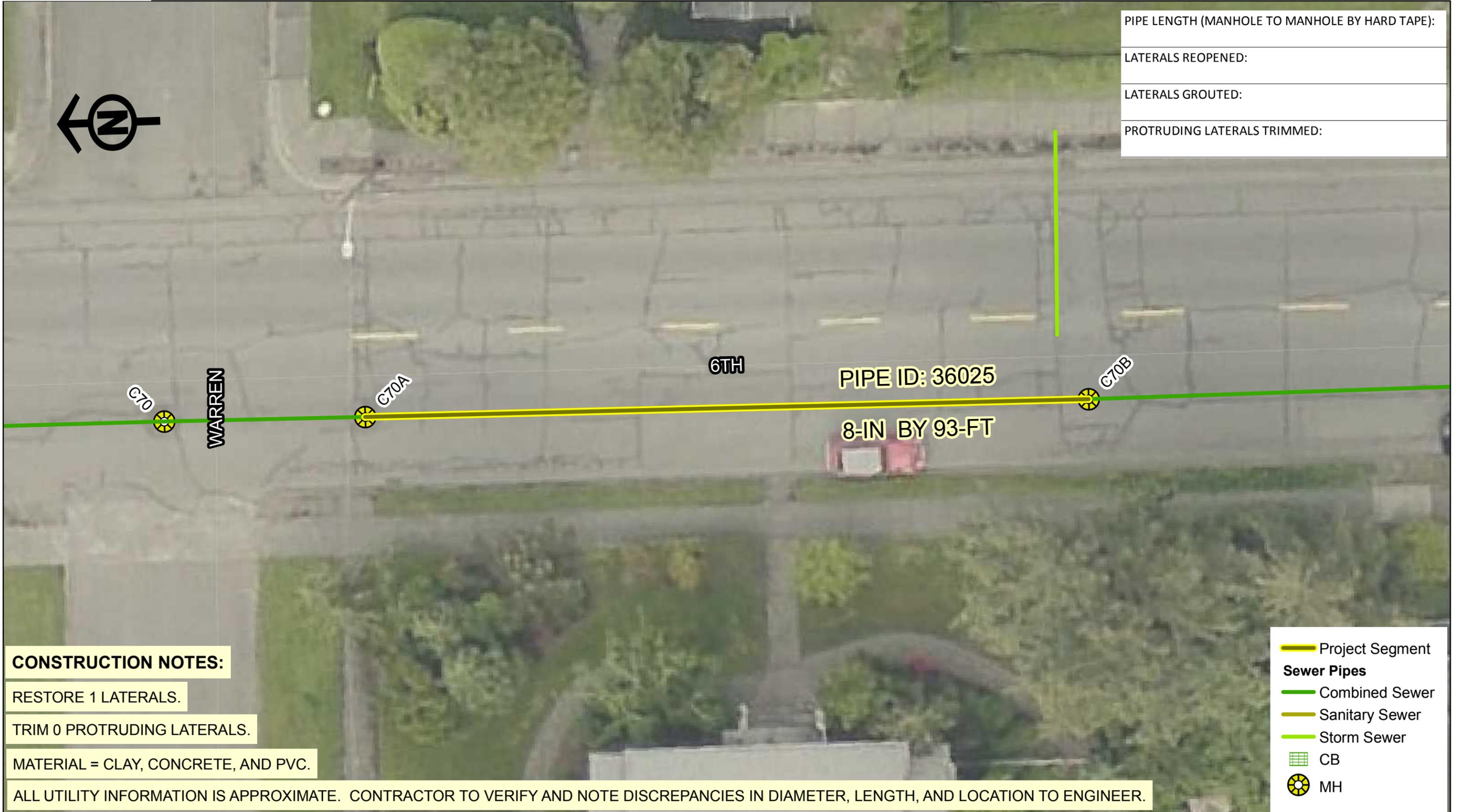
ALL UTILITY INFORMATION IS APPROXIMATE. CONTRACTOR TO VERIFY AND NOTE DISCREPANCIES IN DIAMETER, LENGTH, AND LOCATION TO ENGINEER.

-  Project Segment
- Sewer Pipes**
-  Combined Sewer
-  Sanitary Sewer
-  Storm Sewer
-  CB
-  MH



PipeID#: **36026**

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PIPE LENGTH (MANHOLE TO MANHOLE BY HARD TAPE):
LATERALS REOPENED:
LATERALS GROUTED:
PROTRUDING LATERALS TRIMMED:

CONSTRUCTION NOTES:

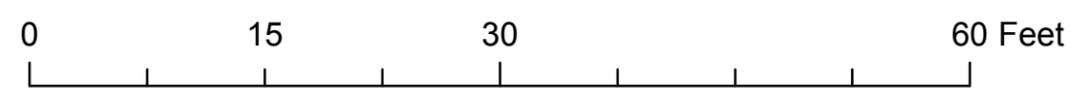
RESTORE 1 LATERALS.

TRIM 0 PROTRUDING LATERALS.

MATERIAL = CLAY, CONCRETE, AND PVC.

ALL UTILITY INFORMATION IS APPROXIMATE. CONTRACTOR TO VERIFY AND NOTE DISCREPANCIES IN DIAMETER, LENGTH, AND LOCATION TO ENGINEER.

- Project Segment
- Sewer Pipes**
- Combined Sewer
- Sanitary Sewer
- Storm Sewer
- CB
- MH

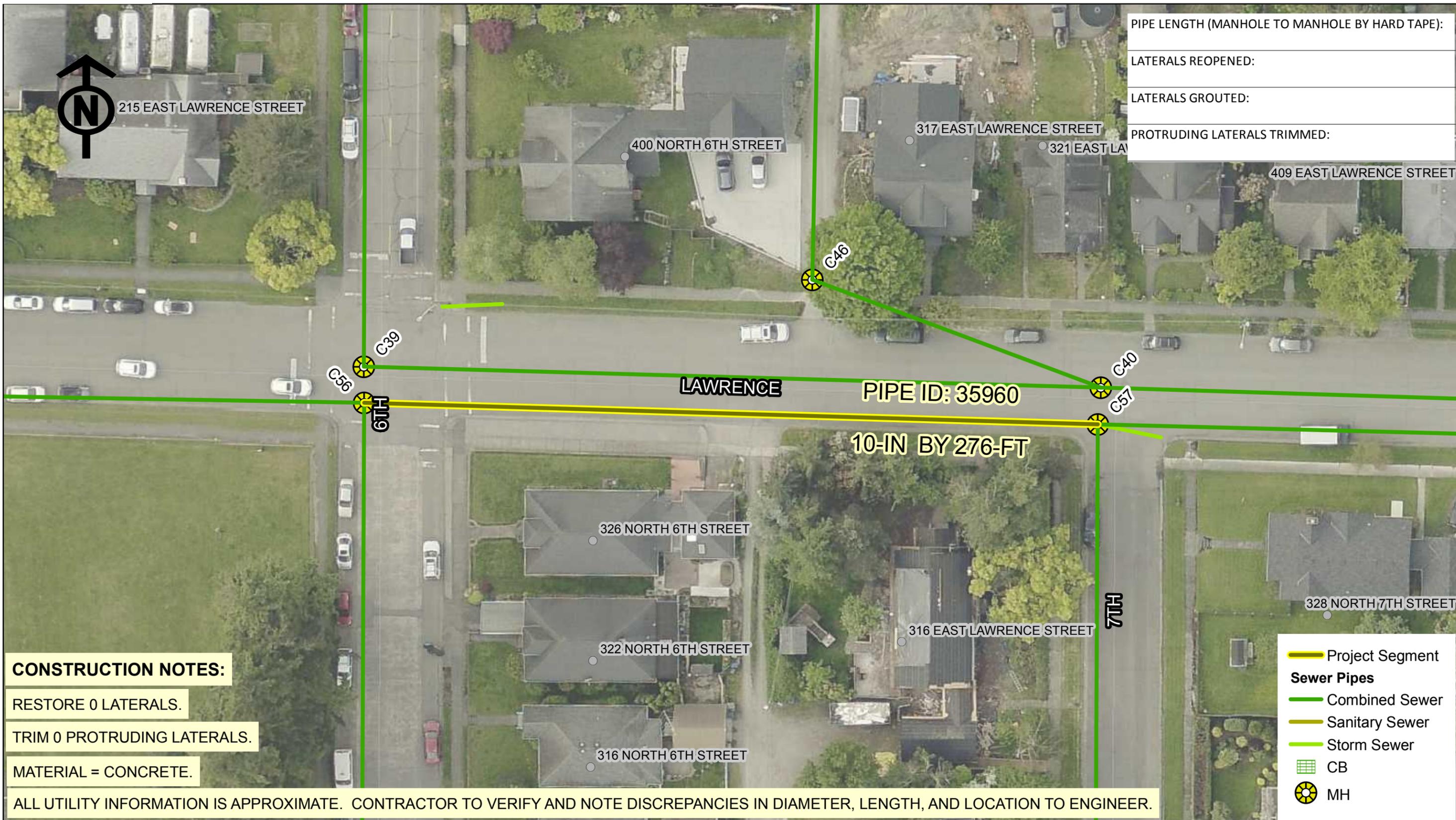


PipeID#: **36025**

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Project #SS-2018-003: 2018 Sewer Lining

(Note: This map set supercedes all previous versions)



PIPE LENGTH (MANHOLE TO MANHOLE BY HARD TAPE):
LATERALS REOPENED:
LATERALS GROUTED:
PROTRUDING LATERALS TRIMMED:

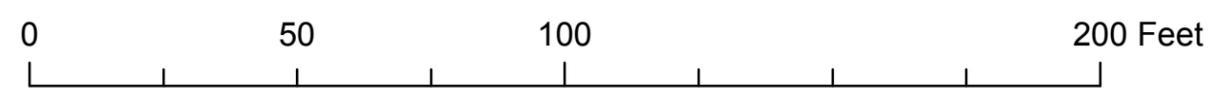
CONSTRUCTION NOTES:

- RESTORE 0 LATERALS.
- TRIM 0 PROTRUDING LATERALS.
- MATERIAL = CONCRETE.

ALL UTILITY INFORMATION IS APPROXIMATE. CONTRACTOR TO VERIFY AND NOTE DISCREPANCIES IN DIAMETER, LENGTH, AND LOCATION TO ENGINEER.

Legend

- Project Segment
- Sewer Pipes**
- Combined Sewer
- Sanitary Sewer
- Storm Sewer
- CB
- MH

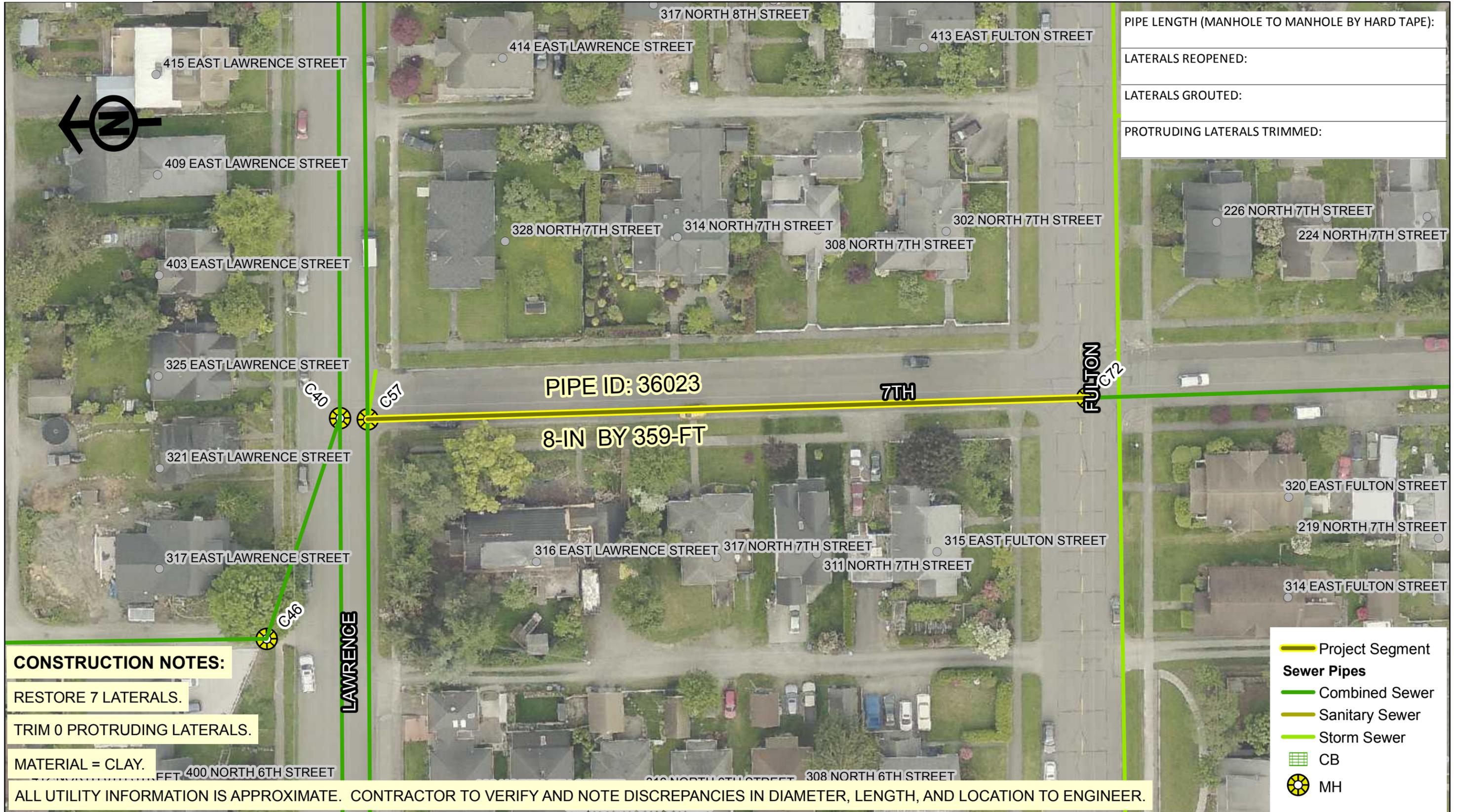


PipeID#: **35960**

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Project #SS-2018-003: 2018 Sewer Lining

(Note: This map set supercedes all previous versions)

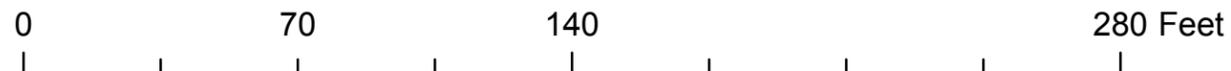
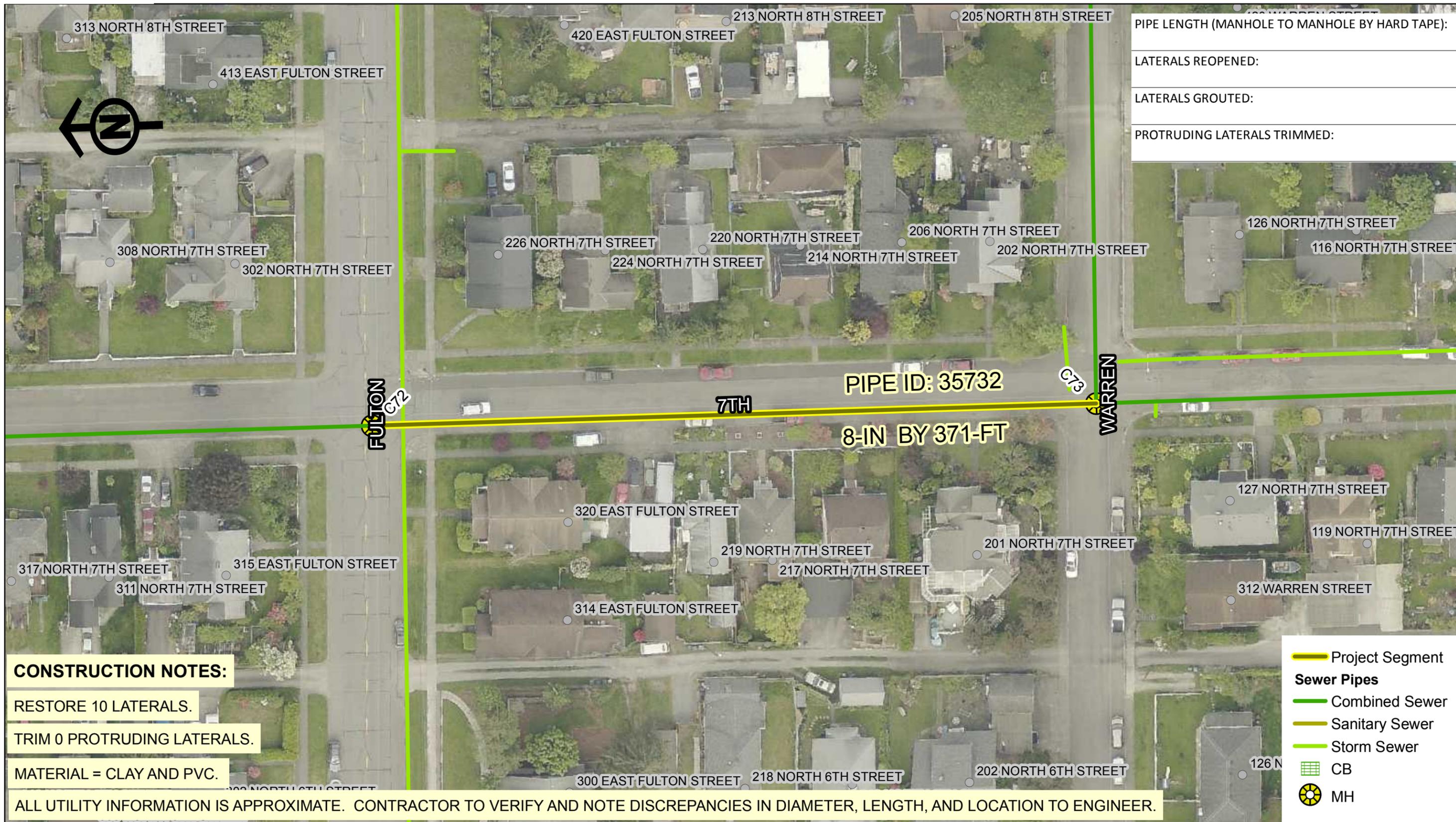


PipeID#: **36023**

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Project #SS-2018-003: 2018 Sewer Lining

(Note: This map set supercedes all previous versions)



PipeID#: **35732**

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Project #SS-2018-003: 2018 Sewer Lining

(Note: This map set supercedes all previous versions)



PIPE LENGTH (MANHOLE TO MANHOLE BY HARD TAPE):
LATERALS REOPENED:
LATERALS GROUTED:
PROTRUDING LATERALS TRIMMED:

CONSTRUCTION NOTES:

RESTORE 9 LATERALS.

TRIM 0 PROTRUDING LATERALS.

MATERIAL = CLAY.

ALL UTILITY INFORMATION IS APPROXIMATE. CONTRACTOR TO VERIFY AND NOTE DISCREPANCIES IN DIAMETER, LENGTH, AND LOCATION TO ENGINEER.

Project Segment
Sewer Pipes
 Combined Sewer
 Sanitary Sewer
 Storm Sewer
 CB
 MH

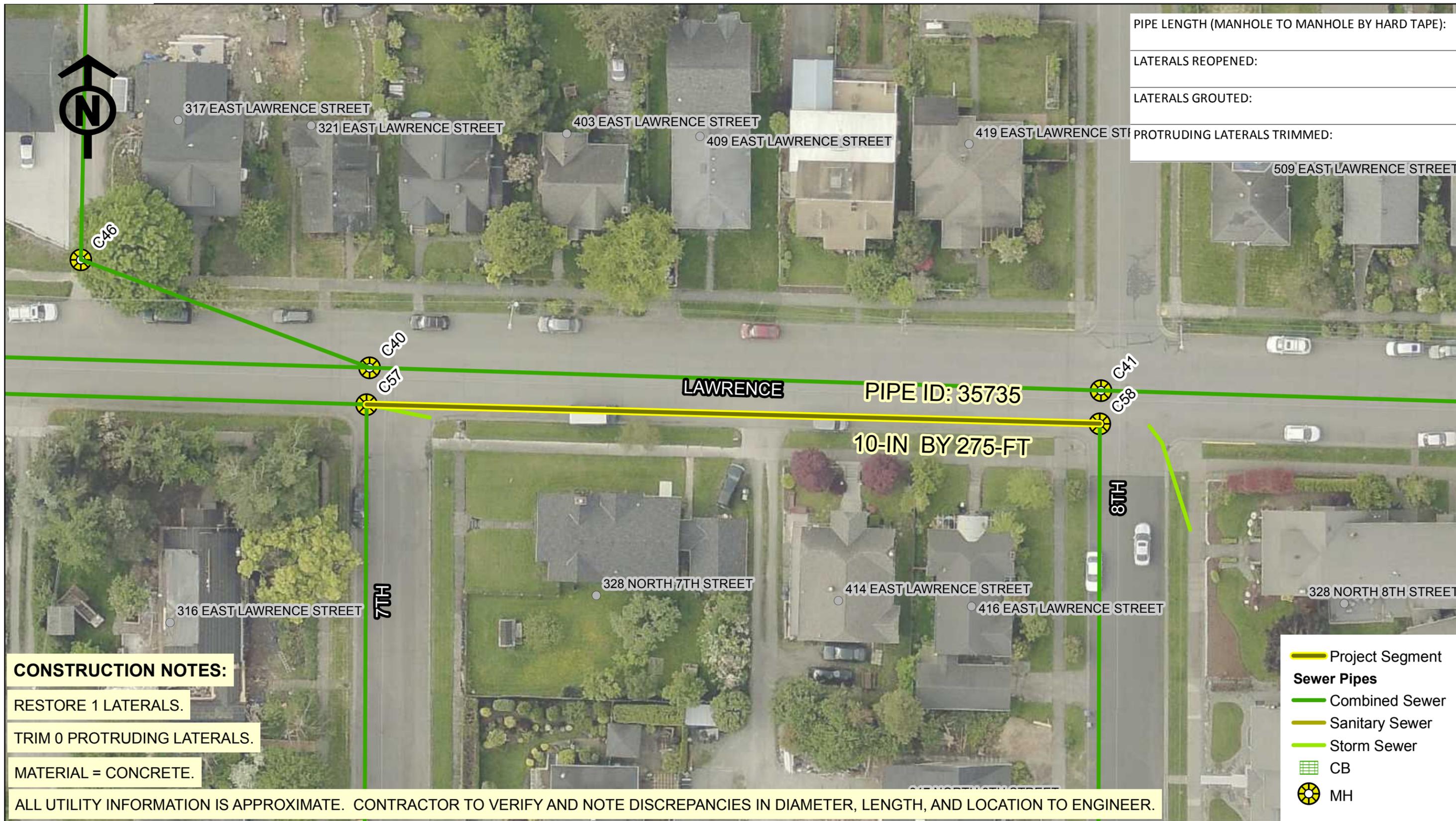


PipeID#: **36019**

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Project #SS-2018-003: 2018 Sewer Lining

(Note: This map set supercedes all previous versions)

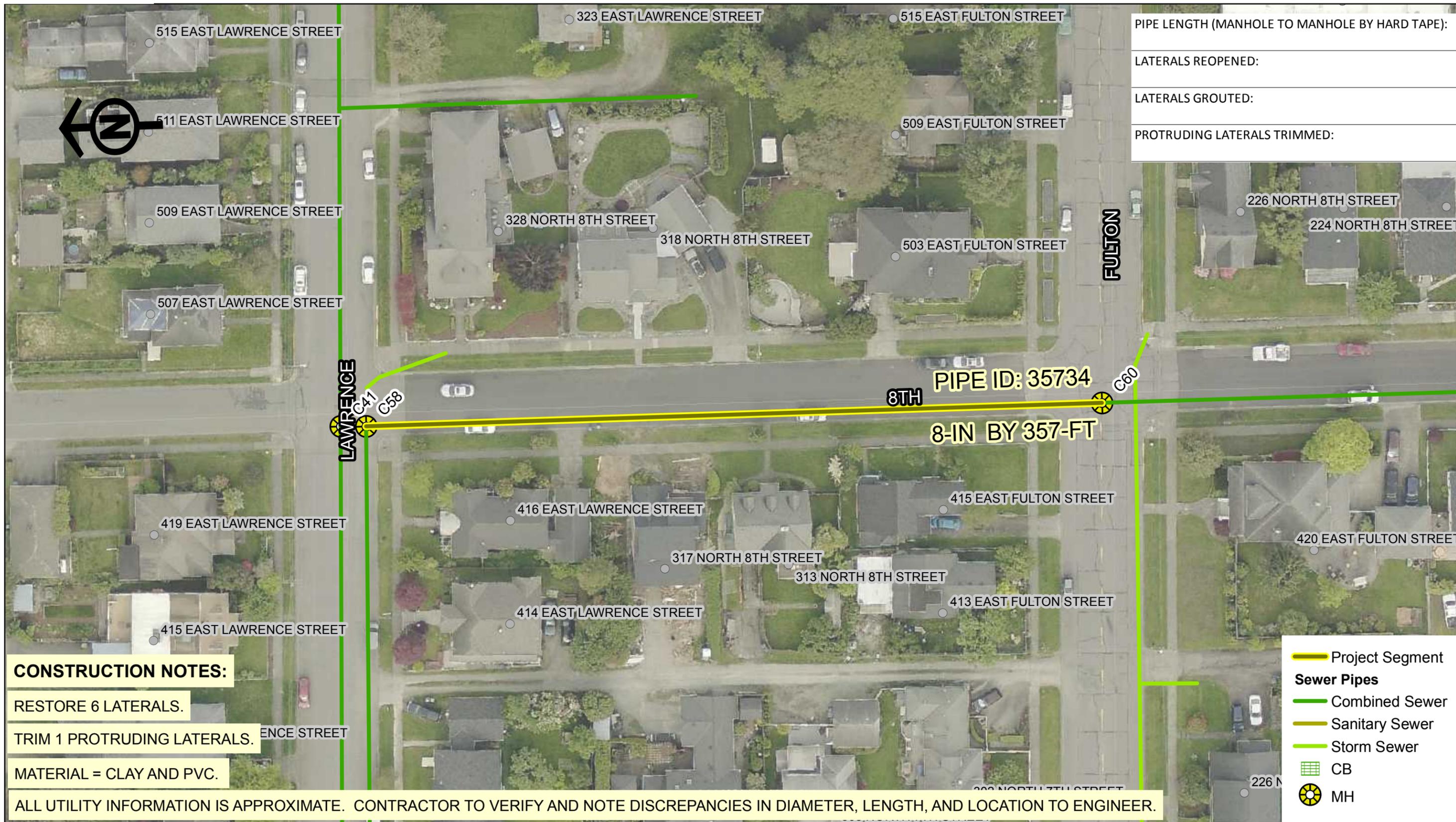


PipeID#: **35735**

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Project #SS-2018-003: 2018 Sewer Lining

(Note: This map set supercedes all previous versions)



PIPE LENGTH (MANHOLE TO MANHOLE BY HARD TAPE):
LATERALS REOPENED:
LATERALS GROUTED:
PROTRUDING LATERALS TRIMMED:

CONSTRUCTION NOTES:

RESTORE 6 LATERALS.

TRIM 1 PROTRUDING LATERALS.

MATERIAL = CLAY AND PVC.

ALL UTILITY INFORMATION IS APPROXIMATE. CONTRACTOR TO VERIFY AND NOTE DISCREPANCIES IN DIAMETER, LENGTH, AND LOCATION TO ENGINEER.

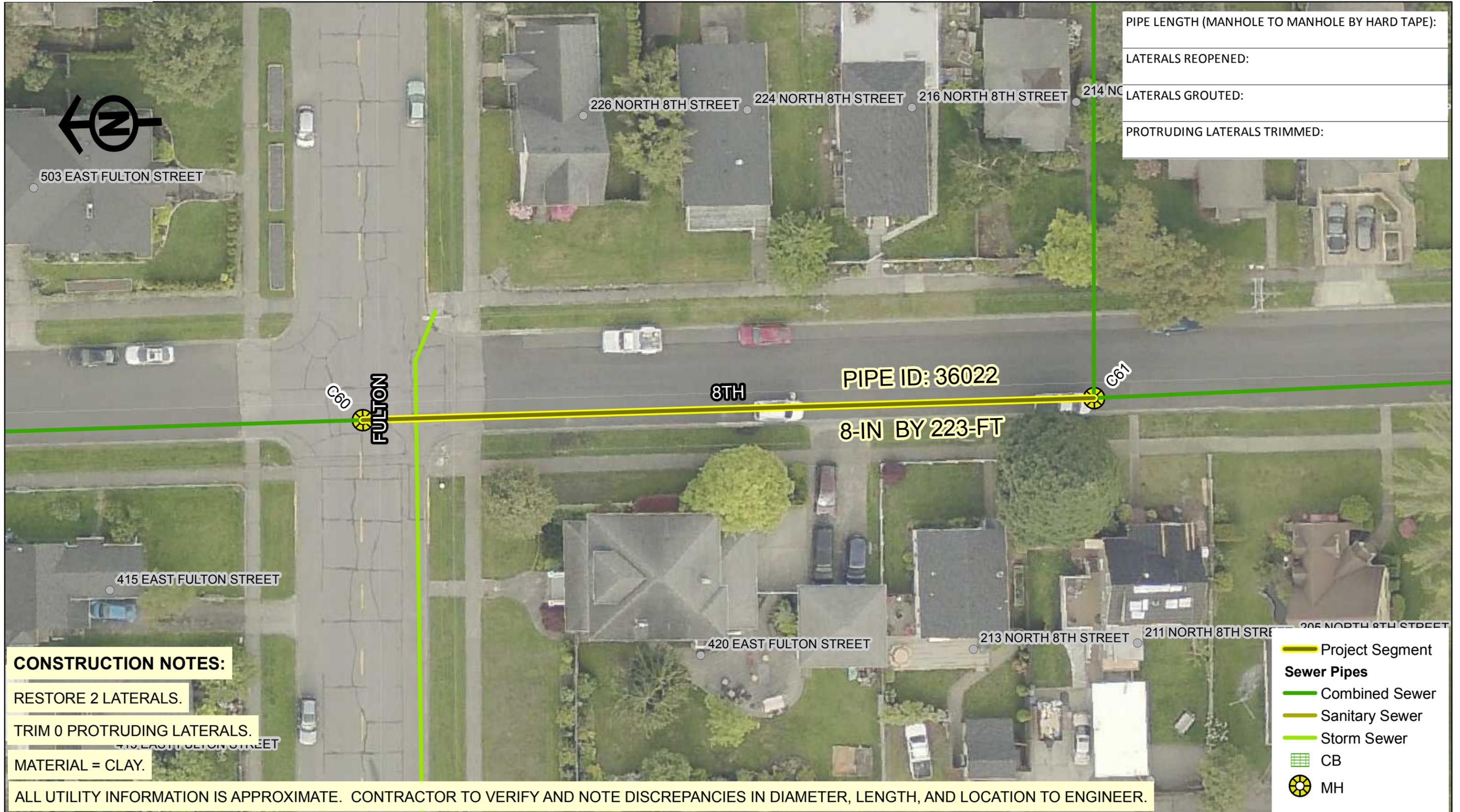


PipeID#: **35734**

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Project #SS-2018-003: 2018 Sewer Lining

(Note: This map set supercedes all previous versions)

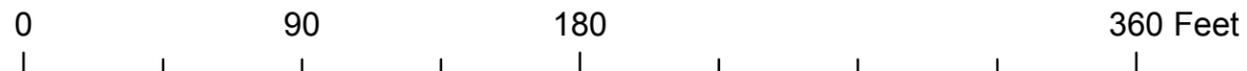
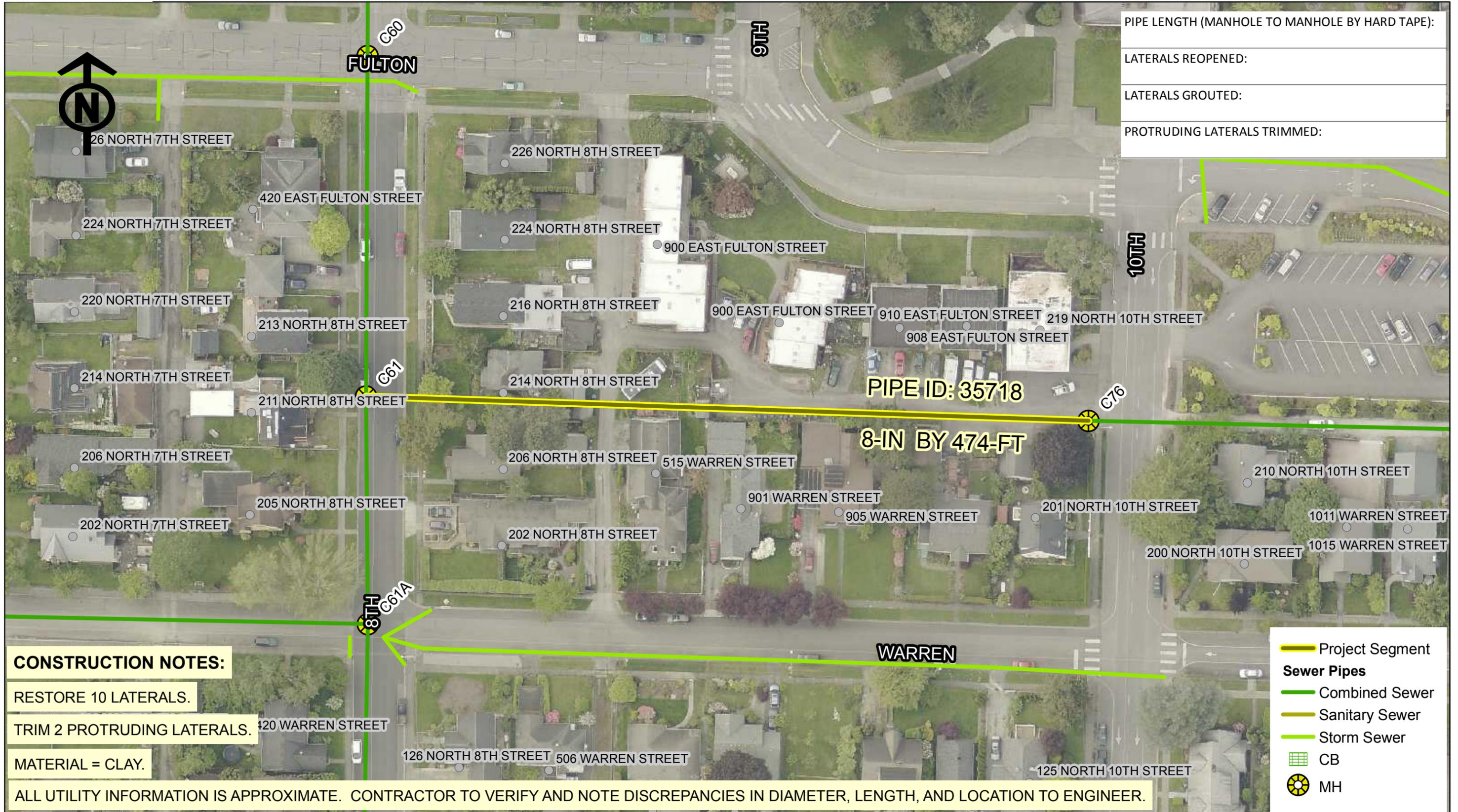


PipeID#: **36022**

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Project #SS-2018-003: 2018 Sewer Lining

(Note: This map set supercedes all previous versions)



PipeID#: **35718**

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PIPE LENGTH (MANHOLE TO MANHOLE BY HARD TAPE):
LATERALS REOPENED:
LATERALS GROUTED:
PROTRUDING LATERALS TRIMMED:

CONSTRUCTION NOTES:

RESTORE 10 LATERALS.

TRIM 1 PROTRUDING LATERALS.

MATERIAL = CLAY.

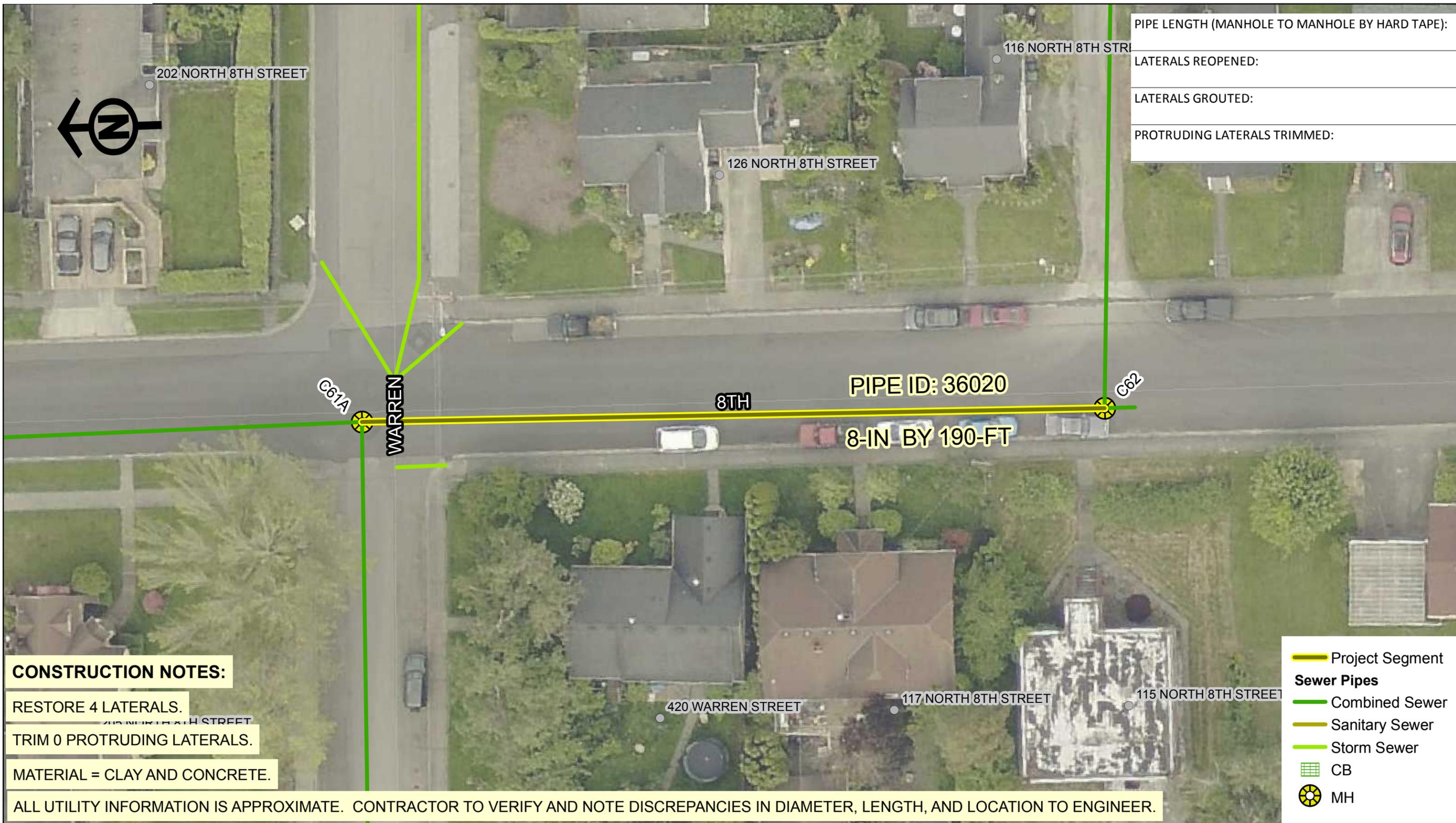
ALL UTILITY INFORMATION IS APPROXIMATE. CONTRACTOR TO VERIFY AND NOTE DISCREPANCIES IN DIAMETER, LENGTH, AND LOCATION TO ENGINEER.

- Project Segment
- Sewer Pipes**
- Combined Sewer
- Sanitary Sewer
- Storm Sewer
- CB
- MH



PipeID#: **35719**

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PIPE LENGTH (MANHOLE TO MANHOLE BY HARD TAPE):
LATERALS REOPENED:
LATERALS GROUTED:
PROTRUDING LATERALS TRIMMED:

CONSTRUCTION NOTES:

RESTORE 4 LATERALS.

TRIM 0 PROTRUDING LATERALS.

MATERIAL = CLAY AND CONCRETE.

ALL UTILITY INFORMATION IS APPROXIMATE. CONTRACTOR TO VERIFY AND NOTE DISCREPANCIES IN DIAMETER, LENGTH, AND LOCATION TO ENGINEER.

- Project Segment
- Sewer Pipes**
- Combined Sewer
- Sanitary Sewer
- Storm Sewer
- CB
- MH



PipeID#: **36020**

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Project #SS-2018-003: 2018 Sewer Lining

(Note: This map set supercedes all previous versions)

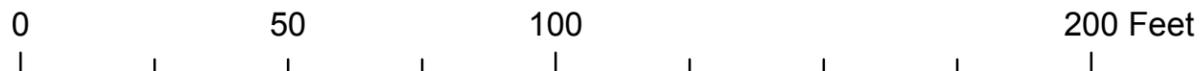


PipeID#: 35720

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Project #SS-2018-003: 2018 Sewer Lining

(Note: This map set supercedes all previous versions)



PipeID#: **36017**

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Project #SS-2018-003: 2018 Sewer Lining

(Note: This map set supercedes all previous versions)

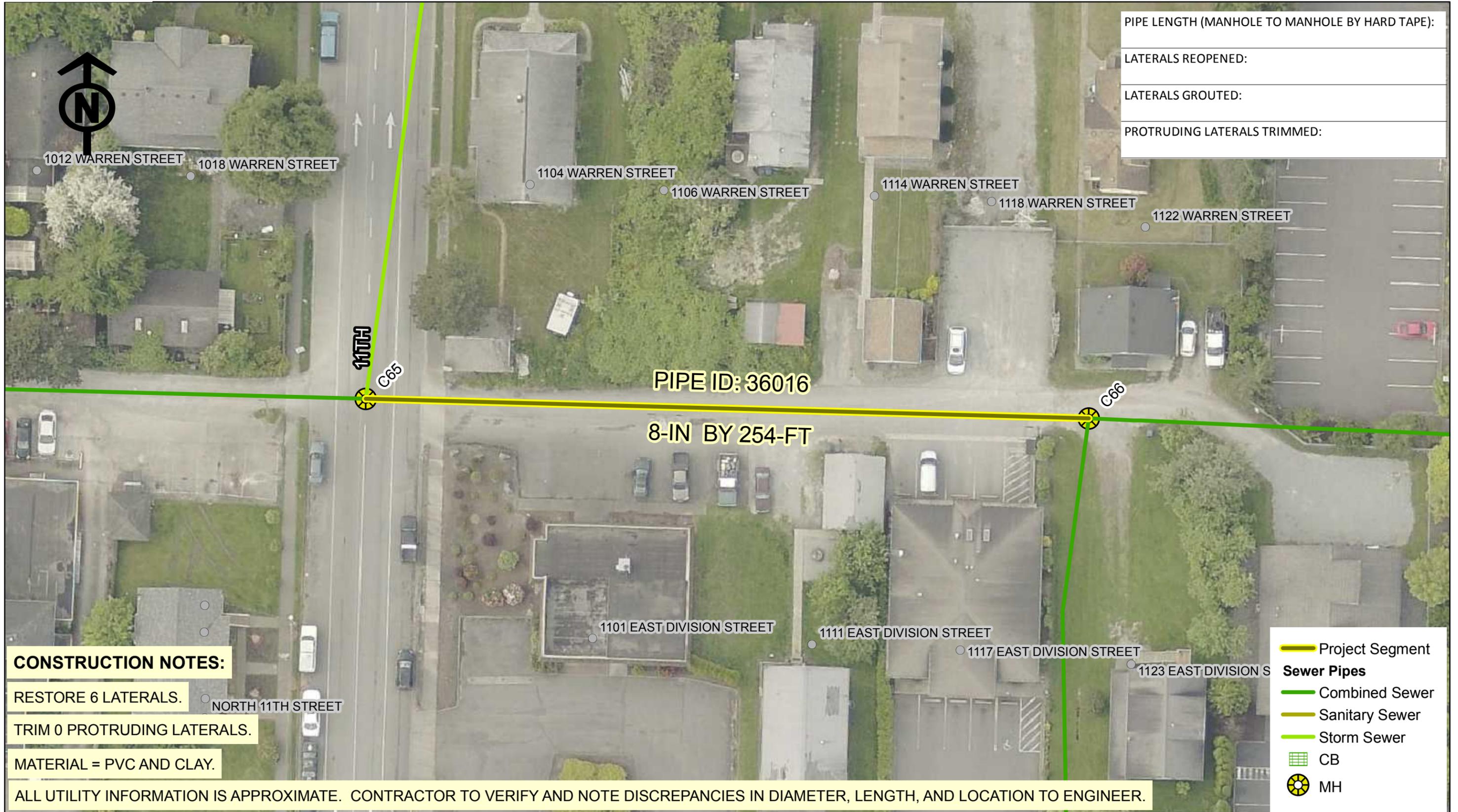


PipeID#: 35962

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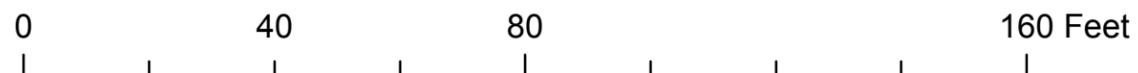
Project #SS-2018-003: 2018 Sewer Lining

(Note: This map set supercedes all previous versions)



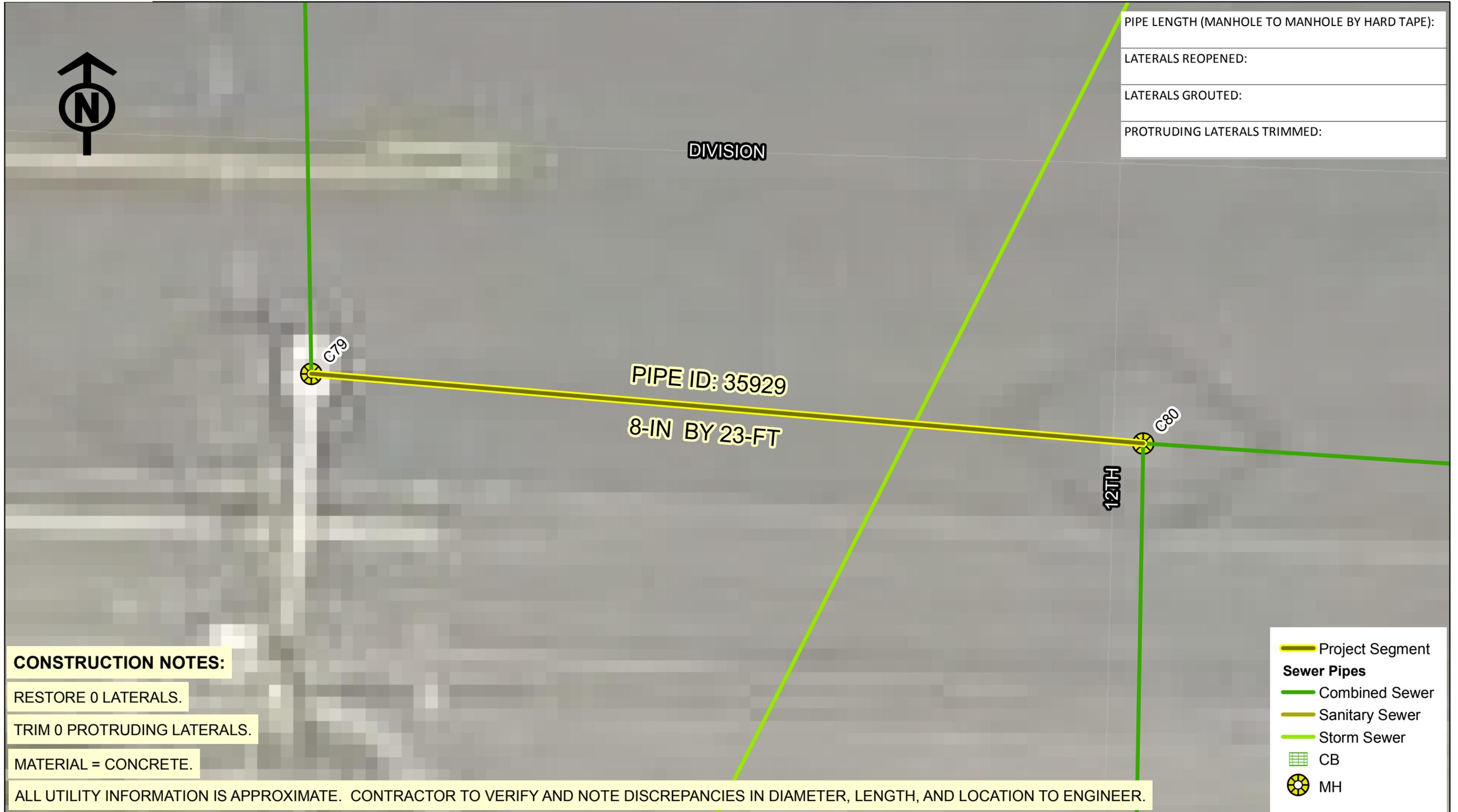
PipeID#: 36016

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PipeID#: **36015**

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PipeID#: **35929**

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Project #SS-2018-003: 2018 Sewer Lining

(Note: This map set supercedes all previous versions)



PIPE LENGTH (MANHOLE TO MANHOLE BY HARD TAPE):
LATERALS REOPENED:
LATERALS GROUTED:
PROTRUDING LATERALS TRIMMED:

CONSTRUCTION NOTES:

RESTORE 3 LATERALS.

TRIM 0 PROTRUDING LATERALS.

MATERIAL = CONCRETE AND PVC.

ALL UTILITY INFORMATION IS APPROXIMATE. CONTRACTOR TO VERIFY AND NOTE DISCREPANCIES IN DIAMETER, LENGTH, AND LOCATION TO ENGINEER.

Project Segment

Sewer Pipes

- Combined Sewer
- Sanitary Sewer
- Storm Sewer
- CB
- X MH



PipeID#: **36014**

The City of Mount Vernon does not warrant, guarantee, or accept any liability for the accuracy, precision, or completeness of any information shown or described herein or for any inferences made therefrom. Any use made of this information is solely at the risk of the user.



PIPE LENGTH (MANHOLE TO MANHOLE BY HARD TAPE):
LATERALS REOPENED:
LATERALS GROUTED:
PROTRUDING LATERALS TRIMMED:

CONSTRUCTION NOTES:

RESTORE 5 LATERALS.

TRIM 0 PROTRUDING LATERALS.

MATERIAL = CONCRETE.

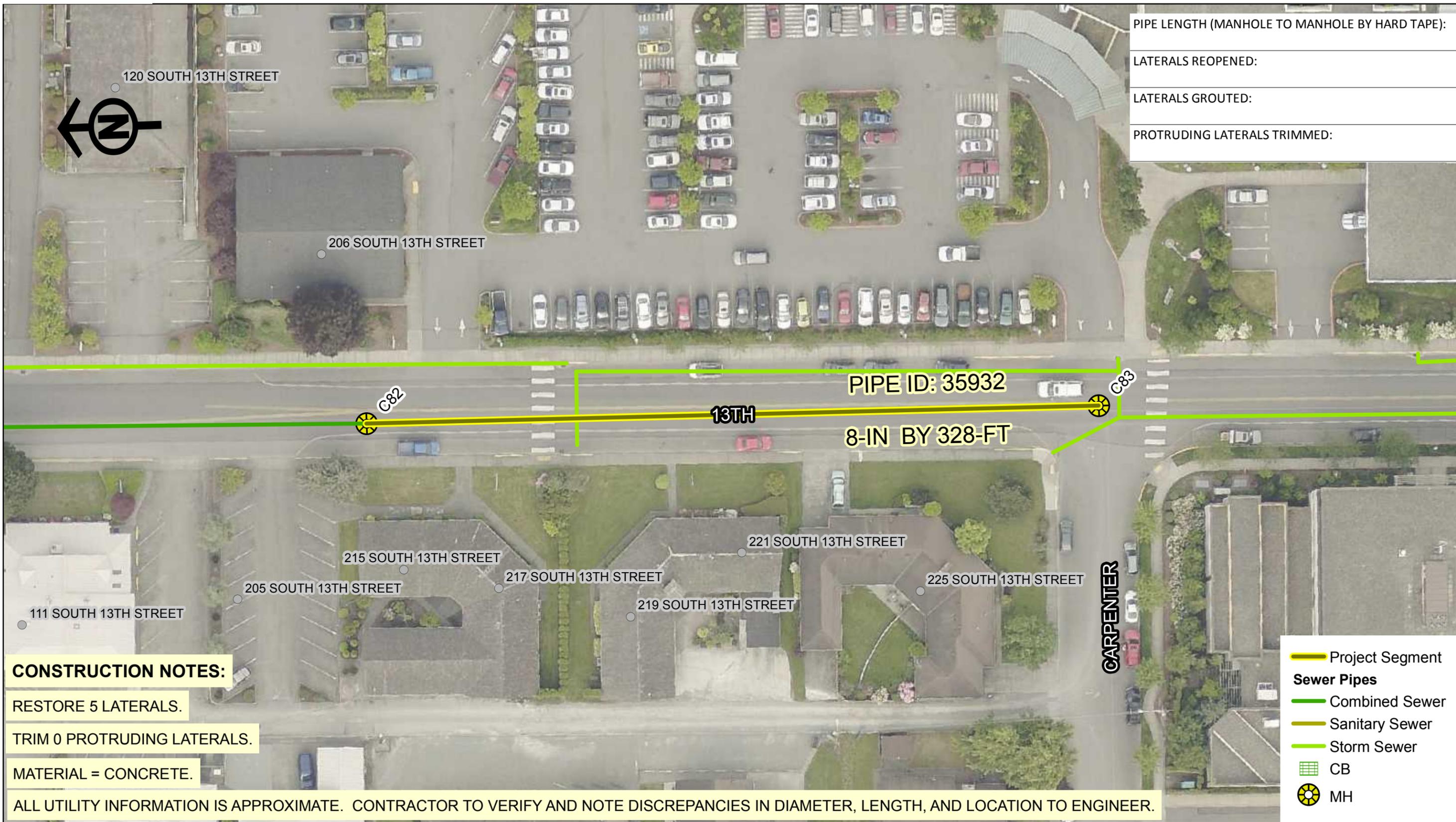
ALL UTILITY INFORMATION IS APPROXIMATE. CONTRACTOR TO VERIFY AND NOTE DISCREPANCIES IN DIAMETER, LENGTH, AND LOCATION TO ENGINEER.

- Project Segment
- Sewer Pipes**
- Combined Sewer
- Sanitary Sewer
- Storm Sewer
- CB
- MH



PipeID#: **35928**

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PIPE LENGTH (MANHOLE TO MANHOLE BY HARD TAPE):
LATERALS REOPENED:
LATERALS GROUTED:
PROTRUDING LATERALS TRIMMED:

CONSTRUCTION NOTES:

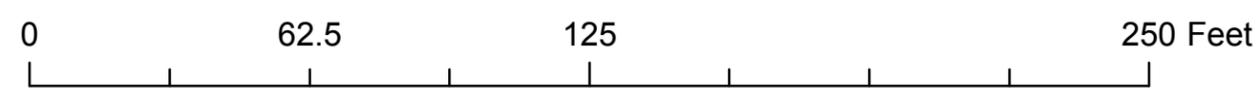
- RESTORE 5 LATERALS.
- TRIM 0 PROTRUDING LATERALS.
- MATERIAL = CONCRETE.

ALL UTILITY INFORMATION IS APPROXIMATE. CONTRACTOR TO VERIFY AND NOTE DISCREPANCIES IN DIAMETER, LENGTH, AND LOCATION TO ENGINEER.

Project Segment

Sewer Pipes

- Combined Sewer
- Sanitary Sewer
- Storm Sewer
- CB
- MH



PipeID#: **35932**

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WAGE INFORMATION

State of Washington
Department of Labor & Industries
Prevailing Wage Section - Telephone 360-902-5335
PO Box 44540, Olympia, WA 98504-4540

Washington State Prevailing Wage

The PREVAILING WAGES listed here include both the hourly wage rate and the hourly rate of fringe benefits. On public works projects, worker's wage and benefit rates must add to not less than this total. A brief description of overtime calculation requirements are provided on the Benefit Code Key.

Journey Level Prevailing Wage Rates for the Effective Date: 6/29/2018

<u>County</u>	<u>Trade</u>	<u>Job Classification</u>	<u>Wage</u>	<u>Holiday</u>	<u>Overtime</u>	<u>Note</u>
Skagit	Asbestos Abatement Workers	Journey Level	\$46.57	<u>5D</u>	<u>1H</u>	
Skagit	Boilermakers	Journey Level	\$66.54	<u>5N</u>	<u>1C</u>	
Skagit	Brick Mason	Journey Level	\$55.82	<u>5A</u>	<u>1M</u>	
Skagit	Brick Mason	Pointer-Caulker-Cleaner	\$55.82	<u>5A</u>	<u>1M</u>	
Skagit	Building Service Employees	Janitor	\$11.50		<u>1</u>	
Skagit	Building Service Employees	Shampooer	\$11.50		<u>1</u>	
Skagit	Building Service Employees	Waxer	\$11.50		<u>1</u>	
Skagit	Building Service Employees	Window Cleaner	\$11.50		<u>1</u>	
Skagit	Cabinet Makers (In Shop)	Journey Level	\$18.85		<u>1</u>	
Skagit	Carpenters	Acoustical Worker	\$57.18	<u>5D</u>	<u>4C</u>	
Skagit	Carpenters	Bridge, Dock And Wharf Carpenters	\$57.18	<u>5D</u>	<u>4C</u>	
Skagit	Carpenters	Carpenter	\$57.18	<u>5D</u>	<u>4C</u>	
Skagit	Carpenters	Carpenters on Stationary Tools	\$57.31	<u>5D</u>	<u>4C</u>	
Skagit	Carpenters	Creosoted Material	\$57.28	<u>5D</u>	<u>4C</u>	
Skagit	Carpenters	Floor Finisher	\$57.18	<u>5D</u>	<u>4C</u>	
Skagit	Carpenters	Floor Layer	\$57.18	<u>5D</u>	<u>4C</u>	
Skagit	Carpenters	Scaffold Erector	\$57.18	<u>5D</u>	<u>4C</u>	
Skagit	Cement Masons	Journey Level	\$57.21	<u>7A</u>	<u>1M</u>	
Skagit	Divers & Tenders	Bell/Vehicle or Submersible Operator (Not Under Pressure)	\$110.54	<u>5D</u>	<u>4C</u>	
Skagit	Divers & Tenders	Dive Supervisor/Master	\$72.97	<u>5D</u>	<u>4C</u>	
Skagit	Divers & Tenders	Diver	\$110.54	<u>5D</u>	<u>4C</u>	<u>8V</u>
Skagit	Divers & Tenders	Diver On Standby	\$67.97	<u>5D</u>	<u>4C</u>	
Skagit	Divers & Tenders	Diver Tender	\$61.65	<u>5D</u>	<u>4C</u>	
Skagit	Divers & Tenders	Manifold Operator	\$61.65	<u>5D</u>	<u>4C</u>	
Skagit	Divers & Tenders	Manifold Operator Mixed Gas	\$66.65	<u>5D</u>	<u>4C</u>	
Skagit	Divers & Tenders	Remote Operated Vehicle Operator/Technician	\$61.65	<u>5D</u>	<u>4C</u>	
Skagit	Divers & Tenders	Remote Operated Vehicle Tender	\$57.43	<u>5A</u>	<u>4C</u>	
Skagit	Dredge Workers	Assistant Engineer	\$56.44	<u>5D</u>	<u>3F</u>	
Skagit	Dredge Workers	Assistant Mate (Deckhand)	\$56.00	<u>5D</u>	<u>3F</u>	

Skagit	Dredge Workers	Boatmen	\$56.44	<u>5D</u>	<u>3F</u>	
Skagit	Dredge Workers	Engineer Welder	\$57.51	<u>5D</u>	<u>3F</u>	
Skagit	Dredge Workers	Leverman, Hydraulic	\$58.67	<u>5D</u>	<u>3F</u>	
Skagit	Dredge Workers	Mates	\$56.44	<u>5D</u>	<u>3F</u>	
Skagit	Dredge Workers	Oiler	\$56.00	<u>5D</u>	<u>3F</u>	
Skagit	Drywall Applicator	Journey Level	\$56.78	<u>5D</u>	<u>1H</u>	
Skagit	Drywall Tapers	Journey Level	\$57.43	<u>5P</u>	<u>1E</u>	
Skagit	Electrical Fixture Maintenance Workers	Journey Level	\$21.48		<u>1</u>	
Skagit	Electricians - Inside	Cable Splicer	\$68.09	<u>7H</u>	<u>1E</u>	
Skagit	Electricians - Inside	Construction Stock Person	\$33.86	<u>7H</u>	<u>1D</u>	
Skagit	Electricians - Inside	Journey Level	\$63.51	<u>7H</u>	<u>1E</u>	
Skagit	Electricians - Motor Shop	Craftsman	\$15.37		<u>1</u>	
Skagit	Electricians - Motor Shop	Journey Level	\$14.69		<u>1</u>	
Skagit	Electricians - Powerline Construction	Cable Splicer	\$79.43	<u>5A</u>	<u>4D</u>	
Skagit	Electricians - Powerline Construction	Certified Line Welder	\$69.75	<u>5A</u>	<u>4D</u>	
Skagit	Electricians - Powerline Construction	Groundperson	\$46.28	<u>5A</u>	<u>4D</u>	
Skagit	Electricians - Powerline Construction	Heavy Line Equipment Operator	\$69.75	<u>5A</u>	<u>4D</u>	
Skagit	Electricians - Powerline Construction	Journey Level Lineperson	\$69.75	<u>5A</u>	<u>4D</u>	
Skagit	Electricians - Powerline Construction	Line Equipment Operator	\$59.01	<u>5A</u>	<u>4D</u>	
Skagit	Electricians - Powerline Construction	Meter Installer	\$46.28	<u>5A</u>	<u>4D</u>	<u>8W</u>
Skagit	Electricians - Powerline Construction	Pole Sprayer	\$69.75	<u>5A</u>	<u>4D</u>	
Skagit	Electricians - Powerline Construction	Powderperson	\$52.20	<u>5A</u>	<u>4D</u>	
Skagit	Electronic Technicians	Electronic Technicians Journey Level	\$38.81	<u>5B</u>	<u>1B</u>	
Skagit	Elevator Constructors	Mechanic	\$91.24	<u>7D</u>	<u>4A</u>	
Skagit	Elevator Constructors	Mechanic In Charge	\$98.51	<u>7D</u>	<u>4A</u>	
Skagit	Fabricated Precast Concrete Products	Journey Level - In-Factory Work Only	\$13.50		<u>1</u>	
Skagit	Fence Erectors	Fence Erector	\$12.00		<u>1</u>	
Skagit	Flaggers	Journey Level	\$39.48	<u>7A</u>	<u>3I</u>	
Skagit	Glaziers	Journey Level	\$61.81	<u>7L</u>	<u>1Y</u>	
Skagit	Heat & Frost Insulators And Asbestos Workers	Journeyman	\$67.93	<u>5J</u>	<u>4H</u>	
Skagit	Heating Equipment Mechanics	Mechanic	\$62.96	<u>7F</u>	<u>1E</u>	
Skagit	Hod Carriers & Mason Tenders	Journey Level	\$48.02	<u>7A</u>	<u>3I</u>	
Skagit	Industrial Power Vacuum Cleaner	Journey Level	\$11.50		<u>1</u>	
Skagit	Inland Boatmen	Boat Operator	\$61.41	<u>5B</u>	<u>1K</u>	
Skagit	Inland Boatmen	Cook	\$56.48	<u>5B</u>	<u>1K</u>	
Skagit	Inland Boatmen	Deckhand	\$57.48	<u>5B</u>	<u>1K</u>	

Skagit	Inland Boatmen	Deckhand Engineer	\$58.81	<u>5B</u>	<u>1K</u>	
Skagit	Inland Boatmen	Launch Operator	\$58.89	<u>5B</u>	<u>1K</u>	
Skagit	Inland Boatmen	Mate	\$57.31	<u>5B</u>	<u>1K</u>	
Skagit	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Cleaner Operator, Foamer Operator	\$11.50		<u>1</u>	
Skagit	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Grout Truck Operator	\$11.50		<u>1</u>	
Skagit	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Head Operator	\$12.78		<u>1</u>	
Skagit	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Technician	\$11.50		<u>1</u>	
Skagit	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Tv Truck Operator	\$11.50		<u>1</u>	
Skagit	Insulation Applicators	Journey Level	\$57.18	<u>5D</u>	<u>4C</u>	
Skagit	Ironworkers	Journeyman	\$67.88	<u>7N</u>	<u>1O</u>	
Skagit	Laborers	Air, Gas Or Electric Vibrating Screed	\$46.57	<u>7A</u>	<u>3I</u>	
Skagit	Laborers	Airtrac Drill Operator	\$48.02	<u>7A</u>	<u>3I</u>	
Skagit	Laborers	Ballast Regular Machine	\$46.57	<u>7A</u>	<u>3I</u>	
Skagit	Laborers	Batch Weighman	\$39.48	<u>7A</u>	<u>3I</u>	
Skagit	Laborers	Brick Pavers	\$46.57	<u>7A</u>	<u>3I</u>	
Skagit	Laborers	Brush Cutter	\$46.57	<u>7A</u>	<u>3I</u>	
Skagit	Laborers	Brush Hog Feeder	\$46.57	<u>7A</u>	<u>3I</u>	
Skagit	Laborers	Burner	\$46.57	<u>7A</u>	<u>3I</u>	
Skagit	Laborers	Caisson Worker	\$48.02	<u>7A</u>	<u>3I</u>	
Skagit	Laborers	Carpenter Tender	\$46.57	<u>7A</u>	<u>3I</u>	
Skagit	Laborers	Caulker	\$46.57	<u>7A</u>	<u>3I</u>	
Skagit	Laborers	Cement Dumper-paving	\$47.44	<u>7A</u>	<u>3I</u>	
Skagit	Laborers	Cement Finisher Tender	\$46.57	<u>7A</u>	<u>3I</u>	
Skagit	Laborers	Change House Or Dry Shack	\$46.57	<u>7A</u>	<u>3I</u>	
Skagit	Laborers	Chipping Gun (under 30 Lbs.)	\$46.57	<u>7A</u>	<u>3I</u>	
Skagit	Laborers	Chipping Gun(30 Lbs. And Over)	\$47.44	<u>7A</u>	<u>3I</u>	
Skagit	Laborers	Choker Setter	\$46.57	<u>7A</u>	<u>3I</u>	
Skagit	Laborers	Chuck Tender	\$46.57	<u>7A</u>	<u>3I</u>	
Skagit	Laborers	Clary Power Spreader	\$47.44	<u>7A</u>	<u>3I</u>	
Skagit	Laborers	Clean-up Laborer	\$46.57	<u>7A</u>	<u>3I</u>	
Skagit	Laborers	Concrete Dumper/chute Operator	\$47.44	<u>7A</u>	<u>3I</u>	
Skagit	Laborers	Concrete Form Stripper	\$46.57	<u>7A</u>	<u>3I</u>	
Skagit	Laborers	Concrete Placement Crew	\$47.44	<u>7A</u>	<u>3I</u>	
Skagit	Laborers	Concrete Saw Operator/core Driller	\$47.44	<u>7A</u>	<u>3I</u>	
Skagit	Laborers	Crusher Feeder	\$39.48	<u>7A</u>	<u>3I</u>	
Skagit	Laborers	Curing Laborer	\$46.57	<u>7A</u>	<u>3I</u>	
Skagit	Laborers	Demolition: Wrecking & Moving (incl. Charred Material)	\$46.57	<u>7A</u>	<u>3I</u>	

Skagit	Laborers	Ditch Digger	\$46.57	<u>7A</u>	<u>3I</u>
Skagit	Laborers	Diver	\$48.02	<u>7A</u>	<u>3I</u>
Skagit	Laborers	Drill Operator (hydraulic, diamond)	\$47.44	<u>7A</u>	<u>3I</u>
Skagit	Laborers	Dry Stack Walls	\$46.57	<u>7A</u>	<u>3I</u>
Skagit	Laborers	Dump Person	\$46.57	<u>7A</u>	<u>3I</u>
Skagit	Laborers	Epoxy Technician	\$46.57	<u>7A</u>	<u>3I</u>
Skagit	Laborers	Erosion Control Worker	\$46.57	<u>7A</u>	<u>3I</u>
Skagit	Laborers	Faller & Bucker Chain Saw	\$47.44	<u>7A</u>	<u>3I</u>
Skagit	Laborers	Fine Graders	\$46.57	<u>7A</u>	<u>3I</u>
Skagit	Laborers	Firewatch	\$39.48	<u>7A</u>	<u>3I</u>
Skagit	Laborers	Form Setter	\$46.57	<u>7A</u>	<u>3I</u>
Skagit	Laborers	Gabian Basket Builders	\$46.57	<u>7A</u>	<u>3I</u>
Skagit	Laborers	General Laborer	\$46.57	<u>7A</u>	<u>3I</u>
Skagit	Laborers	Grade Checker & Transit Person	\$48.02	<u>7A</u>	<u>3I</u>
Skagit	Laborers	Grinders	\$46.57	<u>7A</u>	<u>3I</u>
Skagit	Laborers	Grout Machine Tender	\$46.57	<u>7A</u>	<u>3I</u>
Skagit	Laborers	Groutmen (pressure)including Post Tension Beams	\$47.44	<u>7A</u>	<u>3I</u>
Skagit	Laborers	Guardrail Erector	\$46.57	<u>7A</u>	<u>3I</u>
Skagit	Laborers	Hazardous Waste Worker (level A)	\$48.02	<u>7A</u>	<u>3I</u>
Skagit	Laborers	Hazardous Waste Worker (level B)	\$47.44	<u>7A</u>	<u>3I</u>
Skagit	Laborers	Hazardous Waste Worker (level C)	\$46.57	<u>7A</u>	<u>3I</u>
Skagit	Laborers	High Scaler	\$48.02	<u>7A</u>	<u>3I</u>
Skagit	Laborers	Jackhammer	\$47.44	<u>7A</u>	<u>3I</u>
Skagit	Laborers	Laserbeam Operator	\$47.44	<u>7A</u>	<u>3I</u>
Skagit	Laborers	Maintenance Person	\$46.57	<u>7A</u>	<u>3I</u>
Skagit	Laborers	Manhole Builder-mudman	\$47.44	<u>7A</u>	<u>3I</u>
Skagit	Laborers	Material Yard Person	\$46.57	<u>7A</u>	<u>3I</u>
Skagit	Laborers	Motorman-dinky Locomotive	\$47.44	<u>7A</u>	<u>3I</u>
Skagit	Laborers	Nozzleman (concrete Pump, Green Cutter When Using Combination Of High Pressure Air & Water On Concrete & Rock, Sandblast, Gunite, Shotcrete, Water Bla	\$47.44	<u>7A</u>	<u>3I</u>
Skagit	Laborers	Pavement Breaker	\$47.44	<u>7A</u>	<u>3I</u>
Skagit	Laborers	Pilot Car	\$39.48	<u>7A</u>	<u>3I</u>
Skagit	Laborers	Pipe Layer Lead	\$48.02	<u>7A</u>	<u>3I</u>
Skagit	Laborers	Pipe Layer/tailor	\$47.44	<u>7A</u>	<u>3I</u>
Skagit	Laborers	Pipe Pot Tender	\$47.44	<u>7A</u>	<u>3I</u>
Skagit	Laborers	Pipe Reliner	\$47.44	<u>7A</u>	<u>3I</u>
Skagit	Laborers	Pipe Wrapper	\$47.44	<u>7A</u>	<u>3I</u>
Skagit	Laborers	Pot Tender	\$46.57	<u>7A</u>	<u>3I</u>
Skagit	Laborers	Powderman	\$48.02	<u>7A</u>	<u>3I</u>
Skagit	Laborers	Powderman's Helper	\$46.57	<u>7A</u>	<u>3I</u>
Skagit	Laborers	Power Jacks	\$47.44	<u>7A</u>	<u>3I</u>
Skagit	Laborers	Railroad Spike Puller - Power	\$47.44	<u>7A</u>	<u>3I</u>

Skagit	Laborers	Raker - Asphalt	\$48.02	<u>7A</u>	<u>3I</u>	
Skagit	Laborers	Re-timberman	\$48.02	<u>7A</u>	<u>3I</u>	
Skagit	Laborers	Remote Equipment Operator	\$47.44	<u>7A</u>	<u>3I</u>	
Skagit	Laborers	Rigger/signal Person	\$47.44	<u>7A</u>	<u>3I</u>	
Skagit	Laborers	Rip Rap Person	\$46.57	<u>7A</u>	<u>3I</u>	
Skagit	Laborers	Rivet Buster	\$47.44	<u>7A</u>	<u>3I</u>	
Skagit	Laborers	Rodder	\$47.44	<u>7A</u>	<u>3I</u>	
Skagit	Laborers	Scaffold Erector	\$46.57	<u>7A</u>	<u>3I</u>	
Skagit	Laborers	Scale Person	\$46.57	<u>7A</u>	<u>3I</u>	
Skagit	Laborers	Sloper (over 20")	\$47.44	<u>7A</u>	<u>3I</u>	
Skagit	Laborers	Sloper Sprayer	\$46.57	<u>7A</u>	<u>3I</u>	
Skagit	Laborers	Spreader (concrete)	\$47.44	<u>7A</u>	<u>3I</u>	
Skagit	Laborers	Stake Hopper	\$46.57	<u>7A</u>	<u>3I</u>	
Skagit	Laborers	Stock Piler	\$46.57	<u>7A</u>	<u>3I</u>	
Skagit	Laborers	Tamper & Similar Electric, Air & Gas Operated Tools	\$47.44	<u>7A</u>	<u>3I</u>	
Skagit	Laborers	Tamper (multiple & Self-propelled)	\$47.44	<u>7A</u>	<u>3I</u>	
Skagit	Laborers	Timber Person - Sewer (logger, Shorer & Cribber)	\$47.44	<u>7A</u>	<u>3I</u>	
Skagit	Laborers	Toolroom Person (at Jobsite)	\$46.57	<u>7A</u>	<u>3I</u>	
Skagit	Laborers	Topper	\$46.57	<u>7A</u>	<u>3I</u>	
Skagit	Laborers	Track Laborer	\$46.57	<u>7A</u>	<u>3I</u>	
Skagit	Laborers	Track Liner (power)	\$47.44	<u>7A</u>	<u>3I</u>	
Skagit	Laborers	Traffic Control Laborer	\$42.22	<u>7A</u>	<u>3I</u>	<u>8R</u>
Skagit	Laborers	Traffic Control Supervisor	\$42.22	<u>7A</u>	<u>3I</u>	<u>8R</u>
Skagit	Laborers	Truck Spotter	\$46.57	<u>7A</u>	<u>3I</u>	
Skagit	Laborers	Tugger Operator	\$47.44	<u>7A</u>	<u>3I</u>	
Skagit	Laborers	Tunnel Work-Compressed Air Worker 0-30 psi	\$92.60	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Skagit	Laborers	Tunnel Work-Compressed Air Worker 30.01-44.00 psi	\$97.63	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Skagit	Laborers	Tunnel Work-Compressed Air Worker 44.01-54.00 psi	\$101.31	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Skagit	Laborers	Tunnel Work-Compressed Air Worker 54.01-60.00 psi	\$107.01	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Skagit	Laborers	Tunnel Work-Compressed Air Worker 60.01-64.00 psi	\$109.13	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Skagit	Laborers	Tunnel Work-Compressed Air Worker 64.01-68.00 psi	\$114.23	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Skagit	Laborers	Tunnel Work-Compressed Air Worker 68.01-70.00 psi	\$116.13	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Skagit	Laborers	Tunnel Work-Compressed Air Worker 70.01-72.00 psi	\$118.13	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Skagit	Laborers	Tunnel Work-Compressed Air Worker 72.01-74.00 psi	\$120.13	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Skagit	Laborers	Tunnel Work-Guage and Lock Tender	\$48.12	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Skagit	Laborers	Tunnel Work-Miner	\$48.12	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Skagit	Laborers	Vibrator	\$47.44	<u>7A</u>	<u>3I</u>	

Skagit	Laborers	Vinyl Seamer	\$46.57	<u>7A</u>	<u>3I</u>	
Skagit	Laborers	Watchman	\$35.88	<u>7A</u>	<u>3I</u>	
Skagit	Laborers	Welder	\$47.44	<u>7A</u>	<u>3I</u>	
Skagit	Laborers	Well Point Laborer	\$47.44	<u>7A</u>	<u>3I</u>	
Skagit	Laborers	Window Washer/cleaner	\$35.88	<u>7A</u>	<u>3I</u>	
Skagit	Laborers - Underground Sewer & Water	General Laborer & Topman	\$46.57	<u>7A</u>	<u>3I</u>	
Skagit	Laborers - Underground Sewer & Water	Pipe Layer	\$47.44	<u>7A</u>	<u>3I</u>	
Skagit	Landscape Construction	Irrigation Or Lawn Sprinkler Installers	\$14.15		<u>1</u>	
Skagit	Landscape Construction	Landscape Equipment Operators Or Truck Drivers	\$14.15		<u>1</u>	
Skagit	Landscape Construction	Landscaping or Planting Laborers	\$14.18		<u>1</u>	
Skagit	Lathers	Journey Level	\$56.78	<u>5D</u>	<u>1H</u>	
Skagit	Marble Setters	Journey Level	\$55.82	<u>5A</u>	<u>1M</u>	
Skagit	Metal Fabrication (In Shop)	Fitter	\$15.16		<u>1</u>	
Skagit	Metal Fabrication (In Shop)	Laborer	\$11.50		<u>1</u>	
Skagit	Metal Fabrication (In Shop)	Machine Operator	\$11.50		<u>1</u>	
Skagit	Metal Fabrication (In Shop)	Painter	\$11.50		<u>1</u>	
Skagit	Metal Fabrication (In Shop)	Welder	\$15.16		<u>1</u>	
Skagit	Millwright	Journey Level	\$38.36		<u>1</u>	
Skagit	Modular Buildings	Journey Level	\$11.50		<u>1</u>	
Skagit	Painters	Journey Level	\$41.60	<u>6Z</u>	<u>2B</u>	
Skagit	Pile Driver	Crew Tender	\$52.37	<u>5D</u>	<u>4C</u>	
Skagit	Pile Driver	Hyperbaric Worker - Compressed Air Worker 0-30.00 PSI	\$71.35	<u>5D</u>	<u>4C</u>	
Skagit	Pile Driver	Hyperbaric Worker - Compressed Air Worker 30.01 - 44.00 PSI	\$76.35	<u>5D</u>	<u>4C</u>	
Skagit	Pile Driver	Hyperbaric Worker - Compressed Air Worker 44.01 - 54.00 PSI	\$80.35	<u>5D</u>	<u>4C</u>	
Skagit	Pile Driver	Hyperbaric Worker - Compressed Air Worker 54.01 - 60.00 PSI	\$85.35	<u>5D</u>	<u>4C</u>	
Skagit	Pile Driver	Hyperbaric Worker - Compressed Air Worker 60.01 - 64.00 PSI	\$87.85	<u>5D</u>	<u>4C</u>	
Skagit	Pile Driver	Hyperbaric Worker - Compressed Air Worker 64.01 - 68.00 PSI	\$92.85	<u>5D</u>	<u>4C</u>	
Skagit	Pile Driver	Hyperbaric Worker - Compressed Air Worker 68.01 - 70.00 PSI	\$94.85	<u>5D</u>	<u>4C</u>	
Skagit	Pile Driver	Hyperbaric Worker - Compressed Air Worker 70.01 - 72.00 PSI	\$96.85	<u>5D</u>	<u>4C</u>	
Skagit	Pile Driver	Hyperbaric Worker - Compressed Air Worker 72.01 - 74.00 PSI	\$98.85	<u>5D</u>	<u>4C</u>	
Skagit	Pile Driver	Journey Level	\$57.43	<u>5D</u>	<u>4C</u>	
Skagit	Plasterers	Journey Level	\$54.89	<u>7Q</u>	<u>1R</u>	
Skagit	Playground & Park Equipment Installers	Journey Level	\$11.50		<u>1</u>	
Skagit	Plumbers & Pipefitters	Journey Level	\$67.47	<u>5A</u>	<u>1G</u>	
Skagit	Power Equipment Operators	Asphalt Plant Operators	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Assistant Engineer	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>

Skagit	Power Equipment Operators	Barrier Machine (zipper)	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Batch Plant Operator, Concrete	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Bobcat	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Brokk - Remote Demolition Equipment	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Brooms	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Bump Cutter	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Cableways	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Chipper	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Compressor	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Concrete Pump: Truck Mount With Boom Attachment Over 42 M	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Concrete Finish Machine -laser Screed	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure.	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Conveyors	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Cranes Friction: 200 tons and over	\$62.33	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Cranes: 20 Tons Through 44 Tons With Attachments	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Cranes: 100 Tons Through 199 Tons, Or 150' Of Boom (Including Jib With Attachments)	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Cranes: 200 tons- 299 tons, or 250' of boom including jib with attachments	\$61.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Cranes: 300 tons and over or 300' of boom including jib with attachments	\$62.33	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Cranes: 45 Tons Through 99 Tons, Under 150' Of Boom (including Jib With Attachments)	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Cranes: A-frame - 10 Tons And Under	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Cranes: Friction cranes through 199 tons	\$61.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Cranes: Through 19 Tons With Attachments A-frame Over 10 Tons	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Crusher	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Deck Engineer/deck Winches (power)	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Derricks, On Building Work	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Dozers D-9 & Under	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Drill Oilers: Auger Type, Truck Or Crane Mount	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Drilling Machine	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>

Skagit	Power Equipment Operators	Elevator And Man-lift: Permanent And Shaft Type	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Finishing Machine, Bidwell And Gamaco & Similar Equipment	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Forklift: 3000 Lbs And Over With Attachments	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Forklifts: Under 3000 Lbs. With Attachments	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Grade Engineer: Using Blue Prints, Cut Sheets, Etc	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Gradechecker/stakeman	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Guardrail Punch	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Horizontal/directional Drill Locator	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Horizontal/directional Drill Operator	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Hydralifts/boom Trucks Over 10 Tons	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Hydralifts/boom Trucks, 10 Tons And Under	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Loader, Overhead 8 Yards. & Over	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Loader, Overhead, 6 Yards. But Not Including 8 Yards	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Loaders, Overhead Under 6 Yards	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Loaders, Plant Feed	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Loaders: Elevating Type Belt	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Locomotives, All	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Material Transfer Device	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Mechanics, All (leadmen - \$0.50 Per Hour Over Mechanic)	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Motor Patrol Graders	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Oil Distributors, Blower Distribution & Mulch Seeding Operator	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Outside Hoists (elevators And Manlifts), Air Tuggers, strato	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Overhead, Bridge Type Crane: 20 Tons Through 44 Tons	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Overhead, Bridge Type: 100 Tons And Over	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Overhead, Bridge Type: 45 Tons Through 99 Tons	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Pavement Breaker	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>

Skagit	Power Equipment Operators	Pile Driver (other Than Crane Mount)	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Plant Oiler - Asphalt, Crusher	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Posthole Digger, Mechanical	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Power Plant	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Pumps - Water	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Quad 9, Hd 41, D10 And Over	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Quick Tower - No Cab, Under 100 Feet In Height Based To Boom	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Remote Control Operator On Rubber Tired Earth Moving Equipment	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Rigger And Bellman	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Rigger/Signal Person, Bellman (Certified)	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Rollagon	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Roller, Other Than Plant Mix	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Roller, Plant Mix Or Multi-lift Materials	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Roto-mill, Roto-grinder	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Saws - Concrete	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Scraper, Self Propelled Under 45 Yards	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Scrapers - Concrete & Carry All	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Scrapers, Self-propelled: 45 Yards And Over	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Service Engineers - Equipment	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Shotcrete/gunite Equipment	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Shovel , Excavator, Backhoe, Tractors Under 15 Metric Tons.	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Shovel, Excavator, Backhoes: Over 90 Metric Tons	\$61.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Slipform Pavers	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Spreader, Topsider & Screedman	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Subgrader Trimmer	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Tower Bucket Elevators	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Tower Crane Up To 175' In Height Base To Boom	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Tower Crane: over 175' through 250' in height, base to boom	\$61.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Tower Cranes: over 250' in height from base to boom	\$62.33	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Transporters, All Track Or Truck Type	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>

Skagit	Power Equipment Operators	Trenching Machines	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Truck Crane Oiler/driver - 100 Tons And Over	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Truck Crane Oiler/driver Under 100 Tons	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Truck Mount Portable Conveyor	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Welder	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Wheel Tractors, Farmall Type	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators	Yo Yo Pay Dozer	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Asphalt Plant Operators	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Assistant Engineer	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Barrier Machine (zipper)	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Batch Plant Operator, Concrete	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Bobcat	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Brokk - Remote Demolition Equipment	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Brooms	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Bump Cutter	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Cableways	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Chipper	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Compressor	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Concrete Pump: Truck Mount With Boom Attachment Over 42 M	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Concrete Finish Machine -laser Screed	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure.	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Conveyors	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Cranes Friction: 200 tons and over	\$62.33	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Cranes: 20 Tons Through 44 Tons With Attachments	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Cranes: 100 Tons Through 199 Tons, Or 150' Of Boom (Including Jib With Attachments)	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Cranes: 200 tons- 299 tons, or 250' of boom including jib with attachments	\$61.72	<u>7A</u>	<u>3C</u>	<u>8P</u>

Skagit	Power Equipment Operators-Underground Sewer & Water	Cranes: 300 tons and over or 300' of boom including jib with attachments	\$62.33	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Cranes: 45 Tons Through 99 Tons, Under 150' Of Boom (including Jib With Attachments)	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Cranes: A-frame - 10 Tons And Under	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Cranes: Friction cranes through 199 tons	\$61.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Cranes: Through 19 Tons With Attachments A-frame Over 10 Tons	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Crusher	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Deck Engineer/deck Winches (power)	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Derricks, On Building Work	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Dozers D-9 & Under	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Drill Oilers: Auger Type, Truck Or Crane Mount	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Drilling Machine	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Elevator And Man-lift: Permanent And Shaft Type	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Finishing Machine, Bidwell And Gamaco & Similar Equipment	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Forklift: 3000 Lbs And Over With Attachments	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Forklifts: Under 3000 Lbs. With Attachments	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Grade Engineer: Using Blue Prints, Cut Sheets, Etc	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Gradechecker/stakeman	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Guardrail Punch	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Horizontal/directional Drill Locator	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Horizontal/directional Drill Operator	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Hydralifts/boom Trucks Over 10 Tons	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Hydralifts/boom Trucks, 10 Tons And Under	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>

Skagit	Power Equipment Operators-Underground Sewer & Water	Loader, Overhead 8 Yards. & Over	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Loader, Overhead, 6 Yards. But Not Including 8 Yards	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Loaders, Overhead Under 6 Yards	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Loaders, Plant Feed	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Loaders: Elevating Type Belt	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Locomotives, All	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Material Transfer Device	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Mechanics, All (leadmen - \$0.50 Per Hour Over Mechanic)	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Motor Patrol Graders	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Oil Distributors, Blower Distribution & Mulch Seeding Operator	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Outside Hoists (elevators And Manlifts), Air Tuggers, strato	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Overhead, Bridge Type Crane: 20 Tons Through 44 Tons	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Overhead, Bridge Type: 100 Tons And Over	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Overhead, Bridge Type: 45 Tons Through 99 Tons	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Pavement Breaker	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Pile Driver (other Than Crane Mount)	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Plant Oiler - Asphalt, Crusher	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Posthole Digger, Mechanical	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Power Plant	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Pumps - Water	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Quad 9, Hd 41, D10 And Over	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Quick Tower - No Cab, Under 100 Feet In Height Based To Boom	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Remote Control Operator On Rubber Tired Earth Moving Equipment	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Rigger And Bellman	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>

Skagit	Power Equipment Operators-Underground Sewer & Water	Rigger/Signal Person, Bellman (Certified)	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Rollagon	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Roller, Other Than Plant Mix	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Roller, Plant Mix Or Multi-lift Materials	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Roto-mill, Roto-grinder	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Saws - Concrete	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Scraper, Self Propelled Under 45 Yards	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Scrapers - Concrete & Carry All	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Scrapers, Self-propelled: 45 Yards And Over	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Service Engineers - Equipment	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Shotcrete/gunite Equipment	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Shovel , Excavator, Backhoe, Tractors Under 15 Metric Tons.	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Shovel, Excavator, Backhoes: Over 90 Metric Tons	\$61.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Slipform Pavers	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Spreader, Topsider & Screedman	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Subgrader Trimmer	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Tower Bucket Elevators	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Tower Crane Up To 175' In Height Base To Boom	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Tower Crane: over 175' through 250' in height, base to boom	\$61.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Tower Cranes: over 250' in height from base to boom	\$62.33	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Transporters, All Track Or Truck Type	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Trenching Machines	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Truck Crane Oiler/driver - 100 Tons And Over	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>

Skagit	Power Equipment Operators-Underground Sewer & Water	Truck Crane Oiler/driver Under 100 Tons	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Truck Mount Portable Conveyor	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Welder	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Wheel Tractors, Farmall Type	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Equipment Operators-Underground Sewer & Water	Yo Yo Pay Dozer	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Power Line Clearance Tree Trimmers	Journey Level In Charge	\$50.02	<u>5A</u>	<u>4A</u>	
Skagit	Power Line Clearance Tree Trimmers	Spray Person	\$47.43	<u>5A</u>	<u>4A</u>	
Skagit	Power Line Clearance Tree Trimmers	Tree Equipment Operator	\$50.02	<u>5A</u>	<u>4A</u>	
Skagit	Power Line Clearance Tree Trimmers	Tree Trimmer	\$44.64	<u>5A</u>	<u>4A</u>	
Skagit	Power Line Clearance Tree Trimmers	Tree Trimmer Groundperson	\$33.67	<u>5A</u>	<u>4A</u>	
Skagit	Refrigeration & Air Conditioning Mechanics	Journey Level	\$23.95		<u>1</u>	
Skagit	Residential Brick Mason	Journey Level	\$25.00		<u>1</u>	
Skagit	Residential Carpenters	Journey Level	\$20.53		<u>1</u>	
Skagit	Residential Cement Masons	Journey Level	\$16.00		<u>1</u>	
Skagit	Residential Drywall Applicators	Journey Level	\$42.86	<u>5D</u>	<u>4C</u>	
Skagit	Residential Drywall Tapers	Journey Level	\$30.00		<u>1</u>	
Skagit	Residential Electricians	JOURNEY LEVEL	\$28.93		<u>1</u>	
Skagit	Residential Glaziers	Journey Level	\$41.05	<u>7L</u>	<u>1H</u>	
Skagit	Residential Insulation Applicators	Journey Level	\$13.96		<u>1</u>	
Skagit	Residential Laborers	Journey Level	\$18.46		<u>1</u>	
Skagit	Residential Marble Setters	Journey Level	\$25.00		<u>1</u>	
Skagit	Residential Painters	Journey Level	\$15.00		<u>1</u>	
Skagit	Residential Plumbers & Pipefitters	Journey Level	\$42.05	<u>5A</u>	<u>1G</u>	
Skagit	Residential Refrigeration & Air Conditioning Mechanics	Journey Level	\$39.88	<u>5A</u>	<u>1G</u>	
Skagit	Residential Sheet Metal Workers	Journey Level (Field or Shop)	\$20.91		<u>1</u>	
Skagit	Residential Soft Floor Layers	Journey Level	\$23.46		<u>1</u>	
Skagit	Residential Sprinkler Fitters (Fire Protection)	Journey Level	\$29.76		<u>1</u>	
Skagit	Residential Stone Masons	Journey Level	\$25.00		<u>1</u>	
Skagit	Residential Terrazzo Workers	Journey Level	\$25.00		<u>1</u>	
Skagit	Residential Terrazzo/Tile Finishers	Journey Level	\$27.75		<u>1</u>	
Skagit	Residential Tile Setters	Journey Level	\$25.00		<u>1</u>	
Skagit	Roofers	Journey Level	\$31.84		<u>1</u>	
Skagit	Sheet Metal Workers	Journey Level (Field or Shop)	\$62.96	<u>7F</u>	<u>1E</u>	
Skagit	Shipbuilding & Ship Repair	Carpenter	\$21.69		<u>1</u>	
Skagit	Shipbuilding & Ship Repair	Electrician	\$18.72		<u>1</u>	
Skagit	Shipbuilding & Ship Repair	Heat & Frost Insulator	\$67.93	<u>5J</u>	<u>4H</u>	
Skagit	Shipbuilding & Ship Repair	Laborer	\$11.71		<u>1</u>	

Skagit	Shipbuilding & Ship Repair	Machinist	\$18.72		<u>1</u>	
Skagit	Shipbuilding & Ship Repair	Operator	\$18.72		<u>1</u>	
Skagit	Shipbuilding & Ship Repair	Painter	\$18.72		<u>1</u>	
Skagit	Shipbuilding & Ship Repair	Pipefitter	\$18.72		<u>1</u>	
Skagit	Shipbuilding & Ship Repair	Welder/burner	\$18.72		<u>1</u>	
Skagit	Sign Makers & Installers (Electrical)	Journey Level	\$16.03		<u>1</u>	
Skagit	Sign Makers & Installers (Non-Electrical)	Journey Level	\$13.28		<u>1</u>	
Skagit	Soft Floor Layers	Journey Level	\$47.61	<u>5A</u>	<u>3J</u>	
Skagit	Solar Controls For Windows	Journey Level	\$11.50		<u>1</u>	
Skagit	Sprinkler Fitters (Fire Protection)	Journey Level	\$75.64	<u>5C</u>	<u>1X</u>	
Skagit	Stage Rigging Mechanics (Non Structural)	Journey Level	\$13.23		<u>1</u>	
Skagit	Stone Masons	Journey Level	\$55.82	<u>5A</u>	<u>1M</u>	
Skagit	Street And Parking Lot Sweeper Workers	Journey Level	\$15.00		<u>1</u>	
Skagit	Surveyors	Assistant Construction Site Surveyor	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Surveyors	Chainman	\$58.93	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Surveyors	Construction Site Surveyor	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Skagit	Telecommunication Technicians	Journey Level	\$27.65		<u>1</u>	
Skagit	Telephone Line Construction - Outside	Cable Splicer	\$40.52	<u>5A</u>	<u>2B</u>	
Skagit	Telephone Line Construction - Outside	Hole Digger/Ground Person	\$22.78	<u>5A</u>	<u>2B</u>	
Skagit	Telephone Line Construction - Outside	Installer (Repairer)	\$38.87	<u>5A</u>	<u>2B</u>	
Skagit	Telephone Line Construction - Outside	Special Aparatus Installer I	\$40.52	<u>5A</u>	<u>2B</u>	
Skagit	Telephone Line Construction - Outside	Special Apparatus Installer II	\$39.73	<u>5A</u>	<u>2B</u>	
Skagit	Telephone Line Construction - Outside	Telephone Equipment Operator (Heavy)	\$40.52	<u>5A</u>	<u>2B</u>	
Skagit	Telephone Line Construction - Outside	Telephone Equipment Operator (Light)	\$37.74	<u>5A</u>	<u>2B</u>	
Skagit	Telephone Line Construction - Outside	Telephone Lineperson	\$37.74	<u>5A</u>	<u>2B</u>	
Skagit	Telephone Line Construction - Outside	Television Groundperson	\$21.60	<u>5A</u>	<u>2B</u>	
Skagit	Telephone Line Construction - Outside	Television Lineperson/Installer	\$28.68	<u>5A</u>	<u>2B</u>	
Skagit	Telephone Line Construction - Outside	Television System Technician	\$34.10	<u>5A</u>	<u>2B</u>	
Skagit	Telephone Line Construction - Outside	Television Technician	\$30.69	<u>5A</u>	<u>2B</u>	
Skagit	Telephone Line Construction - Outside	Tree Trimmer	\$37.74	<u>5A</u>	<u>2B</u>	
Skagit	Terrazzo Workers	Journey Level	\$51.36	<u>5A</u>	<u>1M</u>	
Skagit	Tile Setters	Journey Level	\$51.36	<u>5A</u>	<u>1M</u>	

Skagit	Tile, Marble & Terrazzo Finishers	Journey Level	\$25.00		<u>1</u>	
Skagit	Traffic Control Stripers	Journey Level	\$45.43	<u>7A</u>	<u>1K</u>	
Skagit	Truck Drivers	Asphalt Mix Over 16 Yards (W. WA-Joint Council 28)	\$52.70	<u>5D</u>	<u>3A</u>	<u>8L</u>
Skagit	Truck Drivers	Asphalt Mix To 16 Yards (W. WA-Joint Council 28)	\$51.86	<u>5D</u>	<u>3A</u>	<u>8L</u>
Skagit	Truck Drivers	Dump Truck	\$16.98		<u>1</u>	
Skagit	Truck Drivers	Dump Truck And Trailer	\$16.98		<u>1</u>	
Skagit	Truck Drivers	Other Trucks (W. WA-Joint Council 28)	\$52.70	<u>5D</u>	<u>3A</u>	<u>8L</u>
Skagit	Truck Drivers	Transit Mixer	\$32.12		<u>1</u>	
Skagit	Well Drillers & Irrigation Pump Installers	Irrigation Pump Installer	\$11.60		<u>1</u>	
Skagit	Well Drillers & Irrigation Pump Installers	Oiler	\$11.50		<u>1</u>	
Skagit	Well Drillers & Irrigation Pump Installers	Well Driller	\$11.60		<u>1</u>	

Benefit Code Key – Effective 3/3/2018 thru 8/30/2018

Overtime Codes

Overtime calculations are based on the hourly rate actually paid to the worker. On public works projects, the hourly rate must be not less than the prevailing rate of wage minus the hourly rate of the cost of fringe benefits actually provided for the worker.

1. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.
 - B. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - C. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other overtime hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - D. The first two (2) hours before or after a five-eight (8) hour workweek day or a four-ten (10) hour workweek day and the first eight (8) hours worked the next day after either workweek shall be paid at one and one-half times the hourly rate of wage. All additional hours worked and all worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - E. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - F. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other overtime hours worked, except Labor Day, shall be paid at double the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.
 - G. The first ten (10) hours worked on Saturdays and the first ten (10) hours worked on a fifth calendar weekday in a four-ten hour schedule, shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of ten (10) hours per day Monday through Saturday and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - H. All hours worked on Saturdays (except makeup days if work is lost due to inclement weather conditions or equipment breakdown) shall be paid at one and one-half times the hourly rate of wage. All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - I. All hours worked on Sundays and holidays shall also be paid at double the hourly rate of wage.
 - J. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked over ten (10) hours Monday through Saturday, Sundays and holidays shall be paid at double the hourly rate of wage.
 - K. All hours worked on Saturdays and Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.
 - M. All hours worked on Saturdays (except makeup days if work is lost due to inclement weather conditions) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - N. All hours worked on Saturdays (except makeup days) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

Overtime Codes Continued

1. O. The first ten (10) hours worked on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays, holidays and after twelve (12) hours, Monday through Friday and after ten (10) hours on Saturday shall be paid at double the hourly rate of wage.
- P. All hours worked on Saturdays (except makeup days if circumstances warrant) and Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.
- Q. The first two (2) hours after eight (8) regular hours Monday through Friday and up to ten (10) hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of ten (10) hours per day Monday through Saturday and all hours worked on Sundays and holidays (except Christmas day) shall be paid at double the hourly rate of wage. All hours worked on Christmas day shall be paid at two and one-half times the hourly rate of wage.
- R. All hours worked on Sundays and holidays shall be paid at two times the hourly rate of wage.
- S. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays and all other overtime hours worked, except Labor Day, shall be paid at double the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.
- U. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays (except Labor Day) shall be paid at two times the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.
- V. All hours worked on Sundays and holidays (except Thanksgiving Day and Christmas day) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Thanksgiving Day and Christmas day shall be paid at double the hourly rate of wage.
- W. All hours worked on Saturdays and Sundays (except make-up days due to conditions beyond the control of the employer) shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.
- X. The first four (4) hours after eight (8) regular hours Monday through Friday and the first twelve (12) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked over twelve (12) hours Monday through Saturday, Sundays and holidays shall be paid at double the hourly rate of wage. When holiday falls on Saturday or Sunday, the day before Saturday, Friday, and the day after Sunday, Monday, shall be considered the holiday and all work performed shall be paid at double the hourly rate of wage.
- Y. All hours worked outside the hours of 5:00 am and 5:00 pm (or such other hours as may be agreed upon by any employer and the employee) and all hours worked in excess of eight (8) hours per day (10 hours per day for a 4 x 10 workweek) and on Saturdays and holidays (except labor day) shall be paid at one and one-half times the hourly rate of wage. (except for employees who are absent from work without prior approval on a scheduled workday during the workweek shall be paid at the straight-time rate until they have worked 8 hours in a day (10 in a 4 x 10 workweek) or 40 hours during that workweek.) All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and Labor Day shall be paid at double the hourly rate of wage.
- Z. All hours worked on Saturdays and Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid the straight time rate of pay in addition to holiday pay.

Overtime Codes Continued

2. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.
- B. All hours worked on holidays shall be paid at one and one-half times the hourly rate of wage.
 - C. All hours worked on Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at two times the hourly rate of wage.
 - F. The first eight (8) hours worked on holidays shall be paid at the straight hourly rate of wage in addition to the holiday pay. All hours worked in excess of eight (8) hours on holidays shall be paid at double the hourly rate of wage.
 - G. All hours worked on Sunday shall be paid at two times the hourly rate of wage. All hours worked on paid holidays shall be paid at two and one-half times the hourly rate of wage including holiday pay.
 - H. All hours worked on Sunday shall be paid at two times the hourly rate of wage. All hours worked on holidays shall be paid at one and one-half times the hourly rate of wage.
 - O. All hours worked on Sundays and holidays shall be paid at one and one-half times the hourly rate of wage.
 - R. All hours worked on Sundays and holidays and all hours worked over sixty (60) in one week shall be paid at double the hourly rate of wage.
 - U. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked over 12 hours in a day or on Sundays and holidays shall be paid at double the hourly rate of wage.
 - W. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage. On a four-day, ten-hour weekly schedule, either Monday thru Thursday or Tuesday thru Friday schedule, all hours worked after ten shall be paid at double the hourly rate of wage. The first eight (8) hours worked on the fifth day shall be paid at one and one-half times the hourly rate of wage. All other hours worked on the fifth, sixth, and seventh days and on holidays shall be paid at double the hourly rate of wage.
3. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.
- A. Work performed in excess of eight (8) hours of straight time per day, or ten (10) hours of straight time per day when four ten (10) hour shifts are established, or forty (40) hours of straight time per week, Monday through Friday, or outside the normal shift, and all work on Saturdays shall be paid at time and one-half the straight time rate. Hours worked over twelve hours (12) in a single shift and all work performed after 6:00 pm Saturday to 6:00 am Monday and holidays shall be paid at double the straight time rate of pay. Any shift starting between the hours of 6:00 pm and midnight shall receive an additional one dollar (\$1.00) per hour for all hours worked that shift. The employer shall have the sole discretion to assign overtime work to employees. Primary consideration for overtime work shall be given to employees regularly assigned to the work to be performed on overtime situations. After an employee has worked eight (8) hours at an applicable overtime rate, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more.
 - C. Work performed in excess of eight (8) hours of straight time per day, or ten (10) hours of straight time per day when four ten (10) hour shifts are established, or forty (40) hours of straight time per week, Monday through Friday, or outside the normal shift, and all work on Saturdays shall be paid at one and one-half times the hourly rate of wage. All work performed after 6:00 pm Saturday to 5:00 am Monday and Holidays shall be paid at double the hourly rate of wage. After an employee has worked eight (8) hours at an applicable overtime rate, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more.

Overtime Codes Continued

3.
 - E. All hours worked Sundays and holidays shall be paid at double the hourly rate of wage. Each week, once 40 hours of straight time work is achieved, then any hours worked over 10 hours per day Monday through Saturday shall be paid at double the hourly wage rate.
 - F. All hours worked on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sunday shall be paid at two times the hourly rate of wage. All hours worked on paid holidays shall be paid at two and one-half times the hourly rate of wage including holiday pay.
 - H. All work performed on Sundays between March 16th and October 14th and all Holidays shall be compensated for at two (2) times the regular rate of pay. Work performed on Sundays between October 15th and March 15th shall be compensated at one and one half (1-1/2) times the regular rate of pay.
 - I. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. In the event the job is down due to weather conditions during a five day work week (Monday through Friday,) or a four day-ten hour work week (Tuesday through Friday,) then Saturday may be worked as a voluntary make-up day at the straight time rate. However, Saturday shall not be utilized as a make-up day when a holiday falls on Friday. All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - J. All hours worked between the hours of 10:00 pm and 5:00 am, Monday through Friday, and all hours worked on Saturdays shall be paid at a one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
4. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.
 - A. All hours worked in excess of eight (8) hours per day or forty (40) hours per week shall be paid at double the hourly rate of wage. All hours worked on Saturdays, Sundays and holidays shall be paid at double the hourly rate of wage.
 - B. All hours worked over twelve (12) hours per day and all hours worked on holidays shall be paid at double the hourly rate of wage.
 - C. On Monday through Friday, the first four (4) hours of overtime after eight (8) hours of straight time work shall be paid at one and one half (1-1/2) times the straight time rate of pay, unless a four (4) day ten (10) hour workweek has been established. On a four (4) day ten (10) hour workweek scheduled Monday through Thursday, or Tuesday through Friday, the first two (2) hours of overtime after ten (10) hours of straight time work shall be paid at one and one half (1-1/2) times the straight time rate of pay. On Saturday, the first twelve (12) hours of work shall be paid at one and one half (1-1/2) times the straight time rate of pay, except that if the job is down on Monday through Friday due to weather conditions or other conditions outside the control of the employer, the first ten (10) hours on Saturday may be worked at the straight time rate of pay. All hours worked over twelve (12) hours in a day and all hours worked on Sunday and Holidays shall be paid at two (2) times the straight time rate of pay.

Overtime Codes Continued

4. D. All hours worked in excess of eight (8) hours per day or forty (40) hours per week shall be paid at double the hourly rate of wage. All hours worked on Saturday, Sundays and holidays shall be paid at double the hourly rate of pay. Rates include all members of the assigned crew.

EXCEPTION:

On all multipole structures and steel transmission lines, switching stations, regulating, capacitor stations, generating plants, industrial plants, associated installations and substations, except those substations whose primary function is to feed a distribution system, will be paid overtime under the following rates:

The first two (2) hours after eight (8) regular hours Monday through Friday of overtime on a regular workday, shall be paid at one and one-half times the hourly rate of wage. All hours in excess of ten (10) hours will be at two (2) times the hourly rate of wage. The first eight (8) hours worked on Saturday will be paid at one and one-half (1-1/2) times the hourly rate of wage. All hours worked in excess of eight (8) hours on Saturday, and all hours worked on Sundays and holidays will be at the double the hourly rate of wage.

All overtime eligible hours performed on the above described work that is energized, shall be paid at the double the hourly rate of wage.

- E. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

On a four-day, ten-hour weekly schedule, either Monday thru Thursday or Tuesday thru Friday schedule, all hours worked after ten shall be paid at double the hourly rate of wage. The Monday or Friday not utilized in the normal four-day, ten hour work week, and Saturday shall be paid at one and one half (1½) times the regular shift rate for the first eight (8) hours. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

- F. All hours worked between the hours of 6:00 pm and 6:00 am, Monday through Saturday, shall be paid at a premium rate of 20% over the hourly rate of wage. All hours worked on Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.

- G. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

- H. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other overtime hours worked, except Labor Day, and all hours on Sunday shall be paid at double the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.

Holiday Codes

5. A. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, and Christmas Day (7).
- B. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, the day before Christmas, and Christmas Day (8).
- C. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8).

Benefit Code Key – Effective 3/3/2018 thru 8/30/2018

Holiday Codes Continued

5. D. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8).
- H. Holidays: New Year's Day, Memorial Day, Independence Day, Thanksgiving Day, the Day after Thanksgiving Day, And Christmas (6).
- I. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day (6).
- J. Holidays: New Year's Day, Memorial Day, Independence Day, Thanksgiving Day, Friday after Thanksgiving Day, Christmas Eve Day, And Christmas Day (7).
- K. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday After Thanksgiving Day, The Day Before Christmas, And Christmas Day (9).
- L. Holidays: New Year's Day, Martin Luther King Jr. Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, And Christmas Day (8).
- N. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, The Friday After Thanksgiving Day, And Christmas Day (9).
- P. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday And Saturday After Thanksgiving Day, The Day Before Christmas, And Christmas Day (9). If A Holiday Falls On Sunday, The Following Monday Shall Be Considered As A Holiday.
- Q. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day (6).
- R. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Day After Thanksgiving Day, One-Half Day Before Christmas Day, And Christmas Day. (7 1/2).
- S. Paid Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, And Christmas Day (7).
- T. Paid Holidays: New Year's Day, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, Christmas Day, And The Day Before Or After Christmas (9).
- Z. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8).
6. A. Paid Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8).
- E. Paid Holidays: New Year's Day, Day Before Or After New Year's Day, Presidents Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and a Half-Day On Christmas Eve Day. (9 1/2).
- G. Paid Holidays: New Year's Day, Martin Luther King Jr. Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and Christmas Eve Day (11).

Benefit Code Key – Effective 3/3/2018 thru 8/30/2018

Holiday Codes Continued

6. H. Paid Holidays: New Year's Day, New Year's Eve Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday After Thanksgiving Day, Christmas Day, The Day After Christmas, And A Floating Holiday (10).
- I. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday After Thanksgiving Day, And Christmas Day (7).
- T. Paid Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, The Last Working Day Before Christmas Day, And Christmas Day (9).
- Z. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, And Christmas Day (7). If a holiday falls on Saturday, the preceding Friday shall be considered as the holiday. If a holiday falls on Sunday, the following Monday shall be considered as the holiday.
7. A. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8). Any Holiday Which Falls On A Sunday Shall Be Observed As A Holiday On The Following Monday. If any of the listed holidays falls on a Saturday, the preceding Friday shall be a regular work day.
- B. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- C. Holidays: New Year's Day, Martin Luther King Jr. Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- D. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8). Unpaid Holidays: President's Day. Any paid holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any paid holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- E. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- F. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the last working day before Christmas day and Christmas day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- G. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day (6). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday.
- H. Holidays: New Year's Day, Martin Luther King Jr. Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the Last Working Day before Christmas Day and Christmas Day (9). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

Holiday Codes Continued

7. I. Holidays: New Year's Day, President's Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, The Day Before Christmas Day And Christmas Day (9). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- J. Holidays: New Year's Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day and Christmas Day (6). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- K. Holidays: New Year's Day, Memorial Day, Independence Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- L. Holidays: New Year's Day, Memorial Day, Labor Day, Independence Day, Thanksgiving Day, the Last Work Day before Christmas Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- M. Paid Holidays: New Year's Day, The Day after or before New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, And the Day after or before Christmas Day (10). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- N. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. When Christmas falls on a Saturday, the preceding Friday shall be observed as a holiday.
- P. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday.
- Q. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the Last Working Day before Christmas Day and Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. If any of the listed holidays falls on a Saturday, the preceding Friday shall be a regular work day.
- R. Paid Holidays: New Year's Day, the day after or before New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and the day after or before Christmas Day (10). If any of the listed holidays fall on Saturday, the preceding Friday shall be observed as the holiday. If any of the listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly.
- S. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, Christmas Day, the Day after Christmas, and A Floating Holiday (9). If any of the listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly.

Holiday Codes Continued

- T. Paid Holidays: New Year's Day, the Day after or before New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and The Day after or before Christmas Day. (10). If any of the listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

Note Codes

8. D. Workers working with supplied air on hazmat projects receive an additional \$1.00 per hour.
- L. Workers on hazmat projects receive additional hourly premiums as follows -Level A: \$0.75, Level B: \$0.50, And Level C: \$0.25.
- M. Workers on hazmat projects receive additional hourly premiums as follows: Levels A & B: \$1.00, Levels C & D: \$0.50.
- N. Workers on hazmat projects receive additional hourly premiums as follows -Level A: \$1.00, Level B: \$0.75, Level C: \$0.50, And Level D: \$0.25.
- P. Workers on hazmat projects receive additional hourly premiums as follows -Class A Suit: \$2.00, Class B Suit: \$1.50, Class C Suit: \$1.00, And Class D Suit \$0.50.
- Q. The highest pressure registered on the gauge for an accumulated time of more than fifteen (15) minutes during the shift shall be used in determining the scale paid.
- R. Effective August 31, 2012 – A Traffic Control Supervisor shall be present on the project whenever flagging or spotting or other traffic control labor is being utilized. A Traffic Control Laborer performs the setup, maintenance and removal of all temporary traffic control devices and construction signs necessary to control vehicular, bicycle, and pedestrian traffic during construction operations. Flaggers and Spotters shall be posted where shown on approved Traffic Control Plans or where directed by the Engineer. All flaggers and spotters shall possess a current flagging card issued by the State of Washington, Oregon, Montana, or Idaho. These classifications are only effective on or after August 31, 2012.
- S. Effective August 31, 2012 – A Traffic Control Supervisor shall be present on the project whenever flagging or spotting or other traffic control labor is being utilized. Flaggers and Spotters shall be posted where shown on approved Traffic Control Plans or where directed by the Engineer. All flaggers and spotters shall possess a current flagging card issued by the State of Washington, Oregon, Montana, or Idaho. This classification is only effective on or after August 31, 2012.
- T. Effective August 31, 2012 – A Traffic Control Laborer performs the setup, maintenance and removal of all temporary traffic control devices and construction signs necessary to control vehicular, bicycle, and pedestrian traffic during construction operations. Flaggers and Spotters shall be posted where shown on approved Traffic Control Plans or where directed by the Engineer. All flaggers and spotters shall possess a current flagging card issued by the State of Washington, Oregon, Montana, or Idaho. This classification is only effective on or after August 31, 2012.

Note Codes Continued

8. U. Workers on hazmat projects receive additional hourly premiums as follows – Class A Suit: \$2.00, Class B Suit: \$1.50, And Class C Suit: \$1.00. Workers performing underground work receive an additional \$0.40 per hour for any and all work performed underground, including operating, servicing and repairing of equipment. The premium for underground work shall be paid for the entire shift worked. Workers who work suspended by a rope or cable receive an additional \$0.50 per hour. The premium for work suspended shall be paid for the entire shift worked. Workers who do “pioneer” work (break open a cut, build road, etc.) more than one hundred fifty (150) feet above grade elevation receive an additional \$0.50 per hour.
- V. In addition to the hourly wage and fringe benefits, the following depth and enclosure premiums shall be paid. The premiums are to be calculated for the maximum depth and distance into an enclosure that a diver reaches in a day. The premiums are to be paid one time for the day and are not used in calculating overtime pay.
- Depth premiums apply to depths of fifty feet or more. Over 50' to 100' - \$2.00 per foot for each foot over 50 feet. Over 101' to 150' - \$3.00 per foot for each foot over 101 feet. Over 151' to 220' - \$4.00 per foot for each foot over 220 feet. Over 221' - \$5.00 per foot for each foot over 221 feet.
- Enclosure premiums apply when divers enter enclosures (such as pipes or tunnels) where there is no vertical ascent and is measured by the distance travelled from the entrance. 25' to 300' - \$1.00 per foot from entrance. 300' to 600' - \$1.50 per foot beginning at 300'. Over 600' - \$2.00 per foot beginning at 600'.
- W. Meter Installers work on single phase 120/240V self-contained residential meters. The Lineman/Groundmen rates would apply to meters not fitting this description.