City of Abbotsford

PO Box 589, 203 N. First Street, Abbotsford, WI 54405

ABBOTSFORD CITY COUNCIL
TO BE HELD MONDAY July 6, 2020 at 6:00 P.M.
AT THE ABBOTSFORD COUNCIL CHAMBER

1. Call the regular meeting to order
    a. Roll call
    b. Pledge of Allegiance
2. Establish Order of the Day
3. Special Order of Business – Presentation by Sean Lenz of Ehler's regarding debt issuance via GoToMeeting
4. Resolution 2020-9 - Resolution Establishing Parameters for the Sale of Not to Exceed $2,080,000 General Obligation Street Improvement Bonds, Series 2020A
5. Communications
    a. Grant Award from the Wisconsin Elections Commission
    b. Marketing Packet for Schilling Properties
6. Comments by the Mayor
7. Administrator's Update
8. Comments by the Public – 2 MINUTE TIME LIMIT
9. Minutes from the Council Meeting held June 1, 2020
    a. Waive the reading and approve the minutes
10. Minutes from the Council Meeting held June 17, 2020
    a. Waive the reading and approve the minutes
11. Library Update
12. Incidents, Accidents, and Training
13. Public Works Update
14. MSA Update
15. Approve/Disapprove: Haas Change Order #1 for Opportunity Drive
16. Approve/Disapprove: Haas Pay Application #1 for Opportunity Drive
17. Discussion: Water Leaks in City Hall
18. Discussion: Parks Improvements
19. Approve/Disapprove Resurfacing Hemlock Street using TIF dollars
20. Discussion: 2021 Street Projects
21. Discussion: Public Garden lots
22. Approve/Disapprove Conditional Use Permit for Mykhail, LLC.
23. Discussion/Update: Building Inspectors

Requests from persons with disabilities who need assistance to participate in this meeting or hearing should be madee to Clerk's Office at (715) 223-3444 with as much advance notice as possible.

24. Approve/Disapprove Drafting a Municipal Condemnation Ordinance
25. Water and Sewer Update
26. Approve/Disapprove Boring for Well 6
27. Approve/Disapprove Well 20 Hydrofrac
28. Discussion: Water Tower Repair Recommendations
29. Discussion : Reseal Well 1
30. Approve/Disapprove Service Contract with Hydrocorp
31. Approve/Disapprove Continued Use of GoToMeeting
32. Discuss Raising the Cost of Parking Tickets from $15 to $25
33. Approve/Disapprove Operators License
34. May 2020 Financials with Budget Comparisons
35. Items for Future Agendas - No Action Will Be Taken
36. Next Meetings: City Council August 3, 2020, Committee of the Whole July 15, 2020
37. Adjourn

City Council July 6, 2020
Mon, Jul 6, 2020 6:00 PM - 9:00 PM (CDT)

Please join my meeting from your computer, tablet or smartphone.
https://global.gotomeeting.com/join/943619181

You can also dial in using your phone.
United States: +1 (872) 240-3412

Access Code: 943-619-181

New to GoToMeeting? Get the app now and be ready when your first meeting starts:
https://global.gotomeeting.com/install/943619181

RESOLUTION NO. 2020-9

RESOLUTION ESTABLISHING PARAMETERS
FOR THE SALE OF NOT TO EXCEED
$2,080,000 GENERAL OBLIGATION STREET
IMPROVEMENT BONDS, SERIES 2020A

WHEREAS, on June 1, 2020, the Common Council of the City of Abbotsford, Clark and Marathon Counties, Wisconsin (the "City") adopted an initial resolution authorizing the issuance of general obligation bonds in an amount not to exceed $2,080,000 for the public purpose of paying the cost of street improvement projects (the "Project") (the "Initial Resolution");

WHEREAS, pursuant to the provisions of Section 67.05, Wisconsin Statutes, within 15 days following the adoption of the Initial Resolution, the City Clerk caused a notice to electors to be published in the Tribune Phonograph, stating the purpose and maximum principal amount of the bond issue authorized by the Initial Resolution and describing the opportunity and procedure for submitting a petition requesting a referendum on the bond issue authorized by the Initial Resolution;

WHEREAS, no petition for referendum was filed with the City Clerk, and the time to file such a petition has expired;

WHEREAS, the Common Council hereby finds and determines that the Project is within the City's power to undertake and therefore serves a "public purpose" as that term is defined in Section 67.04(1)(b), Wisconsin Statutes;

WHEREAS, the City is authorized by the provisions of Section 67.04, Wisconsin Statutes, to borrow money and issue general obligation bonds for such public purposes;

WHEREAS, it is the finding of the Common Council that it is in the best interest of the City to direct its financial advisor, Ehlers & Associates, Inc. ("Ehlers"), to take the steps necessary for the City to offer and sell General Obligation Street Improvement Bonds, Series 2020A (the "Bonds") at public sale and to obtain bids for the purchase of the Bonds; and

WHEREAS, in order to facilitate the sale of the Bonds in a timely manner, the Common Council hereby finds and determines that it is necessary, desirable and in the best interest of the City to delegate to either the City Administrator/Clerk/Treasurer or the Deputy City Clerk/Treasurer (each an "Authorized Officer") of the City the authority to accept on behalf of the City the bid for the Bonds that results in the lowest true interest cost for the Bonds (the "Proposal") and meets the terms and conditions provided for in this Resolution by executing a certificate in substantially the form attached hereto as Exhibit B and incorporated herein by reference (the "Approving Certificate").

NOW, THEREFORE, BE IT RESOLVED by the Common Council of the City that:

Section 1A. Ratification of the Notice of Sale and Offering Materials. The Common Council hereby ratifies and approves the details of the Bonds set forth in Exhibit A attached hereto as and for the details of the Bonds. The Notice of Sale and any other offering materials prepared and circulated by Ehlers are hereby ratified and approved in all respects. All actions taken by officers of the City and Ehlers in connection with the preparation and distribution of the Notice of Sale, and any other offering materials are hereby ratified and approved in all respects.

Section 2. Authorization and Sale of the Bonds; Parameters. For the purpose of paying costs of the Project, the City is authorized to borrow pursuant to Section 67.04, Wisconsin Statutes, the principal sum of not to exceed TWO MILLION EIGHTY THOUSAND DOLLARS ($2,080,000) upon the terms and subject to the conditions set forth in this Resolution. Subject to satisfaction of the condition set forth in Section 18 of this Resolution, the Mayor and City Clerk are hereby authorized, empowered and directed to make, execute, issue and sell to the financial institution that submitted the Proposal (the "Purchaser") for, on behalf of and in the name of the City, Bonds aggregating the principal amount of not to exceed TWO MILLION EIGHTY THOUSAND DOLLARS ($2,080,000). The purchase price to be paid to the City for the Bonds shall not be less than 98.80% nor more than 106.00% of the principal amount of the Bonds.

Section 3. Terms of the Bonds. The Bonds shall be designated "General Obligation Street Improvement Bonds, Series 2020A"; shall be issued in the aggregate principal amount of up to $2,080,000; shall be dated as of their date of issuance; shall be in the denomination of $5,000 or any integral multiple thereof; shall be numbered R-1 and upward; and mature or be subject to mandatory redemption on the dates and in the principal amounts set forth below, provided that the principal amount of each maturity or mandatory redemption amount may be increased or decreased by up to $50,000 per maturity or mandatory redemption amount and that the aggregate principal amount of the Bonds shall not exceed $2,080,000. The schedule below assumes the Bonds are issued in the aggregate principal amount of $2,055,000.

Date	Principal Amount
10-01-2021	$135,000
10-01-2022	140,000
10-01-2023	100,000
10-01-2024	85,000
10-01-2025	90,000
10-01-2026	90,000
10-01-2027	90,000
10-01-2028	95,000
10-01-2029	105,000
10-01-2030	105,000
10-01-2031	110,000
10-01-2032	110,000
10-01-2033	110,000
10-01-2034	115,000
10-01-2035	125,000
10-01-2036	130,000
10-01-2037	130,000

Date	Principal Amount
10-01-2038	60,000
10-01-2039	60,000
04-01-2040	70,000

Interest shall be payable semi-annually on April 1 and October 1 of each year commencing on April 1, 2021. The true interest cost on the Bonds (computed taking the Purchaser's compensation into account) will not exceed 3.25%. Interest shall be computed upon the basis of a 360-day year of twelve 30-day months and will be rounded pursuant to the rules of the Municipal Securities Rulemaking Board.

Section 4. Redemption Provisions. The Bonds maturing on October 1, 2029 and thereafter are subject to redemption prior to maturity, at the option of the City, on October 1, 2028 or on any date thereafter. Said Bonds are redeemable as a whole or in part, and if in part, from maturities selected by the City, and within each maturity by lot, at the principal amount thereof, plus accrued interest to the date of redemption. If the Proposal specifies that certain of the Bonds are subject to mandatory redemption, the terms of such mandatory redemption shall be set forth on an attachment to the Approving Certificate labeled as Exhibit MRP. Upon the optional redemption of any of the Bonds subject to mandatory redemption, the principal amount of such Bonds so redeemed shall be credited against the mandatory redemption payments for such Bonds in such manner as the City shall direct.

Section 5. Form of the Bonds. The Bonds shall be issued in registered form and shall be executed and delivered in substantially the form attached hereto as Exhibit C and incorporated herein by this reference.

Section 6. Tax Provisions.

(A) Direct Annual Irrepealable Tax Levy. For the purpose of paying the principal of and interest on the Bonds as the same becomes due, the full faith, credit and resources of the City are hereby irrevocably pledged, and there is hereby levied upon all of the taxable property of the City a direct annual irrepealable tax in the years 2020 through 2039 for the payments due in the years 2021 through 2040 in such amounts as are sufficient to meet the principal and interest payments when due and set forth in the Approving Certificate.

(B) Tax Collection. So long as any part of the principal of or interest on the Bonds remains unpaid, the City shall be and continue without power to repeal such levy or obstruct the collection of said tax until all such payments have been made or provided for. After the issuance of the Bonds, said tax shall be, from year to year, carried onto the tax roll of the City and collected in addition to all other taxes and in the same manner and at the same time as other taxes of the City for said years are collected, except that the amount of tax carried onto the tax roll may be reduced in any year by the amount of any surplus money in the Debt Service Fund Account created below.

(C) Additional Funds. If at any time there shall be on hand insufficient funds from the aforesaid tax levy to meet principal and/or interest payments on said Bonds when due,

the requisite amounts shall be paid from other funds of the City then available, which sums shall be replaced upon the collection of the taxes herein levied.

Section 7. Segregated Debt Service Fund Account.

(A) Creation and Deposits. There be and there hereby is established in the treasury of the City, if one has not already been created, a debt service fund, separate and distinct from every other fund, which shall be maintained in accordance with generally accepted accounting principles. Debt service or sinking funds established for obligations previously issued by the City may be considered as separate and distinct accounts within the debt service fund.

Within the debt service fund, there hereby is established a separate and distinct account designated as the "Debt Service Fund Account for General Obligation Street Improvement Bonds, Series 2020A" (the "Debt Service Fund Account") and such account shall be maintained until the indebtedness evidenced by the Bonds is fully paid or otherwise extinguished. There shall be deposited into the Debt Service Fund Account (i) all accrued interest received by the City at the time of delivery of and payment for the Bonds; (ii) any premium which may be received by the City above the par value of the Bonds and accrued interest thereon; (iii) all money raised by the taxes herein levied and any amounts appropriated for the specific purpose of meeting principal of and interest on the Bonds when due; (iv) such other sums as may be necessary at any time to pay principal of and interest on the Bonds when due; (v) surplus monies in the Borrowed Money Fund as specified below; and (vi) such further deposits as may be required by Section 67.11, Wisconsin Statutes.

(B) Use and Investment. No money shall be withdrawn from the Debt Service Fund Account and appropriated for any purpose other than the payment of principal of and interest on the Bonds until all such principal and interest has been paid in full and the Bonds canceled; provided (i) the funds to provide for each payment of principal of and interest on the Bonds prior to the scheduled receipt of taxes from the next succeeding tax collection may be invested in direct obligations of the United States of America maturing in time to make such payments when they are due or in other investments permitted by law; and (ii) any funds over and above the amount of such principal and interest payments on the Bonds may be used to reduce the next succeeding tax levy, or may, at the option of the City, be invested by purchasing the Bonds as permitted by and subject to Section 67.11(2)(a), Wisconsin Statutes, or in permitted municipal investments under the pertinent provisions of the Wisconsin Statutes ("Permitted Investments"), which investments shall continue to be a part of the Debt Service Fund Account. Any investment of the Debt Service Fund Account shall at all times conform with the provisions of the Internal Revenue Code of 1986, as amended (the "Code") and any applicable Treasury Regulations (the "Regulations").

(C) Remaining Monies. When all of the Bonds have been paid in full and canceled, and all Permitted Investments disposed of, any money remaining in the Debt Service Fund Account shall be transferred and deposited in the general fund of the City, unless the Common Council directs otherwise.

Section 8. Proceeds of the Bonds; Segregated Borrowed Money Fund. The proceeds of the Bonds (the "Bond Proceeds") (other than any premium and accrued interest which must be paid at the time of the delivery of the Bonds into the Debt Service Fund Account created above) shall be deposited into a special fund (the "Borrowed Money Fund") separate and distinct from all other funds of the City and disbursed solely for the purpose or purposes for which borrowed. Monies in the Borrowed Money Fund may be temporarily invested in Permitted Investments. Any monies, including any income from Permitted Investments, remaining in the Borrowed Money Fund after the purpose or purposes for which the Bonds have been issued have been accomplished, and, at any time, any monies as are not needed and which obviously thereafter cannot be needed for such purpose(s) shall be deposited in the Debt Service Fund Account.

Section 9. No Arbitrage. All investments made pursuant to this Resolution shall be Permitted Investments, but no such investment shall be made in such a manner as would cause the Bonds to be "arbitrage bonds" within the meaning of Section 148 of the Code or the Regulations and an officer of the City, charged with the responsibility for issuing the Bonds, shall certify as to facts, estimates, circumstances and reasonable expectations in existence on the date of delivery of the Bonds to the Purchaser which will permit the conclusion that the Bonds are not "arbitrage bonds," within the meaning of the Code or Regulations.

Section 10. Compliance with Federal Tax Laws. (a) The City represents and covenants that the projects financed by the Bonds and the ownership, management and use of the projects will not cause the Bonds to be "private activity bonds" within the meaning of Section 141 of the Code. The City further covenants that it shall comply with the provisions of the Code to the extent necessary to maintain the tax-exempt status of the interest on the Bonds including, if applicable, the rebate requirements of Section 148(f) of the Code. The City further covenants that it will not take any action, omit to take any action or permit the taking or omission of any action within its control (including, without limitation, making or permitting any use of the proceeds of the Bonds) if taking, permitting or omitting to take such action would cause any of the Bonds to be an arbitrage bond or a private activity bond within the meaning of the Code or would otherwise cause interest on the Bonds to be included in the gross income of the recipients thereof for federal income tax purposes. The City Clerk or other officer of the City charged with the responsibility of issuing the Bonds shall provide an appropriate certificate of the City certifying that the City can and covenanting that it will comply with the provisions of the Code and Regulations.

(b) The City also covenants to use its best efforts to meet the requirements and restrictions of any different or additional federal legislation which may be made applicable to the Bonds provided that in meeting such requirements the City will do so only to the extent consistent with the proceedings authorizing the Bonds and the laws of the State of Wisconsin and to the extent that there is a reasonable period of time in which to comply.

Section 11. Designation as Qualified Tax-Exempt Obligations. The Bonds are hereby designated as "qualified tax-exempt obligations" for purposes of Section 265 of the Code, relating to the ability of financial institutions to deduct from income for federal income tax purposes, interest expense that is allocable to carrying and acquiring tax-exempt obligations.

Section 12. Execution of the Bonds; Closing; Professional Services. The Bonds shall be issued in printed form, executed on behalf of the City by the manual or facsimile signatures of the Mayor and City Clerk, authenticated, if required, by the Fiscal Agent (defined below), sealed with its official or corporate seal, if any, or a facsimile thereof, and delivered to the Purchaser upon payment to the City of the purchase price thereof, plus accrued interest to the date of delivery (the "Closing"). The facsimile signature of either of the officers executing the Bonds may be imprinted on the Bonds in lieu of the manual signature of the officer but, unless the City has contracted with a fiscal agent to authenticate the Bonds, at least one of the signatures appearing on each Bond shall be a manual signature. In the event that either of the officers whose signatures appear on the Bonds shall cease to be such officers before the Closing, such signatures shall, nevertheless, be valid and sufficient for all purposes to the same extent as if they had remained in office until the Closing. The aforesaid officers are hereby authorized and directed to do all acts and execute and deliver the Bonds and all such documents, certificates and acknowledgements as may be necessary and convenient to effectuate the Closing. The City hereby authorizes the officers and agents of the City to enter into, on its behalf, agreements and contracts in conjunction with the Bonds, including but not limited to agreements and contracts for legal, trust, fiscal agency, disclosure and continuing disclosure, and rebate calculation services. Any such contract heretofore entered into in conjunction with the issuance of the Bonds is hereby ratified and approved in all respects.

Section 13. Payment of the Bonds; Fiscal Agent. The principal of and interest on the Bonds shall be paid by Bond Trust Services Corporation, Roseville, Minnesota, which is hereby appointed as the City's registrar and fiscal agent pursuant to the provisions of Section 67.10(2), Wisconsin Statutes (the "Fiscal Agent"). The City hereby authorizes the Mayor and City Clerk or other appropriate officers of the City to enter a Fiscal Agency Agreement between the City and the Fiscal Agent. Such contract may provide, among other things, for the performance by the Fiscal Agent of the functions listed in Wis. Stats. Sec. 67.10(2)(a) to (j), where applicable, with respect to the Bonds.

Section 14. Persons Treated as Owners; Transfer of Bonds. The City shall cause books for the registration and for the transfer of the Bonds to be kept by the Fiscal Agent. The person in whose name any Bond shall be registered shall be deemed and regarded as the absolute owner thereof for all purposes and payment of either principal or interest on any Bond shall be made only to the registered owner thereof. All such payments shall be valid and effectual to satisfy and discharge the liability upon such Bond to the extent of the sum or sums so paid.

Any Bond may be transferred by the registered owner thereof by surrender of the Bond at the office of the Fiscal Agent, duly endorsed for the transfer or accompanied by an assignment duly executed by the registered owner or his attorney duly authorized in writing. Upon such transfer, the Mayor and City Clerk shall execute and deliver in the name of the transferee or transferees a new Bond or Bonds of a like aggregate principal amount, series and maturity and the Fiscal Agent shall record the name of each transferee in the registration book. No registration shall be made to bearer. The Fiscal Agent shall cancel any Bond surrendered for transfer.

The City shall cooperate in any such transfer, and the Mayor and City Clerk are authorized to execute any new Bond or Bonds necessary to effect any such transfer.

Section 15. Record Date. The 15th day of the calendar month next preceding each interest payment date shall be the record date for the Bonds (the "Record Date"). Payment of interest on the Bonds on any interest payment date shall be made to the registered owners of the Bonds as they appear on the registration book of the City at the close of business on the Record Date.

Section 16. Utilization of The Depository Trust Company Book-Entry-Only System. In order to make the Bonds eligible for the services provided by The Depository Trust Company, New York, New York ("DTC"), the City agrees to the applicable provisions set forth in the Blanket Issuer Letter of Representations, which the City Clerk or other authorized representative of the City is authorized and directed to execute and deliver to DTC on behalf of the City to the extent an effective Blanket Issuer Letter of Representations is not presently on file in the City Clerk's office.

Section 17. Payment of Issuance Expenses. The City authorizes the Purchaser to forward the amount of the proceeds of the Bonds allocable to the payment of issuance expenses to Old National Bank at Closing for further distribution as directed by Ehlers.

Section 18. Conditions on Issuance and Sale of the Bonds. The issuance of the Bonds and the sale of the Bonds to the Purchaser are subject to approval by an Authorized Officer of the principal amount, definitive maturities, mandatory redemption provisions, interest rates and purchase price for the Bonds, which approval shall be evidenced by execution by an Authorized Officer of the Approving Certificate.

The Bonds shall not be issued, sold or delivered until the above condition is satisfied. Upon satisfaction of the above condition, an Authorized Officer is authorized to execute a Proposal with the Purchaser providing for the sale of the Bonds to the Purchaser.

Section 19. Official Statement. The Common Council hereby approves the Preliminary Official Statement with respect to the Bonds and deems the Preliminary Official Statement as "final" as of its date for purposes of SEC Rule 15c2-12 promulgated by the Securities and Exchange Commission pursuant to the Securities and Exchange Act of 1934 (the "Rule"). All actions taken by officers of the City in connection with the preparation of such Preliminary Official Statement and any addenda to it or final Official Statement are hereby ratified and approved. In connection with the Closing, the appropriate City official shall certify the Preliminary Official Statement and any addenda or final Official Statement. The City Clerk shall cause copies of the Preliminary Official Statement and any addenda or final Official Statement to be distributed to the Purchaser.

Section 20. Undertaking to Provide Continuing Disclosure. The City hereby covenants and agrees, for the benefit of the owners of the Bonds, to enter into a written undertaking (the "Undertaking") if required by the Rule to provide continuing disclosure of certain financial information and operating data and timely notices of the occurrence of certain events in accordance with the Rule. The Undertaking shall be enforceable by the owners of the Bonds or by the Purchaser on behalf of such owners (provided that the rights of the owners and the Purchaser to enforce the Undertaking shall be limited to a right to obtain specific performance of

the obligations thereunder and any failure by the City to comply with the provisions of the Undertaking shall not be an event of default with respect to the Bonds).

To the extent required under the Rule, the Mayor and City Clerk, or other officer of the City charged with the responsibility for issuing the Bonds, shall provide a Continuing Disclosure Certificate for inclusion in the transcript of proceedings, setting forth the details and terms of the City's Undertaking.

Section 21. Record Book. The City Clerk shall provide and keep the transcript of proceedings as a separate record book (the "Record Book") and shall record a full and correct statement of every step or proceeding had or taken in the course of authorizing and issuing the Bonds in the Record Book.

Section 22. Bond Insurance. If the Purchaser determines to obtain municipal bond insurance with respect to the Bonds, the officers of the City are authorized to take all actions necessary to obtain such municipal bond insurance. The Mayor and City Clerk are authorized to agree to such additional provisions as the bond insurer may reasonably request and which are acceptable to the Mayor and City Clerk including provisions regarding restrictions on investment of Bond proceeds, the payment procedure under the municipal bond insurance policy, the rights of the bond insurer in the event of default and payment of the Bonds by the bond insurer and notices to be given to the bond insurer. In addition, any reference required by the bond insurer to the municipal bond insurance policy shall be made in the form of Bond provided herein.

Section 23. Conflicting Resolutions; Severability; Effective Date. All prior resolutions, rules or other actions of the Common Council or any parts thereof in conflict with the provisions hereof shall be, and the same are, hereby rescinded insofar as the same may so conflict. In the event that any one or more provisions hereof shall for any reason be held to be illegal or invalid, such illegality or invalidity shall not affect any other provisions hereof. The foregoing shall take effect immediately upon adoption and approval in the manner provided by law.

Adopted, approved and recorded July 6, 2020.

_____
Lori J. Voss
Mayor

ATTEST:

_____
Dan Grady
City Clerk

(SEAL)

EXHIBIT A

Notice of Sale

(See Attached)

NOTICE OF SALE

$2,080,000* GENERAL OBLIGATION STREET IMPROVEMENT BONDS, SERIES 2020A
CITY OF ABBOTSFORD, WISCONSIN

Bids for the purchase of $2,080,000* General Obligation Street Improvement Bonds, Series 2020A (the "Bonds") of the City of Abbotsford, Wisconsin (the "City") will be received at the offices of Ehlers and Associates, Inc. ("Ehlers"), 3060 Centre Pointe Drive, Roseville, Minnesota 55113-1105, municipal advisors to the City, until 10:00 A.M., Central Time, and **ELECTRONIC PROPOSALS** will be received via **PARITY**, in the manner described below, until 10:00 A.M. Central Time, on July 8, 2020, at which time they will be opened, read and tabulated. **The Common Council will adopt a resolution on July 6, 2020 (the "Parameters Resolution"), which authorizes the City Administrator/Clerk/Treasurer or Deputy City Clerk/Treasurer to accept a bid for the Bonds if the parameters and conditions set forth in the Parameters Resolution are satisfied. If the parameters and conditions set forth in the Parameters Resolution are not met through the competitive bids received on July 8, 2020, neither the City Administrator/Clerk/Treasurer or Deputy Clerk/Treasurer will have the authority to accept a bid for the Bonds, and all bids for the Bonds will be rejected.**

PURPOSE

The Bonds are being issued pursuant to Section 67.04, Wisconsin Statutes, for the public purpose of financing street improvement projects. The Bonds are general obligations of the City, and all the taxable property in the City is subject to the levy of a tax to pay the principal of and interest on the Bonds as they become due which tax may, under current law, be levied without limitation as to rate or amount.

DATES AND MATURITIES

The Bonds will be dated July 29, 2020, will be issued as fully registered Bonds in the denomination of $5,000 each, or any integral multiple thereof, and will mature as follows:

Year	Amount*	Year	Amount*	Year	Amount*
10/01/2021	$90,000	10/01/2028	$110,000	10/01/2035	$125,000
10/01/2022	100,000	10/01/2029	110,000	10/01/2036	130,000
10/01/2023	105,000	10/01/2030	110,000	10/01/2037	130,000
10/01/2024	105,000	10/01/2031	110,000	10/01/2038	60,000
10/01/2025	105,000	10/01/2032	115,000	10/01/2039	60,000
10/01/2026	105,000	10/01/2033	115,000	04/01/2040	65,000
10/01/2027	105,000	10/01/2034	125,000		

ADJUSTMENT OPTION

* The City reserves the right to increase or decrease the principal amount of the Bonds on the day of sale, in increments of $5,000 each. Increases or decreases may be made in any maturity. If any principal amounts are adjusted, the purchase price proposed will be adjusted to maintain the same gross spread per $1,000.

TERM BOND OPTION

Bids for the Bonds may contain a maturity schedule providing for any combination of serial bonds and term bonds, subject to mandatory redemption, so long as the amount of principal maturing or subject to mandatory redemption in each year conforms to the maturity schedule set forth above. All dates are inclusive.

INTEREST PAYMENT DATES AND RATES

Interest will be payable on April 1 and October 1 of each year, commencing April 1, 2021, to the registered owners of the Bonds appearing of record in the bond register as of the close of business on the 15th day (whether or not a business day) of the immediately preceding month. Interest will be computed upon the basis of a 360-day year of twelve 30-day months and will be rounded pursuant to rules of the Municipal Securities Rulemaking Board. All Bonds of the same maturity must bear interest from date of issue until paid at a single, uniform rate. Each rate must be expressed in an integral multiple of 5/100 or 1/8 of 1%.

BOOK-ENTRY-ONLY FORMAT

Unless otherwise specified by the purchaser, the Bonds will be designated in the name of Cede & Co., as nominee for The Depository Trust Company, New York, New York ("DTC"). DTC will act as securities depository for the Bonds, and will be responsible for maintaining a book-entry system for recording the interests of its participants and the transfers of interests between its participants. The participants will be responsible for maintaining records regarding the beneficial interests of the individual purchasers of the Bonds. So long as Cede & Co. is the registered owner of the Bonds, all payments of principal and interest will be made to the depository which, in turn, will be obligated to remit such payments to its participants for subsequent disbursement to the beneficial owners of the Bonds.

PAYING AGENT

The City has selected Bond Trust Services Corporation, Roseville, Minnesota, to act as paying agent (the "Paying Agent"). Bond Trust Services Corporation and Ehlers are affiliate companies. The City will pay the charges for Paying Agent services. The City reserves the right to remove the Paying Agent and to appoint a successor.

OPTIONAL REDEMPTION

At the option of the City, the Bonds maturing on or after October 1, 2029 shall be subject to optional redemption prior to maturity on October 1, 2028 or any date thereafter, at a price of par plus accrued interest.

Redemption may be in whole or in part of the Bonds subject to prepayment. If redemption is in part, the selection of the amounts and maturities of the Bonds to be redeemed shall be at the discretion of the City. If only part of the Bonds having a common maturity date are called for redemption, then the City or Paying Agent, if any, will notify DTC of the particular amount of such maturity to be redeemed. DTC will determine by lot the amount of each participant's interest in such maturity to be redeemed and each participant will then select by lot the beneficial ownership interest in such maturity to be redeemed.

Notice of such call shall be given by sending a notice by registered or certified mail, facsimile or electronic transmission, overnight delivery service or in any other manner required by DTC, not less than 30 days nor more than 60 days prior to the date fixed for redemption to the registered owner of each Bond to be redeemed at the address shown on the registration books.

DELIVERY

On or about July 29, 2020, the Bonds will be delivered without cost to the winning bidder at DTC. On the day of closing, the City will furnish to the winning bidder the opinion of bond counsel hereinafter described, an arbitrage certification, and certificates verifying that no litigation in any manner questioning the validity of the Bonds is then pending or, to the best knowledge of officers of the City, threatened. Payment for the Bonds must be received by the City at its designated depository on the date of closing in immediately available funds.

LEGAL MATTERS

An opinion as to the validity of the Bonds and the exemption from federal taxation of the interest thereon will be furnished by Quarles & Brady LLP, Bond Counsel to the City, and will be available at the time of delivery of the Bonds. The legal opinion will be issued on the basis of existing law and will state that the Bonds are valid and binding general obligations of the City; provided that the rights of the owners of the Bonds and the enforceability of the Bonds may be limited by bankruptcy, insolvency, reorganization, moratorium, and other similar laws affecting creditors' rights and by equitable principles (which may be applied in either a legal or equitable proceeding). (See "FORM OF LEGAL OPINION" found in Appendix B of the Preliminary Official Statement).

Quarles & Brady LLP has also been retained by the City to serve as Disclosure Counsel to the City with respect to the Bonds. Although, as Disclosure Counsel to the City, Quarles & Brady LLP has assisted the City with certain disclosure matters, Quarles & Brady LLP has not undertaken to independently verify the accuracy, completeness or sufficiency of this Official Statement or other offering material relating to the Bonds and assumes no responsibility whatsoever nor shall have any liability to any other party for the statements or information contained or incorporated by reference in this Official Statement. Further, Quarles & Brady LLP makes no representation as to the suitability of the Bonds for any investor.

SUBMISSION OF BIDS

Bids must not be for less than $2,055,040 plus accrued interest on the principal sum of $2,080,000 from date of original issue of the Bonds to date of delivery. **The maximum proposal allowed will be $2,204,800.** Prior to the time established above for the opening of bids, interested parties may submit a bid as follows:

1) Electronically to bondsale@ehlers-inc.com; or

2) Electronically via **PARITY** in accordance with this Notice of Sale until 10:00 A.M. Central Time, but no bid will be received after the time for receiving bids specified above. To the extent any instructions or directions set forth in **PARITY** conflict with this Notice of Sale, the terms of this Notice of Sale shall control. For further information about **PARITY**, potential bidders may contact Ehlers or i-Deal LLC at 1359 Broadway, 2nd Floor, New York, New York 10018, Telephone (212) 849-5021.

Bids must be submitted to Ehlers via one of the methods described above and must be received prior to the time established above for the opening of bids. Each bid must be unconditional except as to legality. Neither the City nor Ehlers shall be responsible for any failure to receive a facsimile submission.

A good faith deposit ("Deposit") in the amount of $41,600 shall be made by the winning bidder by wire transfer of funds. Such Deposit shall be received by Ehlers no later than two hours after the bid opening time. Wire transfer instructions will be provided to the winning bidder by Ehlers after the tabulation of bids. The City reserves the right to award the Bonds to a winning bidder whose wire transfer is initiated but not received by such time provided that such winning bidder's federal wire reference number has been received by such time. In the event the Deposit is not received as provided above, the City may award the Bonds to the bidder submitting the next best bid provided such bidder agrees to such award. The Deposit will be retained by the City as liquidated damages if the bid is accepted and the Purchaser fails to comply therewith.

The City and the winning bidder who chooses to so wire the Deposit hereby agree irrevocably that Ehlers shall be the escrow holder of the Deposit wired to such account subject only to these conditions and duties: 1) All income earned thereon shall be retained by the escrow holder as payment for its expenses; 2) If the bid is not accepted, Ehlers shall, at its expense, promptly return the Deposit amount to the winning bidder; 3) If the bid is accepted, the Deposit shall be returned to the winning bidder at the closing; 4) Ehlers shall bear all costs of maintaining the escrow account and returning the funds to the winning bidder; 5) Ehlers shall not be an insurer of the Deposit amount and shall have no liability hereunder except if it willfully fails to perform or recklessly disregards, its duties specified herein; and 6) FDIC insurance on deposits within the escrow account shall be limited to $250,000 per bidder.

No bid can be withdrawn after the time set for receiving bids unless the meeting of the City scheduled for award of the Bonds is adjourned, recessed, or continued to another date without award of the Bonds having been made.

AWARD

The Bonds will be awarded to the bidder offering the lowest interest rate to be determined on a True Interest Cost (TIC) basis. The City's computation of the interest rate of each bid, in accordance with customary practice, will be controlling. In the event of a tie, the sale of the Bonds will be awarded by lot. **The Bonds will not be awarded if the TIC (taking the purchaser's compensation into account) exceeds [____]% or if the other conditions set forth in the Parameters Resolution are not satisfied.** The City reserves the right to reject any and all bids and to waive any informality in any bid.

BOND INSURANCE

If the Bonds are qualified for any bond insurance policy, the purchase of such policy shall be at the sole option and expense of the winning bidder. Any cost for such insurance policy is to be paid by the winning bidder, except that, if the City requested and received a rating on the Bonds from a rating agency, the City will pay that rating fee. Any rating agency fees not requested by the City are the responsibility of the winning bidder.

Failure of the municipal bond insurer to issue the policy after the Bonds are awarded to the winning bidder shall not constitute cause for failure or refusal by the winning bidder to accept delivery of the Bonds.

CUSIP NUMBERS

The City will assume no obligation for the assignment or printing of CUSIP numbers on the Bonds or for the correctness of any numbers printed thereon, but will permit such numbers to be printed at the expense of the winning bidder, if the winning bidder waives any delay in delivery occasioned thereby.

QUALIFIED TAX-EXEMPT OBLIGATIONS

The City will designate the Bonds as qualified tax-exempt obligations for purposes of Section 265(b)(3) of the Internal Revenue Code of 1986, as amended.

CONTINUING DISCLOSURE

In order to assist the Underwriters in complying with the provisions of Rule 15c2-12 promulgated by the Securities and Exchange Commission under the Securities Exchange Act of 1934 the City will enter into an undertaking for the benefit of the holders of the Bonds. A description of the details and terms of the undertaking is set forth in Appendix D of the Official Statement.

NEW ISSUE PRICING

The winning bidder will be required to provide, in a timely manner, certain information necessary to compute the yield on the Bonds pursuant to the provisions of the Internal Revenue Code of 1986, as amended, and to provide a certificate which will be provided by Bond Counsel upon request.

(a) The winning bidder shall assist the City in establishing the issue price of the Bonds and shall execute and deliver to the City at closing an "issue price" or similar certificate satisfactory to Bond Counsel setting forth the reasonably expected initial offering price to the public or the sales price or prices of the Bonds, together with the supporting pricing wires or equivalent communications. All actions to be taken by the City under this Notice of Sale to establish the issue price of the Bonds may be taken on behalf of the City by the City's municipal advisor identified herein and any notice or report to be provided to the City may be provided to the City's municipal advisor.

(b) The City intends that the provisions of Treasury Regulation Section 1.148-1(f)(3)(i) (defining "competitive sale" for purposes of establishing the issue price of the Bonds) will apply to the initial sale of the Bonds (the "competitive sale requirements") because:

(1) The City shall disseminate this Notice of Sale to potential underwriters in a manner that is reasonably designed to reach potential investors;

(2) all bidders shall have an equal opportunity to bid;

(3) the City may receive bids from at least three underwriters of municipal bonds who have established industry reputations for underwriting new issuances of municipal bonds; and

(4) the City anticipates awarding the sale of the Bonds to the bidder who submits a firm offer to purchase the Bonds at the highest price (or lowest interest cost), as set forth in this Notice of Sale.

Any bid submitted pursuant to this Notice of Sale shall be considered a firm offer for the purchase of the Bonds, as specified in this bid.

(c) If all of the requirements of a "competitive sale" are not satisfied, the City shall advise the winning bidder of such fact prior to the time of award of the sale of the Bonds to the winning bidder. In such event, any bid submitted will not be subject to cancellation or withdrawal and the City agrees to use the rule selected by the winning bidder on its bid form to determine the issue price for the Bonds. On its bid form, each bidder must select one of the following two rules for determining the issue price of the Bonds: (1) the first price at which 10% of a maturity of the Bonds (the "10% test") is sold to the public as the issue price of that maturity or (2) the initial offering price to the public as of the sale date as the issue price of each maturity of the Bonds (the "hold-the-offering-price rule").

(d) If all of the requirements of a "competitive sale" are not satisfied and the winning bidder selects the hold-the-offering-price rule, the winning bidder shall (i) confirm that the underwriters have offered or will offer the Bonds to the public on or before the date of award at the offering price or prices (the "initial offering price"), or at the corresponding yield or yields, set forth in the bid submitted by the winning bidder and (ii) agree, on behalf of the underwriters participating in the purchase of the Bonds, that the underwriters will neither offer nor sell unsold Bonds of any maturity to which the hold-the-offering-price rule shall apply to any person at a price that is higher than the initial offering price to the public during the period starting on the sale date and ending on the earlier of the following:

(1) the close of the fifth (5^{th}) business day after the sale date; or

(2) the date on which the underwriters have sold at least 10% of that maturity of the Bonds to the public at a price that is no higher than the initial offering price to the public.

The winning bidder will advise the City promptly after the close of the fifth (5th) business day after the sale whether it has sold 10% of that maturity of the Bonds to the public at a price that is no higher than the initial offering price to the public.

The City acknowledges that in making the representation set forth above, the winning bidder will rely on:

(i) the agreement of each underwriter to comply with requirements for establishing issue price of the Bonds, including, but not limited to, its agreement to comply with the hold-the-price rule, if applicable to the Bonds, as set forth in an agreement among underwriters and the related pricing wires,

(ii) in the event a selling group has been created in connection with the initial sale of the Bonds to the public, the agreement of each dealer who is a member of the selling group to comply with the requirements for establishing issue price of the Bonds, including, but not limited to, its agreement to comply with the hold-the-offering-price rule, if applicable to the Bonds, as set forth in a selling group agreement and the related pricing wires, and

(iii) in the event that an underwriter or dealer who is a member of the selling group is a party to a third-party distribution agreement that was employed in connection with the initial sale of the Bonds to the public, the agreement of each broker-dealer that is party to such agreement to comply with the requirements for establishing issue price of the Bonds, including, but not limited to, its agreement to comply with the hold-the-offering-price rule, if applicable to the Bonds, as set forth in the third-party distribution agreement and the related pricing wires. The City further acknowledges that each underwriter shall be solely liable for its failure to comply with its agreement regarding the requirements for establishing issue price rule of the Bonds, including, but not limited to, its agreement to comply with the hold-the-offering-price rule, if applicable to the Bonds, and that no underwriter shall be liable for the failure of any other underwriter, or of any dealer who is a member of a selling group, or of any broker-dealer that is a party to a third-party distribution agreement to comply with its corresponding agreement to comply with the requirements for establishing issue price of the Bonds, including, but not limited to, its agreement to comply with the hold-the-offering-price rule as applicable to the Bonds.

(e) If all of the requirements of a "competitive sale" are not satisfied and the winning bidder selects the 10% test, the winning bidder agrees to promptly report to the City, Bond Counsel and Ehlers the prices at which the Bonds have been sold to the public. That reporting obligation shall continue, whether or not the closing date has occurred, until either (i) all Bonds of that maturity have been sold or (ii) the 10% test has been satisfied as to each maturity of the Bonds, provided that, the winning bidder's reporting obligation after the Closing Date may be at reasonable periodic intervals or otherwise upon request of the City or bond counsel.

(f) By submitting a bid, each bidder confirms that:

(i) any agreement among underwriters, any selling group agreement and each third-party distribution agreement (to which the bidder is a party) relating to the initial sale of the Bonds to the public, together with the related pricing wires, contains or will contain language obligating each underwriter, each dealer who is a member of the selling group, and each broker-dealer that is party to such third-party distribution agreement, as applicable, to:

(A) report the prices at which it sells to the public the unsold Bonds of each maturity allocated to it, whether or not the Closing Date has occurred until either all securities of that maturity allocated to it have been sold or it is notified by the winning bidder that either the 10% test has been satisfied as to the Bonds of that maturity, provided that, the reporting obligation after the Closing Date may be at reasonable periodic intervals or otherwise upon request of the City or bond counsel.

(B) comply with the hold-the-offering-price rule, if applicable, in each case if and for so long as directed by the winning bidder and as set forth in the related pricing wires, and

(ii) any agreement among underwriters or selling group agreement relating to the initial sale of the Bonds to the public, together with the related pricing wires, contains or will contain language obligating each underwriter, each

dealer who is a member of the selling group and each broker dealer that is a party to a third-party distribution agreement to be employed in connection with the initial sale of the Bonds to the public to require each broker-dealer that is a party to such third-party distribution agreement to:

(A) to promptly notify the winning bidder of any sales of Bonds that, to its knowledge, are made to a purchaser who is a related party to an underwriter participating in the initial sale of the Bonds to the public (each such term being used as defined below), and

(B) to acknowledge that, unless otherwise advised by the underwriter, dealer or broker-dealer, the winning bidder shall assume that each order submitted by the underwriter, dealer or broker-dealer is a sale to the public.

(g) Sales of any Bonds to any person that is a related party to an underwriter participating in the initial sale of the Bonds to the public (each term being used as defined below) shall not constitute sales to the public for purposes of this Notice of Sale. Further, for purposes of this Notice of Sale:

(i) "public" means any person other than an underwriter or a related party,

(ii) "underwriter" means (A) any person that agrees pursuant to a written contract with the City (or with the lead underwriter to form an underwriting syndicate) to participate in the initial sale of the Bonds to the public and (B) any person that agrees pursuant to a written contract directly or indirectly with a person described in clause (A) to participate in the initial sale of the Bonds to the public (including a member of a selling group or a party to a third-party distribution agreement participating in the initial sale of the Bonds to the public),

(iii) a purchaser of any of the Bonds is a "related party" to an underwriter if the underwriter and the purchaser are subject, directly or indirectly, to (A) more than 50% common ownership of the voting power or the total value of their stock, if both entities are corporations (including direct ownership by one corporation of another), (B) more than 50% common ownership of their capital interests or profits interests, if both entities are partnerships (including direct ownership by one partnership of another), or (C) more than 50% common ownership of the value of the outstanding stock of the corporation or the capital interests or profit interests of the partnership, as applicable, if one entity is a corporation and the other entity is a partnership (including direct ownership of the applicable stock or interests by one entity of the other), and

(iv) "sale date" means the date that the Bonds are awarded by the City to the winning bidder.

PRELIMINARY OFFICIAL STATEMENT

Bidders may obtain a copy of the Preliminary Official Statement relating to the Bonds prior to the bid opening by request from Ehlers at www.ehlers-inc.com by connecting to the Bond Sales link. The Syndicate Manager will be provided with an electronic copy of the Final Official Statement within seven business days of the bid acceptance. Up to 10 printed copies of the Final Official Statement will be provided upon request. Additional copies of the Final Official Statement will be available at a cost of $10.00 per copy.

Information for bidders and bid forms may be obtained from Ehlers at 3060 Centre Pointe Drive, Roseville, Minnesota 55113-1105, Telephone (651) 697-8500.

By Order of the Common Council

City of Abbotsford, Wisconsin

EXHIBIT B

Approving Certificate

(See Attached)

CERTIFICATE APPROVING THE DETAILS OF
GENERAL OBLIGATION STREET IMPROVEMENT BONDS, SERIES 2020A

The undersigned [_____] of the City of Abbotsford, Clark and Marathon Counties, Wisconsin (the "City") hereby certifies that:

1. Resolution. On July 6, 2020, the Common Council of the City adopted a resolution (the "Resolution") establishing parameters for the sale of not to exceed $2,080,000 General Obligation Street Improvement Bonds, Series 2020A of the City (the "Bonds") after a public sale and delegating to me the authority to approve the purchase proposal for the Bonds, and to determine the details for the Bonds within the parameters established by the Resolution.

2. Proposal; Terms of the Bonds. On the date hereof, the Bonds were offered for public sale and the bids set forth on the Bid Tabulation attached hereto as Schedule I and incorporated herein by this reference were received and the institution listed first on the Bid Tabulation (the "Purchaser") offered to purchase the Bonds in accordance with the terms set forth in the Proposal attached hereto as Schedule II and incorporated herein by this reference (the "Proposal"). Ehlers & Associates, Inc. recommends the City accept the Proposal. The Proposal meets the parameters and conditions established by the Resolution and is hereby approved and accepted.

The Bonds shall be issued in the aggregate principal amount of $_____, which is not more than the $2,080,000 approved by the Resolution, and shall mature on the dates and in the amounts and shall bear interest at the rates per annum as set forth in the Pricing Summary attached hereto as Schedule III and incorporated herein by this reference. The amount of each annual principal or mandatory redemption payment due on the Bonds is not more than $50,000 more or less per maturity or mandatory redemption amount than the schedule included in the Resolution as set forth below:

Date	Resolution Schedule	Actual Amount
10-01-2021	$135,000	$_____
10-01-2022	140,000	_____
10-01-2023	100,000	_____
10-01-2024	85,000	_____
10-01-2025	90,000	_____
10-01-2026	90,000	_____
10-01-2027	90,000	_____
10-01-2028	95,000	_____
10-01-2029	105,000	_____
10-01-2030	105,000	_____
10-01-2031	110,000	_____

Date	Resolution Schedule	Actual Amount
10-01-2032	$110,000	_____
10-01-2033	110,000	_____
10-01-2034	115,000	_____
10-01-2035	125,000	_____
10-01-2036	130,000	_____
10-01-2037	130,000	_____
10-01-2038	60,000	_____
10-01-2039	60,000	_____
04-01-2040	70,000	_____

The true interest cost on the Bonds (computed taking the Purchaser's compensation into account) is _____%, which is not in excess of 3.25%, as required by the Resolution.

3. Purchase Price of the Bonds. The Bonds shall be sold to the Purchaser in accordance with the terms of the Proposal at a price of $_____, plus accrued interest, if any, to the date of delivery of the Bonds which is not less than 98.80% nor more than 106.00% of the principal amount of the Bonds as required by the Resolution.

4. [Redemption Provisions of the Bonds. The Proposal specifies that the Bonds are subject to mandatory redemption and the terms of such mandatory redemption are set forth on an attachment hereto as Exhibit MRP and incorporated herein by this reference.]

5. Direct Annual Irrepealable Tax Levy. For the purpose of paying the principal of and interest on the Bonds as the same respectively falls due, the full faith, credit and taxing powers of the City have been irrevocably pledged and there has been levied on all of the taxable property in the City, pursuant to the Resolution, a direct, annual irrepealable tax in an amount and at the times sufficient for said purpose. Such tax shall be for the years and in the amounts set forth on the debt service schedule attached hereto as Schedule IV.

6. Approval. This Certificate constitutes my approval of the Proposal, and the principal amount, definitive maturities, interest rates, purchase price and mandatory redemption provisions for the Bonds and the amount of the direct annual irrepealable tax levy to repay the Bonds, in satisfaction of the parameters set forth in the Resolution.

IN WITNESS WHEREOF, I have executed this Certificate on July [___], 2020 pursuant to the authority delegated to me in the Resolution.

_____

[_____]

[_____]

SCHEDULE I TO APPROVING CERTIFICATE

Bid Tabulation

To be provided by Ehlers & Associates, Inc. and incorporated into the Certificate.

(See Attached)

SCHEDULE II TO APPROVING CERTIFICATE

Proposal

To be provided by Ehlers & Associates, Inc. and incorporated into the Certificate.

(See Attached)

SCHEDULE III TO APPROVING CERTIFICATE

Pricing Summary

To be provided by Ehlers & Associates, Inc. and incorporated into the Certificate.

(See Attached)

SCHEDULE IV TO APPROVING CERTIFICATE

Debt Service Schedule and Irrepealable Tax Levies

To be provided by Ehlers & Associates, Inc. and incorporated into the Certificate.

(See Attached)

[EXHIBIT MRP

Mandatory Redemption Provision

The Bonds due on _____ 1, ____ and ____ (the "Term Bonds") are subject to mandatory redemption prior to maturity by lot (as selected by the Depository) at a redemption price equal to One Hundred Percent (100%) of the principal amount to be redeemed plus accrued interest to the date of redemption, from debt service fund deposits which are required to be made in amounts sufficient to redeem on _____1 of each year the respective amount of Term Bonds specified below:

For the Term Bonds Maturing on _____ 1, 20__

Redemption Date	Amount
____	$_____
____	_____
____	_____ (maturity)

For the Term Bonds Maturing on _____ 1, 20__

Redemption Date	Amount
____	$_____
____	_____
____	_____ (maturity)

For the Term Bonds Maturing on _____ 1, 20__

Redemption Date	Amount
____	$_____
____	_____
____	_____ (maturity)

For the Term Bonds Maturing on _____ 1, 20__

Redemption Date	Amount
____	$_____
____	_____
____	_____ (maturity)]

EXHIBIT C

(Form of Bond)

UNITED STATES OF AMERICA

REGISTERED STATE OF WISCONSIN DOLLARS

CLARK AND MARATHON COUNTIES

NO. R-___ CITY OF ABBOTSFORD $_____

GENERAL OBLIGATION STREET IMPROVEMENT BOND, SERIES 2020A

MATURITY DATE:	ORIGINAL DATE OF ISSUE:	INTEREST RATE:	CUSIP:
[_____] 1, _____	July 29, 2020	____%	_____

DEPOSITORY OR ITS NOMINEE NAME: CEDE & CO.

PRINCIPAL AMOUNT: _____ THOUSAND DOLLARS
($_____)

FOR VALUE RECEIVED, the City of Abbotsford, Clark and Marathon Counties, Wisconsin (the "City"), hereby acknowledges itself to owe and promises to pay to the Depository or its Nominee Name (the "Depository") identified above (or to registered assigns), on the maturity date identified above, the principal amount identified above, and to pay interest thereon at the rate of interest per annum identified above, all subject to the provisions set forth herein regarding redemption prior to maturity. Interest shall be payable semi-annually on April 1 and October 1 of each year commencing on April 1, 2021 until the aforesaid principal amount is paid in full. Both the principal of and interest on this Bond are payable to the registered owner in lawful money of the United States. Interest payable on any interest payment date shall be paid by wire transfer to the Depository in whose name this Bond is registered on the Bond Register maintained by Bond Trust Services Corporation, Roseville, Minnesota (the "Fiscal Agent") or any successor thereto at the close of business on the 15th day of the calendar month next preceding each interest payment date (the "Record Date"). This Bond is payable as to principal upon presentation and surrender hereof at the office of the Fiscal Agent.

For the prompt payment of this Bond together with interest hereon as aforesaid and for the levy of taxes sufficient for that purpose, the full faith, credit and resources of the City are hereby irrevocably pledged.

This Bond is one of an issue of Bonds aggregating the principal amount of $[_____], all of which are of like tenor, except as to denomination, interest rate, maturity date and redemption provision, issued by the City pursuant to the provisions of Section 67.04, Wisconsin Statutes, for the public purpose of paying the cost of street improvement projects, as authorized by resolutions adopted on June 1, 2020 and July 6, 2020 as supplemented by a Certificate Approving the Details of General Obligation Street Improvement Bonds, Series 2020A (collectively, the

"Resolution"). Said Resolutions are recorded in the official minutes of the Common Council for said dates.

The Bonds maturing on October 1, 2029 and thereafter are subject to redemption prior to maturity, at the option of the City, on October 1, 2028 or on any date thereafter. Said Bonds are redeemable as a whole or in part, and if in part, from maturities selected by the City, and within each maturity by lot (as selected by the Depository), at the principal amount thereof, plus accrued interest to the date of redemption.

[The Bonds maturing in the years _____ are subject to mandatory redemption by lot as provided in the Resolution, at the redemption price of par plus accrued interest to the date of redemption and without premium.]

In the event the Bonds are redeemed prior to maturity, as long as the Bonds are in book-entry-only form, official notice of the redemption will be given by mailing a notice by registered or certified mail, overnight express delivery, facsimile transmission, electronic transmission or in any other manner required by the Depository, to the Depository not less than thirty (30) days nor more than sixty (60) days prior to the redemption date. If less than all of the Bonds of a maturity are to be called for redemption, the Bonds of such maturity to be redeemed will be selected by lot. Such notice will include but not be limited to the following: the designation, date and maturities of the Bonds called for redemption, CUSIP numbers, and the date of redemption. Any notice provided as described herein shall be conclusively presumed to have been duly given, whether or not the registered owner receives the notice. The Bonds shall cease to bear interest on the specified redemption date provided that federal or other immediately available funds sufficient for such redemption are on deposit at the office of the Depository at that time. Upon such deposit of funds for redemption the Bonds shall no longer be deemed to be outstanding.

It is hereby certified and recited that all conditions, things and acts required by law to exist or to be done prior to and in connection with the issuance of this Bond have been done, have existed and have been performed in due form and time; that the aggregate indebtedness of the City, including this Bond and others issued simultaneously herewith, does not exceed any limitation imposed by law or the Constitution of the State of Wisconsin; and that a direct annual irrepealable tax has been levied sufficient to pay this Bond, together with the interest thereon, when and as payable.

This Bond has been designated by the Common Council as a "qualified tax-exempt obligation" pursuant to the provisions of Section 265(b)(3) of the Internal Revenue Code of 1986, as amended.

This Bond is transferable only upon the books of the City kept for that purpose at the office of the Fiscal Agent, only in the event that the Depository does not continue to act as depository for the Bonds, and the City appoints another depository, upon surrender of the Bond to the Fiscal Agent, by the registered owner in person or his duly authorized attorney, together with a written instrument of transfer (which may be endorsed hereon) satisfactory to the Fiscal Agent duly executed by the registered owner or his duly authorized attorney. Thereupon a new

fully registered Bond in the same aggregate principal amount shall be issued to the new depository in exchange therefor and upon the payment of a charge sufficient to reimburse the City for any tax, fee or other governmental charge required to be paid with respect to such registration. The Fiscal Agent shall not be obliged to make any transfer of the Bonds (i) after the Record Date, (ii) during the fifteen (15) calendar days preceding the date of any publication of notice of any proposed redemption of the Bonds, or (iii) with respect to any particular Bond, after such Bond has been called for redemption. The Fiscal Agent and City may treat and consider the Depository in whose name this Bond is registered as the absolute owner hereof for the purpose of receiving payment of, or on account of, the principal or redemption price hereof and interest due hereon and for all other purposes whatsoever. The Bonds are issuable solely as negotiable, fully-registered Bonds without coupons in the denomination of $5,000 or any integral multiple thereof.

This Bond shall not be valid or obligatory for any purpose until the Certificate of Authentication hereon shall have been signed by the Fiscal Agent.

No delay or omission on the part of the owner hereof to exercise any right hereunder shall impair such right or be considered as a waiver thereof or as a waiver of or acquiescence in any default hereunder.

IN WITNESS WHEREOF, the City of Abbotsford, Clark and Marathon Counties, Wisconsin, by its governing body, has caused this Bond to be executed for it and in its name by the manual or facsimile signatures of its duly qualified Mayor and City Clerk; and to be sealed with its official or corporate seal, if any, all as of the original date of issue specified above.

CITY OF ABBOTSFORD
CLARK AND MARATHON COUNTIES,
WISCONSIN

By: _____
Lori J. Voss
Mayor

(SEAL)

By: _____
Dan Grady
City Clerk

Date of Authentication: _____, _____

CERTIFICATE OF AUTHENTICATION

This Bond is one of the Bonds of the issue authorized by the within-mentioned Resolution of the City of Abbotsford, Clark and Marathon Counties, Wisconsin.

BOND TRUST SERVICES
CORPORATION,
ROSEVILLE, MINNESOTA

By_____
Authorized Signatory

ASSIGNMENT

FOR VALUE RECEIVED, the undersigned sells, assigns and transfers unto

_____

(Name and Address of Assignee)

_____

(Social Security or other Identifying Number of Assignee)

the within Bond and all rights thereunder and hereby irrevocably constitutes and appoints _____, Legal Representative, to transfer said Bond on the books kept for registration thereof, with full power of substitution in the premises.

Dated: _____

Signature Guaranteed:

_____

(e.g. Bank, Trust Company or Securities Firm)

_____

(Depository or Nominee Name)

NOTICE: This signature must correspond with the name of the Depository or Nominee Name as it appears upon the face of the within Bond in every particular, without alteration or enlargement or any change whatever.

_____

(Authorized Officer)

Wisconsin Elections Commission

212 East Washington Avenue | Third Floor | P.O. Box 7984 | Madison, WI 53707-7984
(608) 266-8005 | elections@wi.gov | elections.wi.gov

2020 WEC CARES Subgrant

Notice of WEC CARES Subgrant Award

Wisconsin Elections Commission
212 East Washington Avenue, 3rd Floor
PO Box 7984; Madison, WI 53707-7984

Subgrantee: City of Abbotsford, Clark and Marathon Counties
Subgrantee DUNS Number: N/A
Date: 6/22/2020

City of Abbotsford, Clark and Marathon Counties has been awarded **$1,371.30** (a $200 base subgrant plus an additional $1.10 per registered voter as of June 1, 2020) under the WEC CARES Subgrant, issued by the Wisconsin Elections Commission. These funds are a subgrant of the 2020 HAVA CARES Act Grant, Agreement Number WI20101CARES, CFDA Number 90.404, authorized by the U.S. Congress under Section 101 of the Help America Vote Act of 2002 (HAVA) (Public Law 107-252), provided for in the *Coronavirus Aid, Relief and Economic Security (CARES) Act (Public Law 116-136)* and issued by the U.S. Election Assistance Commission (Funding Source: EAC1651DB2020DR-2020-61000001-410001-EAC1908000000) for which the Wisconsin Elections Commission was awarded on April 6, 2020.

As a sub-recipient, your jurisdiction must adhere to all applicable federal requirements including Office of Management and Budget (OMB) guidance: Title 2 C.F.R. Subtitle A, Chapter II, Part 200-Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards (2 C.F.R. § 200).

I. ALLOWABLE USES

Purpose and Use of Funds. The CARES Act makes clear that grant funds are for ADDITIONAL costs associated with the national emergency related to coronavirus and are to be spent *"to prevent, prepare for, and respond to coronavirus, domestically or internationally, for the 2020 Federal election cycle.*" Additional costs are those incurred outside of the jurisdiction's budgeted costs for the 2020 federal elections or those costs that are solely incurred due to the pandemic. For the purpose of this subgrant, those allowable uses span the period **January 20, 2020 through November 30, 2020** and include the seven following categories:

1. ADDITIONAL BALLOT SUPPLIES, PRINTING, AND POSTAGE COSTS for higher levels of absentee or vote by mail processes, including printers, scanners, and envelope openers costing less than $5000 per unit.

2. ADDITIONAL CLEANING SUPPLIES, CLEANING SERVICES AND PROTECTIVE EQUIPMENT including additional disinfectants, wipes, paper towels, deep cleaning services for polling places pre- and post-election, masks, gloves, gowns, face shields, plexiglass, thermometers

and other equipment for staff and poll workers' virus protection for in-person absentee voting sites, election day polling places and absentee central-count locations.

3. ADDITIONAL STAFFING FOR PROCESSING of higher levels of absentee ballot requests and absentee ballot tabulation, as expanded hours, overtime, Hazard Pay and associated benefits costs for election staff and poll workers or unbudgeted temporary election staff or poll workers and for additional staffing for cleaning polling locations and creating other protective measures.

4. ADDITIONAL MAILINGS FOR PUBLIC COMMUNICATION of changes in registration, absentee ballot request options, or voting procedures, including information on coronavirus precautions being implemented during the voting process.

5. ADDITIONAL ABSENTEE DROP-BOXES, installation, and security.

6. ADDITIONAL SPACE LEASING for new polling places when existing sites are closed or relocated due to the pandemic.

7. ACQUISITION OF ADDITIONAL EQUIPMENT necessary to process the higher volume of absentee ballots. This includes new automated letter opening equipment, paper folding machines, high speed or central count tabulators, and mobile IT equipment. (This "Equipment" category defined as costing equal or greater than $5000 per unit. Equipment costs less than $5000 should instead be reported under the applicable category above, most likely Additional Ballot Supplies. Additional reporting and documentation are required for allowable equipment purchases as outlined in the below referenced CFR sections.)

Per the Code of Federal Regulations, Title 2 (2 CFR) §200.33:

> "Equipment means tangible personal property (including information technology systems) having a useful life of more than one year and a per-unit acquisition cost which equals or exceeds the lesser of the capitalization level established by the non-Federal entity for financial statement purposes, or $5,000. See also §§200.12 Capital assets, 200.20 Computing devices, 200.48 General purpose equipment, 200.58 Information technology systems, 200.89 Special purpose equipment, and 200.94 Supplies."

II. DOCUMENTATION, AUDIT, AND REPORTING

DOCUMENTATION: The receiving jurisdiction must maintain all documentation of purchases made using subgrant funds provided by this subgrant until December 31, 2024. Documentation includes receipts, invoices, payroll reports, etc. and notations to document that claimed expenditures are due to the pandemic.

A standard inventory list of all items purchased using subgrant funds must be created and maintained by the jurisdiction for purposes of any state or federal audit. Such original purchasing documentation and inventory lists shall be retained by the receiving jurisdiction until the WEC authorizes destruction of said records.

AUDIT: All subgrant funds are subject to audit by the Commission and/or the federal government to ensure funds have been spent appropriately and in accordance with all applicable state and federal laws.

Pursuant to Wis. Stat. § 5.05(11), if the federal government objects to the use of any funds provided to a municipality under the subgrant, the municipality shall repay the amount of the subgrant to the Commission.

REPORTING: September 15, 2020 and December 1, 2020. A Check-In is due September 15, 2020 that covers the period of January 20, 2020 – September 1, 2020. The final report is due December 1, 2020, covering January 20, 2020 – November 30, 2020. By those two deadlines, all receiving jurisdictions must complete and submit to the Commission the WEC CARES Subgrant Expenditures Reporting template for the corresponding period reporting the total pandemic-related election expenditures claimed in the seven categories listed below and detailed above:

1. **Ballots/Ballot Supplies/Printing/Postage**
2. **Cleaning Supplies & Services / Protective Equipment**
3. **Additional Staffing**
4. **Public Communications**
5. **Absentee Ballot Drop-Boxes**
6. **Additional Leasing**
7. **Equipment**

III. TIMELINES

- **EXPENDITURE PERIOD:** January 20, 2020 – November 30, 2020. Allowable expenses must have been incurred between January 20, 2020 through November 30, 2020. All bills/invoices do NOT have to be paid by November 30, 2020, but the expenses need to be incurred by that date to qualify under the subgrant.

- **SUBGRANT AGREEMENT RETURN DEADLINE:** September 1, 2020. The Commission will expedite the disbursement of funds as the agreements are received. Commission staff will award subgrants as a $200 base subgrant plus an additional $1.10 per registered voter as of June 1, 2020. Subgrant allocation is within the sole discretion of the Commission staff administering the subgrant program. Subgrant funds may be received through electronic transfer to a jurisdiction's shared revenues account (if available) or a physical check may be sent to a jurisdiction's shared revenues location. For questions related to the processing of subgrant checks, please contact the Commission's financial team via the WEC Help Desk at (608) 261-2028 or elections.finance@wi.gov

- **PANDEMIC EXPENDITURE REPORTING DEADLINES:** Check-In September 15, 2020 and Final Report December 1, 2020. The jurisdiction's final report of all sufficiently documented pandemic expenditures in the seven categories listed in Section II of this agreement, is due December 1, 2020. This deadline allows the Commission's financial staff to meets its federal grant reporting deadlines, therefore it is important for jurisdictions to file the final expenditure report on time. The Commission will provide to participating jurisdictions a template report, and the jurisdiction will fill in the seven total expenditure amounts for the seven categories in Section II of this agreement. This is an important deadline. If a report is not received by December 1, 2020, the jurisdiction may be required to return all subgrant funds received. The same report is to be used for the September 15, 2020 Check-In but covering the period of January 20, 2020 – September 1, 2020.

- **RETURN OF UNUSED FUNDS**: December 15, 2020. Jurisdictions must return any unused subgrant funds by December 15, 2020. Also, if a jurisdiction fails to submit a Pandemic Expenditure Report by December 1, 2020, the jurisdiction may be required to return all subgrant funds received.

IV. CERTIFICATIONS

In your signed WEC CARES Agreement, you certified the following:

- As the receiving jurisdiction, we certify that we will solely use the WEC CARES Subgrant funds for costs incurred due to the pandemic affecting the 2020 federal elections.

- As the receiving jurisdiction, we certify that we do or will have the necessary processes and systems in place to comply with the reporting requirements.

- As the receiving jurisdiction, we will maintain all documentation of purchases made using subgrant funds provided in this subgrant until December 31, 2024.

- As the receiving jurisdiction, we will return any unused funds by December 15, 2020.

- As the receiving jurisdiction, by September 15, 2020 and December 1, 2020 we will submit to the Commission a simple report of the total expenditures in the seven categories detailed above: 1. Ballots/Ballot Supplies/Printing/Postage, 2. Cleaning/PPE, 3. Staffing, 4. Public Communications, 5. Absentee Ballot Drop-Boxes, 6. Space Leasing/Polling Place Relocation, and 7. Equipment.

- As the receiving jurisdiction, we further certify that we will follow all state and federal laws, including adherence to all applicable federal requirements including Office of Management and Budget (OMB) guidance: Title 2 C.F.R. Subtitle A, Chapter II, Part 200-Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards (2 C.F.R. § 200) found here: (https://www.govinfo.gov/app/collection/cfr/2019/)

Julia Billingham, MAcc
Senior Accountant
WI Elections Commission
212 East Washington Avenue, 3rd Floor
PO Box 7984; Madison, WI 53707-7984
Direct: 608.266.2094; General WEC: 608.266.8005
julia.billingham@wisconsin.gov
http://elections.wi.gov

NAI Pfefferle

For Sale
± 0.40 Acres/Each
Available Lots

Swamp Buck Drive & Porcupine Lane

Abbotsford, WI 54405

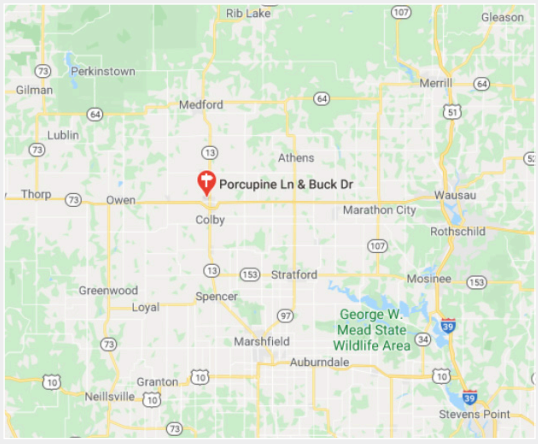
Contractors have a wonderful opportunity to build some spec homes or partner with owners desiring to build a cost effective residence in a newly developed neighborhood.

Electric, natural gas and high speed internet access.

Complete with a park and a potential future community center.

Must be developed within one year of closing and a finished driveway within two years.

This is a targeted development area with TIF District incentives.



PRICE	**$5,000/Lot**
LOT SIZES	± 0.40 Each
ZONED	Residential

For more information:

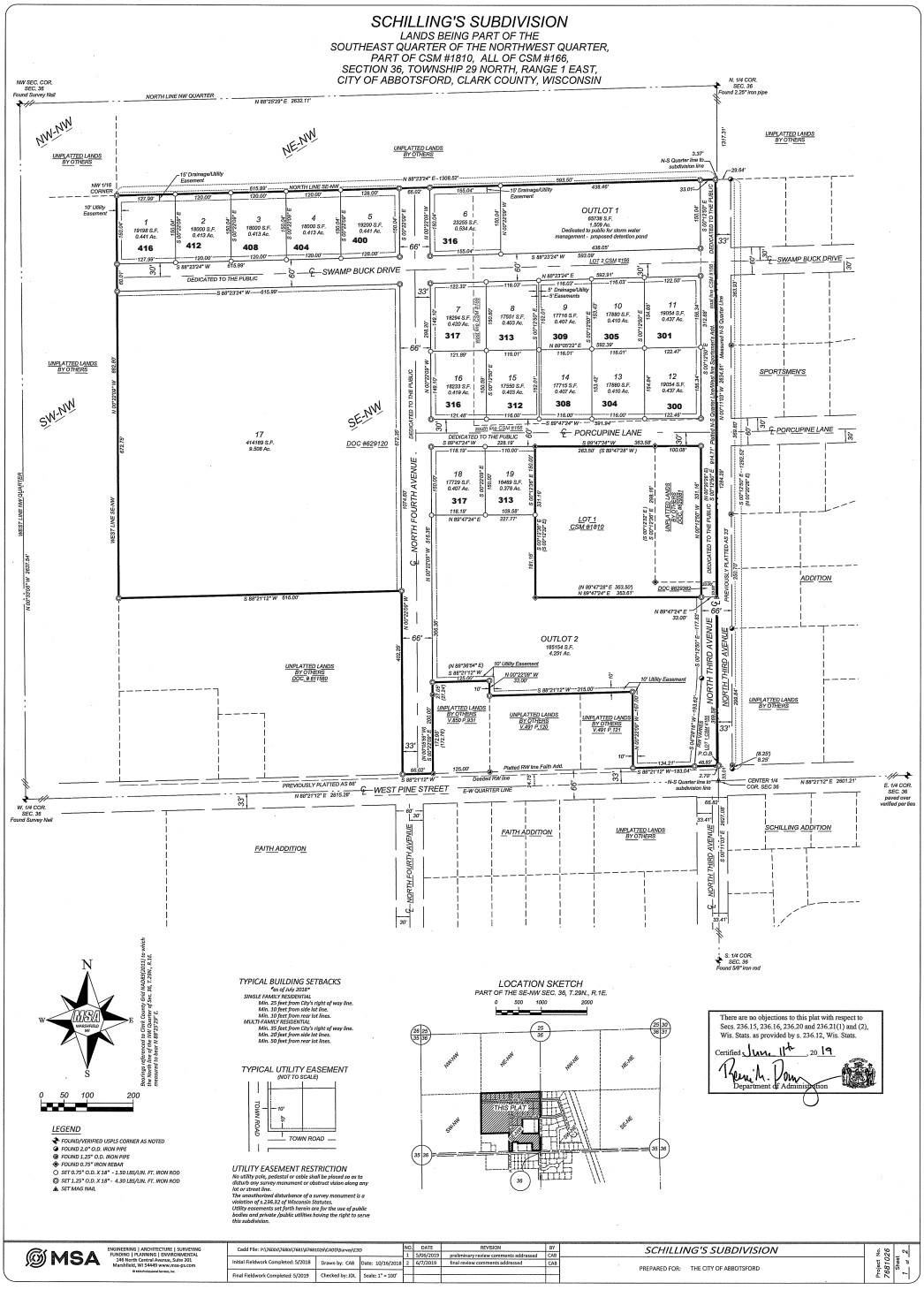
Tony "T.J." Morice
715.218.2900 • TJM@naipfefferle.com

327 N. 17th Avenue, Suite 303
Wausau, WI 54401
715.261.2922
naipfefferle.com

For Sale

Swamp Buck Drive & Porcupine Lane Abbotsford, WI 54405

Schilling Plat - Numbered

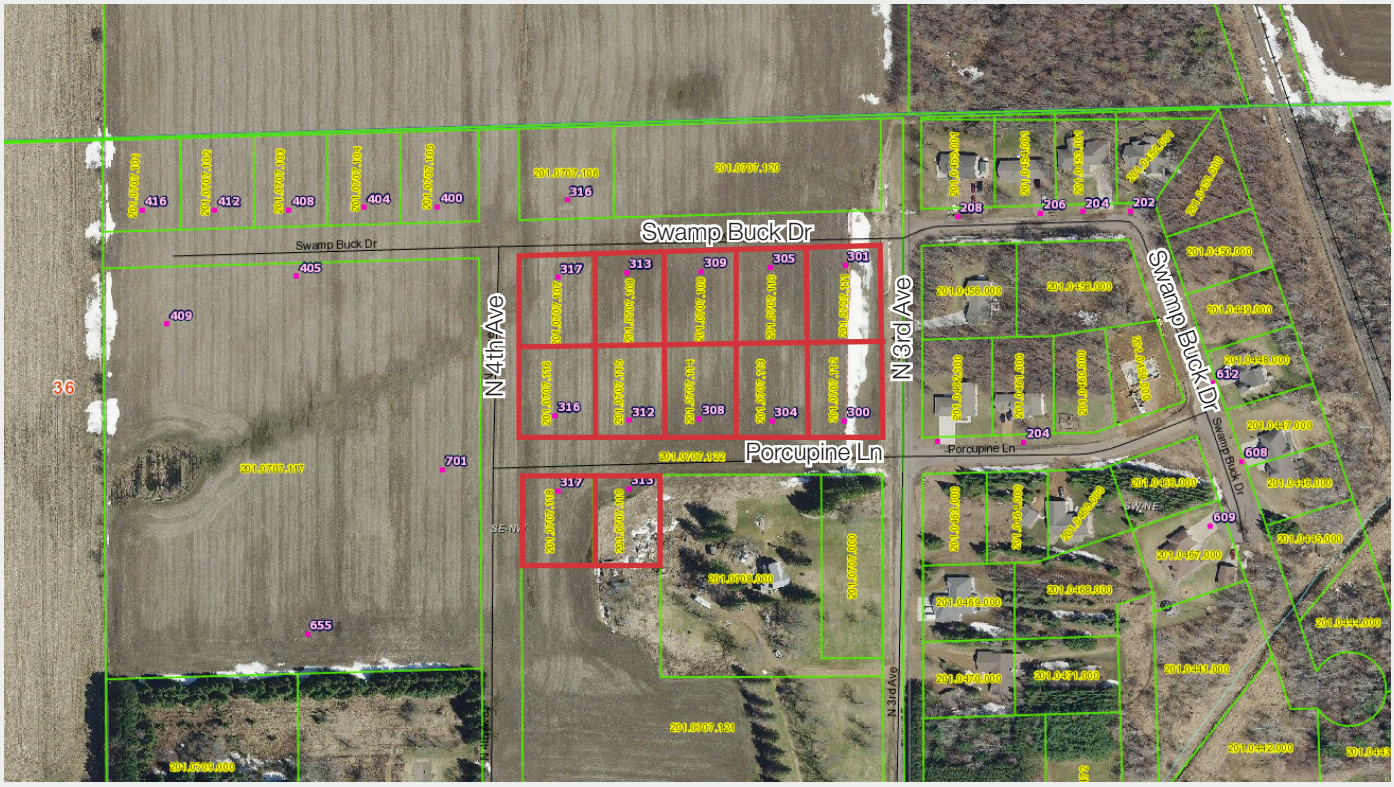


NAIPfefferle

327 N. 17th Avenue, Suite 303
Wausau, WI 54401
715.261.2922
naipfefferle.com

For Sale
Swamp Buck Drive & Porcupine Lane Abbotsford, WI 54405

Aerial View



Parcel Acreage

PARCEL 201.0707.107	0.42
PARCEL 201.0707.108	0.40
PARCEL 201.0707.109	0.41
PARCEL 201.0707.110	0.41
PARCEL 201.0707.111	0.44
PARCEL 201.0707.112	0.44
PARCEL 201.0707.113	0.41
PARCEL 201.0707.114	0.41
PARCEL 201.0707.115	0.40
PARCEL 201.0707.116	0.42
PARCEL 201.0707.118	0.41
PARCEL 201.0707.119	0.38

327 N. 17th Avenue, Suite 303
Wausau, WI 54401
715.261.2922
naipfefferle.com

For Sale
Swamp Buck Drive &
Porcupine Lane
Abbotsford, WI 54405

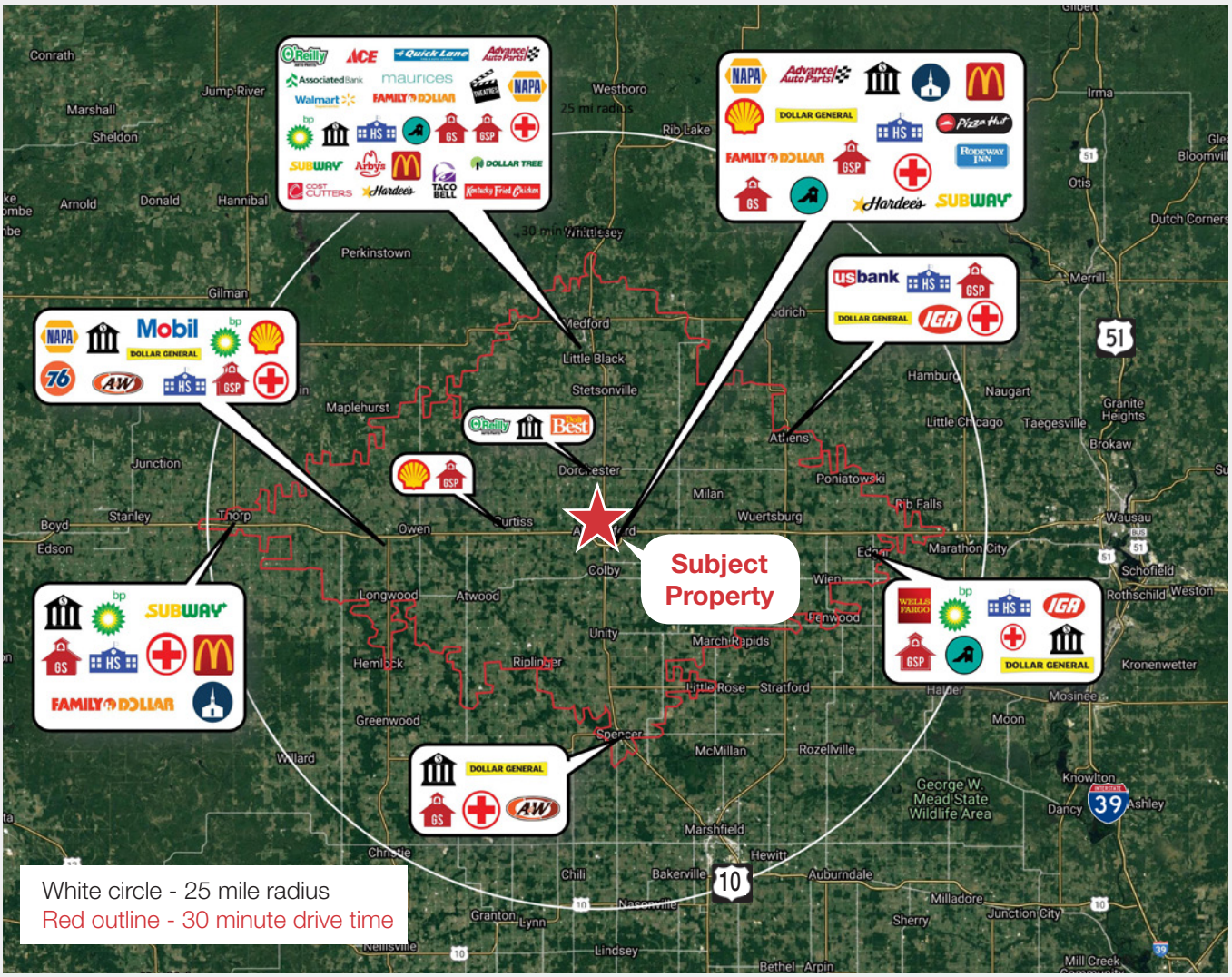
2020 Demographics

	1 MILE	5 MILES
POPULATION	2,182	7,231
HOUSEHOLDS	852	2,776
AVG HOUSEHOLD INCOME	$51,975	$54,783
TOTAL EMPLOYEES	1,021	3,301

Occupation (2020)

	25 miie radius	30 min drivetime
OCCUPATION POPULATION OVER 16 YRS OF AGE	45,507	17,376
OCCUPATION TOTAL MALES	24,535	9,532
OCCUPATION TOTAL FEMALES	20,973	7,844
MANAGEMENT, BUSINESS, FINANCIAL OPERATIONS	6,603	2,551
PROFESSIONAL, RELATED	8,338	2,400
SERVICE	6,216	2,402
SALES, OFFICE	7,722	2,794
FARMING, FISHING, FORESTRY	1,336	654
CONSTRUCTION, EXTRACTION, MAINTENANCE	4,481	1,786
PRODUCTION, TRANSPORT, MATERIAL MOVING	10,811	4,790
WHITE COLLAR WORKERS	22,663	7,745
BLUE COLLAR WORKERS	22,844	9,632

Area Business Map



327 N. 17th Avenue, Suite 303
Wausau, WI 54401
715.261.2922
naipfefferle.com

STATE OF WISCONSIN BROKER DISCLOSURE

NAIPfefferle
COMMERCIAL REAL ESTATE SERVICES, WORLDWIDE

Wisconsin law requires all real estate licensees to give the following information about brokerage services to prospective customers.

Prior to negotiating on your behalf the Brokerage firm, or an agent associated with the firm, must provide you the following disclosure statement.

Disclosure to Customers

You are a customer of NAI Pfefferle (hereinafter Firm). The Firm is either an agent of another party in the transaction or a subagent of another firm that is the agent of another party in the transaction. A broker or a salesperson acting on behalf of the Firm may provide brokerage services to you. Whenever the Firm is providing brokerage services to you, the Firm and its brokers and salespersons (hereinafter Agents) owe you, the customer, the following duties:

- The duty to provide brokerage services to you fairly and honestly.
- The duty to exercise reasonable skill and care in providing brokerage services to you.
- The duty to provide you with accurate information about market conditions within a reasonable time if you request it, unless disclosure of the information is prohibited by law.
- The duty to disclose to you in writing certain Material Adverse Facts about a Property, unless disclosure of the information is prohibited by law.
- The duty to protect your confidentiality. Unless the law requires it, the Firm and its Agents will not disclose your confidential information or the confidential information of other parties.
- The duty to safeguard trust funds and other property held by the Firm or its Agents.
- The duty, when negotiating, to present contract proposals in an objective and unbiased manner and disclose the advantages and disadvantages of the proposals.

Please review this information carefully. An Agent of the Firm can answer your questions about brokerage services, but if you need legal advice, tax advice, or a professional home inspection, contact an attorney, tax advisor, or home inspector. This disclosure is required by section 452.135 of the Wisconsin statutes and is for information only. It is a plain-language summary of the duties owed to a customer under section 452.133(1) of the Wisconsin statutes.

Confidentiality Notice to Customers

The Firm and its Agents will keep confidential any information given to the Firm or its Agents in confidence, or any information obtained by the Firm or its Agents that a reasonable person would want to be kept confidential, unless the information must be disclosed by law or you authorize the Firm to disclose particular information. The Firm and its Agents shall continue to keep the information confidential after the Firm is no longer providing brokerage services to you.

No representation is made as to the legal validity of any provision or the adequacy of any provision in any specific transaction.

The following information is required to be disclosed by law:

1. Material Adverse Facts, as defined in section 452.01(5g) of the Wisconsin Statutes (see definition below).
2. Any facts known by the Firm or its Agents that contradict any information included in a written inspection report on the property or real estate that is the subject of the transaction.

To ensure that the Firm and its Agents are aware of what specific information you consider confidential, you may list that information below or provide that information to the Firm or its Agents by other means. At a later time, you may also provide the Firm or its Agents with other information you consider to be confidential.

CONFIDENTIAL INFORMATION

_____

_____

NON-CONFIDENTIAL INFORMATION

(the following information may be disclosed to the Firm and its Agents)

_____

_____

(Insert information you authorize to be disclosed, such as financial qualification information.)

Definition of Material Adverse Facts

A "Material Adverse Fact" is defined in Wis. Stat. 452.01(5g) as an Adverse Fact that a party indicates is of such significance, or that is generally recognized by a competent licensee as being of such significance to a reasonable party, that it affects or would affect the party's decision to enter into a contract or agreement concerning a transaction or affects or would affect the party's decision about the terms of such a contract or agreement.

An "Adverse Fact" is defined in Wis. Stat. 452.01(1e) as a condition or occurrence that a competent licensee generally recognizes will significantly and adversely affect the value of the property, significantly reduce the structural integrity of improvements to real estate, or present a significant health risk to occupants of the property; or information that indicates that a party to a transaction is not able to or does not intend to meet his or her obligations under a contract or agreement made concerning the transaction.

Notice About Sex Offender Registry

You may obtain information about the sex offender registry and persons registered with the registry by contacting the Wisconsin Department of Corrections on the Internet at http://www.doc.wi.gov or by telephone at 608-240-5830.

Minutes from the June 1, 2020 Abbotsford City Council Meeting held in the Abbotsford City Hall Council Chambers.

Call meeting to order – Mayor Voss called the meeting to order at 6:00 P.M.

Roll Call: Mason Rachu**,** Weix, Dale Rachu Soto, Huther, Faber, Weideman, and Mayor Voss. Kramer - absent

Also in Attendance: Administrator Grady, Public Works Director Stuttgen, Water/Waste Water Supervisor Soyk, Jim Colby, Brian Chapman (Cedar Corp), Todd Halverson (MSA), Dan Borchardt (MSA), Sean Lenz via phone (Ehlers) and Kevin O'Brien (Tribune Phonograph)

Pledge of Allegiance - Held

Establish Order of the Day – No changes

Special Order of Business – Presentation by Sean Lenz of Ehler's regarding debt issuance via GoToMeeting – Mr. Lenz presented the information in the packet. Mr. Lenz showed the City is well within in I's borrowing capacity which equals 5% of total equalized value. The City's borrowing capacity goes up with growth.

The new debt will add about $50,000-$60,000 in new general revenue spending until the Public Safety building is paid off in 2029. The TIF is generating enough revenue that it can pay off the previous TIF note at a faster rate if there are no new TIF projects.

Later this Summer, the City will look at consolidating two outstanding notes to take advantage of lower interest rates.

Approve/Disapprove Resolution 2020-6 Initial Resolution Authorizing General Obligation Bonds in an Amount Not to Exceed $2,080,000 for Street Improvement Projects. – Motion to approve by *Weideman/Weix. Unanimous.*

Approve/Disapprove Resolution 2020-7 Resolution Directing Publication of Notice to Electors Relating to Bond Issue – Motion to approve by *Dale Rachu/Faber. Unanimous.*

Approve/Disapprove Resolution 2020-8 Resolution Providing for the Sale of Not to Exceed $2,080,000 General Obligation Street Improvement Bonds, Series 2020A – Motion to approve by *Weix/Soto. Unanimous.*

S**pecial Order of Business: GIS Mapping Presentation – Todd Halverson and Dan Borchardt** – A presentation was made by Mr. Halverson and Mr. Borchardt about GIS mapping for the water utility. It is much the same as GIS is used for land.

Currently, our GIS mapping is on a single laptop. If something were to happen to laptop then the City could lose some of its data. In addition, the current system has reached it's capacity for data.

The proposed project would move all of the data into the cloud and allow for the data to be accessed from anywhere. Both the Water Department and Public Works Department would be able to access the data letting city staff find out exactly where water pipes are and how old any portion of the system is in real time.

The cost of upgrading the system is $5500 plus $500 In annual maintenance fees. Motion to approve purchasing the new system and the yearly maintenance fees by *Mason Rachu/Weideman. Unanimous.*

MSA Update – Dan Borchardt provided the MSA update. Details are in the packet.

Communications – In the packet
a. Dividend Notice
b. State/Municipal Agreement for Spruce Street

C**omments by the Mayor –** Mayor Voss stated that Kurt Kalepp would like to speak on Item 26 and that the Council would push it back on the agenda of Mr. Kalepp had not arrived in time.

Administrator's Update – On May 26th, the Elections Commission unanimously voted to require clerks to send out absentee ballot applications to all registered voters. The Elections Commission will pay each municipality $200 plus $1.10/per registered voter. I want to stress that this is just an application and NOT a ballot. A voter still has to fill out the application; send it in with a photo ID and proof of residency before a ballot will be mailed to them.

The City just received our 2020 Recycling Grant Award in the amount of $8,376.69.

Yard waste pick up begins tomorrow. As reminder, it is the 1st Tuesday of the month between Memorial Day and Labor Day. Residents can still drop off yard waste at the city site at any time.

The Cometary Association is asking the individuals limit grave site to two items. All others will be removed. The association is also in the process of hiring seasonal help to help with the lawn mowing.

As part of the Governor's Routes to Recovery program every municipality is being guaranteed $5,000 to cover expenses related to Covid-19. We will be gather up our expenses to date and submitting them for reimbursement. The funding for this program came from the Federal Cares Act.

The next meeting will be a City Council meeting. We will be awarding the SRTS school grant. In addition, we will be doing some budget amendments to move the grant and loan portions into a separate fund.

C**omments by the Public – 2 MINUTE TIME LIMIT** – Paul Writz thanks the City staff for the presentation last meeting regarding the rezoning for the new apartments.

Jim Colby asked the City Council to guarantee that there would be no more apartment buildings east of 4th Avenue.

Minutes from the Council held May 4, 2020 – Motion to approve by *Weix/Faber. Unanimous.*

Incidents, Accidents, and Training -
Approve/Disapprove Appointment of Ivone Vazquez as a citizen member to the Plan Commission to replace Superintendent Baker (term expires April 2022) – Motion to approve by *Mason Rachu/Huther. Unanimous.*

Approve/Disapprove Appointment of Alder Frankie Soto as an alternate representative for the City of Abbotsford to the Central Fire Commission – Motion to approve by *Faber/Weideman. Unanimous.*

Approve/Disapprove Amended Lease for Station to With Central Fire – Mr. Weix explained that the Fire Commission want to make sure that they would pay the lower of the quotes for insurance in the lease. The amended lease reflected that request. Motion approve by *Dale Rachu/Weix. Unanimous.*

Approve/Disapprove Resolution 2020-5 - A Resolution Providing For the Action Concerning the Annual Compliance Maintenance Report to the Department of Natural Resources – Motion to approve by *Mason Rachu/Dale Rachu. Unanimous.*

Approve/Disapprove Pump Repairs – Water/Waste Water Supervisor Soyk stated that the City crew could make the repairs and asked to be able to purchase the parts only. Motion to approve $3,178 for parts by *Faber/Mason Rachu. Unanimous.*

Cemetery Wages – Mr. Weix stated that the cemetery felt that they should all be paid the same rates. Motion to approve changing the rates for the Cemetery wages to reflect the highest wage by *Dale Rachu/Weix. Unanimous,*

Approve/Disapprove Liquor License and Cigarette License Renewals for 2020-2021 – Motion to approve all of the liquor and cigarette license renewals by *Faber/Mason Rachu. Unanimous.*

Approve/Disapprove Operators License Renewals – Motion to approve all of the operator's license renewals by *Weix/Faber. Unanimous.*

Approve/Disapprove New Operator's Licenses – Motion to approve new operator's licenses by *Weix/Faber. Unanimous.*

Approve/Disapprove Operator's Licenses for Chad Kilty – Motion to approve by *Weix/Mason Rachu. Unanimous.*

Approve/Disapprove Operator's License for Kyle Puphal – Motion to approve *Mason Rachu/Faber. 6-1 (Soto)*

Approve/Disapprove Bid from Cedar Corporation to resurface West Hemlock Street – Mr. Kalepp was not able to attend the meeting, but Mayor Voss stated that hos concern is that the road would fail if there was not a bigger base. Public Works Director Stuttgen stated he believes the design is appropriate. Motion to approve just the design work for $12,000 by *Faber/Mason Rachu. Unanimous.*

April 2020 Financials – The financials were presented.

Jim Colby – Driveway Concerns – Mr. Colby stated that he was having drainage issues due to the recent road construction on his street. He would like the City to install a drain. Motion to agree to fix the problem this one time that the Mr. Colby agrees to hold the City harmless in the future. Roll Call Vote. Weix – yes, Dale Rachu-yes, Huther-yes, Faber – yes, Weideman-yes. Mason Rachu-no, Soto-no. Motion passes 5-2.

I**tems for Future Agendas - No Action Will Be Taken** – ATV's and offer to purchase Recycle Building.

Next Meetings: City Council June 17, 2020, City Council July 6, 2020

Motion to Adjourn by Weix/Soto. The City Council adjourned at 7:57 PM.

Minutes from the June 17, 2020 Abbotsford City Council Meeting held in the Abbotsford City Hall Council Chambers.

Call meeting to order – Mayor Voss called the meeting to order at 6:00 P.M.

Roll Call: Mason Rachu**,** Weix, Dale Rachu Soto, Huther, Faber, Weideman, and Mayor Voss. Kramer – absent due to technical difficulties

Also in Attendance: Administrator Grady, Public Works Director Stuttgen, Water/Waste Water Supervisor Soyk, , Library Director Jochimsen, Mike Hyrndej, Dan Borchardt (MSA), and Kevin O'Brien (Tribune Phonograph), Officer Stubbe

Pledge of Allegiance - Held

Establish Order of the Day – No changes

Special Order of Business – Presentation by Eric Anderson of West Central Regional Planning Commission re: Comprehensive Plan – Cancelled due to the internet being down, The presentation will be rescheduled.

Comments by the Mayor – Immediately prior to the meeting there was a water leak (hot water line) in the utility room. Water caused the City internet to go down and ruined the router for the library. Public Works fixed what they could, but would have to come back to the next day to replaces all of the lines. Mayor Voss brought the Council and all audience members to see the leak.

Administrator's Update – Regarding the water leak. The leaks just occurred this afternoon. Public Works has not had the opportunity to assess the situation yet. If here are more leaks then with the Mayor's approval we will be making emergency repairs. In any case, this will be on the agenda for the next meeting.

On May 18, 2020 the City is closing with Northside Apartments for lots 1-5 of the Schilling property. We also just received a ~$8900 check from Boson Companies. The check covers the cost of 2 building permits. It looks like both new apartment buildings will be started this year.

We will be closing on Dan Hauula's health care clinic on May6th. Mr. Hannula intends to start construction in July or early August and have the building open to the public by the end of the year.

As some of know, the vending machine has stopped cooling. We are having a hard time finding someone in the area that can fix it. When Josh called the manufacturer he was told that the closest repair company is in the Twin Cities. In addition, if it is the compressor that is out the replacement cost is approximately $1400 plus labor and travel. We will continue to look for someone local and if anyone has any ideas we would love to hear them.

The new soccer field has been seeded and it looks great. We have submitted a grant request to Nicolet Bank to pay for soccer goals. We should, hopefully, hear back soon.

Early voting for the August partisan primaries will begin on Monday July 6th and run through August 7th. The election is the 11th of August.

Comments by the Public – 2 MINUTE TIME LIMIT – None

Minutes from the Council held May 14, 2020 - Motion to approve by *Weix/Faber. Unanimous*

Minutes from May 14, 2020 Plan Commission - presented

Minutes from June 9, 2020 Plan Commission - presented

Appointment of Paul Erickson to the Plan Commission to fill the seat vacated by Marcia Hochholter. (term expiring April 2021) – Motion to approve by *Mason Rachu/Weideman. Unanimous.*

Incidents, Accidents, and Training - None

Library Update – Library Director Jochimsen presented the Library update.

Fire Department Update – Mr. Weix provided an update on the Fire Department.

Police Department Bills and Update – Motion to approve the bills in the amount of $15,593.69 by *Weix/Weideman Unanimous.*

Resolution 2020-9 Approving Amendments and Budget Transfers to the 2020 Budget – Motion to approve by *Weideman/Weix. Unanimous*

Public Works Update – The work on Opportunity Drive is proceeding. The casing went under the tracks. Water and sewer should be across the tracks by the end of the week.

The yard drain was installed at Jim Colby's house. The Thielman's had the same problem so a yard drain was installed on their lot also.

Discussion of Sale of Recycling Building – A local business asked if the City was interested in selling the old Recycling Building. Currently, the space is being used by Public Works, the Police Department, Boy Scouts, and Christmas Parade. The City Council made a consensus decision not to pursue the offer.

MSA
a. MSA Update – 1st Avenue will be mostly finished and there will be $5,000 in retainage held back.

b. Amendment 1 – Spruce Street – This amendment is to pay for additional construction observation time, ensure that Davis-Bacon is being followed and construction administration. The amendment covers both Spruce Street and SRTS. Motion to approve by *Weix/Soto. Unanimous.*

c. Amendment 2 – Wetlands Work for Opportunity Drive – Motion approve by *Mason Rachu/Weideman. Unanimous.*

d. $0 Change Order for 1st Street – Haas Sons, Inc. – Motion to approve by *Mason Rachu/Faber. Unanimous.*

e. 1st Street Final Payment Application – Haas Sons, Inc. – Motion to approve by *Faber/Rachu. Unanimous.*

f. Bid Opening and Award for Safe Routes to School – Only two contractors bid on this project. The City felt that the bid for Francis Melvin, Inc. should be considered because it came in underneath the engineer's estimate. Motion to approve by *Mason Rachu/Weix. Unanimous.*

g. Bid Opening and Award for Spruce Street Resurfacing - Only two contractors bid on this project. The City felt that the bid for Francis Melvin, Inc. should be considered because it came in underneath the engineer's estimate. Motion to approve by *Mason Rachu/Weix. Unanimous.*

Well 6 Repair – The conduit between wells 6 and 8 has been crushed. The conduit goes underneath the school parking lot so open digging is not an option.

The question was asked whether it was possible this repair could be made in conjunction with the W. Hemlock Street resurfacing. Could the conduit be trenched along W. Hemlock St? The City Council asked Josh and Craig to discuss the issue to see if a cheaper option could be found.

Utility Camera Repair - Water/Waste Water Supervisor Soyk told the Council that the camera used to check if well pumps are working properly was broken while in use. City staff will be submitting an insurance claim to cover the loss, however, even if it is not covered the Water Department needs a new one. Motion to approve the purchase of a new camera from Insight Vison for $2926 by *Mason Rachu/Faber. Unanimous.*

Discussion: Enforcing Speed Limits in the City – Officer Stubbe stated that speeding is a problem on every straight away in the city. However, the police believe that a balance between speed control and congestion is needed. Chief Bauer is not in favor of anymore stop signs at this time.

Discussion: ATV's on City Streets – The concern about ATV's was brought up, It was generally felt that the problems were caused by just a people. It was felt that many people many not know all of the local and state rules surrounding ATV use.

Resolution 2020-10 Creation of A Committee on Inspections – Motion to approve by Weideman/Faber. Motion to amend the resolution to call the committee a "Task Force," by *Weix/Dale Rachu. Unanimous vote to amend and Unanimous vote as amended*.

Approve/Disapprove Plan Commission Recommendation for Progressive Discounts on Lot Sales in the Schilling Subdivision. – Motion to approve by *Dale Rachu/Weix. Uananimous*

Approve/Disapprove Listing Agreement for Schilling Housing Lots – Motion to approve by *Dale Rachu/Weix. Unanimous*

Approve/Disapprove Conditional Use Permit for Mykhail, LLC. – Chair Rachu went over the conditions created by the Plan Commission. Dale Rachu suggested that the neighbors be notified prior to approving the permit. The Council agreed to postpone until the meeting.

Approve/Disapprove New Office Copier Purchase/Lease Agreement – The City Council was presented three different quotes. Two of the quotes were fairly close when compared on an even level. The difference is that one has a better lease rate while the other has a better click rate. Motion to approve Bauernfeind for the 4 year term by *Mason Rachu/Weix. Unanimous.*

Approve/Disapprove Continuing the Use of GoToMeeting – The topic was tabled.

Operator's Licenses – Motion to approve by *Mason Rachu/Weix. Unanimous*

Approve/Disapprove July 2020 Bills – Motion to approve the bills in the amount of $181,747.05 by *Weix/Soto. Unanimous.*

Items for Future Agendas - No Action Will Be Taken – CUP for Mykhail, LLC., GoToMeeting, raising parking ticket penalties

Next Meetings: City Council July 6, 2020, Committee of the Whole July 15, 2020

Motion to adjourn Weix/Soto. The City Council adjourned at 8:19 P.M.

ABBOTSFORD PUBLIC LIBRARY BOARD OF TRUSTEES MEETING
www.abbotsfordpl.org

REGULAR MONTHLY MEETING: Meeting called to order June 17th, 2020 / 5:00 PM / Public Room and Call In
ATTENDEES:

Hinrichsen, Braun, Jochimsen, Giffin, Suttner, Bittner
Members absent: Writz, Monica

AGENDA

Previous minutes: Read approved. Braun/Suttner
Public Comment: Lori Huther for City Council through Call in.
Old Business

- Reopening:
  - Library building re-opens with limited hours/restrictions June 1st.
  - COVID-19 Library Recommendations and Guidance document form the Clark County Health Department shared with board to use as guidance in approving reopening procedures.
  - Director will ask for one more two-week (June 15) extension on due dates so that everything is not coming due on date of reopen.
- Hours: at least one day closed between openings for cleaning and 24 hr quarantine.
  - Monday and Wednesday 10-7 pm, 10-11am reserved for at risk populations.
  - Fridays: 10-5 pm, 10-11am reserved for at risk.
  - Tuesday and Thursday: building closed, curbside pick-up available by appointment.
  - Saturdays: closed
- Restrictions/Limits:
  - 15 minutes for library browsing and check-out– "pick-up and go".
  - 5 computers available – 1 hour time limit- only for non-entertainment.
  - Study rooms available for groups of 2 only – 1 hour use.
  - Up to 22 patrons at one time, max of 10 in group (4 people per 1,000 square feet).
  - 6ft social distancing.
  - All toys, puzzles, plush animal, lounge chairs unavailable for use.
  - No in-house programming through June - re-evaluate July and August.
  - Children under 12 need to be accompanied by an adult.
- Sanitizing: using sanitizing wipes and Nu-Foam Glissen Chemical EPA regulated Sanitizer Spray.
  - Patrons are to use hand sanitizer on entry of the building and before browsing and computer use.
  - Staff sanitizes door handles, tables, phones, other high touch areas: hourly and at close.
  - Tuesdays and Thursdays staff will sanitize areas not deemed high touch.
  - Circulation desk after each check-out.
  - Public Computers: cleaned after each use, silicone protection on keyboards, alcohol whips for mice, wait 10 minutes before next patron use after cleaning for sanitizers to completely dry.
  - Library materials at check-in after at least 3 days in quarantine.
- Other Limits: Masks: Board is requiring patrons to wear masks in the library.
- Staff:
  - Protection: Face shields available. Kim Olson will have her husband make a sneeze guard for the circulation desk. He will do the labor free, but will charge for the Plexiglas.
  - Staff Hours: Director will talk to staff to determine hours to fit new schedule. N. Corley has expressed a wish to have no interaction with the public and will be working Tues and Thursdays.
  - If Staff gets sick.
    - Do not come in if have symptoms (library may have to close for day)
    - Director will order no touch thermometer for building and staff will check temps before work.

- Close if director tests positive, 14 days at least, use recommendation of health officials.
- If other staff, close for three days, deep cleaning of building, reduce hours as needed, director must test negative to resume work.

New Business

- Reopening procedures of selected Local Libraries in our System.
  - **Colby Community Library:** Open. M & F 12 p.m. -5 p.m.; T: 3 – 7 p.m.; W: 9 a.m. – 5 p.m.; R: Curbside services by appointment 3 – 7 p.m. M & F 9 -11 a.m. are health risk hours.
  - **Dorchester Public Library:** Open with limited services and hours. M.1-3, W.10-2, F. 1-5. 15 min limits on computers and browsing, limit of 9 in building.
  - **Marathon County Public Library & branches:** Open on multi-phase reopening plan. Library locations open by appointment and with limited hours. At MCPL's Wausau, patrons may call the reference desk to schedule an appointment for computer use. Cardholders may use a library computer for one hour per day, with limited computer stations available. Appointments must be made ahead of time and patrons will not be permitted to enter the building unless they have a set appointment. No in-person browsing of materials will be permitted at MCPL Wausau at this time. At the eight branches, patrons may call and schedule an appointment to use a computer or to browse materials, limited to one, 30-minute session per week. Curbside pickup available by calling local MCPL location or by using the online catalog.
  - **Medford, Frances L. Simek:** Open. T and R, 9 a.m. – 4 p.m. browsing by appointment. Appointments required to pick up holds.
  - **Owen Public Library:** Open (Express Library) M, W and F:12 p.m. – 6 p.m. Patrons can browse new DVDs, books, newspapers, magazines and audiobooks in the entryway. Librarian will pick up items for patrons from shelves.
  - **Stetsonville, Jean M. Thomsen Memorial Library**: Open. M & R: 10 a.m. – 2 p.m.; T & W: 12 p.m. – 4 p.m. Visits limited to 30 minutes maximum. Children under 12 must be accompanied by adult. Essential computer use only-if extended use is needed, please call for an appointment
    Maximum of 8 people in library at a time-including staff. Curbside service and browsing by appointment remain available.
  - **Thorp Public Library:** Open. Restricting the number of people in the building to 9 and having 30-minute visits only. Computer use is for non-leisure activities only, children under 16 should be accompanied by an adult. Mondays 10-12 p.m. are set aside for at-risk populations.
  - **Loyal Public Library:** Open. M: 10-5:30, W: 10-6 F: 10-5:30 only. Curbside service continues. Limit of 10 people for 30 minutes per day. Masks encouraged.

- Reopening Update
  - Staff: Nancy working Tuesday and Thursdays. Jackie closes on Wednesday. Jenny closes on Mondays.
  - Hours: Maintain June Hours:
    - Monday and Wednesday 10-7 pm, 10-11am reserved for at risk populations.
    - Fridays: 10-5 pm, 10-11am reserved for at risk.
    - Tuesday and Thursday: building closed, curbside pick-up available by appointment.
    - Saturdays: closed
  - Personal protection
    - Shields, facemasks, social distancing.
  - Limits on numbers of people allowed- decreased the number of individuals allowed in the building at one time to 12.
  - Other limits: Maintain June Limits:
    - 15 minutes for library browsing and check-out– "pick-up and go".
    - 5 computers available – 1 hour time limit- only for non-entertainment.

- Study rooms available for groups of 2 only – 1 hour use.
- 6ft social distancing.
- All toys, puzzles, plush animal, lounge chairs unavailable for use.
- No in-house programming through.
- Children under 12 need to be accompanied by an adult.

- Cleaning guidelines: Sanitizing: using sanitizing wipes and Nu-Foam Glissen Chemical EPA regulated Sanitizer Spray.
  - Patrons are to use hand sanitizer on entry of the building and before browsing and computer use.
  - Staff sanitizes door handles, tables, phones, other high touch areas: hourly and at close.
  - Tuesday's and Thursday's staff will sanitize areas not deemed high touch.
  - Circulation desk after each check-out.
  - Public Computers: cleaned after each use, silicone protection on keyboards, alcohol whips for mice, wait 10 minutes before next patron use after cleaning for sanitizers to completely dry.
  - Library materials at check-in after at least 3 days in quarantine.
  - Outside door handle: every two hours.
- Masks: Other libraries in our system that have sought legal advice on this matter advise that as the library is a public building, if the city and county the library reside in are not requiring masks, the library such refrain from the word require and use highly recommend.
- Wisconsin Public Libraries Reopening Guide: https://wvls.org/reopening-guidelines-released/
- First overdue to be sent out on the 22nd.

Treasurer's Report: 43% spent

Circulation Report: No renewals counted during May

- Total Circulation: May 2020: 903 Last month: 0 May 2019: 2664 May 2018: 2,161 May 2017: 2020 May 2016: 2354 May 2015: 1995 May 2014: 2438

Circulation Break-down:

Books:639, DVD:130, Spoken Record: 71, Large Print: 19, Magazines: 38, Other: 6

Other Usage Report:

- Wireless Sessions: May: 327 April: 253 March: 286 Feb: 193 Jan: 219 Dec: 121 Nov: 184 233 Oct: 269 Sept: 290 Aug: 338 July: 168 June: 186 May: 188
- Overdrive E-material Checkout: May: 237 April:286 March: 239 Feb: 185 Jan: 173 Dec:177 Nov: Oct: 242 Sept: 243 Aug: 212 July: 111 June: 188 May: 166
- Website Visits: May: 276 April: 443 March: 394, Feb.: 175
- **Monthly Reference:**

  May: not counted, no inhouse patrons however patron questions were answered over the phone.

  Patron Count: May 2020: 115 (Only Curbside pick-up offered-Mostly one person from household, less kids with parents, building closed-no computer use).

  May 2019: 1111 May 2018:1590 May 2017:1107 May 2016: 1473

Policy Review:

WVLS report: One weekly audio conference meeting occurring. Vcat held virtually on the 4th.

Director Report

- Summer Reading Update:
  - Beanstack/Summer Program: 16 youth signed up, 13 adults/teens.
  - Take and Make Crafts – going very well. No left-over crafts from any of the pervious weeks.
- Last Month Program Count:

  May: Monthly Program total: 14 programs, 174 attendance
- Future Programs: Limit to 9 if held, Make and Takes to continue, Beanstalk for Reading Logs, Trivia Night.
- Director will ask City Administrator about the budget forecast for 2021.

Staffing/Operating Issues

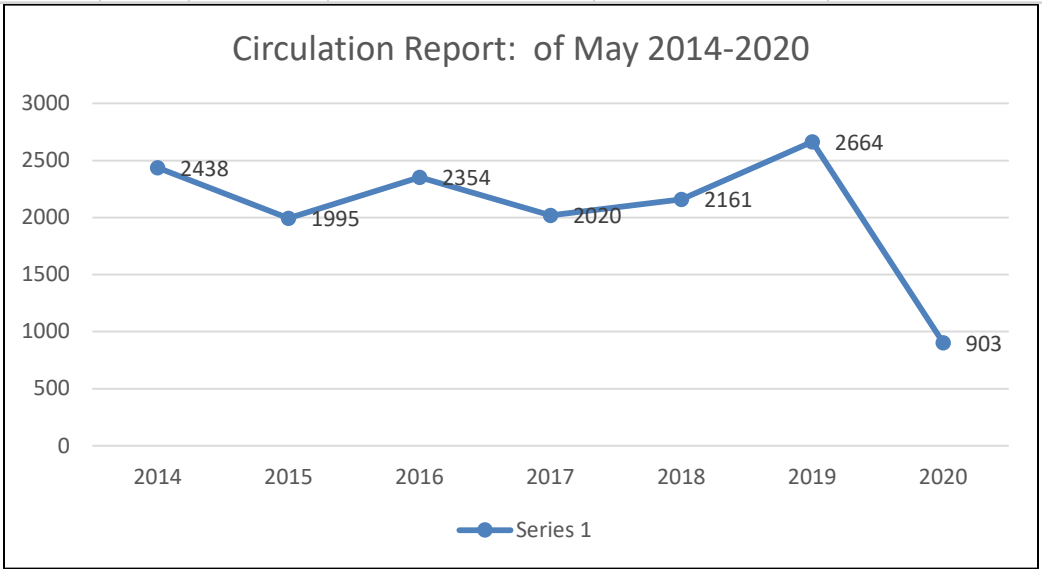
- Water pipe broke over internet router and switch box at 3pm just before meeting. WVLS contacted, new equipment on its way. One of the inside security cameras has gone black. Will get an update from City Hall on status.

Next meeting:

July 15th at 5pm.

Adjourn 5:38 pm Suttner/Giffin

Date	Time	Duration	Local Event Name	Target Audience (Children (0-11); Young Adult (12-18); Other (all ages)	Group Attending (program) or Individual Participants (self-directed activity)	If group attending, then number of attendees	If individual participants, then number of participants
5/5/2020	10:30 AM	10 min	Facebook Live: Boredom Busters	all ages	Individual Participants		13
5/7/2020	10:30 AM	10 min	Facebook Live: Boredom Busters	all ages	Individual Participants		9
5/12/2020	10:30 AM	10 min	Facebook Live: Boredom Busters	all ages	Individual Participants		6
5/14/2020	10:30 AM	10 min	Facebook Live: Boredom Busters	all ages	Individual Participants		8
5/19/2020	10:30 AM	10 min	Facebook Live: Boredom Busters	all ages	Individual Participants		11
5/21/2020	10:30 AM	10 min	Facebook Live: Boredom Busters	all ages	Individual Participants		10
5/26/2020	10:30 AM	10 min	Facebook Live: Boredom Busters	all ages	Individual Participants		8
5/28/2020	10:30 AM	10 min	Facebook Live: Boredom Busters	all ages	Individual Participants		9
week one		1 week	Make and Take craft: Mother's Da	0-11	Individual Participants		15
week two		1 week	Make and Take craft: Flying Ping-p	0-11	Individual Participants		30
week three		1 week	Make and Take craft: Nature Bingc	0-11	Individual Participants		13
week four		1 week	Make and Take craft: yarn butterfl	0-11	Individual Participants		30
5/12/2020	7:00 PM	1 hour	Wild Cookies Bookclub	all ages	Group Attending	4	
may		all month	Coloring Contest	all ages	Individual Participants		8



ABBOTSFORD PUBLIC LIBRARY
JULY EVENTS

TAKE AND MAKE YOUTH CRAFTS:

Crafts kits are available for pick-up. Limited supply.
*Crafts most likely require adult help.
First week of July: Kumihimo Bracelets
Second week of July: Paper Unicorn Ornament
Third week of July: Mosaic Crown
Fourth week of July: Dragon Puppet
Fifth week of July: Jelly Fish Paper Plate Puppet

WILD COOKIES BOOKCLUB: Tuesday, July 14th at 7:00 pm. Meet outside library for open air book-talk. Discussing *The Tea Girl of Hummingbird Lane* by Lisa See. Ask librarian for copy. **Adult**

ADULT CRAFT NIGHT, MAKE AND TAKE:

Folded Book Fairy House. Adult craft night kits will only be given out to those 16 or older. Pick craft during the third week of July. Watch demonstration on Facebook live Thur. July 16th at 6:30pm.

SUMMER READING PROGRAM:

Goes through July 27th. APL's Summer Reading Challenge will be largely online this year. Log your reading using our NEW online resource, Beanstack. https://abbotsfordpl.beanstack.org/. Reading challenges available for all ages. Reading rewards available for all ages!

TROY GRAHAM PERFORMANCE:

Wednesday June 15th at 7:00pm. Watch live on the library's Facebook page!

Abbotsford Public Library 203 N. First St.

City of Abbotsford, WI

CLIENT LIAISON:

Dan Borchardt, PE

Phone: 715.304.0448

Cell: 715.216-3601

dborchardt@msa-ps.com

DATE:
July 6, 2020

SAFE ROUTES TO SCHOOL DESIGN - MSA PROJECT #07681015

SPRUCE ST. (BUS. 29) RECONDITIONING PROJECT - MSA PROJECT #07681024

PROJECT STATUS UPDATE – SRTS

The pre-construction meeting for the project is scheduled for June 9th at 10:00AM at City Hall.

MSA is currently reviewing submittals from Melvin.

Melvin is planning on starting removals in the 3rd or 4th week of July and storm sewer around the 3rd of August.

INDUSTRIAL PARK UTILITY AND ROADWAY EXTENSION – MSA PROPOSAL #07681040

Haas has completed most of the work on the east side of the railroad right of way including the installation of water and sewer under the railroad tracks. Haas will need to place the surface lift of asphalt on the STH 13 patch. Haas has started pond and site grading and will continue with water and sewer installation to the west the around July 9th. The utility work will be followed by storm sewer installation and roadway grading for the installation of the road base.

MSA has provided the city with the annexation legal description and the paperwork the annexation process is just starting. Upon completion of the annexation, the CSM for Abby Appliance parcel will be filed and recorded. Abby Appliance intends to build in the spring of 2021.

SOUTH 1ST AVENUE REHAB (LINDEN TO ELM) – MSA PROJECT #07681030

CONSTRUCTION UPDATE

Haas will need to complete some punchlist items identified by the City prior to final payment.

INDUSTRIAL PARK CONNECTION TO STH 13 - MSA PROJECT #07681025

CONSTRUCTION UPDATE

Since Haas was working in the Opportunity Drive intersection Chippewa Concrete has not scheduled replacement of the curb ramps.

LINDEN STREET DRAINAGE STUDY – MSA PROJECT #07681044

MSA and the City completed the field evaluation of the storm sewer system for the hydraulic model and will be analyzing the results in the next couple of weeks.

ABBOTSFORD WATER MAPPING UPDATE – MSA PROJECT #07681039

City staff ordered the GIS software and MSA is paused until the GIS site information is available.

Change Order

No. 1

Date of Issuance: July 1, 2020 Effective Date: July 1, 2020

Project:	Owner:	Owner's Contract No.:
Industrial Park Utility Extension	City of Abbotsford	
Contract:		Date of Contract:
City of Abbotsford - Industrial Park Utility Extension		May 7, 2020
Contractor:		Engineer's Project No.:
Haas Sons, Inc.		07681040

The Contract Documents are modified as follows upon execution of this Change Order:

Description:

8-inch Live Watermain Tap $1,000

Attachments (list documents supporting change):

CHANGE IN CONTRACT PRICE:	CHANGE IN CONTRACT TIMES:
Original Contract Price:	Original Contract Times: ☐ Working days ☒ Calendar days
$755,506.71	Substantial completion (days or date): October 20, 2020
	Ready for final payment (days or date): June 1, 2021
[Increase] [Decrease] from previously approved Change Orders No. ____ to No. N/A	[Increase] [Decrease] from previously approved Change Orders No. ____ to No. N/A
$N/A	Substantial completion (days): ____
	Ready for final payment (days): ____
Contract Price prior to this Change Order:	Contract Times prior to this Change Order:
$755,506.71	Substantial completion (days or date): October 20,2020
	Ready for final payment (days or date): June 1, 2021
Increase of this Change Order:	[Increase] [Decrease] of this Change Order: N/A
$1,000.00	Substantial completion (days or date): ____
	Ready for final payment (days or date): ____
Contract Price incorporating this Change Order:	Contract Times with all approved Change Orders:
$756,506.71	Substantial completion (days or date): October 20,2020
	Ready for final payment (days or date): June 1, 2021

RECOMMENDED:	ACCEPTED:	ACCEPTED:
By: Dan Bartlett	By:	By: Brandon Haas
Engineer (Authorized Signature)	Owner (Authorized Signature)	Contractor (Authorized Signature)
Date: 07/01/2020	Date:	Date: 7-2-20
Approved by Funding Agency (if applicable):		
		Date:

203 E. Birch Street
Thorp, WI 54771
Phone: 715-669-5469
Fax: 715-669-5452

Thorp - Eau Claire
www.Haas4.com
E.E.O Employer

CHANGE ORDER

To: MSA

From: Haas Sons, Inc.

Date: 7/2/2020

Project Abbotsford Industrial Park

Description:

Item	Description	UOM	Units	Rate	Amount
					$ -
	8" Watermain Live Tap	EA	1	1,000.00	$ 1,000.00
					$ -
					$ -
					$ -
					$ -
					$ -
					$ -
					$ -
					$ -
					$ -
					$ -
					$ -
					$ -
					$ -
					$ -
					$ -
					$ -

Change Order Total $ 1,000.00

Acceptance of Proposal: The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.

Authorized
Signature _____ Date: _____

Contractor's Application For Payment No. 1

To (Owner): City of Abbotsford	Application Period: 4/1/20 - 6/22/20	Application Date: 6/22/20
Project: Abbotsford Industrial Park Extension	From (Contractor): Haas Sons, Inc.	Notice to Proceed Date: 5/28/20
	Contract:	Via (Engineer): MSA Professional Services, Inc.
Owner's Contract No.:	Contractor's Project No.:	Engineer's Project No.: 07681040

Application for Payment

Change Order Summary

Approved Change Orders		
Number	Additions	Deductions
1	$1,000.00	
2		
3		
TOTALS	$1,000.00	$0.00
NET CHANGE BY CHANGE ORDERS	$1,000.00	

1. ORIGINAL CONTRACT PRICE	$	755,506.71
2. Net change by Change Orders	$	1,000.00
3. CURRENT CONTRACT PRICE (Line 1 ± 2)	$	756,506.71
4. TOTAL COMPLETED AND STORED TO DATE (Column G on Progress Estimate)	$	268,977.86
5. RETAINAGE:		
a. 5 % x $ _____ Work Completed	$	13,448.89
b. 0 % x $ _____ Stored Material	$	0.00
c. Total Retainage (Line 5a + Line 5b)	$	13,448.89
6. AMOUNT ELIGIBLE TO DATE (Line 4 - Line 5c)	$	255,528.97
7. LESS PREVIOUS PAYMENTS (Line 6 from prior Application)	$	
8. AMOUNT DUE THIS APPLICATION	$	**255,528.97**

Contractor's Certification

The undersigned Contractor certifies that: (1) all previous progress payments received from Owner on account of Work done under the Contract have been applied on account to discharge Contractor's legitimate obligations incurred in connection with Work covered by prior Applications for Payment; (2) title of all Work, materials and equipment incorporated in said Work or otherwise listed in or covered by this Application for Payment will pass to Owner at time of payment free and clear of all Liens, security interests and encumbrances (except such as are covered by a Bond acceptable to Owner indemnifying Owner against any such Liens, security interest or encumbrances); and (3) all Work covered by this Application for Payment is in accordance with the Contract Documents and is not defective.

By: Brandon Haas Date: 7-2-20

Payment of: $255,528.97
(Line 8 or other - attach explanation of other amount)

is recommended by: Dan Bartlett (Engineer) 7/2/20 (Date)

Payment of: $255,528.97
(Line 8 or other - attach explanation of other amount)

is approved by: _____ (Owner) _____ (Date)

Approved by: _____ (Funding Agency (if applicable)) _____ (Date)

EJCDC No. C-620 (2007 Edition)

Prepared by the Engineers' Joint Contract Documents Committee and endorsed by the Associated General Contractors of America and the Construction Specifications Institute.

Progress Estimate

Contractor's Application

Project: Abbotsford Industrial Park Extension						Application Number: 1						
						Application Date: 6/22/20						
A				B1	B2	C	D	E	F	G	H	I
Item		Bid	Unit	Unit	Bid	Work Completed			Materials Pres. Stored	Tot. Completed & Stored to Date		Balance to Finish
Bid Item #	Description	Qty		Price	Value	From Prev. Application	Qty this Period	Value this Application	not in C or I	$ (C*B1 + E + F)	% (G / B)	(B - G)
	Base Bid											
1	Mobilization, Bonds and Insurance	1	LS	$25,825.00	$25,825.00		0.5	$12,912.50		$12,912.50	50%	$12,912.50
2	Clearing and Grubbing	1	LS	$5,000.00	$5,000.00		1	$5,000.00		$5,000.00	100%	$0.00
3	Traffic Control	1	LS	$5,550.00	$5,550.00		0.5	$2,775.00		$2,775.00	50%	$2,775.00
4	Temporary Concrete Barrier	230	LF	$20.00	$4,600.00		240	$4,800.00		$4,800.00	104%	-$200.00
5	Silt Fence	3,000	LF	$2.67	$8,010.00		2965	$7,916.55		$7,916.55	99%	$93.45
6	Sediment Log Ditch Check	20	LF	$7.11	$142.20			$0.00		$0.00	0%	$142.20
7	Rip Rap Medium	80	CY	$20.00	$1,600.00			$0.00		$0.00	0%	$1,600.00
8	Erosion Mat Class I Type A	11,000	SY	$1.00	$11,000.00			$0.00		$0.00	0%	$11,000.00
9	Culvert Pipe Check	3	EA	$1.00	$3.00			$0.00		$0.00	0%	$3.00
10	Inlet Protection	10	EA	$1.35	$13.50		2	$2.70		$2.70	20%	$10.80
11	Erosion and Sedimentation Control	1	LS	$2,000.00	$2,000.00		0.25	$500.00		$500.00	25%	$1,500.00
12	Concrete Quality Control	1	LS	$500.00	$500.00			$0.00		$0.00	0%	$500.00
13	Site Maintenance and Restoration	1	LS	$26,000.00	$26,000.00			$0.00		$0.00	0%	$26,000.00
14	Dewatering	1	LS	$0.01	$0.01		0.5	$0.01		$0.01	50%	$0.01
15	Rail Road Insurance, Permit and Utility Locate	1	LS	$20,000.00	$20,000.00		0.5	$10,000.00		$10,000.00	50%	$10,000.00
16	Rail Road Flagging Allowance - Days 15	15	DAYS	$1,300.00	$19,500.00		4	$5,200.00		$5,200.00	27%	$14,300.00
17	Bore/Jack 24-Inch Steel Casing	137	LF	$494.00	$67,678.00		102.75	$50,758.50		$50,758.50	75%	$16,919.50
18	6-Inch PVC Water Main	80	LF	$40.00	$3,200.00		6.5	$260.00		$260.00	8%	$2,940.00
19	8-inch PVC Water Main	980	LF	$45.00	$44,100.00		449	$20,205.00		$20,205.00	46%	$23,895.00
20	6-Inch Gate Valve & Box	4	EA	$1,600.00	$6,400.00		1	$1,600.00		$1,600.00	25%	$4,800.00
21	8-Inch Gate Valve & Box	3	EA	$2,025.00	$6,075.00		2	$4,050.00		$4,050.00	67%	$2,025.00
22	8" x 6" TEE	4	EA	$700.00	$2,800.00		1	$700.00		$700.00	25%	$2,100.00
23	8" x 8" TEE	1	EA	$760.00	$760.00		1	$760.00		$760.00	100%	$0.00
24	8-Inch 45 Degree Bend	2	EA	$575.00	$1,150.00		1	$575.00		$575.00	50%	$575.00
25	8-Inch 22.5 Degree Bend	2	EA	$570.00	$1,140.00		3	$1,710.00		$1,710.00	150%	-$570.00
26	8-Inch 11.25 Degree Bend	2	EA	$560.00	$1,120.00			$0.00		$0.00	0%	$1,120.00
27	6" CAP	2	EA	$200.00	$400.00			$0.00		$0.00	0%	$400.00
28	Hydrant Complete	2	EA	$4,075.00	$8,150.00		1	$4,075.00		$4,075.00	50%	$4,075.00
29	Remove, Salvage and Reinstall Pipe/ Hydrant	1	EA	$1,325.00	$1,325.00			$0.00		$0.00	0%	$1,325.00
30	1-Inch Corp., Tap, Curb Stop & Box	1	EA	$400.00	$400.00			$0.00		$0.00	0%	$400.00
31	2-Inch Corp., Tap, Curb Stop & Box	2	EA	$950.00	$1,900.00			$0.00		$0.00	0%	$1,900.00
32	1-Inch HDPE Water Service	50	LF	$31.00	$1,550.00			$0.00		$0.00	0%	$1,550.00
33	2-Inch HDPE Water Service	50	LF	$32.00	$1,600.00			$0.00		$0.00	0%	$1,600.00
34	Connect to Existing Water Main	2	EA	$3,275.00	$6,550.00			$0.00		$0.00	0%	$6,550.00
35	Bore/Jack 24-Inch Steel Casing	156	LF	$525.00	$81,900.00		117	$61,425.00		$61,425.00	75%	$20,475.00
36	8-Inch PVC Sanitary Sewer	1,120	LF	$54.00	$60,480.00		443	$23,922.00		$23,922.00	40%	$36,558.00
37	4-Foot Diameter Sanitary Manhole	5	EA	$5,480.00	$27,400.00		2	$10,960.00		$10,960.00	40%	$16,440.00
38	Connect to Existing Sanitary Sewer	2	EA	$3,075.00	$6,150.00		2	$6,150.00		$6,150.00	100%	$0.00
39	6-Inch PVC Sanitary Lateral	160	LF	$32.25	$5,160.00			$0.00		$0.00	0%	$5,160.00
40	8-Inch x 6-Inch Sewer Wye	3	EA	$225.00	$675.00		1	$225.00		$225.00	33%	$450.00

Item		Bid	Unit	Unit	Bid	Work Completed			Materials Pres. Stored	Tot. Completed & Stored to Date		Balance to Finish
Bid Item #	Description	Qty		Price	Value	From Prev. Application	Qty this Period	Value this Application	not in C or I	$ (C*B1 + E + F)	% (G / B)	(B - G)
41	12-Inch PP (Polypropylene) Pipe	560	LF	$37.00	$20,720.00			$0.00		$0.00	0%	$20,720.00
42	12-Inch Galvanized Steel Endwall	6	EA	$225.00	$1,350.00			$0.00		$0.00	0%	$1,350.00
43	18 -Inch PP Pipe	64	LF	$44.25	$2,832.00			$0.00		$0.00	0%	$2,832.00
44	24-Inch PP Pipe	64	LF	$52.75	$3,376.00			$0.00		$0.00	0%	$3,376.00
45	18-Inch Galvanized Steel Endwall	2	EA	$225.00	$450.00			$0.00		$0.00	0%	$450.00
46	24-Inch Galvanized Steel Endwall	2	EA	$275.00	$550.00			$0.00		$0.00	0%	$550.00
47	48-Inch RCP (Remove, Salvage and Reinstall	55	LF	$135.00	$7,425.00		22	$2,970.00		$2,970.00	40%	$4,455.00
48	Stormwater Pond	1	EA	$60,500.00	$60,500.00			$0.00		$0.00	0%	$60,500.00
49	Box Weir Outlet Structure w/Grate	2	EA	$5,900.00	$11,800.00			$0.00		$0.00	0%	$11,800.00
50	Connect to Existing Storm Sewer	2	EA	$1,500.00	$3,000.00			$0.00		$0.00	0%	$3,000.00
51	Nyloplast 2-Ft x 3-Ft Curb Inlet (24-Inch)	6	EA	$2,625.00	$15,750.00			$0.00		$0.00	0%	$15,750.00
52	Excavation Common	1	LS	$8,000.00	$8,000.00			$0.00		$0.00	0%	$8,000.00
53	Rock Excavation	20	CY	$0.01	$0.20			$0.00		$0.00	0%	$0.20
54	Excavation Below Subgrade (EBS)	50	CY	$10.00	$500.00			$0.00		$0.00	0%	$500.00
55	Imported Granular Backfill	100	CY	$11.90	$1,190.00			$0.00		$0.00	0%	$1,190.00
56	Select Crush Material (12-Inch Depth)	2,010	SY	$8.67	$17,426.70			$0.00		$0.00	0%	$17,426.70
57	Select Crush Material (18-Inch Depth)	510	SY	$14.00	$7,140.00		370	$5,180.00		$5,180.00	73%	$1,960.00
58	Base Aggregate Dense -1 1/4 Inch	2,610	SY	$6.45	$16,834.50		370	$2,386.50		$2,386.50	14%	$14,448.00
59	4-Inch Asphalt Pavement (2 Lifts)	1,710	SY	$23.51	$40,202.10			$0.00		$0.00	0%	$40,202.10
60	6-Inch Asphalt Pavement (3 Lifts) (STH 13)	450	SY	$39.23	$17,653.50		370	$14,515.10		$14,515.10	82%	$3,138.40
61	30-Inch Curb and Gutter, Type HM	820	LF	$18.00	$14,760.00			$0.00		$0.00	0%	$14,760.00
62	30-Inch Curb and Gutter, Type D (STH 13)	130	LF	$28.00	$3,640.00		93	$2,604.00		$2,604.00	72%	$1,036.00
63	4-Inch Concrete Sidewalk w/ 6-Inch Base	310	SF	$7.00	$2,170.00		390	$2,730.00		$2,730.00	126%	-$560.00
64	6-Inch Concrete Driveway w/Base	220	SF	$7.50	$1,650.00			$0.00		$0.00	0%	$1,650.00
65	Base Aggregate Driveway (12-Inch Depth)	500	SY	$8.67	$4,335.00			$0.00		$0.00	0%	$4,335.00
66	6-Inch HDPE Underdrain	900	LF	$10.00	$9,000.00			$0.00		$0.00	0%	$9,000.00
67	Geogrid (STH 13)	510	SY	$3.00	$1,530.00		370	$1,110.00		$1,110.00	73%	$420.00
68	Geotextile Fabric Type SAS	2,200	SY	$1.75	$3,850.00			$0.00		$0.00	0%	$3,850.00
69	2x2-Inch x 12 foot Posts Tubular Steel	8	EA	$205.00	$1,640.00			$0.00		$0.00	0%	$1,640.00
70	Pavement Marking 4-Inch Epoxy	1,700	LF	$0.65	$1,105.00			$0.00		$0.00	0%	$1,105.00
71	Pavement Marking Stop Line 18-Inch	80	LF	$16.50	$1,320.00			$0.00		$0.00	0%	$1,320.00
72	Crosswalk Epoxy 6-inch	200	LF	$10.25	$2,050.00			$0.00		$0.00	0%	$2,050.00
73	Pavement Marking Railroad Crossing Epoxy	2	EA	$850.00	$1,700.00			$0.00		$0.00	0%	$1,700.00
74	Signs, HIPRR	75	SF	$30.00	$2,250.00			$0.00		$0.00	0%	$2,250.00
	CHANGE ORDERS/ EXTRAS											
CO#1	8" Watermain Live Tap	1	EA	$1,000.00	$1,000.00		1	$1,000.00		$1,000.00	100%	$0.00
	TOTAL				$756,506.71			$268,977.86	$0.00	$268,977.86		$487,528.86

PRELIMINARY OPINION OF PROBABLE COST
W Hemlock Street
CITY OF ABBOTSFORD

CEDAR CORPORATION
JOB #: A6300-002
DATE: 7/01/2020
ESTIMATE PREPARED BY: KTH

STORM SEWER CONSTRUCTION
ASSUMPTIONS:
- REPLACE ALL BUT TWO CULVERTS

ITEM	UNIT	QUANTITY	UNIT PRICE	COST
12" STORM SEWER, RCP	L.F.	140	$40.00	$5,600.00
12" APRON END WALL, RCP	EA.	8	$700.00	$5,600.00
STORM INLET, 30" DIA	V.F.	6	$250.00	$1,500.00
STORM CASTING, AREA DRAIN	EA.	2	$650.00	$1,300.00
STORM CASTING, STREET	EA.	1	$650.00	$650.00
SUBTOTAL				$14,650.00
CONTINGENCY (10%)				$1,470.00
ESTIMATED STORMSEWER COST				$16,120.00

STREET CONSTRUCTION
ASSUMPTIONS:
- *PULVERVIZING BY CITY*
- *ADD UP TO 6" CABC*
- *140' SECTION OF FULL RECONSTRUCT*
- *REDITCHING*
- *TYPICAL 24' HMA, 2' GRAVEL SHOULDERS, 50' HMA ALONG PARKING LANE AREA*

PROJECT LENGTH 1370 **FT. LONG (TOTAL)**
PAVEMENT WIDTH 31 **FT. WIDE (APPROX AVERAGE)**

ITEM	UNIT	QUANTITY	UNIT PRICE	COST
REMOVE CURB AND GUTTER	L.F.	250	$2.00	$500.00
REMOVE CONCRETE	S.Y.	210	$5.00	$1,050.00
REMOVE ASPHALTIC PAVEMENT	S.Y.	55	$3.00	$170.00
SAWCUT	L.F.	300	$3.00	$900.00
EXCAVATION, COMMON	C.Y.	330	$8.00	$2,640.00
EXCAVATION, DITCHING	C.Y.	300	$8.00	$2,400.00
CRUSHED AGGREGATE BASE, ROADWAY	C.Y.	500	$30.00	$15,000.00
CRUSHED AGGREGATE BASE, SIDEWALK	C.Y.	7	$35.00	$250.00
CRUSHED AGGREGATE BASE, SHOULDERS	C.Y.	40	$30.00	$1,200.00
12" BREAKER RUN	C.Y.	150	$25.00	$3,750.00
GEOGRID	S.Y.	500	$2.00	$1,000.00
HMA, BINDER, 2.0"	S.Y.	5176	$8.00	$41,410.00
HMA, SURFACE, 2.0"	S.Y.	5176	$8.00	$41,410.00
HMA, DRIVEWAY	S.Y.	55	$30.00	$1,650.00
GRANULAR SUBBASE, SIDEWALK	C.Y.	30	$25.00	$750.00
4" CONCRETE SIDEWALK	S.F.	1500	$4.50	$6,750.00
6" CONCRETE SIDEWALK	S.F.	375	$6.00	$2,250.00
24" CONCRETE CURB AND GUTTER	L.F.	340	$14.00	$4,760.00
TEMPORARY EROSION MAT	S.Y.	1500	$2.00	$3,000.00
INLET PROTECTION	EA.	1	$100.00	$100.00
SILT FENCE	L.F.	20	$2.00	$40.00
TEMPORARY DITCH CHECK	L.F.	200	$8.00	$1,600.00
CULVERT PIPE DITCH CHECK	EA.	6	$75.00	$450.00
AGGREGATE TRACKING PAD	C.Y.	75	$20.00	$1,500.00
RIPRAP, MEDIUM	C.Y.	5	$50.00	$250.00
ADJUST EXISTING CASTING	EA.	1	$400.00	$400.00
TRAFFIC CONTROL	L.S.	1	$1,500.00	$1,500.00
RESTORATION, SEED	S.Y.	1500	$4.00	$6,000.00
SUBTOTAL				$142,680.00
CONTINGENCY (10%)				$14,270.00
ESTIMATED STREET COST				$156,950.00
TOTAL ESTIMATED PROJECT COST				**$173,070.00**
COST PER FOOT				$126.33

CITY OF ABBOTSFORD

2020 W HEMLOCK STREET RESURFACING

CLARK COUNTY, WISCONSIN

STANDARD SYMBOLS

- EXISTING WATER VALVE / PROPOSED WATER VALVE
- EXISTING CURBSTOP / PROPOSED CURBSTOP
- PROPOSED MANHOLE
- EX. SAN. MANHOLE
- EX. STORM MANHOLE
- EXISTING CATCH BASIN OR INLET / PROPOSED CATCH BASIN OR INLET
- EXISTING HYDRANT / PROPOSED HYDRANT
- CLEANOUT
- TELEPHONE PED
- UTILITY POLE
- GUY WIRE ANCHOR
- ELECTRIC PEDESTAL
- LIGHT POLE
- CABLE TV PEDESTAL
- CONIFEROUS TREE
- DECIDUOUS TREE
- ANY STUMP
- SHRUB
- PROPOSED CULVERT
- 1-POST SIGN
- 2-POST SIGN
- TRAFFIC SIGNAL
- IRON ROD
- BENCHMARK OR SECTION CORNER LOCATION
- SECTION CORNER
- IRON PIPE
- CONTROL POINT
- R/W EXISTING RIGHT OF WAY
- R/W PROPOSED RIGHT OF WAY
- SOIL BORING
- PIEZOMETER
- MONITORING/WATER WELL
- 800 EXISTING CONTOURS
- 800 PROPOSED CONTOURS
- COMBUSTIBLE FLUID
- TREE LINE
- TRAFFIC FLOW
- CENTERLINE
- HANDICAP
- MAILBOX
- MARSH/WETLAND
- RAILROAD TRACKS
- SILT FENCE (SLOPE TOE)
- BARBED WIRE FENCE
- CHAINLINK FENCE
- WOODEN FENCE
- SHORELINE
- STONEWALL
- GUARDRAIL
- TEXT UTILITY LINE WITH TEXT STM=STORM SEWER SAN=SANITARY SEWER TV=CABLE TELEVISION UGE/OE=ELECTRIC TEL=TELEPHONE GAS=GAS WTR=WATER
- SAN PROPOSED SANITARY SEWER
- STM PROPOSED STORM SEWER
- WTR PROPOSED WATERMAIN
- FM PROPOSED FORCEMAIN

ABBOTSFORD, WI

SHEET INDEX

SHEET	SHEET DESCRIPTION
1	TITLE SHEET
2	GENERAL NOTES
3	PROJECT OVERVIEW
4–5	TYPICAL SECTIONS
6–9	CONSTRUCTION DETAILS
10	EROSION CONTROL
11	TRAFFIC CONTROL
12–14	PLAN & PROFILE
15–24	CROSS SECTIONS

PRELIMINARY

WISCONSIN
CLARK COUNTY

JOB NO.	A6300-002
DRAWN BY	KTH
CHECKED BY	BDC
DATE	JULY 2020
REVISIONS	
REFERENCE FILE	00base_*.dwg
DRAWING FILE	010101_ti_*.dwg

Cedar Corporation
engineers • architects • planners • environmental specialists
land surveyors • landscape architects • interior designers
W61N497 Washington Ave. Suite 142 Cedarburg, WI 53012 262-204-2360 FAX 262-375-2688
2820 Walton Commons W. Suite 142 Madison, WI 53718 608-354-0037 FAX 608-249-5824
1496 Bellevue Street Suite 502 Green Bay, WI 54311 920-491-9081 FAX 920-491-9020
604 Wilson Ave. Menomonie, WI 54751 715-235-9081 FAX 715-235-2727
800-472-7372
www.cedarcorp.com

CITY OF ABBOTSFORD
2020 W HEMLOCK STREET RESURFACING
CLARK COUNTY, WISCONSIN
TITLE SHEET

SHEET NO.
1 OF 25

GENERAL NOTES

GENERAL

1. UNDERGROUND UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION ONLY AND MAY NOT BE SHOWN IN THEIR ENTIRETY. CONTRACTOR SHALL NOTIFY UTILITIES AND HAVE ALL UTILITIES LOCATED PRIOR TO EXCAVATION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH ALL UTILITIES.

2. CONTRACTOR SHALL MAINTAIN TRAFFIC ACCESSIBILITY FOR BUSINESSES AND EMERGENCY VEHICLES AT ALL TIMES.

3. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL, SIGNAGE, AND ASSOCIATED MAINTENANCE.

4. CONTRACTOR IS RESPONSIBLE FOR ALL DUST CONTROL NECESSARY THROUGHOUT THE PROJECT. COST FOR DUST CONTROL IS INCIDENTAL TO PROJECT.

5. MANHOLE CASTINGS AND VALVE BOXES SHALL BE 1/2 INCH BELOW FINAL PAVED SURFACE. CONTRACTOR SHALL USE PAVER ADJUSTMENT RINGS ON VALVE BOXES AS REQUIRED.

6. CONTRACTOR SHALL MECHANICALLY COMPACT ALL TRENCHES, WITH SPECIAL ATTENTION TO THE STREET, DRIVEWAY AND SIDEWALK AREAS.

7. ALL OFFSETS ARE TO BACK OF CURB UNLESS NOTED OTHERWISE.

8. SUPPORTING UTILITY POLES DURING CONSTRUCTION SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR TEMPORARY SUPPORTING OF CABLES, GAS, ETC. ALL COST SHALL BE INCIDENTAL TO OTHER ITEMS OF CONSTRUCTION.

9. UNLESS OTHERWISE NOTED, ALL EXISTING STORM SEWERS, SANITARY SEWERS, WATERMAINS, SANITARY LATERALS, AND WATER LATERALS WITHIN PROJECT LIMITS SHALL BE REMOVED OR ABANDONED AFTER NEW STORM SEWERS, SANITARY SEWERS, WATERMAINS, SANITARY LATERALS, AND WATER LATERALS ARE INSTALLED, TESTED AND PUT INTO SERVICE.

10. ALL EXISTING SANITARY MANHOLE CASTINGS, STORM MANHOLE CASTINGS, STORM INLET CASTINGS, AND HYDRANTS DESIGNATED FOR REMOVAL OR ABANDONMENT SHALL BE SALVAGED TO THE OWNER.

11. WHERE NEW PIPE OR STRUCTURES ARE LAID IN THE SAME LOCATION, OR WITHIN 5' IN OFFSET AND BELOW, REMOVAL OF ANY EXISTING PIPE OR STRUCTURE SHALL BE CONSIDERED AS INCIDENTAL TO THE CONSTRUCTION OF THE NEW SYSTEM. ANYTHING GREATER THAN 5' IN OFFSET WILL BE PAID FOR AS A REMOVAL BID ITEM.

STORM SEWER SYSTEM

1. CONTRACTOR SHALL PROVIDE INLET BARRIERS AROUND ALL STRUCTURES HAVING INLET TYPE CASTINGS.

2. OFFSETS FOR MANHOLES ARE GIVEN TO THE CENTER OF THE STRUCTURE WHERE TYPE "J" CASTINGS ARE USED AND TO THE CENTER OF THE CASTING AT BACK OF CURB WHERE INLET CASTINGS ARE USED.

3. ALL REFERENCES TO STORM SEWER OUTFALLS ARE TO END OF APRON END WALL.

ABBREVIATIONS

AD	SLOPE CHANGE
ADJ	ADJUST
APPROX	APPROXIMATE
BC-BC	BACK OF CURB TO BACK OF CURB
BC	BACK OF CURB
BEG	BEGIN
BM	BENCH MARK
BR	BEGIN RADIUS
C&G	CURB AND GUTTER
CL	CENTERLINE
CONC	CONCRETE
CP	CONTROL POINT
CY	CUBIC YARD
DIA	DIAMETER
DWY	DRIVEWAY
EA	EACH
EL / ELEV	ELEVATION
ER	END RADIUS
EX	EXISTING
FL	FLOW LINE
FT	FEET
GRND	GROUND
HP	HIGH POINT
HYD	HYDRANT
INL	INLET
INV	INVERT
K	RATE OF VERTICAL CURVATURE
L	LENGTH
LAT	LATERAL
LF	LINEAR FEET
LP	LOW POINT
LT	LEFT
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
MR	MID RADIUS
N.T.S.	NOT TO SCALE
OE	OVERHEAD ELECTRIC
O/S	OFFSET
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PI	POINT OF INTERSECTION
PR	PROPOSED
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVATURE
PVC	POLY-VINYL CHLORIDE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
QTY	QUANTITY
RAD	RADIUS
RCP	RE-INFORCED CONCRETE PIPE
PL	PROPERTY LINE
RW	RIGHT-OF-WAY
RP	RADIUS POINT
RT	RIGHT
SAN	SANITARY
SDWK	SIDEWALK
SF	SQUARE FEET
STA	STATION
STH	STATE TRUNK HIGHWAY
STM	STORM
SY	SQUARE YARDS
TC	TOP OF CURB
TEL	TELEPHONE
TYP	TYPICAL
UGE	UNDERGROUND ELECTRIC
VAR	VARIES OR VARIABLE
VC	VERTICAL CURVE
WTR	WATERMAIN

WEST HEMLOCK STREET ALIGNMENT INFO

	STATION	NORTHING	EASTING	COURSE
BEGIN	10+00.000	492076.2880	752211.7180	N 87° 49' 28.5216" E
END	24+25.000	492130.3790	753635.691	

www.cedarcorp.com
800-472-7372
engineers • architects • planners • environmental specialists
land surveyors • landscape architects • interior designers
Cedar corporation
W61N497 Washington Ave. Suite 142 Cedarburg, WI 53012 262-204-2360 FAX 262-375-2688
2820 Walton Commons W. Suite 142 Madison, WI 53718 608-354-0037 FAX 608-249-5824
1496 Bellevue Street Suite 502 Green Bay, WI 54311 920-491-9081 FAX 920-491-9020
604 Wilson Ave. Menomonie, WI 54751 715-235-9081 FAX 715-235-2727

JOB NO. A6300-002
DRAWN BY KTH
CHECKED BY BDC
DATE JULY 2020
REVISIONS
REFERENCE FILE 00base_*.dwg
DRAWING FILE 020101_gn_*.dwg

CITY OF ABBOTSFORD
2020 W HEMLOCK STREET RESURFACING
CLARK COUNTY, WISCONSIN
GENERAL NOTES

SHEET NO. 2 OF 25

BENCHMARKS

POINT	NORTHING	EASTING	ELEV	DESCRIPTION
1	492134.26	753074.17	1432.24	SURVEY MARKER
2	492141.41	753417.07	1435.32	PPOL
3	491977.57	753613.09	1435.88	TNH
4	492116.48	752668.84	1433.31	TNH
5	492053.27	752286.74	1431.10	PPOL

CONTROL POINTS

POINT	NORTHING	EASTING	ELEV	DESCRIPTION
100	492113.88	753489.10	1434.22	PK NAIL
101	492143.80	753285.66	1433.44	PK NAIL
102	492094.03	752846.88	1430.55	PK NAIL
103	492079.73	752431.43	1430.39	PK NAIL

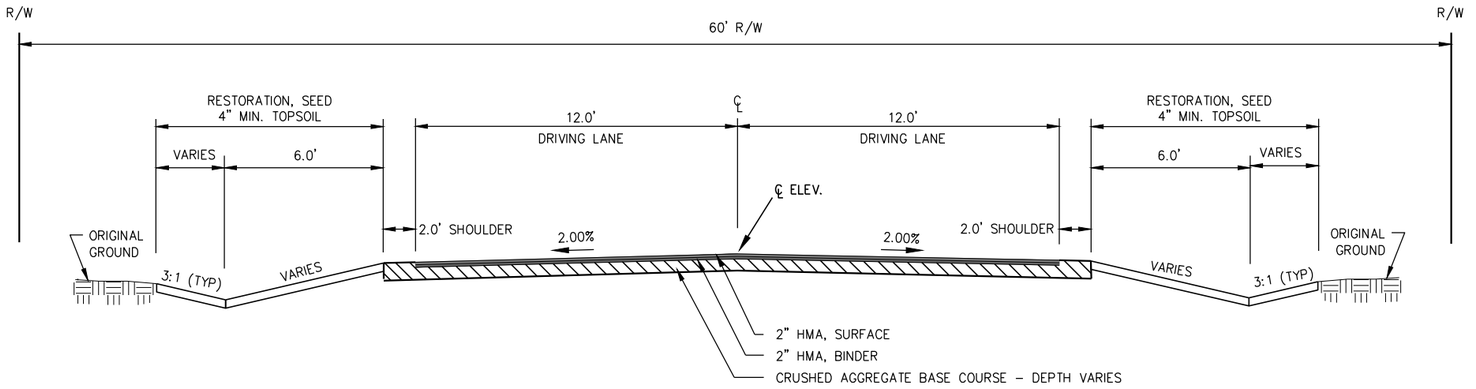
66

JOB NO. A6300-002
DRAWN BY KTH
CHECKED BY BDC
DATE JULY 2020
REVISIONS
REFERENCE FILE 00base_*.dwg
DRAWING FILE 020201_po_*.dwg

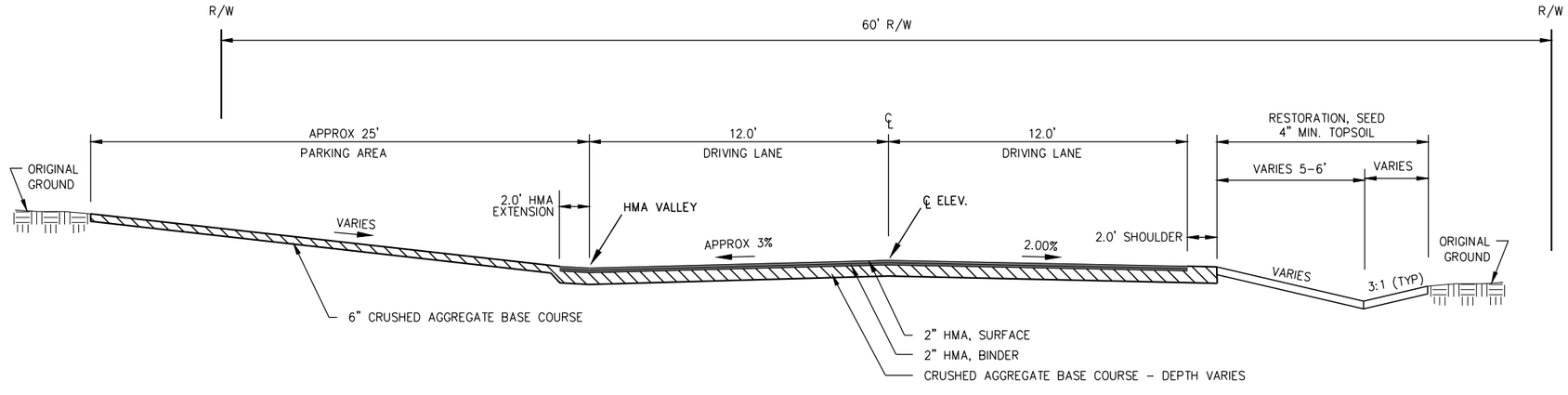
www.cedarcorp.com
800-472-7372
engineers • architects • planners • environmental specialists
land surveyors • landscape architects • interior designers
Cedar corporation
2820 Walton Commons W. Suite 142 Madison, WI 53718 608-354-0037 FAX 608-249-5824
1496 Bellevue Street Suite 502 Green Bay, WI 54311 920-491-9081 FAX 920-491-9020
604 Wilson Ave. Menomonie, WI 54751 715-235-9081 FAX 715-235-2727
W61N497 Washington Ave. Cedarburg, WI 53012 262-204-2360 FAX 262-375-2688

CITY OF ABBOTSFORD
2020 W HEMLOCK STREET RESURFACING
CLARK COUNTY, WISCONSIN
PROJECT OVERVIEW

SHEET NO. 3 OF 25



WEST HEMLOCK STREET
BEGINNING TO STA 14+80
NO SCALE



WEST HEMLOCK STREET
STA 14+80 TO STA 17+47*
NO SCALE

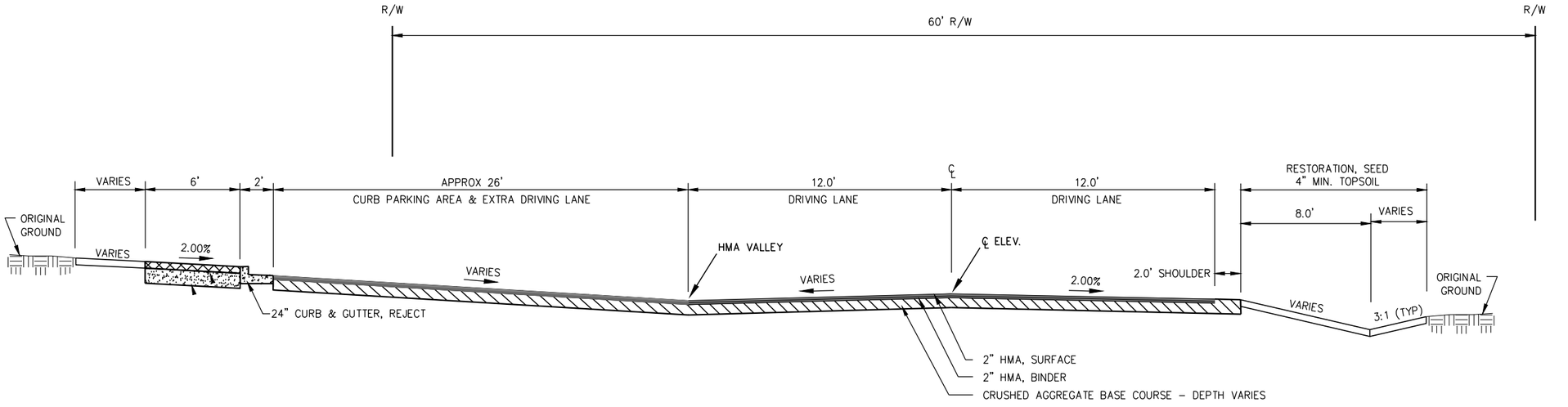
*NOTE: FROM STA 17+47 TO STA 18+60, THERE IS A TAPER OF THE HMA EXTENSION. THE EXTENSION GOES FROM A 2' WIDTH AT STA 17+47 AND TAPERS TO ABOUT A 26.5' WIDTH AT STA 18+61 WHERE IT TIES INTO THE PROPOSED CURB FLAG.

JOB NO.
A6300-002
DRAWN BY
KTH
CHECKED BY
BDC
DATE
JULY 2020
REVISIONS
REFERENCE FILE
00base_*.dwg
DRAWING FILE
020301_ts_*.dwg

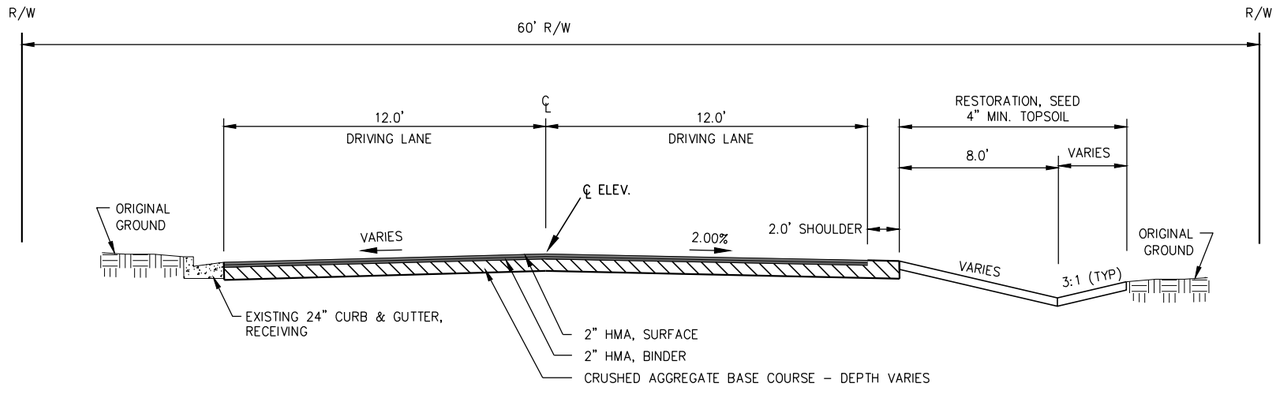
Cedar corporation
engineers • architects • planners • environmental specialists
land surveyors • landscape architects • interior designers
www.cedarcorp.com
800-472-7372
W61N497 Washington Ave. Suite 142 Cedarburg, WI 53012 262-375-4467 FAX 262-375-2688
2820 Walton Commons W. Suite 142 Madison, WI 53718 608-249-5811 FAX 608-249-5824
1496 Bellevue Street Suite 502 Green Bay, WI 54311 920-884-3581 FAX 920-491-9020
604 Wilson Ave. Menomonie, WI 54751 715-235-9086 FAX 715-235-2727

CITY OF ABBOTSFORD
2020 W HEMLOCK STREET RESURFACING
CLARK COUNTY, WISCONSIN
TYPICAL SECTIONS

SHEET NO.
4 OF 25



WEST HEMLOCK STREET
STA 18+60 TO STA 21+00
NO SCALE



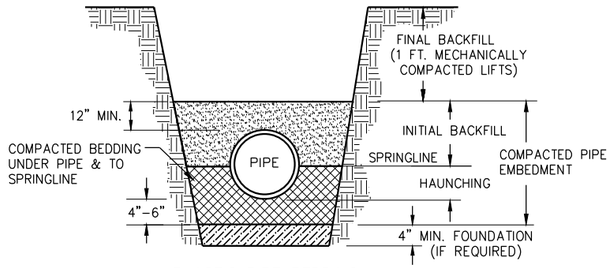
WEST HEMLOCK STREET
STA 21+40 TO STA 23+35
NO SCALE

JOB NO. A6300-002
DRAWN BY KTH
CHECKED BY BDC
DATE JULY 2020
REVISIONS
REFERENCE FILE 00base_*.dwg
DRAWING FILE 020301_ts_*.dwg

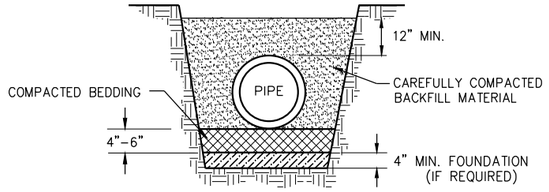
www.cedarcorp.com
800-472-7372
Cedar corporation
engineers • architects • planners • environmental specialists
land surveyors • landscape architects • interior designers
W61N497 Washington Ave. Suite 142 Cedarburg, WI 53012 (262) 375-2688 FAX 262-375-2688
2820 Walton Commons W. Suite 142 Madison, WI 53718 (608) 249-5825 FAX 608-249-5824
1496 Bellevue Street Suite 502 Green Bay, WI 54311 (920) 491-9020 FAX 920-491-9020
604 Wilson Ave. Menomonie, WI 54751 715-235-2727 FAX 715-235-2727

CITY OF ABBOTSFORD
2020 W HEMLOCK STREET RESURFACING
CLARK COUNTY, WISCONSIN
TYPICAL SECTIONS

SHEET NO. 5 OF 25



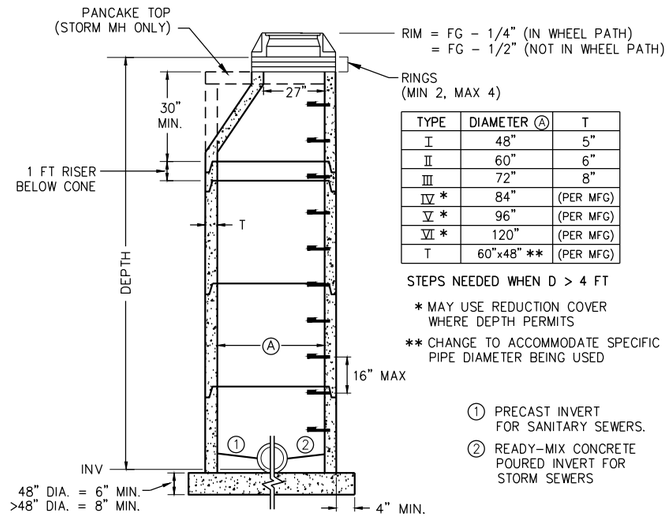
PLASTIC PIPE BEDDING



DIP & RCP BEDDING

PIPE BEDDING DETAILS

NO SCALE



TYPE	DIAMETER (A)	T
I	48"	5"
II	60"	6"
III	72"	8"
IV *	84"	(PER MFG)
V *	96"	(PER MFG)
VI *	120"	(PER MFG)
T	60"x48" **	(PER MFG)

STEPS NEEDED WHEN D > 4 FT

* MAY USE REDUCTION COVER WHERE DEPTH PERMITS

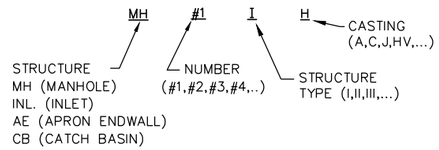
** CHANGE TO ACCOMMODATE SPECIFIC PIPE DIAMETER BEING USED

(1) PRECAST INVERT FOR SANITARY SEWERS.

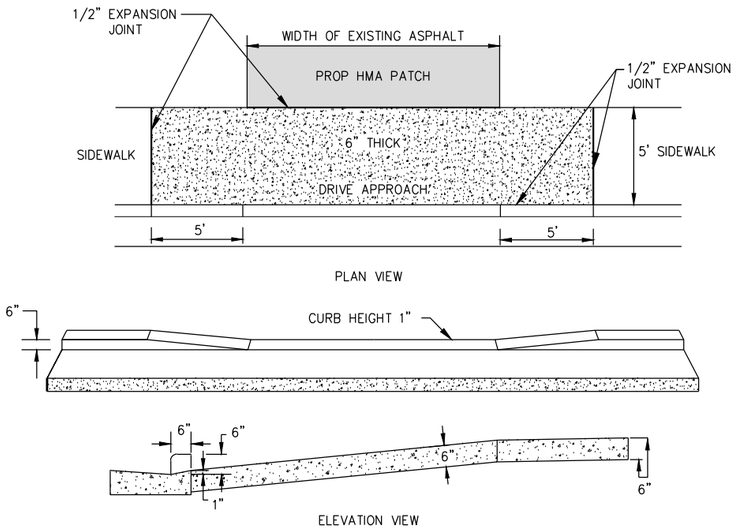
(2) READY-MIX CONCRETE POURED INVERT FOR STORM SEWERS

SANITARY MANHOLE
STORM MANHOLE

NO SCALE

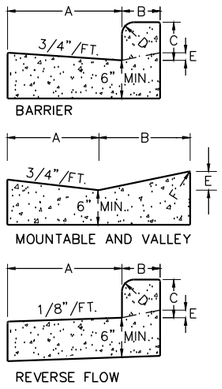


INLET & MANHOLE NOMENCLATURE



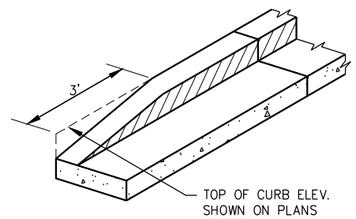
CONCRETE DRIVEWAY W/ SIDEWALK

NO SCALE



CURB TYPE	A	B	C	D	E	F
BARRIER						
18" B	12"	6"	6"	2"	1.5"	1/2"
24" B	18"	6"	6"	2"	1.5"	1/2"
30" B	24"	6"	6"	2"	1.5"	1/2"
MOUNTABLE						
24" M	12"	12"	–	–	2.50"	1/2"
30" M	18"	12"	–	–	2.50"	1/2"
36" M	24"	12"	–	–	2.50"	1/2"
VALLEY GUTTER						
36" V	18"	18"	–	–	1.5"	–
REVERSE FLOW						
24" B	18"	6"	6"	2"	1.5"	1/2"

CONCRETE CURB & GUTTER



CONCRETE CURB & GUTTER END SECTION TAPER

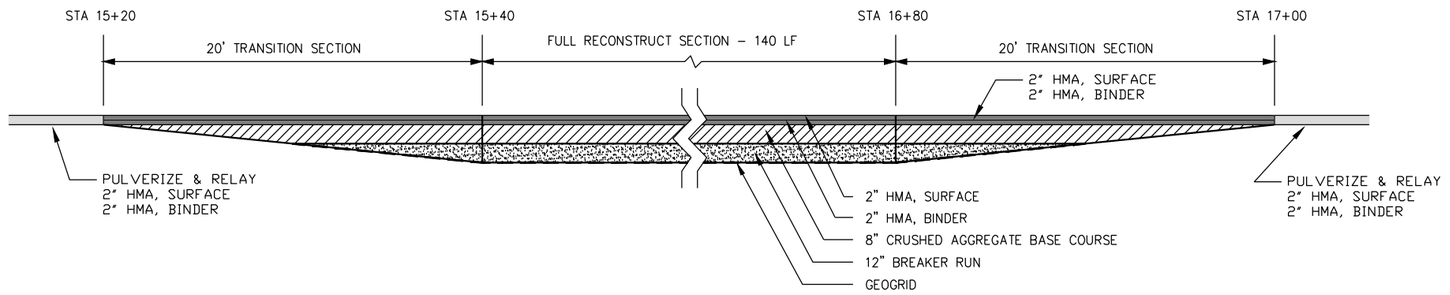
NO SCALE

JOB NO.
A6300-002
DRAWN BY
KTH
CHECKED BY
BDC
DATE
JULY 2020
REVISIONS
REFERENCE FILE
00base_*.dwg
DRAWING FILE
021001_cd_*.dwg

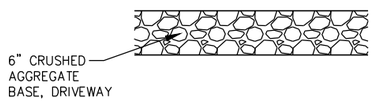
www.cedarcorp.com
800-472-7372
engineers • architects • planners • environmental specialists
land surveyors • landscape architects • interior designers
Cedar corporation
2820 Walton Commons W. Suite 135
Madison, WI 53718
608-354-0037
FAX 608-249-5824
604 Wilson Ave.
Menomonie, WI 54751
715-235-9081
FAX 715-235-2727
1496 Bellevue Street Suite 202
Green Bay, WI 54311
920-491-9081
FAX 920-491-9020
W61N497 Washington Ave.
Cedarburg, WI 53012
262-204-2360
FAX 262-375-2688

CITY OF ABBOTSFORD
2020 W HEMLOCK STREET RESURFACING
CLARK COUNTY, WISCONSIN
CONSTRUCTION DETAILS

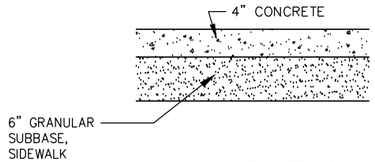
SHEET NO.
6 OF 25



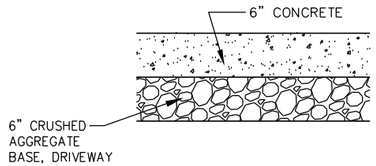
FULL RECONSTRUCT SECTION WITH TRANSITION ZONES



GRAVEL DRIVEWAY
NO SCALE



CONCRETE SIDEWALK, 4"
NO SCALE



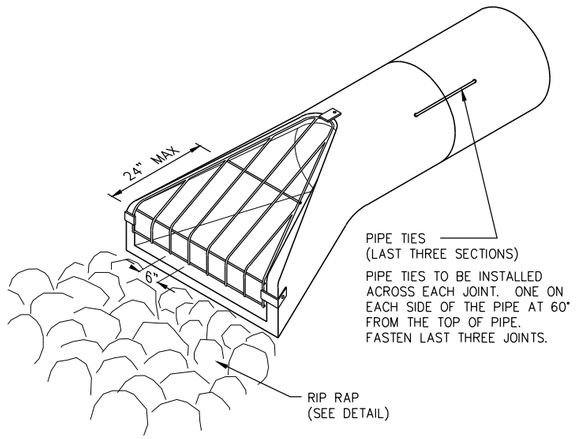
CONCRETE SIDEWALK, 6"
NO SCALE

JOB NO.
A6300-002
DRAWN BY
KTH
CHECKED BY
BDC
DATE
JULY 2020
REVISIONS
REFERENCE FILE
00base_*.dwg
DRAWING FILE
021001_cd_*.dwg

www.cedarcorp.com
800-472-7372
engineers • architects • planners • environmental specialists
land surveyors • landscape architects • interior designers
Cedar corporation
W61N497 Washington Ave.
Cedarburg, WI 53012
262-204-2360
FAX 262-375-2688
2820 Walton Commons W.
Suite 145
Madison, WI 53718
608-354-0037
FAX 608-249-5824
1496 Bellevue Street
Suite 166
Green Bay, WI 54311
920-491-9081
FAX 920-491-9020
604 Wilson Ave.
Menomonie, WI 54751
715-235-9081
FAX 715-235-2727

CITY OF ABBOTSFORD
2020 W HEMLOCK STREET RESURFACING
CLARK COUNTY, WISCONSIN
CONSTRUCTION DETAILS

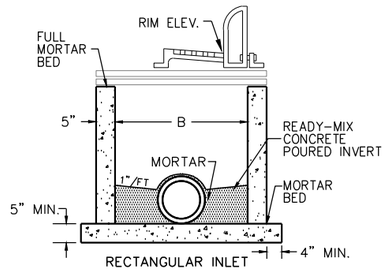
SHEET NO.
7 OF 25

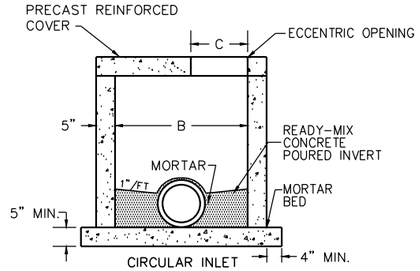


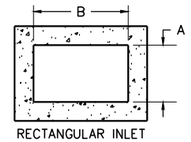
NOTE:
NO TRASHGUARD REQUIRED ON 12-IN AND 15-IN ENDWALLS

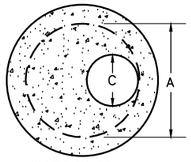
APRON ENDWALL, RCP

NO SCALE









INLET TYPE	A	B	COVER OPENING C
I	2'	2'	–
II	2'	2'-6"	–
III	2'	3'	–
IV	42" DIA.	42" DIA.	27" DIA.
V	27" DIA.	27" DIA.	–

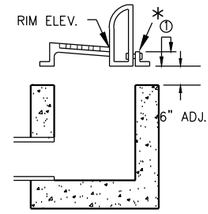
NOTE: STEPS REQUIRED WHEN D > 4'

STORM INLET

NO SCALE

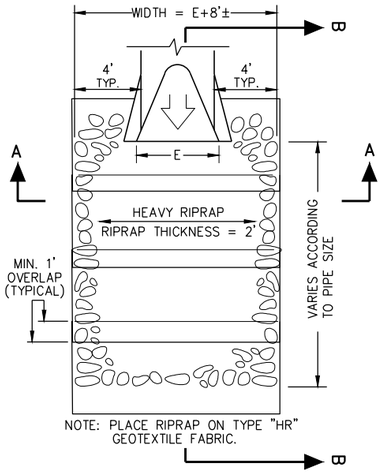
* INLET CASTING BOLT SLOTS SHALL BE COMPLETELY SEALED WITH WATERTIGHT SEAL.

CASTING TYPE	HEIGHT ①
A	4"
C	5"
J	7 1/2"
H	4"
HV	4"
B9	4"
B6	4"



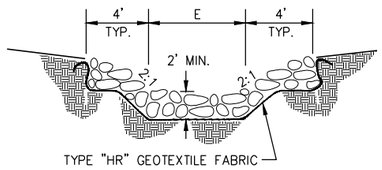
INLET CASTINGS

NO SCALE



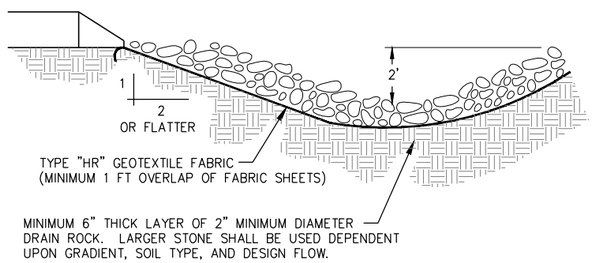
TYPICAL PLACEMENT OF RIPRAP AT CULVERT DISCHARGE

NO SCALE

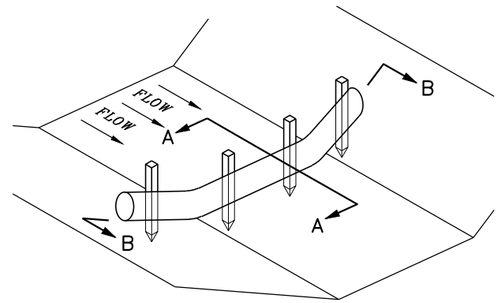


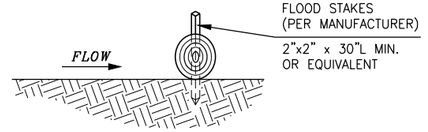
NOTE:
DESIGN HEIGHT (H), WIDTH (W) AND STONE SIZE SHALL BE DETERMINED BY THE ENGINEER.

SECTION A-A

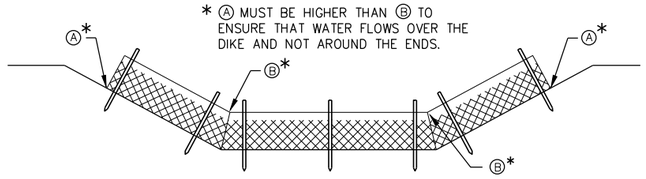


SECTION B-B





SECTION A-A



SECTION B-B

SEDIMENT LOG DITCH DIKE, PERPENDICULAR FLOW

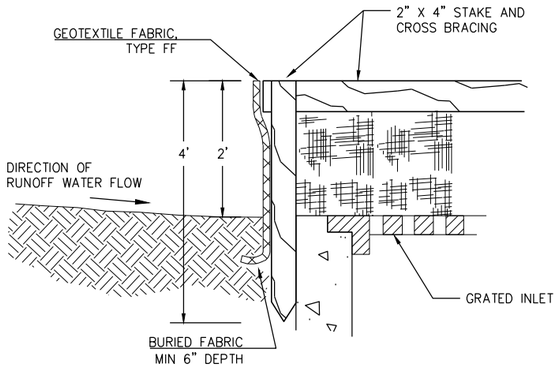
NO SCALE

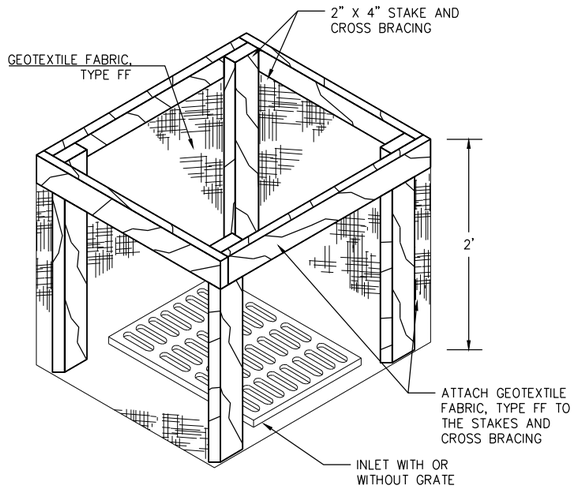
JOB NO. A6300-002
DRAWN BY KTH
CHECKED BY BDC
DATE JULY 2020
REVISIONS
REFERENCE FILE 00base_*.dwg
DRAWING FILE 021001_cd_*.dwg

www.cedarcorp.com
800-472-7372
engineers • architects • planners • environmental specialists
land surveyors • landscape architects • interior designers
Cedar corporation
W61N497 Washington Ave. Cedarburg, WI 53012 262-204-2360 FAX 262-375-2688
2820 Walton Commons W. Suite 145 Madison, WI 53718 608-354-0037 FAX 608-249-5824
1496 Bellevue Street Suite 202 Green Bay, WI 54311 920-491-9081 FAX 920-491-9020
604 Wilson Ave. Menomonie, WI 54751 715-235-9081 FAX 715-235-2727

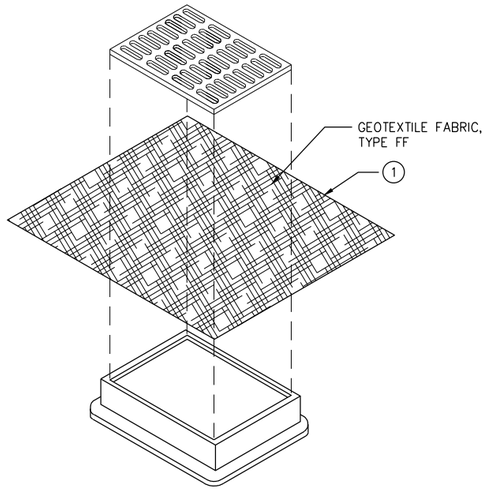
CITY OF ABBOTSFORD
2020 W HEMLOCK STREET RESURFACING
CLARK COUNTY, WISCONSIN
CONSTRUCTION DETAILS

SHEET NO.
8 OF 25



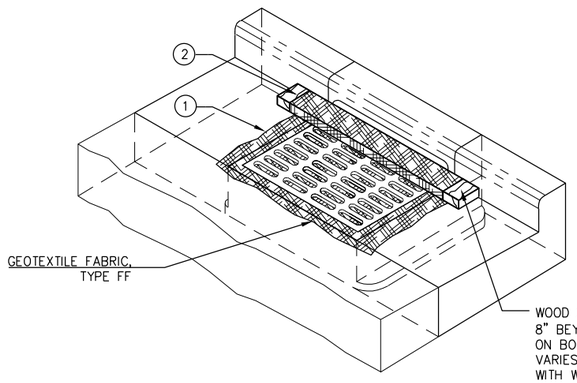


INLET PROTECTION, TYPE A

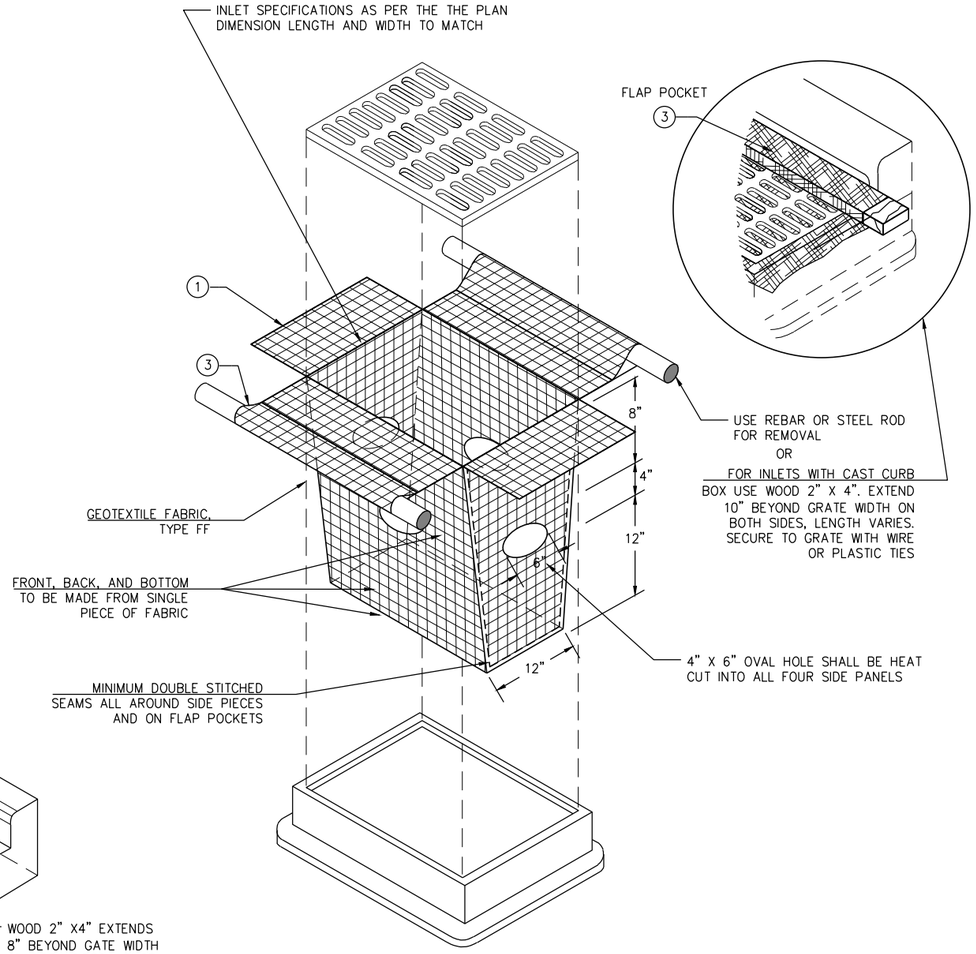


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH OR WITHOUT A CURB BOX AS PER NOTE (2))

GENERAL NOTES

MANUFACTURED ALTERNATIVE APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

(1) FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

(2) FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

(3) FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.
THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.
TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE , BETWEEN THE INLET WALL AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

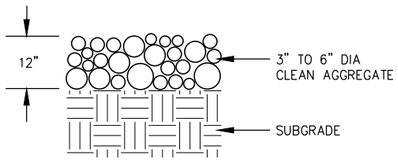
THIS DRAWING IS BASED ON WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARD DETAIL DRAWING 8 E 10-2

JOB NO.
A6300-002
DRAWN BY
KTH
CHECKED BY
BDC
DATE
JULY 2020
REVISIONS
REFERENCE FILE
00base_*.dwg
DRAWING FILE
021001_cd_*.dwg

www.cedarcorp.com
800-472-7372
engineers • architects • planners • environmental specialists
land surveyors • landscape architects • interior designers
Cedar corporation
W61N497 Washington Ave. Cedarburg, WI 53012 262-204-2360 FAX 262-375-2688
2820 Walton Commons W. Suite 145 Madison, WI 53718 608-354-0037 FAX 608-249-5824
1496 Bellevue Street Suite 201 Green Bay, WI 54311 920-491-9081 FAX 920-491-9020
604 Wilson Ave. Menomonie, WI 54751 715-235-9081 FAX 715-235-2727

CITY OF ABBOTSFORD
2020 W HEMLOCK STREET RESURFACING
CLARK COUNTY, WISCONSIN
CONSTRUCTION DETAILS

SHEET NO.
9 OF 25

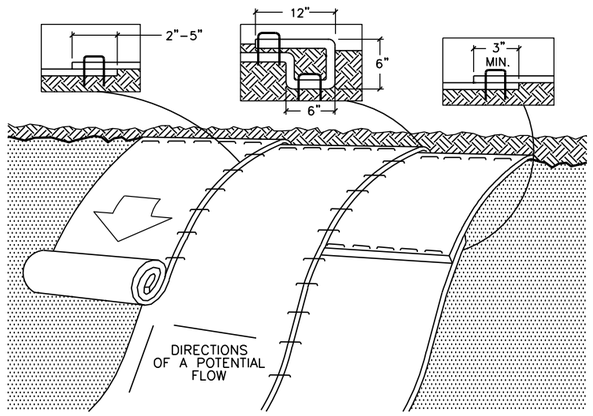


NOTES:
TRACKING PAD AREA TO BE 50' x 20'
UNLESS OTHERWISE NOTED.

REMOVE AND REPLACE AGGREGATE WHEN
VOIDS BECOME FILLED WITH SEDIMENT OR IF
SURFACE OPENINGS BECOME PLUGGED SO THAT
TRACKING PAD DOES NOT FUNCTION

AGGREGATE TRACKING PAD

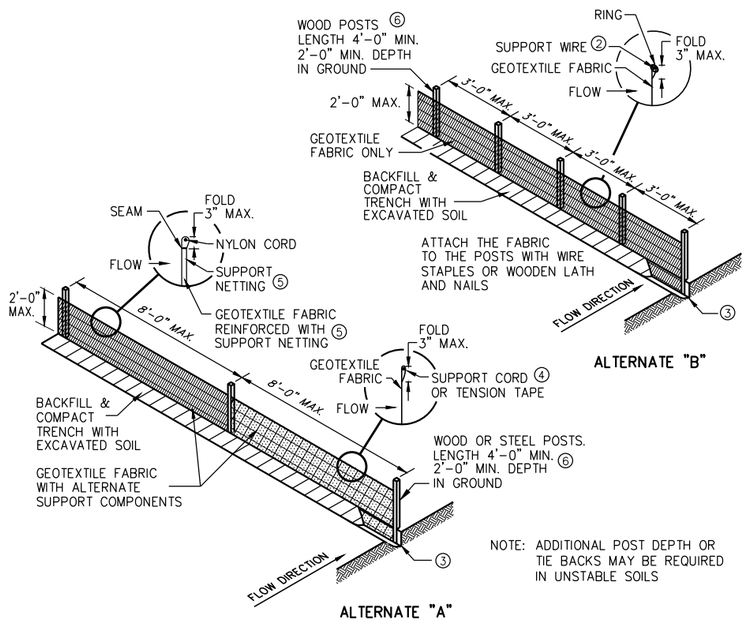
NO SCALE

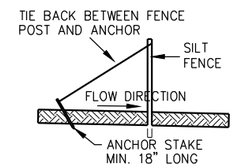


* PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL MAT, INCLUDING GRADING, TOPSOIL, SEED & FERTILIZER.
* BEGIN AT TOP OF SLOPE, BY ANCHORING MAT IN TRENCH, INSTALL STAPLES 12" APART, SEE DETAIL.
* ROLL MAT DOWN SLOPE AS SHOWN. FASTEN MAT TO SOIL SURFACE W/ STAPLES. STAPLE PATTERN GUIDE BY MFR.
* OVERLAP MAT AS PER MFRS. SPEC.
* NORTH AMERICAN GREEN, USA 1-800-772-2040, www.nagreen.com.

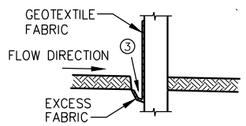
EROSION CONTROL MAT DETAIL

NO SCALE





SILT FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)



TRENCH DETAIL

GENERAL NOTES

DETAIL OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

WHEN POSSIBLE THE SILT FENCE SHOULD BE CONSTRUCTED IN AN ARC OR HORSESHOE SHAPE, WITH THE ENDS POINTING UPSLOPE TO MAXIMIZE BOTH STRENGTH AND EFFECTIVENESS.

① CROSS BRACE WITH 2"x4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS AS DIRECTED BY THE ENGINEER.

② MINIMUM 14 GAGE WIRE REQUIRED, FOLD FABRIC 3" OVER THE WIRE AND STAPLE OR PLACE WIRE RINGS ON 12" C-C.

③ EXCAVATE A TRENCH A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.

④ WIRE SUPPORT FENCE SHALL BE 14 GAGE MINIMUM WOVEN WIRE WITH A MAXIMUM MESH SPACING OF 6". SECURE TOP OF GEOTEXTILE FABRIC TO TOP OF FENCE WITH STAPLES OR WIRE RINGS AT 12" C-C.

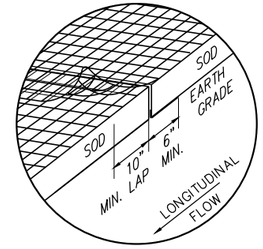
⑤ GEOTEXTILE FABRIC SHALL BE REINFORCED WITH AN INDUSTRIAL POLYPROPYLENE NETTING WITH A MAXIMUM MESH SPACING OF 3/4" OR EQUAL. A HEAVY DUTY NYLON TOP SUPPORT CORD OR EQUIVALENT IS REQUIRED.

⑥ STEEL POSTS SHALL BE STUDDED "TEE" OF "U" TYPE WITH A MINIMUM WEIGHT OF 1.28 LBS/LINEAL FOOT (WITHOUT ANCHOR). FIN ANCHORS SUFFICIENT TO RESIST POST MOVEMENT ARE REQUIRED. WOOD POSTS POSTS FOR GEOTEXTILE FABRIC REINFORCED WITH NETTING SHALL BE A MINIMUM SIZE OF 1-1/8"x1-1/8" OAK OR HICKORY.

ALTERNATES A & B ARE EQUAL AND EITHER MAY BE USED.

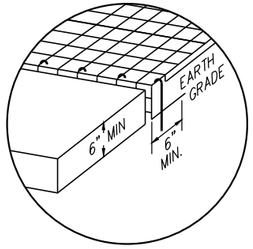
SILT FENCE

NO SCALE



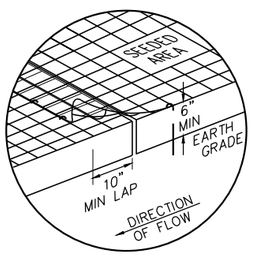
JUNCTION SLOT
SOD ONLY

DETAIL A



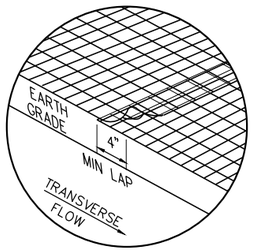
ANCHOR SLOT
AT BEGINNING AND END OF EROSION MAT

DETAIL B



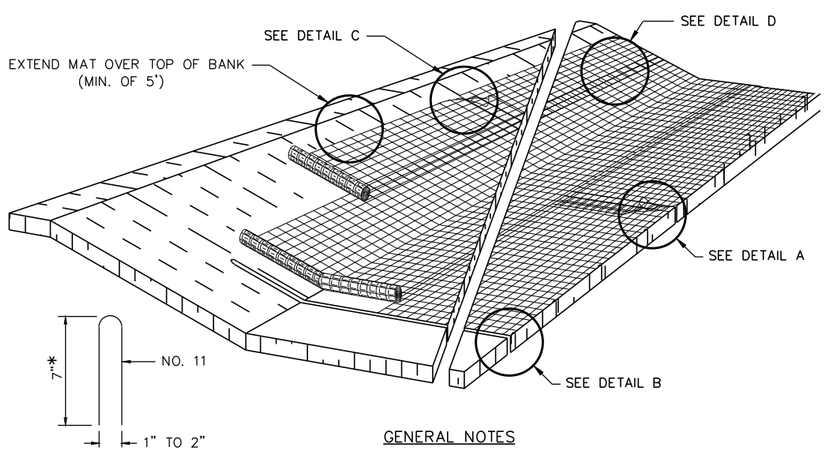
JUNCTION SLOT
SEED ONLY

DETAIL C



LAP JOINT
SEED AND SOD

DETAIL D



TYPICAL STAPLE

* 6" MIN (HIGHLY COMPACT SOILS)
8" MIN (FRIABLE SOILS)
10" MIN (LOOSE AND SANDY SOILS)

CLASS	TYPE
A	TEMPORARY
B	INTERMEDIATE
C	PERMANENT

EROSION MAT

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

LAP JOINTS SHALL NOT BE PLACED IN THE BOTTOM OF V-SHAPED DITCHES.

JUNCTION SLOTS ON ADJACENT STRIPS OF MATTING SHALL BE STAGGERED A MINIMUM OF 4 FEET APART.

EDGES OF THE EROSION MAT SHALL BE IMPRESSED IN THE SOIL.

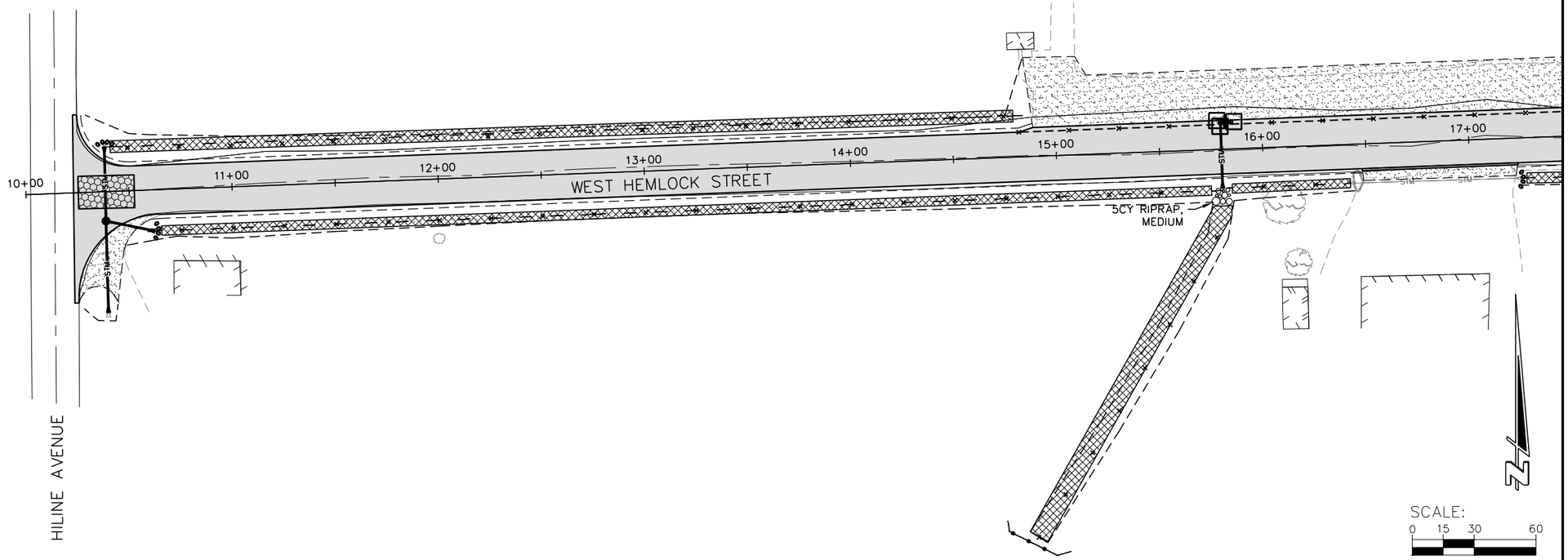
FOR EROSION MAT OVER SEEDING JUNCTION OR ANCHOR SLOTS SHALL BE AT MINIMUM INTERVALS OF 50 FEET.

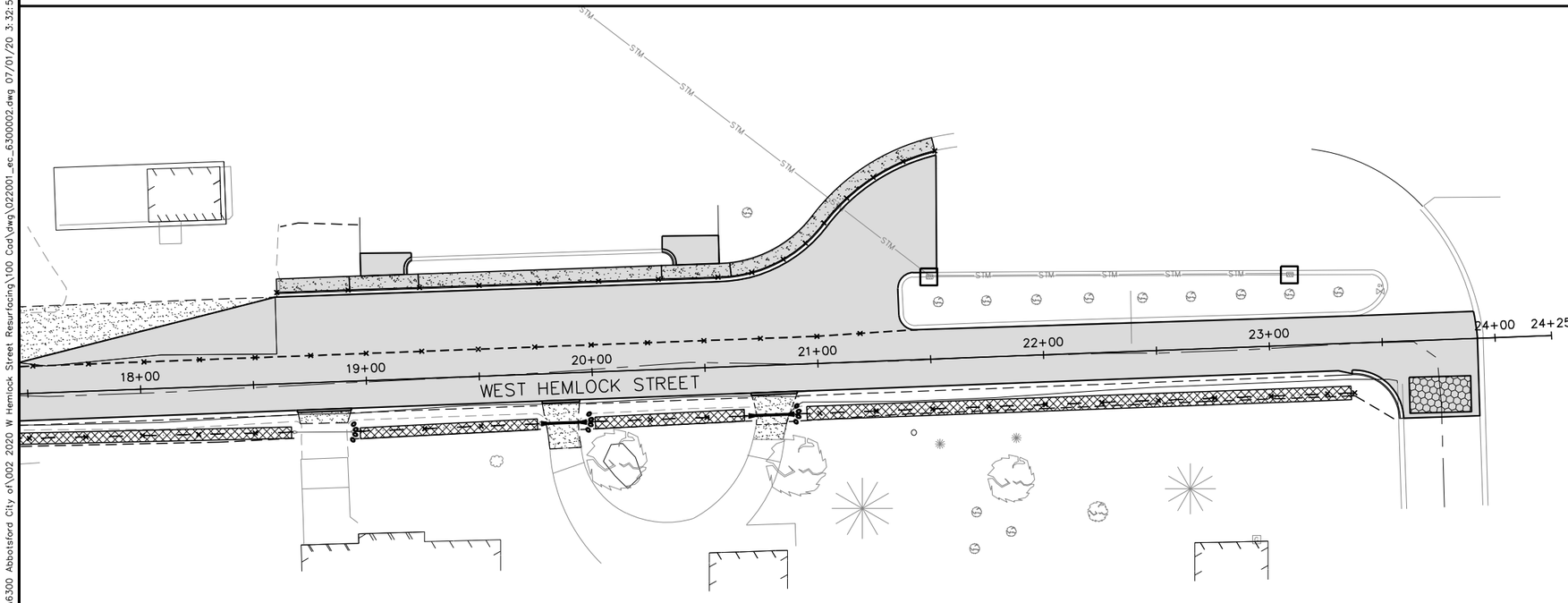
JOB NO. A6300-002
DRAWN BY KTH
CHECKED BY BDC
DATE JULY 2020
REVISIONS
REFERENCE FILE 00base_*.dwg
DRAWING FILE 021001_cd_*.dwg

www.cedarcorp.com
800-472-7372
engineers • architects • planners • environmental specialists
land surveyors • landscape architects • interior designers
Cedar corporation
W61N497 Washington Ave. Suite 200, Cedarburg, WI 53012, 262-204-2360, FAX 262-375-2688
2820 Walton Commons W. Suite 135, Madison, WI 53718, 608-354-0037, FAX 608-249-5824
1496 Bellevue Street Suite 202, Green Bay, WI 54311, 920-491-9081, FAX 920-491-9020
604 Wilson Ave. Suite 3, Menomonie, WI 54751, 715-235-9081, FAX 715-235-2727

CITY OF ABBOTSFORD
2020 W HEMLOCK STREET RESURFACING
CLARK COUNTY, WISCONSIN
CONSTRUCTION DETAILS

SHEET NO.
10 OF 25





LEGEND

- SILT FENCE
- INLET PROTECTION
- AGGREGATE TRACKING PAD
- EROSION MAT CLASS I, TYPE B
- CULVERT PIPE DITCH CHECK
- RIPRAP

NOTE

THE EXACT NUMBER, LOCATION AND SPACING OF ALL EROSION CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER. ADDITIONAL EROSION CONTROL DEVICES MAY BE necessary.

SCALE:
0 15 30 60

JOB NO.	A6300-002
DRAWN BY	KTH
CHECKED BY	BDC
DATE	JULY 2020
REVISIONS	
REFERENCE FILE	00base_*.dwg
DRAWING FILE	022001_ec_*.dwg

www.cedarcorp.com
800-472-7372

Cedar corporation

engineers • architects • planners • environmental specialists
land surveyors • landscape architects • interior designers

W61N497 Washington Ave.
Cedarburg, WI 53012
262-204-2360
FAX 262-375-2688

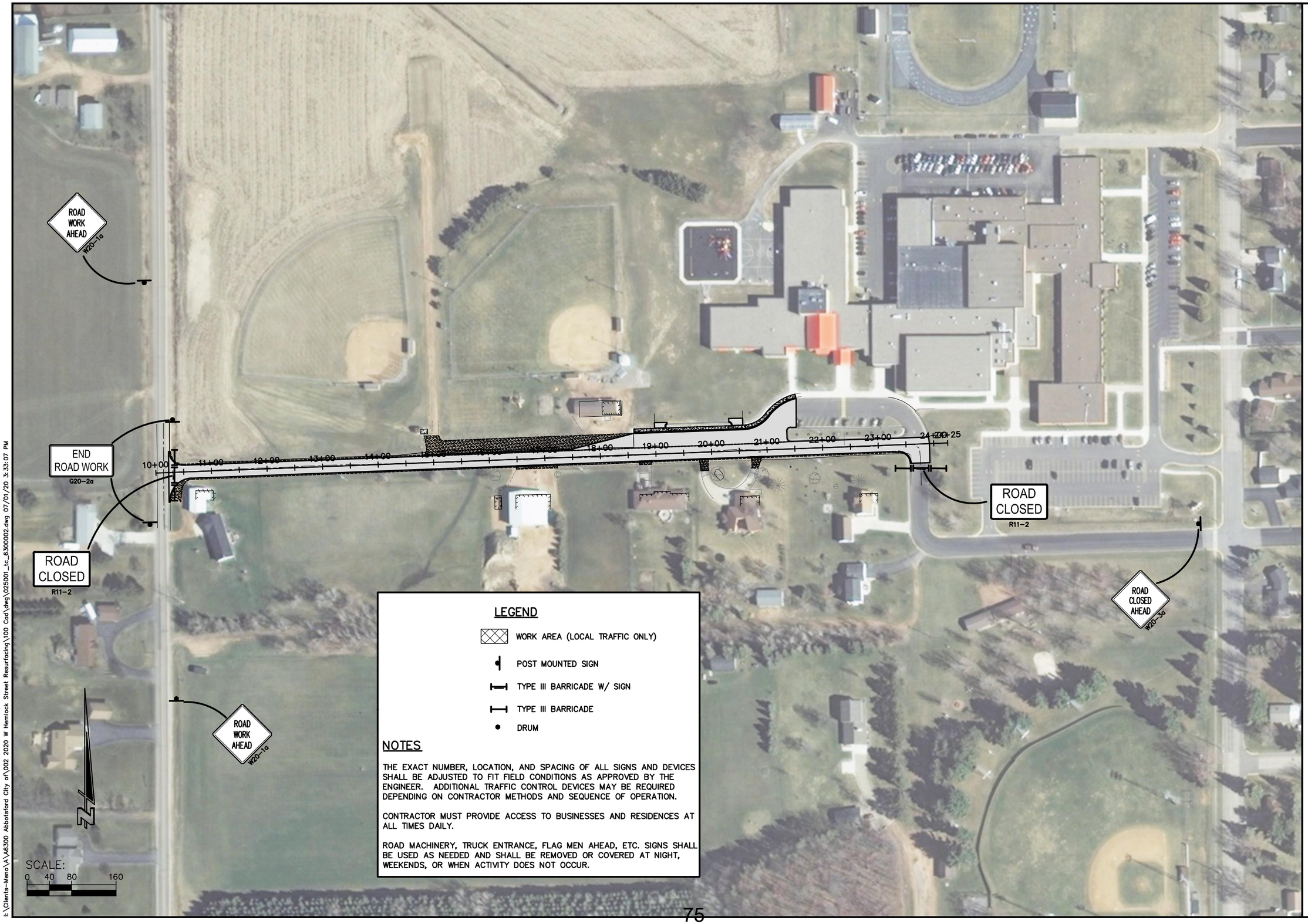
2820 Walton Commons W.
Suite 142
Madison, WI 53718
608-354-0037
FAX 608-249-5824

1496 Bellevue Street
Suite 502
Green Bay, WI 54311
920-491-9081
FAX 920-491-9020

604 Wilson Ave.
Menomonie, WI 54751
715-235-9081
FAX 715-235-2727

CITY OF ABBOTSFORD
2020 W HEMLOCK STREET RESURFACING
CLARK COUNTY, WISCONSIN
EROSION CONTROL

SHEET NO.
11 OF 25



LEGEND

- WORK AREA (LOCAL TRAFFIC ONLY)
- POST MOUNTED SIGN
- TYPE III BARRICADE W/ SIGN
- TYPE III BARRICADE
- DRUM

NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER. ADDITIONAL TRAFFIC CONTROL DEVICES MAY BE REQUIRED DEPENDING ON CONTRACTOR METHODS AND SEQUENCE OF OPERATION.

CONTRACTOR MUST PROVIDE ACCESS TO BUSINESSES AND RESIDENCES AT ALL TIMES DAILY.

ROAD MACHINERY, TRUCK ENTRANCE, FLAG MEN AHEAD, ETC. SIGNS SHALL BE USED AS NEEDED AND SHALL BE REMOVED OR COVERED AT NIGHT, WEEKENDS, OR WHEN ACTIVITY DOES NOT OCCUR.

JOB NO.	A6300-002
DRAWN BY	KTH
CHECKED BY	BDC
DATE	JULY 2020
REVISIONS	
REFERENCE FILE	00base_*.dwg
DRAWING FILE	025001_tc_*.dwg

Cedar corporation
engineers • architects • planners • environmental specialists
land surveyors • landscape architects • interior designers
www.cedarcorp.com
800-472-7372

2820 Walton Commons W. Suite 207
Madison, WI 53718
608-294-0237
FAX 608-249-2624

1496 Bellevue Street Suite 202
Green Bay, WI 54311
920-491-9081
FAX 920-491-9020

604 Wilson Ave.
Menomonie, WI 54751
715-235-9081
FAX 715-235-2727

W11N497 Washington Ave.
Cedarburg, WI 53012
262-204-2380
FAX 262-375-2658

CITY OF ABBOTSFORD
2020 W HEMLOCK STREET RESURFACING
CLARK COUNTY, WISCONSIN
TRAFFIC CONTROL

SHEET NO.
12 OF 25

ABBOTSFORD SCHOOL DISTRICT 1

HILINE AVE

R/W

25' RAD

S.I.

DITCH FLOW @ 0.45%

V DITCH BOTTOM

DITCH FLOW @ 0.45%

GRVL

VALLEY FLOW LINE

1428.55 1428.66 1428.78 1428.89 1429.00 1429.11 1429.23 1429.34 1429.45 1429.56 1429.68 1429.79 1429.90 1430.01 1430.13 1430.24 1430.35 1430.46 1430.76 1430.47 1430.19

10+00 11+00 12+00 13+00 14+00 15+00

W HEMLOCK ST

2' GRVL SHOULDERS

VALLEY FLOW @ 1.18%

MATCHLINE AT STATION - 15+39.00

1428.30 1428.45 1428.60 1428.75 1428.90 1429.05 1429.20 1429.35 1429.50 1429.35 1429.20 1429.05 1428.89 1428.74 1428.59 1428.44 1428.29 1428.14 1427.98

STM

40' RAD

S.I.

R/W

DITCH FLOW @ 0.61%

DITCH FLOW @ 0.61%

DITCH BOTTOM HIGH POINT

V DITCH BOTTOM

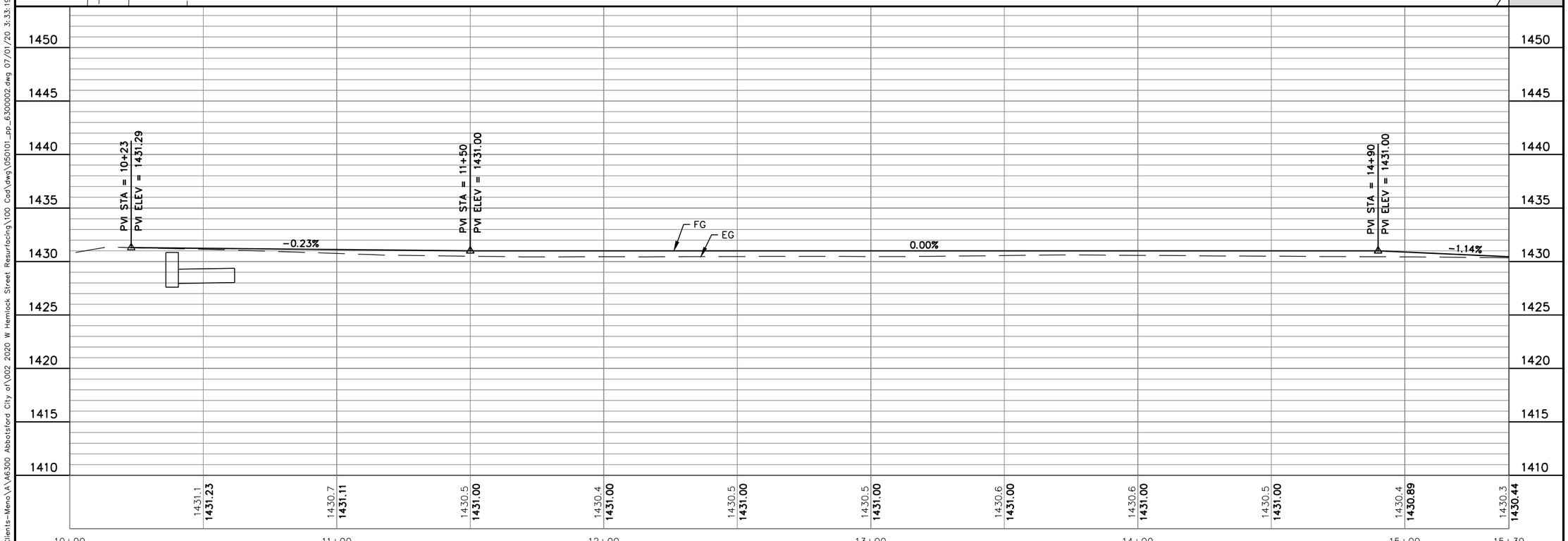
GRVL

S.I.

R/W

SCALE:
0 10 20 40

HOFFMAN JR ETAL, TOM
210 HILINE AVE



JOB NO. A6300-002
DRAWN BY KTH
CHECKED BY BDC
DATE JULY 2020
REVISIONS
REFERENCE FILE 00base_*.dwg
DRAWING FILE 050101_pp_*.dwg

www.cedarcorp.com
800-472-7372
engineers • architects • planners • environmental specialists
land surveyors • landscape architects • interior designers
Cedar corporation
W61N497 Washington Ave. Cedarburg, WI 53012 262-204-2360 FAX 262-375-2688
2820 Walton Commons W. Suite 142 Madison, WI 53718 608-354-0037 FAX 608-249-5824
1695 Bellevue Street Green Bay, WI 54311 920-491-9081 FAX 920-491-9020
604 Wilson Ave. Menomonie, WI 54751 715-235-9081 FAX 715-235-2727

CITY OF ABBOTSFORD
2020 W HEMLOCK STREET RESURFACING
CLARK COUNTY, WISCONSIN
PLAN & PROFILE

SHEET NO.
13 OF 25

ABBOTSFORD SCHOOL DISTRICT 1

ABBOTSFORD SCHOOL DISTRICT 1

SCALE: 0 10 20 40

S.I.

ASPH

SAWCUT

24" C&G, REJECT

SAWCUT

FULL RECONSTRUCT LIMITS WITH 20' TAPERS BEYOND EACH END (SEE DETAIL)

R/W

GRADE BREAK POINT

VALLEY FLOW LINE

MATCHLINE AT STATION – 15+39.00

STA 15+40

STA 16+80

MATCHLINE AT STATION – 20+78.00

VALLEY FLOW @ 0.88%

VALLEY FLOW @ 0.88%

VALLEY FLOW @ 0.55%

1429.90 | 1429.80 | 1430.02 | 1430.23 | 1430.45 | 1430.67 | 1430.88 | 1431.10 | 1431.32 | 1431.53 | 1431.75 | 1431.97 | 1432.18 | 1432.39 | 1432.61 | 1432.75 | 1432.88 | 1433.02 | 1433.16 | 1433.30 | 1433.43

16+00 17+00 18+00 19+00 20+00

DITCH FLOW @ 2.62%

W HEMLOCK ST

DITCH FLOW @ 0.72%

DITCH FLOW @ 0.71%

DITCH FLOW @ 0.76%

1427.83 | 1428.17 | 1428.83 | 1430.29 | 1430.47 | 1430.65 | 1430.83 | 1431.01 | 1431.54 | 1431.71 | 1432.27 | 1432.46

S.I.

DITCH FLOW @ 0.50%

SEE PROJECT OVERVIEW FOR GRADING TO SOUTH

R/W

KEEP EXG 8" STEEL CULVERT IN PLACE

V DITCH BOTTOM (TYP)

S.I.

KEEP EXG 8" STEEL CULVERT IN PLACE

2' GRVL SHOULDER (TYP)

S.I.

S.I.

CONC

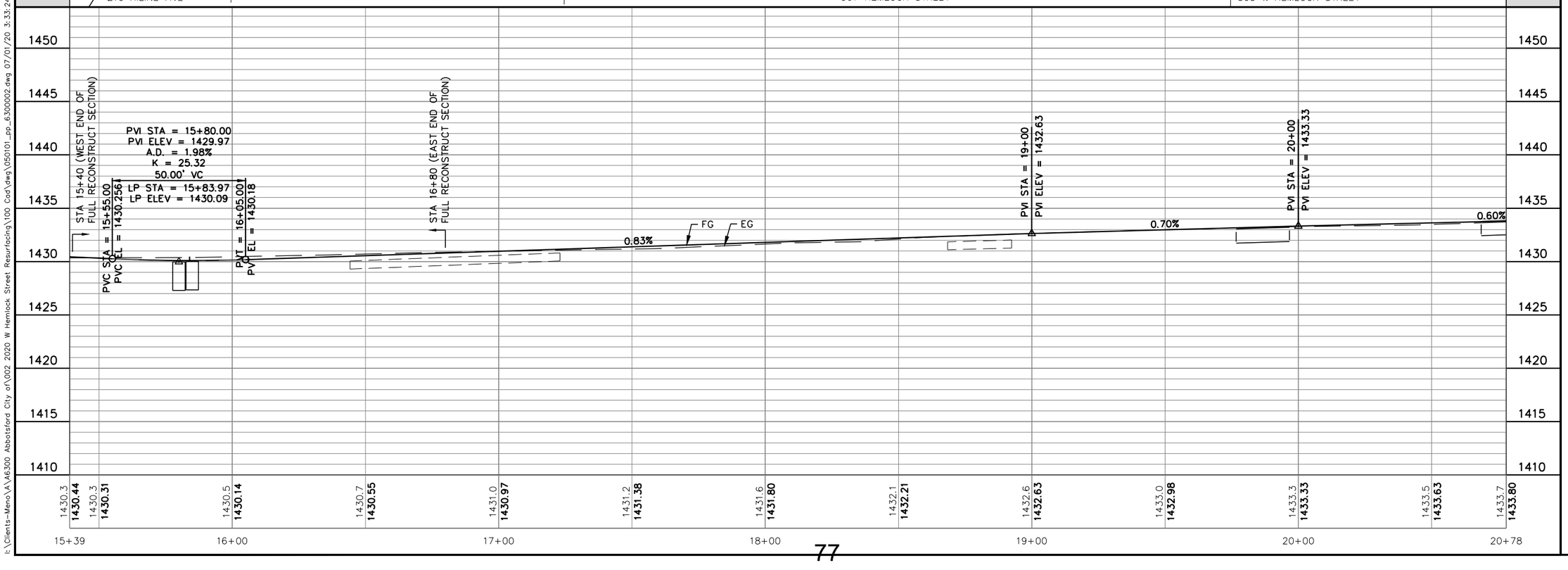
CONC

HOFFMAN JR ETAL, TOM
210 HILINE AVE

KALEPP, KURT DONALD
507 W HEMLOCK STREET

KALEPP, JUDITH A
507 HEMLOCK STREET

ACOSTA DE VASQUEZ, IRMA MARITZA;
VAZQUEZ ALEJANDRO GARCIA
505 W HEMLOCK STREET



77

JOB NO. A6300-002
DRAWN BY KTH
CHECKED BY BDC
DATE JULY 2020
REVISIONS
REFERENCE FILE 00base_*.dwg
DRAWING FILE 050101_pp_*.dwg

www.cedarcorp.com
800-472-7372
engineers • architects • planners • environmental specialists
land surveyors • landscape architects • interior designers
Cedar corporation
604 Wilson Ave. Menomonie, WI 54751 715-235-9081 FAX 715-235-2727
1695 Bellevue Street Suite 201 Green Bay, WI 54311 920-491-9081 FAX 920-491-9020
2820 Walton Commons W. Suite 142 Madison, WI 53718 608-354-0037 FAX 608-249-5824
W61N497 Washington Ave. Cedarburg, WI 53012 262-204-2360 FAX 262-375-2688

CITY OF ABBOTSFORD
2020 W HEMLOCK STREET RESURFACING
CLARK COUNTY, WISCONSIN
PLAN & PROFILE

SHEET NO. 14 OF 25

I:\Clients-Menc\A\A6300 Abbotsford City of\002 2020 W Hemlock Street Resurfacing\100 Cad\dwg\050101_pp_6300002.dwg 07/01/20 3:33:24 PM

ABBOTSFORD SCHOOL DISTRICT 1

24" C&G, REJECT

SAWCUT

ASPH

R/W

VALLEY FLOW @ 0.55%

VALLEY FLOW LINE

MATCHLINE STATION – 20+78.00

1433.57 1433.68

21+00 22+00 23+00 24+00 24+25

W HEMLOCK ST

DITCH FLOW @ 0.50%

SAWCUT

24" C&G, RECEIVING

1432.81 1432.93 1433.06 1433.18 1433.31 1433.43 1433.56 1433.68 1433.81 1433.93 1433.99

V DITCH BOTTOM

S.I.

R/W

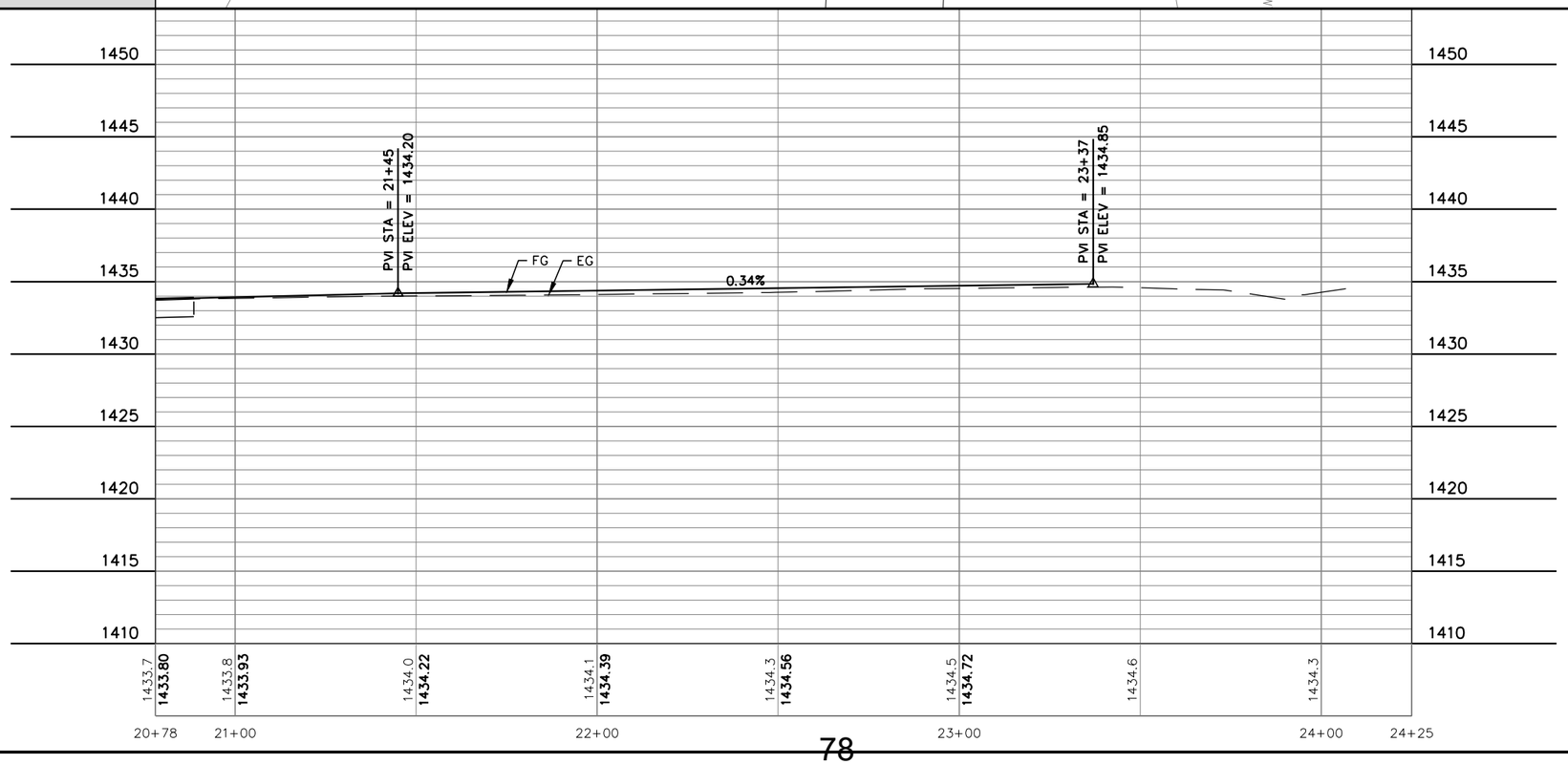
2' GRVL SHOULDER

SAWCUT

N 5TH AVE

MOLITOR, ADAM J; STRATHMANN, NADINE M
301 N 5TH AVE

SCALE:
0 10 20 40



JOB NO. A6300-002
DRAWN BY KTH
CHECKED BY BDC
DATE JULY 2020
REVISIONS
REFERENCE FILE 00base_*.dwg
DRAWING FILE 050101_pp_*.dwg

www.cedarcorp.com
800-472-7372

Cedar corporation
engineers • architects • planners • environmental specialists
new berlin • madison • milwaukee • wisconsin rapids • eau claire • green bay • appleton • oshkosh • fond du lac • manitowoc • sheboygan • wausau • superior • rhinelander

W61N497 Washington Ave. Suite 200 Cedarburg, WI 53012 262-204-2360 FAX 262-375-2688

2820 Walton Commons W. Suite 142 Madison, WI 53718 608-354-0037 FAX 608-249-5824

1695 Bellevue Street Suite 202 Green Bay, WI 54311 920-491-9081 FAX 920-491-9020

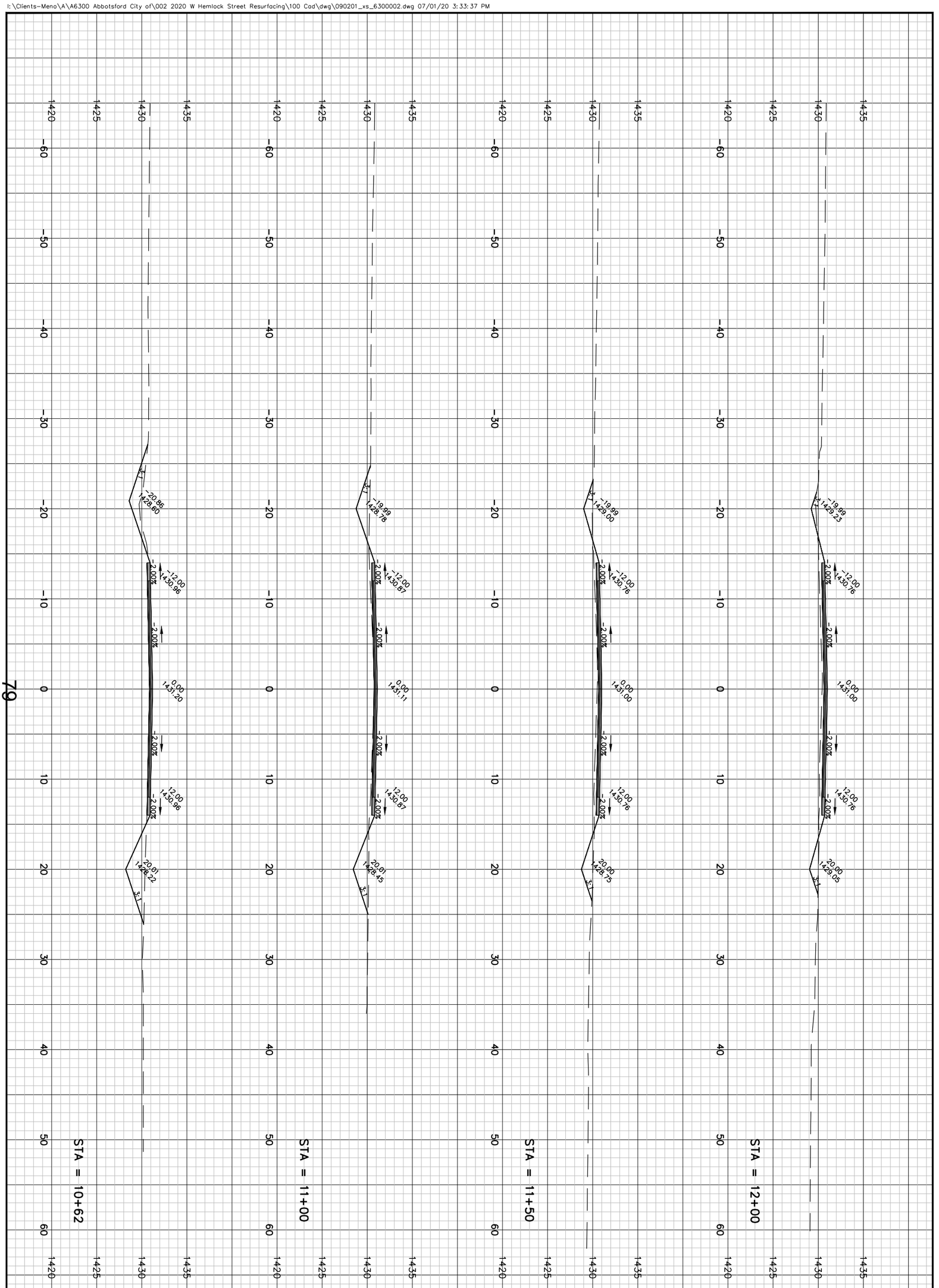
604 Wilson Ave. Menomonie, WI 54751 715-235-9081 FAX 715-235-2727

CITY OF ABBOTSFORD
2020 W HEMLOCK STREET RESURFACING
CLARK COUNTY, WISCONSIN
PLAN & PROFILE

SHEET NO.
15 OF 25

I:\Clients-Menc\A\A6300 Abbotsford City of\002 2020 W Hemlock Street Resurfacing\100 Cad\dwg\050101_pp_6300002.dwg 07/01/20 3:33:29 PM

I:\Clients-Meno\A\A6300 Abbotsford City of\002 2020 W Hemlock Street Resurfacing\100 Cad\dwg\090201_xs_6300002.dwg 07/01/20 3:33:37 PM



79

CITY OF ABBOTSFORD
2020 W HEMLOCK STREET RESURFACING
CLARK COUNTY, WISCONSIN
CROSS SECTIONS

SHEET NO. 16 OF 25

Cedar corporation
engineers • architects • planners • environmental specialists
land surveyors • landscape architects • interior designers
www.cedarcorp.com
800-472-7372

W61N497 Washington Ave.
Cedarburg, WI 53012
262-204-2360
FAX 262-375-2688

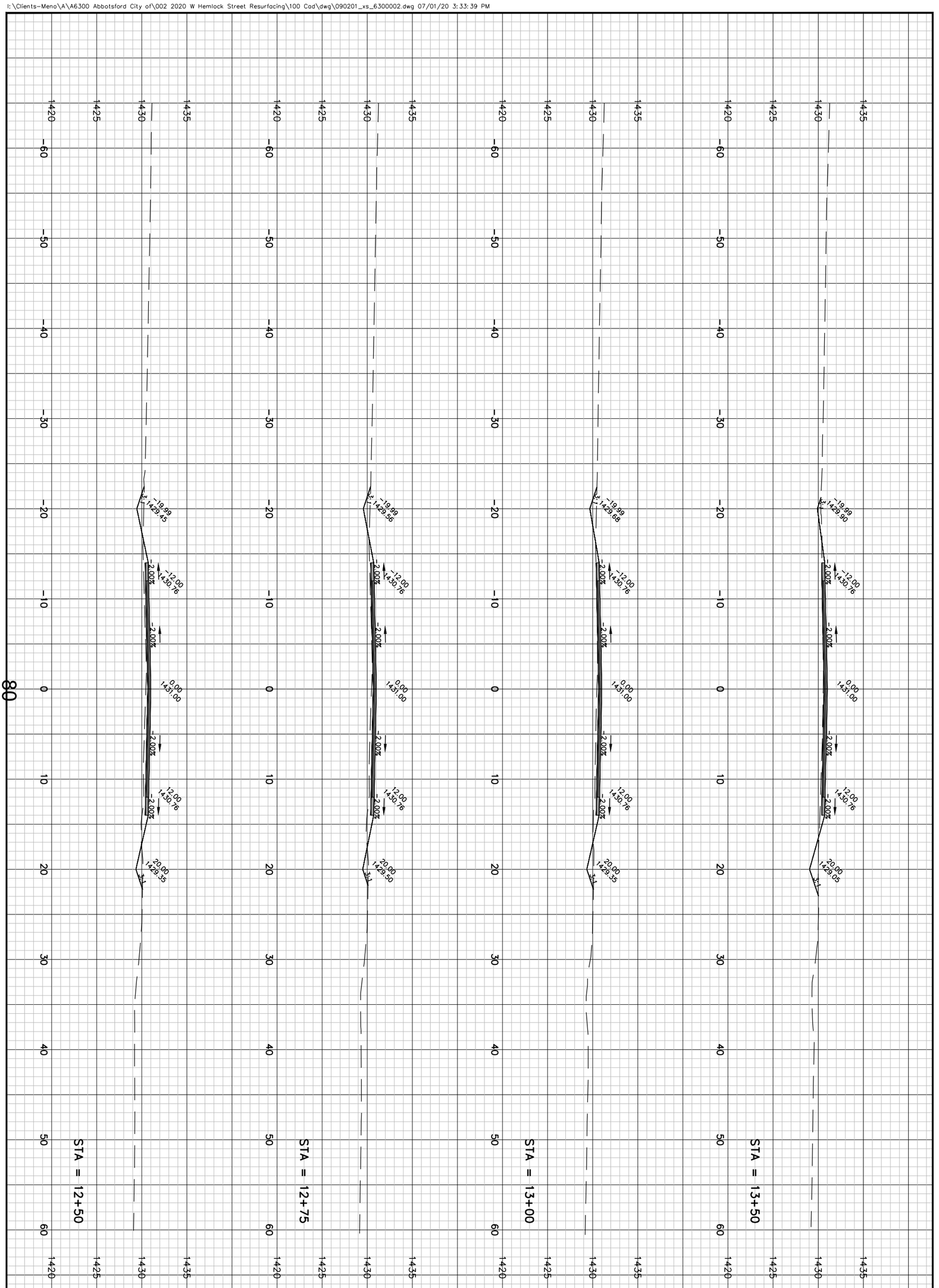
2820 Walton Commons W.
Suite 142
Madison, WI 53718
608-354-0037
FAX 608-249-5824

1695 Bellevue Street
Green Bay, WI 54311
920-491-9081
FAX 920-491-9020

604 Wilson Ave.
Menomonie, WI 54751
715-235-9081
FAX 715-235-2727

JOB NO.	A6300-002
DRAWN BY	KTH
CHECKED BY	BDC
DATE	JULY 2020
REVISIONS	
REFERENCE FILE	00base_*.dwg
DRAWING FILE	090201_xs_*.dwg

I:\Clients-Meno\A\A6300 Abbotsford City of\002 2020 W Hemlock Street Resurfacing\100 Cad\dwg\090201_xs_6300002.dwg 07/01/20 3:33:39 PM



80

CITY OF ABBOTSFORD

2020 W HEMLOCK STREET RESURFACING

CLARK COUNTY, WISCONSIN

CROSS SECTIONS

SHEET NO. 17 OF 25

www.cedarcorp.com
800-472-7372

Cedar corporation
engineers • architects • planners • environmental specialists
land surveyors • landscape architects • interior designers

W61N497 Washington Ave.
Cedarburg, WI 53012
262-204-2360
FAX 262-375-2688

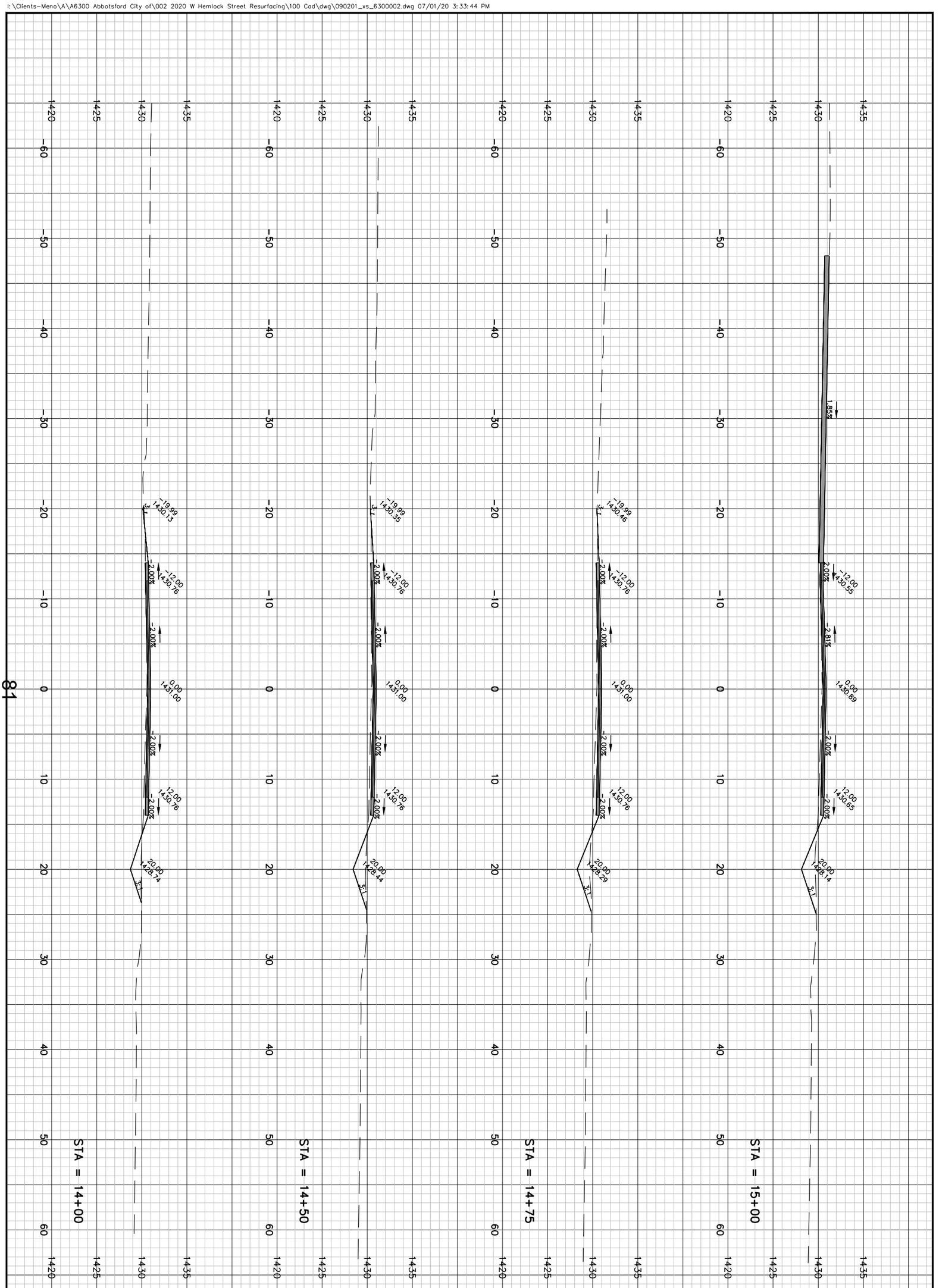
2820 Walton Commons W.
Suite 142
Madison, WI 53718
608-354-0037
FAX 608-249-5824

1695 Bellevue Street
Green Bay, WI 54311
920-491-9081
FAX 920-491-9020

604 Wilson Ave.
Menomonie, WI 54751
715-235-9081
FAX 715-235-2727

JOB NO. A6300-002
DRAWN BY KTH
CHECKED BY BDC
DATE JULY 2020
REVISIONS
REFERENCE FILE 00base_*.dwg
DRAWING FILE 090201_xs_*.dwg

I:\Clients-Meno\A\A6300 Abbotsford City of\002 2020 W Hemlock Street Resurfacing\100 Cad\dwg\090201_xs_6300002.dwg 07/01/20 3:33:44 PM



CITY OF ABBOTSFORD
2020 W HEMLOCK STREET RESURFACING
CLARK COUNTY, WISCONSIN
CROSS SECTIONS

SHEET NO. 18 OF 25

Cedar corporation
engineers • architects • planners • environmental specialists
land surveyors • landscape architects • interior designers
www.cedarcorp.com
800-472-7372

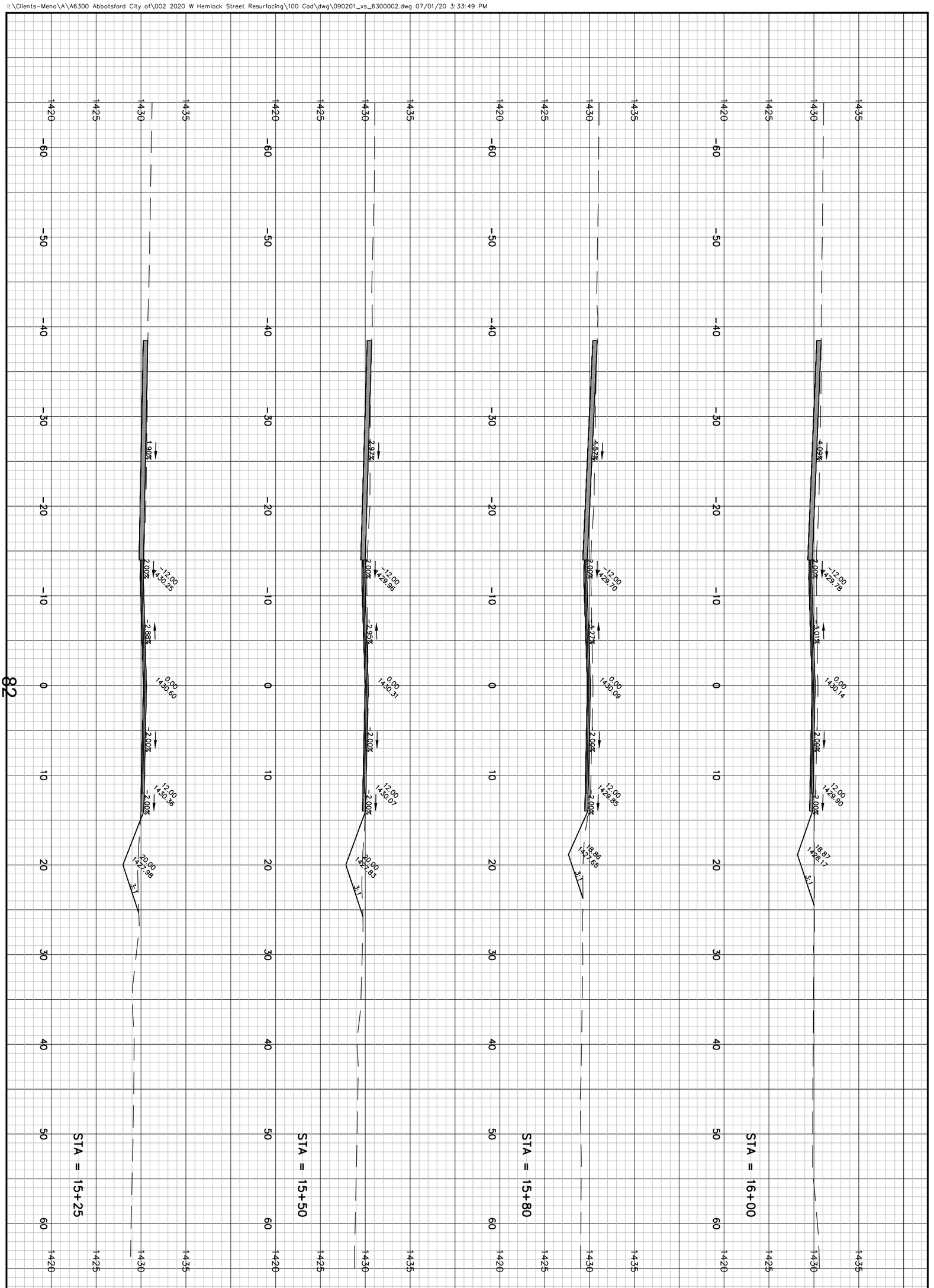
W61N497 Washington Ave.
Cedarburg, WI 53012
262-204-2360
FAX 262-375-2688

2820 Walton Commons W.
Suite 142
Madison, WI 53718
608-354-0037
FAX 608-249-5824

1695 Bellevue Street
Green Bay, WI 54311
920-491-9081
FAX 920-491-9020

604 Wilson Ave.
Menomonie, WI 54751
715-235-9081
FAX 715-235-2727

JOB NO. A6300-002
DRAWN BY KTH
CHECKED BY BDC
DATE JULY 2020
REVISIONS
REFERENCE FILE 00base_*.dwg
DRAWING FILE 090201_xs_*.dwg



CITY OF ABBOTSFORD
2020 W HEMLOCK STREET RESURFACING
CLARK COUNTY, WISCONSIN
CROSS SECTIONS

SHEET NO. 19 OF 25

www.cedarcorp.com
800-472-7372
Cedar corporation
engineers • architects • planners • environmental specialists
land surveyors • landscape architects • interior designers

W61N497 Washington Ave.
Cedarburg, WI 53012
262-204-2360
FAX 262-375-2688

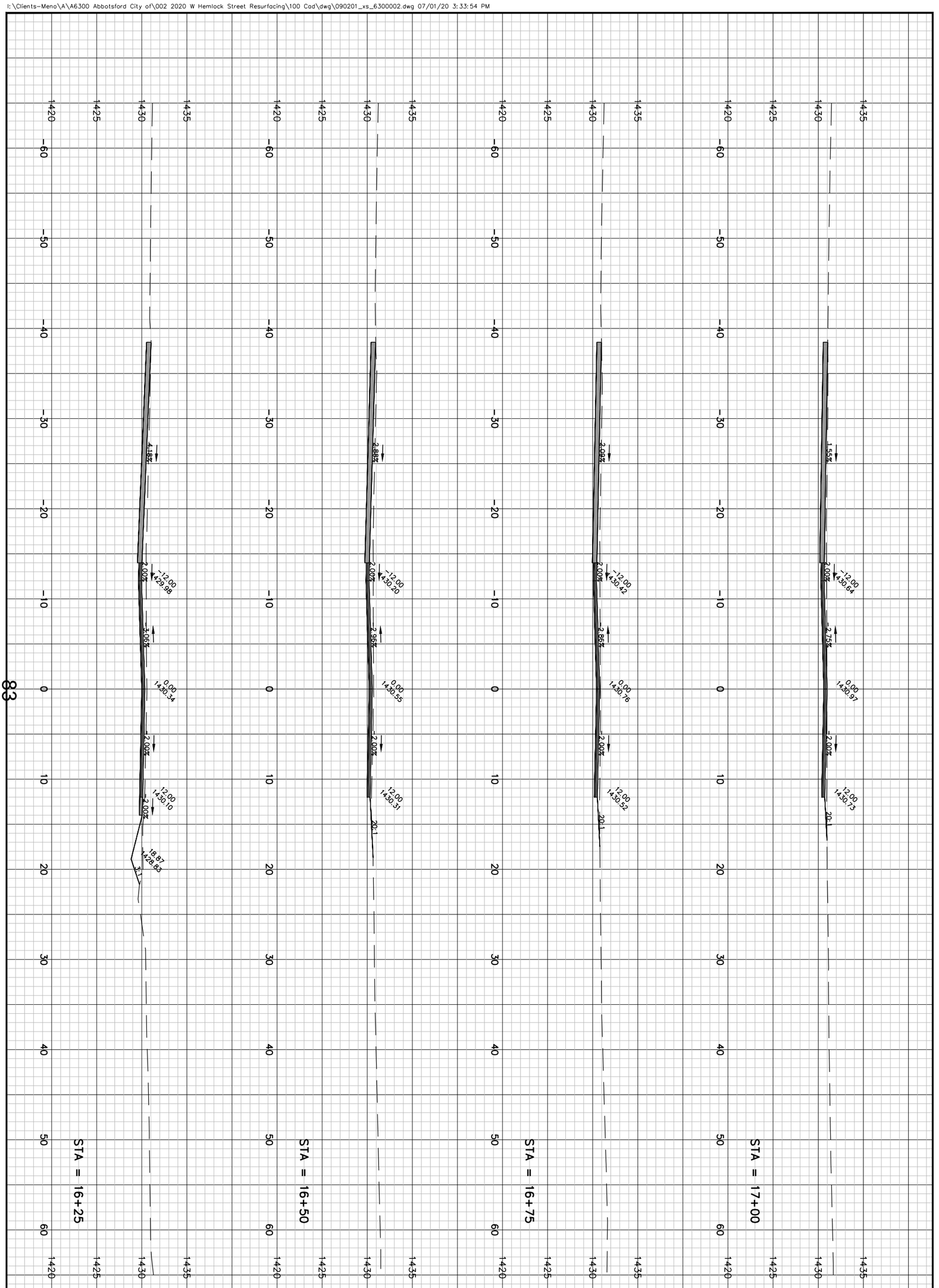
2820 Walton Commons W.
Suite 142
Madison, WI 53718
608-354-0037
FAX 608-249-5824

1695 Bellevue Street
Green Bay, WI 54311
920-491-9081
FAX 920-491-9020

604 Wilson Ave.
Menomonie, WI 54751
715-235-9081
FAX 715-235-2727

JOB NO. A6300-002
DRAWN BY KTH
CHECKED BY BDC
DATE JULY 2020
REVISIONS
REFERENCE FILE 00base_*.dwg
DRAWING FILE 090201_xs_*.dwg

I:\Clients-Meno\A\A6300 Abbotsford City of\002 2020 W Hemlock Street Resurfacing\100 Cad\dwg\090201_xs_6300002.dwg 07/01/20 3:33:54 PM



CITY OF ABBOTSFORD
2020 W HEMLOCK STREET RESURFACING
CLARK COUNTY, WISCONSIN
CROSS SECTIONS

SHEET NO. 20 OF 25

www.cedarcorp.com
800-472-7372

Cedar corporation
engineers • architects • planners • environmental specialists
land surveyors • landscape architects • interior designers

W61N497 Washington Ave.
Cedarburg, WI 53012
262-204-2360
FAX 262-375-2688

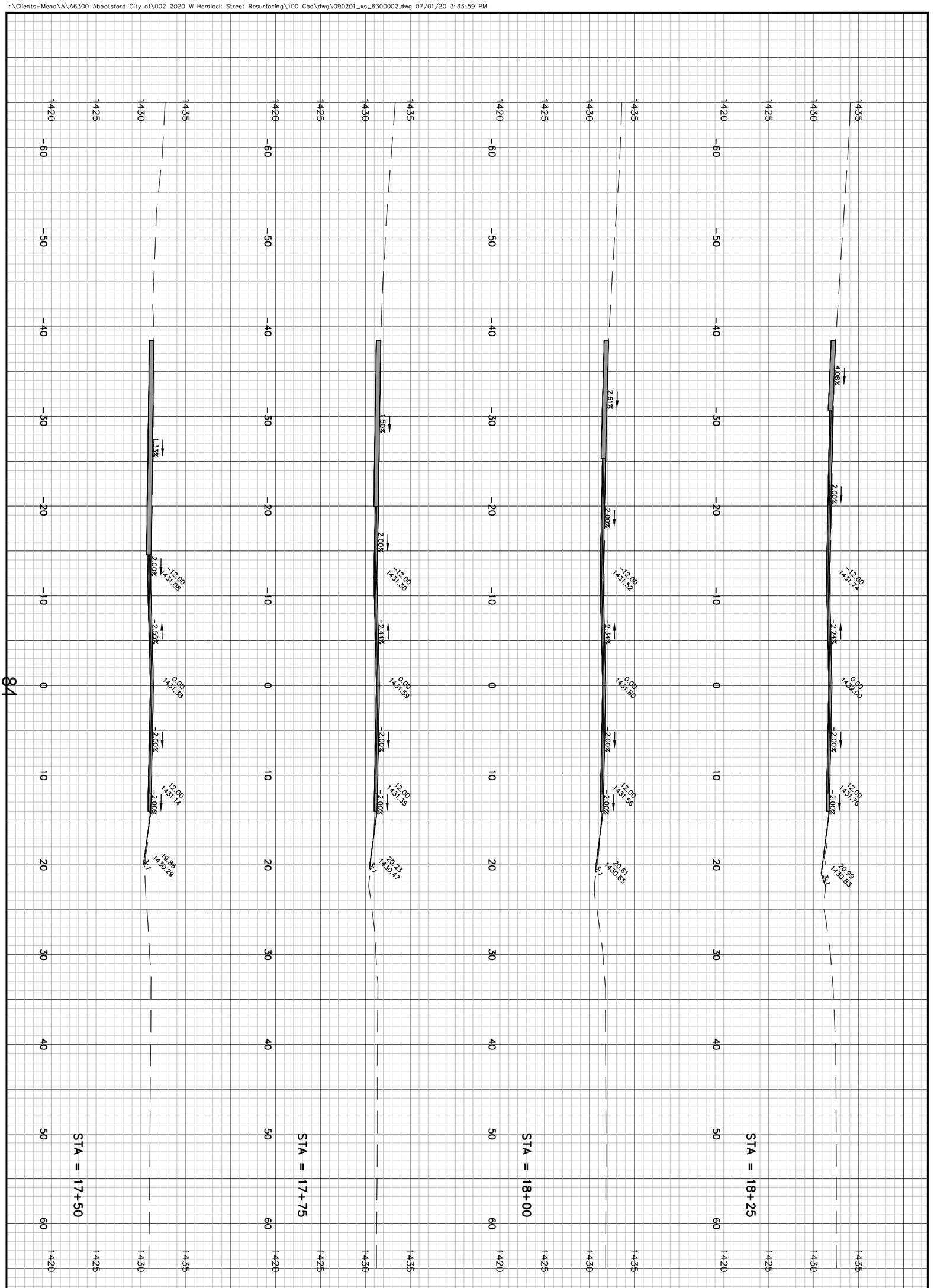
2820 Walton Commons W.
Suite 142
Madison, WI 53718
608-354-0037
FAX 608-249-5824

1695 Bellevue Street
Green Bay, WI 54311
920-491-9081
FAX 920-491-9020

604 Wilson Ave.
Menomonie, WI 54751
715-235-9081
FAX 715-235-2727

JOB NO. A6300-002
DRAWN BY KTH
CHECKED BY BDC
DATE JULY 2020
REVISIONS
REFERENCE FILE 00base_*.dwg
DRAWING FILE 090201_xs_*.dwg

I:\Clients-Meno\A\A6300 Abbotsford City of\002 2020 W Hemlock Street Resurfacing\100 Cad\dwg\090201_xs_6300002.dwg 07/01/20 3:33:59 PM



CITY OF ABBOTSFORD
2020 W HEMLOCK STREET RESURFACING
CLARK COUNTY, WISCONSIN
CROSS SECTIONS

SHEET NO. 21 OF 25

Cedar corporation
engineers • architects • planners • environmental specialists
land surveyors • landscape architects • interior designers
www.cedarcorp.com
800-472-7372

W61N497 Washington Ave.
Cedarburg, WI 53012
262-204-2360
FAX 262-375-2688

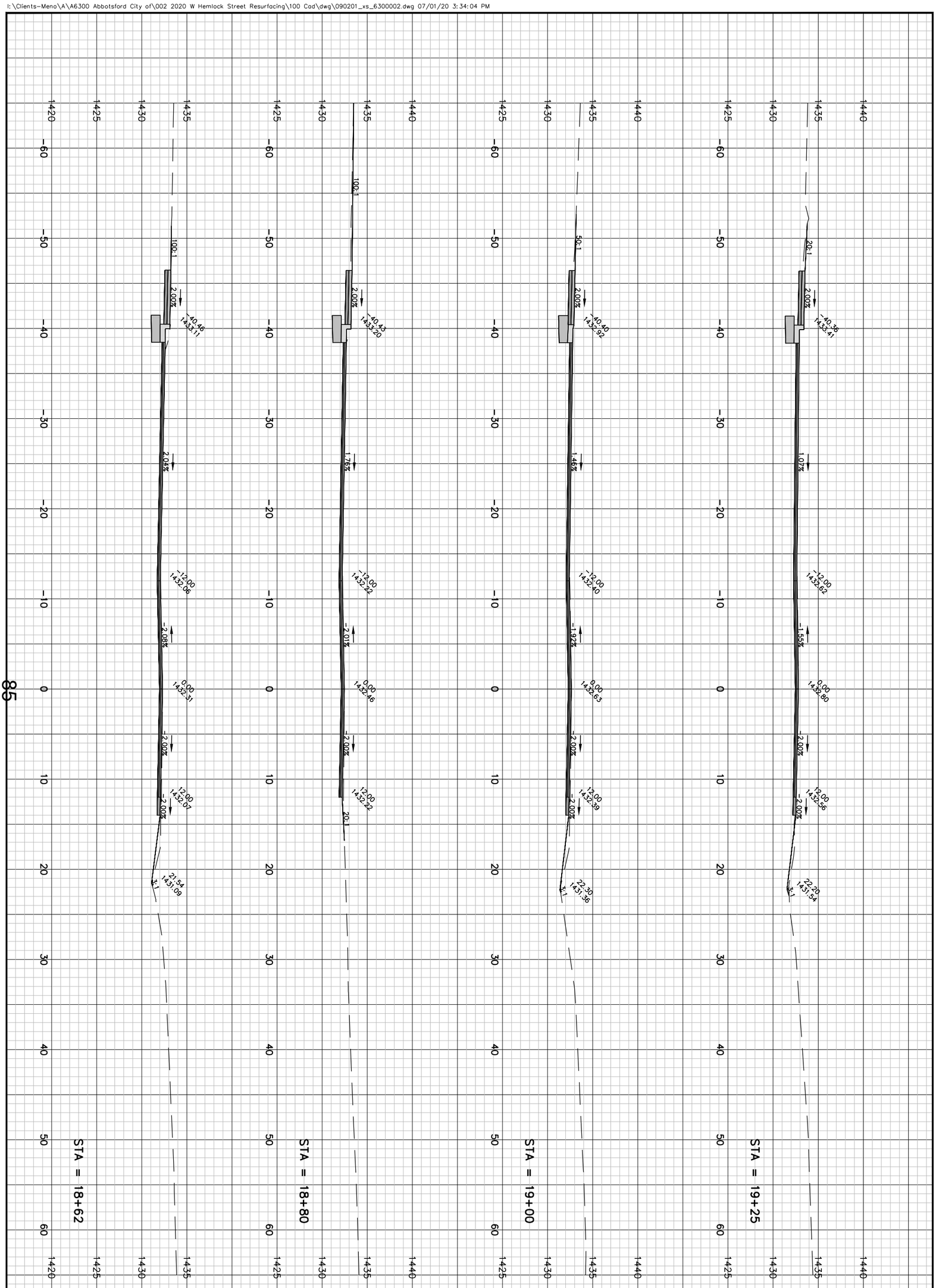
2820 Walton Commons W.
Suite 142
Madison, WI 53718
608-354-0037
FAX 608-249-5824

1695 Bellevue Street
Green Bay, WI 54311
920-491-9081
FAX 920-491-9020

604 Wilson Ave.
Menomonie, WI 54751
715-235-9081
FAX 715-235-2727

JOB NO. A6300-002
DRAWN BY KTH
CHECKED BY BDC
DATE JULY 2020
REVISIONS
REFERENCE FILE 00base_*.dwg
DRAWING FILE 090201_xs_*.dwg

I:\Clients-Meno\A\A6300 Abbotsford City of\002 2020 W Hemlock Street Resurfacing\100 Cad\dwg\090201_xs_6300002.dwg 07/01/20 3:34:04 PM



CITY OF ABBOTSFORD
2020 W HEMLOCK STREET RESURFACING
CLARK COUNTY, WISCONSIN
CROSS SECTIONS

SHEET NO. 22 OF 25

www.cedarcorp.com
800-472-7372

Cedar corporation
engineers • architects • planners • environmental specialists
land surveyors • landscape architects • interior designers

W61N497 Washington Ave.
Cedarburg, WI 53012
262-204-2360
FAX 262-375-2688

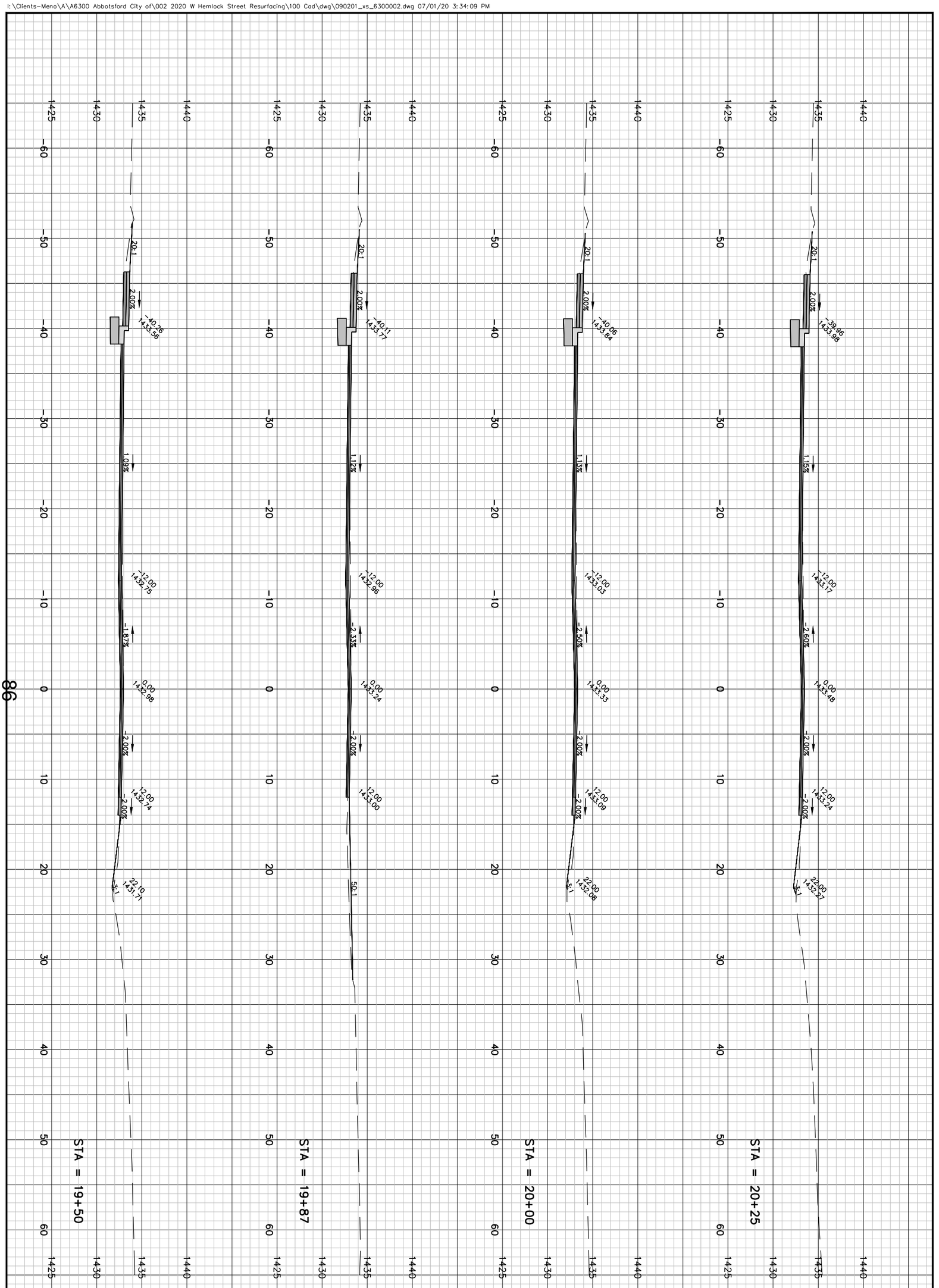
2820 Walton Commons W.
Suite 142
Madison, WI 53718
608-354-0037
FAX 608-249-5824

1695 Bellevue Street
Green Bay, WI 54311
920-491-9081
FAX 920-491-9020

604 Wilson Ave.
Menomonie, WI 54751
715-235-9081
FAX 715-235-2727

JOB NO. A6300-002
DRAWN BY KTH
CHECKED BY BDC
DATE JULY 2020
REVISIONS
REFERENCE FILE 00base_*.dwg
DRAWING FILE 090201_xs_*.dwg

I:\Clients-Meno\A\A6300 Abbotsford City of\002 2020 W Hemlock Street Resurfacing\100 Cad\dwg\090201_xs_6300002.dwg 07/01/20 3:34:09 PM



CITY OF ABBOTSFORD
2020 W HEMLOCK STREET RESURFACING
CLARK COUNTY, WISCONSIN
CROSS SECTIONS

SHEET NO. 23 OF 25

Cedar corporation
engineers • architects • planners • environmental specialists
land surveyors • landscape architects • interior designers

www.cedarcorp.com
800-472-7372

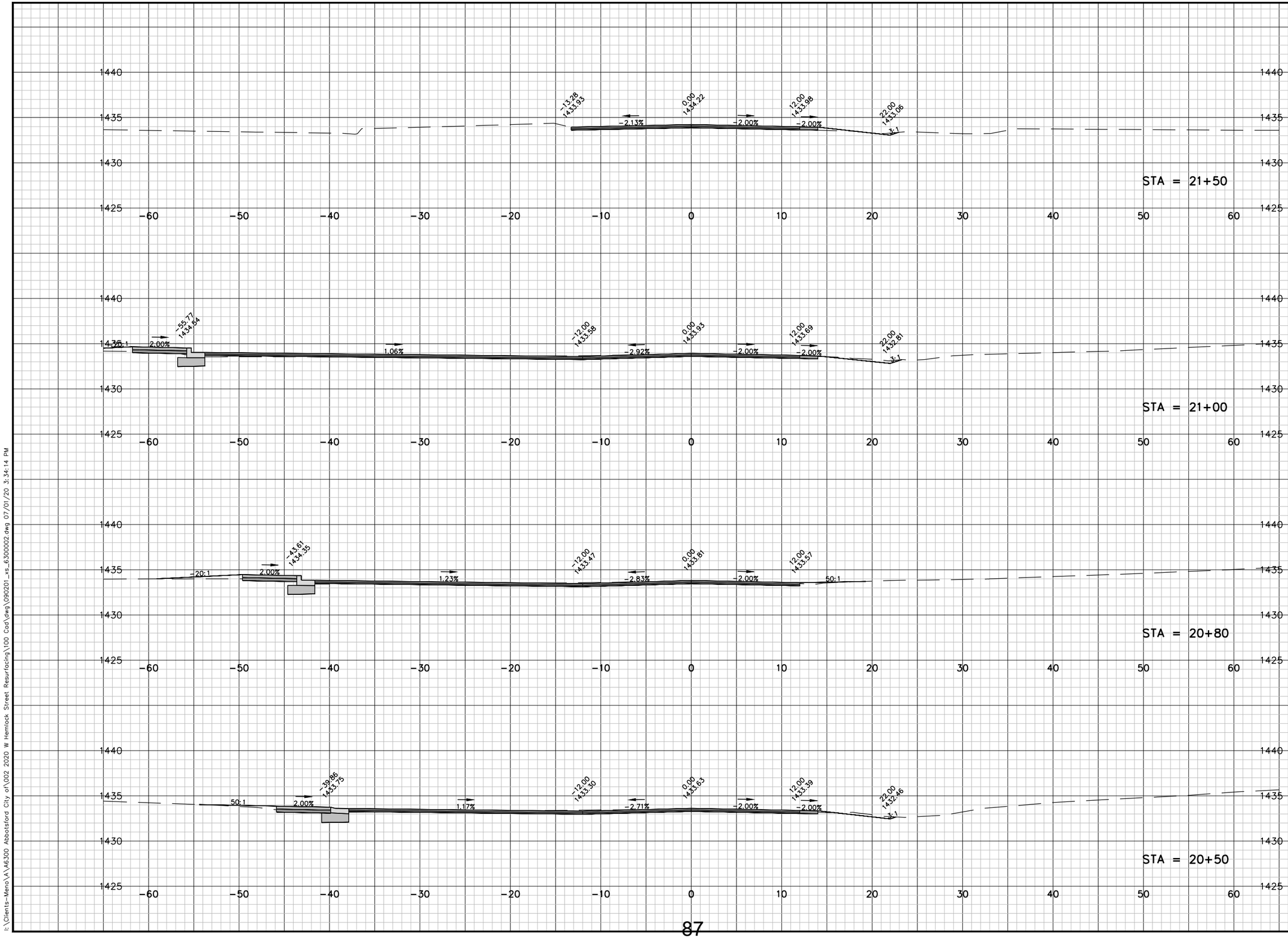
W61N497 Washington Ave.
Cedarburg, WI 53012
262-204-2360
FAX 262-375-2688

2820 Walton Commons W.
Suite 142
Madison, WI 53718
608-354-0037
FAX 608-249-5824

1695 Bellevue Street
Green Bay, WI 54311
920-491-9081
FAX 920-491-9020

604 Wilson Ave.
Menomonie, WI 54751
715-235-9081
FAX 715-235-2727

JOB NO. A6300-002
DRAWN BY KTH
CHECKED BY BDC
DATE JULY 2020
REVISIONS
REFERENCE FILE 00base_*.dwg
DRAWING FILE 090201_xs_*.dwg



I:\Clients-Mena\A\A6300 Abbotsford City of\002 2020 W Hemlock Street Resurfacing\100 Cad\dwg\090201_xs_6300002.dwg 07/01/20 3:34:14 PM

JOB NO. A6300-002
DRAWN BY KTH
CHECKED BY BDC
DATE JULY 2020
REVISIONS
REFERENCE FILE 00base_*.dwg
DRAWING FILE 090201_xs_*.dwg

Cedar corporation
engineers • architects • planners • environmental specialists
land surveyors • landscape architects • interior designers
www.cedarcorp.com
800-472-7372

W61N497 Washington Ave. Suite 200 Cedarburg, WI 53012 262-204-2360 FAX 262-375-2688

2820 Walton Commons W. Suite 142 Madison, WI 53718 608-354-0037 FAX 608-249-5824

1695 Bellevue Street Suite 202 Green Bay, WI 54311 920-491-9081 FAX 920-491-9020

604 Wilson Ave. Menomonie, WI 54751 715-235-9081 FAX 715-235-2727

CITY OF ABBOTSFORD

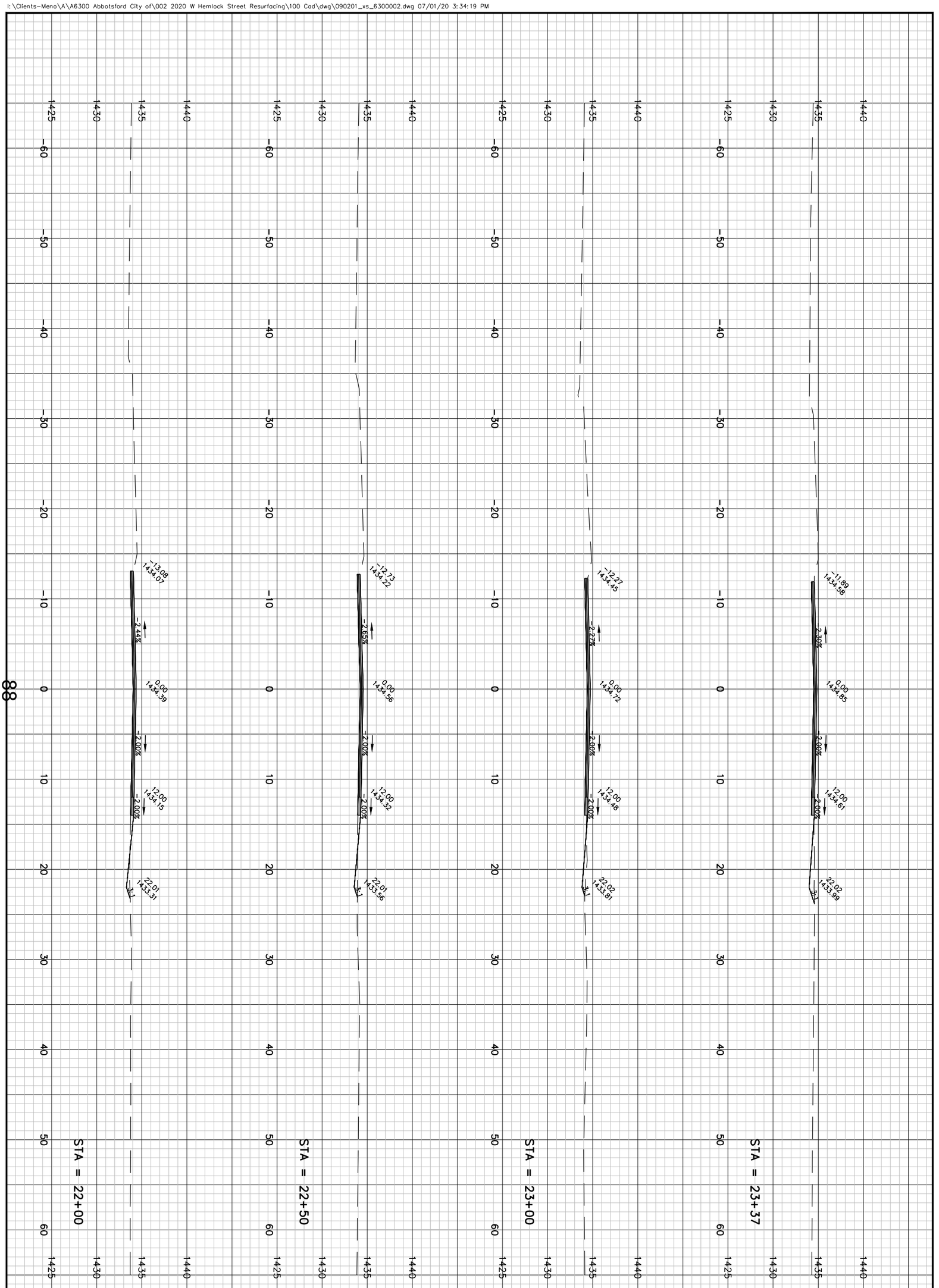
2020 W HEMLOCK STREET RESURFACING

CLARK COUNTY, WISCONSIN

CROSS SECTIONS

SHEET NO.
24 OF 25

I:\Clients-Meno\A\A6300 Abbotsford City of\002 2020 W Hemlock Street Resurfacing\100 Cad\dwg\090201_xs_6300002.dwg 07/01/20 3:34:19 PM



88

CITY OF ABBOTSFORD
2020 W HEMLOCK STREET RESURFACING
CLARK COUNTY, WISCONSIN
CROSS SECTIONS

SHEET NO. 25 OF 25

www.cedarcorp.com
800-472-7372

Cedar corporation
engineers • architects • planners • environmental specialists
land surveyors • landscape architects • interior designers

W61N497 Washington Ave.
Cedarburg, WI 53012
262-204-2360
FAX 262-375-2688

2820 Walton Commons W.
Suite 142
Madison, WI 53718
608-354-0037
FAX 608-249-5824

1695 Bellevue Street
Green Bay, WI 54311
920-491-9081
FAX 920-491-9020

604 Wilson Ave.
Menomonie, WI 54751
715-235-9081
FAX 715-235-2727

JOB NO. A6300-002
DRAWN BY KTH
CHECKED BY BDC
DATE JULY 2020
REVISIONS
REFERENCE FILE 00base_*.dwg
DRAWING FILE 090201_xs_*.dwg

PRELIMINARY OPINION OF PROBABLE COST
W Hemlock Street
CITY OF ABBOTSFORD

CEDAR CORPORATION
JOB #:
DATE: 5/29/2020
ESTIMATE PREPARED BY: BDC

STORM SEWER CONSTRUCTION

ASSUMPTIONS:
- REPLACE ALL CULVERTS

ITEM	UNIT	QUANTITY	UNIT PRICE	COST
12" STORM SEWER HDPE	L.F.	180	$35.00	$6,300.00
SUBTOTAL				$6,300.00
CONTINGENCY (10%)				$630.00
ESTIMATED STORMSEWER COST				$6,930.00

STREET CONSTRUCTION

ASSUMPTIONS:
- *PULVERVIZING BY CITY*
- *ADD 6" CABC*
- *REDITCH*
- *24' HMA, 1' GRAVEL SHOULDER*

(SEE SKETCH)
PROJECT LENGTH 1375 **FT. LONG (TOTAL)**
PAVEMENT WIDTH 24 **FT. WIDE (AVERAGE)**

ITEM	UNIT	QUANTITY	UNIT PRICE	COST
EXCAVATION, DITCHING	C.Y.	390	$5.00	$1,950.00
CRUSHED AGGREGATE BASE, 6"	C.Y.	670	$29.00	$19,430.00
INLET PROTECTION	EA.	1	$100.00	$100.00
HMA, BINDER, 2.0"	S.Y.	3670	$7.00	$25,690.00
HMA, SURFACE, 2.0"	S.Y.	3670	$7.00	$25,690.00
ADJUST EXISTING CASTING	EA.	1	$100.00	$100.00
TRAFFIC CONTROL	L.S.	1	$1,000.00	$1,000.00
RESTORATION, SEED	S.Y.	2300	$4.00	$9,200.00
SUBTOTAL				$83,160.00
CONTINGENCY (10%)				$8,320.00
ESTIMATED STREET COST				$91,480.00

TOTAL ESTIMATED PROJECT COST	**$98,410.00**
COST PER FOOT	$71.57

JAKEL PLUMBING, HTG,
& ELEC., INC.
800 W. BUSINESS HIGHWAY 29
P.O. BOX 566
ABBOTSFORD, WI 54405
(715) 223-6563

Proposal

Date	#
6/1/2020	230

CITY OF ABBOTSFORD
P. O. BOX 589
ABBOTSFORD, WI 54405

PROJECT= REPLACEMENT OF CONDUIT FROM WELL #8 TO WELL LOCATED BY ABBOTSFORD ELEMENTARY ENTRANCE CANOPY APPROXIMATELY 750 FEET

1- DIRECTIONAL BORING
1- 1-1/4 HDPE CONDUIT
$9760.00

ADDITIONAL ADD ON OPTIONS
A = HIGH TENSILE TRACER WIRE
$800.00

B = ADD ADDITIONAL 1-1/4 HDPE CONDUIT
$1600.00

C = UPSIZE TO 1-1/2 CONDUIT
$900.00

D = ADD ADDITIONAL 1-1/2 HDPE CONDUIT
$2000.00

Signature/Date_____

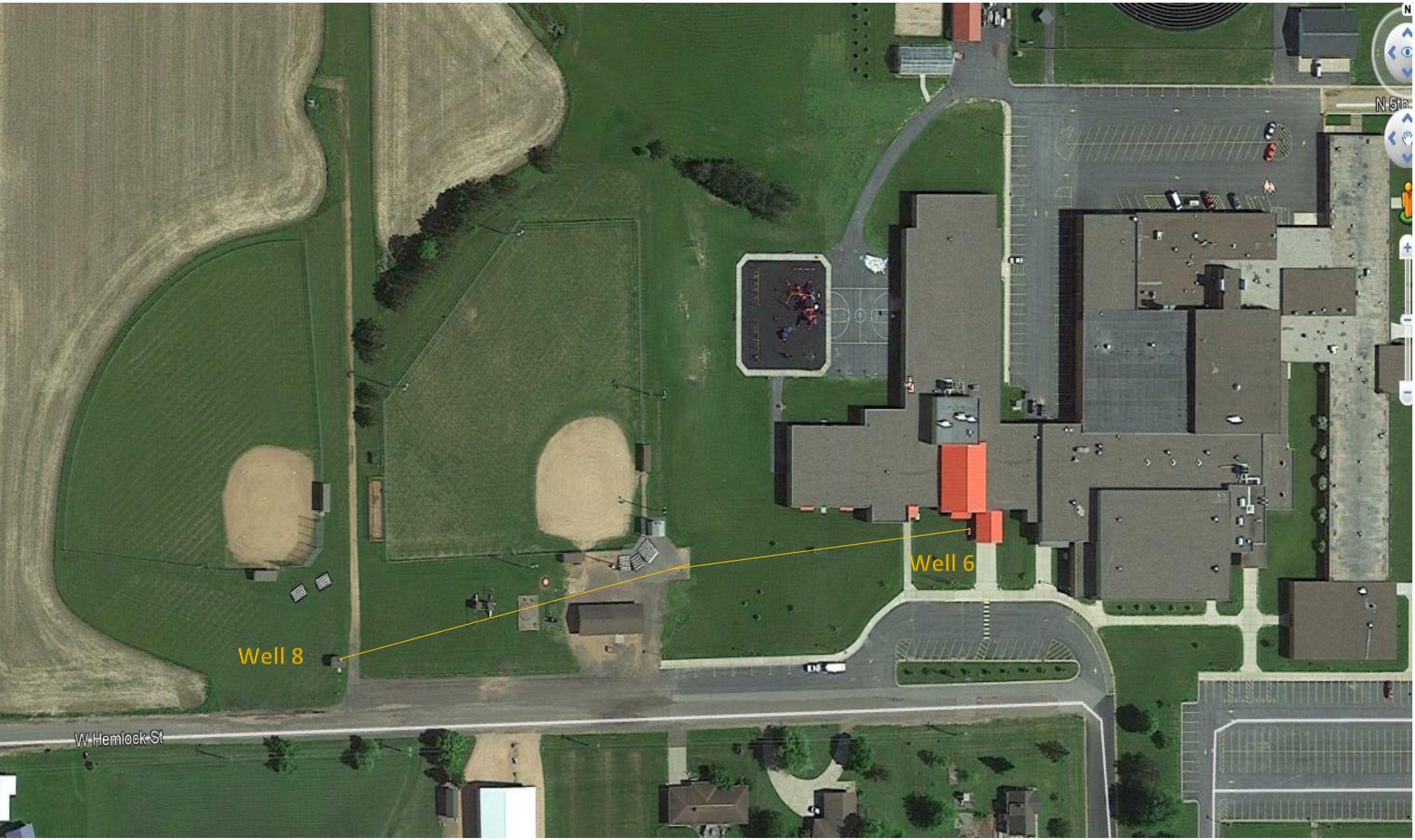
PRICING GOOD FOR 30 DAYS / PRICING SUBJECT TO CHANGE AFTER 30 DAYS

APPLICABLE TAXES MAY APPLY

CREDIT / DEBIT CARD PAYMENTS ARE SUBJECT TO A 3% CONVENIENCE FEE

FINANCE CHARGE ASSESSED 30 DAYS FROM INVOICE DATE: 1 1/2% PER MONTH - 18% ANNUALLY

SUBJECT TO A $50.00 LATE FEE IF PAYMENT IS NOT RECEIVED 30 DAYS FROM INVOICE DATE


Well 6
Well 8
W Hemlock St
N 5th

ZimTech Directional Boring

City of Abbotsford
203 N. 1st St.
Abbotsford, WI 54405

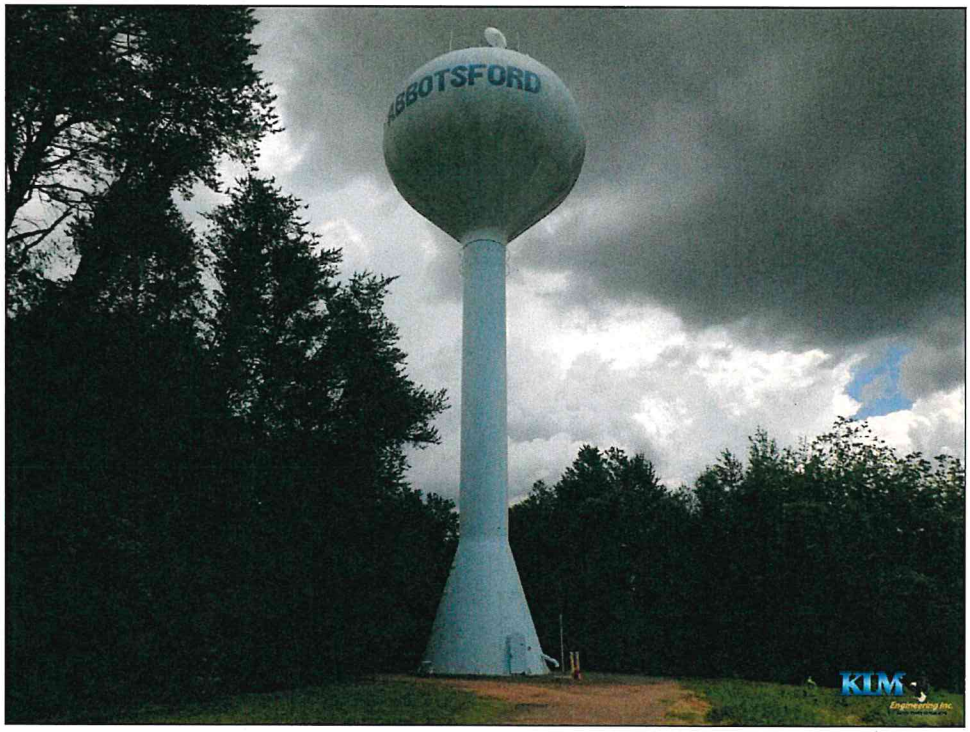
Directional Boring From Well 8 to Well 6 by the school

$100 mobilization fee

$7/ft for boring-Approx. 750 ft=$5250

Total-$5350

CITY OF ABBOTSFORD, WISCONSIN



June 2020

400,000 Gallon Capacity Treated Tower

KLM Engineering Inc.
WATER TOWER SPECIALISTS

Elevated Water Tank Inspection Report

KLM Project
MN4124

1976 Wooddale Drive, Suite 4 | Woodbury, MN 55125
(651) 773-5111 | Fax (651) 773-5222

Table of Contents

1.0|PROJECT INFORMATION **2**

2.0|EXECUTIVE SUMMARY **3**
2.1|Structural Examination Summary 3
2.2|Coating Evaluation Summary 3
2.3|Repair and Reconditioning Cost Estimate 4
2.4|Remaining Tank Life 4

3.0|RECOMMENDATIONS **4**
3.1|Interior Wet Structural 4
3.2|Interior Wet Coating 4
3.3|Cathodic Protection System (C.P.) 5
3.4|Interior Dry Structural 5
3.5|Interior Dry Coating 5
3.6|Exterior Structural 6
3.7|Exterior Coating 6
3.8|Site and Environmental Considerations 6
3.9|Telecommunications Considerations 7

4.0|REPAIR AND RECONDITIONING OVERVIEW **7**

APPENDIX A: Photographs

APPENDIX B: Drawings

APPENDIX C: Surface Preparation Requirement

APPENDIX D: Inspection and Evaluation Methods

1.0|PROJECT INFORMATION

KLM Project No.: MN4124 **Customer P. O. Number:** NA

Tank Owner: City of Abbotsford, Wisconsin **Phone:** 715-613-2973 (cell)

Street/City/State/Zip: PO Box 58, 203 North First Street, Abbotsford, WI 54405

Tank Owner Contact: Josh Soyk, Water and Wastewater Supervisor

Owner's Tank Designation: Treated Tower

Tank Description: Single Pedestal

Tank Street Location: North 2nd Avenue and North 1st Avenue (near a church) Abbotsford, WI 54405

Purpose of Inspection: Condition Assessment

Date of Inspection: June 11, 2020

Inspected By: Devin Severson, NACE #78234 and Cory Anderson, NACE #78280

Type of Inspection: KLM Standard ROV Evaluation

Manufacturer: Maguire Iron **Construction Date:** 1997

Serial No.: N/A **Design Code:** AWWA D100-96

Capacity: 400,00 Gallons

Type of Construction: Welded

Tank Diameter: 51'-6"

Height to: Overall 146 Feet

Height to: HWL 137'-0" LWL 102'-0"

Type of Access to Tank Interior: Interior ladder to roof manway

Tank Construction Drawings: On file at KLM

Previous Inspection Records: None available to KLM

EXISTING COATING INFORMATION

	Interior Wet	Interior Dry	Exterior
Date Last Coated	1997	1997	1997
Full or Spot Repair	Full original	Full original	Full original
Coating Contractor	Maguire Iron	Maguire Iron	Maguire Iron
Surface Preparation	Blast	Blast	Blast
Paint System	Epoxy	Epoxy	Epoxy/urethane
Paint Manufacturer	Unknown	Unknown	Unknown
Lab Lead Test Paint Chips	None taken	None taken	None taken

City of Abbotsford, Wisconsin

400,000 GALLON CAPACITY
TREATED TOWER

2.0|EXECUTIVE SUMMARY

The tank was evaluated on the interior and exterior in conformance with the following:

a. KLM Engineering, Inc. Proposal.

b. General guidelines of AWWA Manual M42 Appendix C "Inspecting and Repairing Steel Water Tanks, and Elevated Tanks for Water Storage."

c. KLM "Procedures and Guidelines for Inspecting Existing Steel and Concrete Water Storage Tanks."

d. Appendix D Inspection and Evaluation Methods.

2.1|Structural Examination Summary

Based on the inspection data, it appears that some miscellaneous structural modifications and repairs are required. These modifications and repairs serve to bring the tank into compliance with OSHA regulations, AWWA standards, as well as allow for better coating bonding, allow for safer access in and on the tank and, in some cases, removing unnecessary items.

2.2|Coating Evaluation Summary

2.2.1|Lead and Chromium Content Analysis

Due to the coatings application date of 1997 and regulations in effect at that time limiting the use of lead or chromium based coatings, samples were not taken of the various types of coatings present on the interior and exterior surfaces for lead or chromium testing.

2.2.2|Interior Wet Coating

The tower was constructed, and the interior wet area was originally coated by Maguire Iron in 1997. The interior wet coating is in fair condition above the High-Water Line (HWL) with approximately 10 percent visible coating failures. Failures consist of corrosion on seams, corrosion on roof plates at random locations and coating damage (burn marks) apparently from antenna installations on the roof. The coating below the HWL is in fair to poor condition with approximately 15 percent visible coating failures ranging from random corrosion on welds and plates. Due to age and condition, the coating is not a candidate for repairs and should be replaced in its entirety within one (1) to two (2) years to maximize the life expectancy of the structure. See photos in Appendix A.

2.2.3|Interior Dry Coating

The interior dry area was originally coated by in 1997. Overall, the coating in the interior dry area is in good condition with coating failures limited to areas susceptible to condensation, the drywell tube, bowl and landings (sweating areas). The sweating areas have approximately 50 percent visible failures. Those failures have been termed micro-cracking and have been seen on other towers of similar age and epoxy coating. The coating in the remainder of the dry area is in good condition. No repairs are recommended for the interior dry

coating at this time. The coating in the sweating areas is not repairable and should be replaced in its entirety at the same time as the interior wet coating within one (1) to two (2) years. See photos in Appendix A.

2.2.4|Exterior Coating

The exterior area was originally coated by in 1997. The coating is in poor condition, with over 20 percent coating failures. The coating failures consist mainly of topcoat delamination with corrosion randomly located throughout the tower and random corrosion nodules. Failures of this type will continue to occur due to age and normal deterioration exposing the underlying coatings to UV deterioration. The condition and age of the coating makes the coating not repairable. The coating should be replaced in its entirety at the same time as the interior coatings within one (1) to two (2) years. See photos in Appendix A.

It is more cost effective to remove the exterior and the interior coating at the same time.

2.3|Repair and Reconditioning Cost Estimate

The cost for structural repairs, replacing the interior and exterior coatings, is estimated between $425,000 and $450,000. This estimate is based on current pricing and does not include costs for engineering and/or inspection services. For up-to-date competitive bids, the project should be bid 9 to 12 months before the scheduled starting date.

An experienced tank-coating contractor with the proper crew and equipment should be able to complete the project in eleven (11) weeks. At the time of reconditioning, the tower will need to be drained and remain off-line during interior structural modifications, abrasive blasting, and painting. However, most of the exterior structural modifications can be performed prior to draining, with the tank in-service.

2.4|Remaining Tank Life

Based on the inspection data, if the recommended structural repairs and coating replacement are completed within the next one (1) to two (2) years, the tank will be satisfactory for continued service provided that it is inspected and maintained regularly.

The tank and coating should first be inspected within the warranty period and every three (3) to five (5) years thereafter. New interior and exterior coatings, if applied and maintained properly, should last at least 20 years.

3.0|RECOMMENDATIONS

The photographs referred to in this section are in Appendix A. All drawings are found in Appendix B. The surface preparation requirements for all repairs as well as the requirements for welding are described in Appendix C.

Based on an evaluation of the inspection data, the recommendations are:

3.1|Interior Wet Structural

3.1.1 Remove the two (2) rigging pads near the top of the drywell tube and the two (2) on the bowl and grind smooth. They are corroded, no longer used and difficult to paint. See photos 6 and 18.

3.1.2 Replace the gasket on the 24-inch diameter round bowl manway. See photos 19 and 24.

3.2|Interior Wet Coating

3.2.1 The interior wet coating is in fair condition above the High-Water Line (HWL) with approximately 10 percent visible coating failures. Failures consist of corrosion on seams, corrosion on roof plates at random locations and coating damage (burn marks) apparently from antenna installations on the roof. The coating below the HWL is in fair to poor condition with approximately 15 percent visible coating failures ranging from

random corrosion on welds and plates. Due to age and condition the coating is not a candidate for repairs and should be replaced in its entirety within one (1) to two (2) years to maximize the life expectancy of the structure. See photos 2 through 20.

3.2.2 After structural repairs are completed, all the reservoir surfaces should be abrasive blasted to an SSPC-SP-10 Near White Metal Blast and coated with a zinc/epoxy system (similar to the Tnemec Series 91-H20 Hydro-Zinc/Series N140 Pota-Pox Plus Epoxy or equivalent Sherwin Williams coatings).

3.3|Cathodic Protection System (C.P.)

3.3.1 The reservoir does not have a Cathodic Protection system, and one is not required if the coating is applied and maintained properly.

3.4|Interior Dry Structural

3.4.1 Convert the top landing of the riser into a condensate ceiling by plugging the five (5) weep holes. Install a drain in the low point of the landing with a connecting line to the overflow pipe. This will prevent condensation from running down the pedestal, exacerbating defects in the coating, and leading to corrosion and additional painting and maintenance costs. See photo 26 and KLM drawing No. 44a.

3.4.2 Install ports in the center of each of the three (3) platform floors, including the new condensate ceiling, to facilitate containment during the next reconditioning. See photos 26, 27, and 29 and KLM Drawing No. 45.

3.4.3 Remove the drain and line from the bottom condensate platform and install a plug in the overflow pipe. The drain is no longer required, and the containment port will require that location. See photo 30.

3.4.4 Install a new 24-inch diameter, pressure style manway in the tower bowl. This will improve the ventilation during reconditioning and bring the tank into compliance with OSHA Confined Space Entry requirements. This manway should be located 180 degrees from the existing bowl manway and include a ladder from the top platform to the bowl for safe access. Refer to KLM Drawing No. 37a and photo 24.

3.4.5 Replace the existing bowl drain valve with a stainless steel valve like those designed by Babco Co. Include a clear, rigid, high pressure hose connected to the overflow pipe. Include the replacement of the coupling in the bowl with a ½ coupling. This facilitates cleaning and draining the bowl below the inlet pipe level. See KLM Drawing No. 33 and photos 24 and 25.

3.4.6 Install approximately six (6) additional half-moon cable brackets inside the drywell tube, equally spaced, for the attachment of electrical and coaxial cables. Move cables from the overflow pipe to the new brackets. See KLM Drawing No. 4a and photos 21 through 23.

3.4.7 Install approximately ten (10) pedestal stand-off brackets in the pedestal at 8-foot maximum spacing for the mounting of the electrical and coaxial cables. Move the electrical conduits along the ladders to the stand-off bracket to bring the ladders into OSHA compliance. See KLM Drawing No. 4b and photos 26 through 31.

3.5|Interior Dry Coating

3.5.1 Overall, the coating in the interior dry area is in good condition with coating failures limited to areas susceptible to condensation, the drywell tube, bowl and landings (sweating areas). The sweating areas have approximately 50 percent visible failures. Those failures have been termed micro-cracking and have been seen on other towers of similar age and epoxy coating. The coating in the remainder of the dry area is in good condition. No repairs are recommended for the interior dry coating at this time. The coating in the sweating

areas is not repairable and should be replaced in its entirety at the same time as the interior wet coating within one (1) to two (2) years. See photos 21 through 34.

3.5.2 After structural repairs are completed, all the reservoir surfaces should be abrasive blasted to an SSPC-SP-10 Near White Metal Blast and coated with a zinc/epoxy system (similar to the Tnemec Series 91-H20 Hydro-Zinc/Series N140 Pota-Pox Plus Epoxy or equivalent Sherwin Williams coatings).

3.6|Exterior Structural

3.6.1 Replace the tank finial vent with a 24-inch diameter aluminum pressure pallet style vent, similar to the one shown on KLM Drawing No. 8a. See photos 35 and 38. The new vent and vent screen design should meet AWWA D100-11 and local Health Department Regulations. The removable top will improve ventilation, provide access to the tank interior during reconditioning, and aid in compliance with OSHA Confined Space Entry Requirements.

3.6.2 Remove the top +/- 6-inches of the drywell tube manway curb. Replace the manway lid with an aluminum style lid. The existing lid is oversized and can be a hindrance to open. The new lid should include a locking hasp and stop chain. See photos 35, 37 and 39.

3.6.3 Install two (2), 24-inch diameter, hinge covered, roof ventilation manways, approximately 120 degrees from the existing roof manway and outside of the handrail. See photos 35 and 39. This will provide additional ventilation during the interior surface preparation and coating and aid in compliance with OSHA Confined Space Entry requirements. See KLM Drawing No. 10a.

3.6.4 Remove the unused antenna brackets from the handrail and the unused light and conduit from the anchor point frame near the drywell tube. See photos 37 and 38.

3.6.5 Install three (3) additional roof cable penetrations in the top of the drywell tube top plate on the opposite side of the access ladder for future coaxial cables. See photos 37 and 38 and KLM Drawing No. 5a.

3.6.6 Remove the debris from the inside of the overflow pipe screen partially blocking discharge. See photo 46.

3.7|Exterior Coating

3.7.1 The coating is in poor condition, with over 20 percent coating failures. The coating failures consist mainly of topcoat delamination with corrosion randomly located throughout the tower and random corrosion nodules. Failures of this type will continue to occur due to age and normal deterioration exposing the underlying coatings to UV deterioration. The condition and age of the coating makes the coating not repairable. The coating should be replaced in its entirety at the same time as the interior coatings within one (1) to two (2) years. See photos 35 through 46.

3.7.2 After structural repairs are completed, all the reservoir surfaces should be abrasive blasted to an SSPC-SP-6 Commercial Blast Clean and coated with a zinc/epoxy/urethane/fluoropolymer system (similar to the Tnemec Series 91-H20 Hydro-Zinc/Series N140 Pota-Pox Plus Epoxy/Series 73 Endurashield/Series 701 Hydroflon or equivalent Sherwin Williams coatings).

3.8|Site and Environmental Considerations

3.8.1 The site includes the tank in an unfenced area surrounded by trees. The 188,000 gallon standpipe is nearby. The site is near St. Bernard Church and the surrounding area is private residences. There is a fire hydrant on the site.

3.8.2 In conformance with Wisconsin state rules, an analysis has been performed to determine the methods of pollution control required for this storage structure during reconditioning. To maintain air quality and to prevent the drift of dust and fugitive emissions, full containment will be required, including impervious ground cover, a top cover or bonnet and negative air dust collection.

3.9|Telecommunications Considerations

3.9.1 The tower has some telecommunications equipment, including antennas, coaxial cables, support brackets and other miscellaneous equipment. The Owner is advised to maintain accurate records of each of the antenna sites on the tower, including As-Built Drawings, site manager and owner contact information, upgrades performed, and future plans for antenna installations or upgrades. These records will help facilitate the future reconditioning with a minimal amount of effort on the Owner's part.

3.9.2 Working around and protecting the telecommunications equipment, including antennas, coaxial cables, support brackets, and other miscellaneous equipment during future reconditioning will incur additional costs. The antenna owner(s) should be responsible for these expenses under clause(s) in the antenna lease agreements. These costs are not included in the Engineer's Cost Estimate, as they vary considerably from tower to tower.

3.9.3 Prior to reconditioning, in accordance with the lease requirements of each antenna owner, the City of Abbotsford should notify the telecommunications owners or manager of the work to be performed. The City should also determine whether: a) the antenna owners will pay the additional costs to work around and protect the antennas; b) the antenna owners will temporarily remove their antennas and associated equipment to facilitate reconditioning; or c) the City of Abbotsford will have to pay for these costs themselves.

4.0|REPAIR AND RECONDITIONING OVERVIEW

KLM recommends repairs be completed within one (1) to two (2) years. An experienced tank-coating contractor with the proper crew and equipment should be able to complete the project in eleven (11) weeks.

KLM ENGINEERING, INC.

Report prepared by:

Jerry J. Tell, P.E.
Manager of Engineering
WI License No. 25409-6

Report reviewed and certified by:

Rodney Ellis
Vice President/COO
NACE Certified Coatings Inspector No. 1686
AWS/CWI 04040311

June 15, 2020

P:\2020\2020 Evaluations And Photos\Abbotsford, WI MN4124 0.4MG Single Pedestal\Abbotsford, WI MN 4124 Treated Tower Full Report FINAL.Docx

APPENDIX A

PHOTOGRAPHS

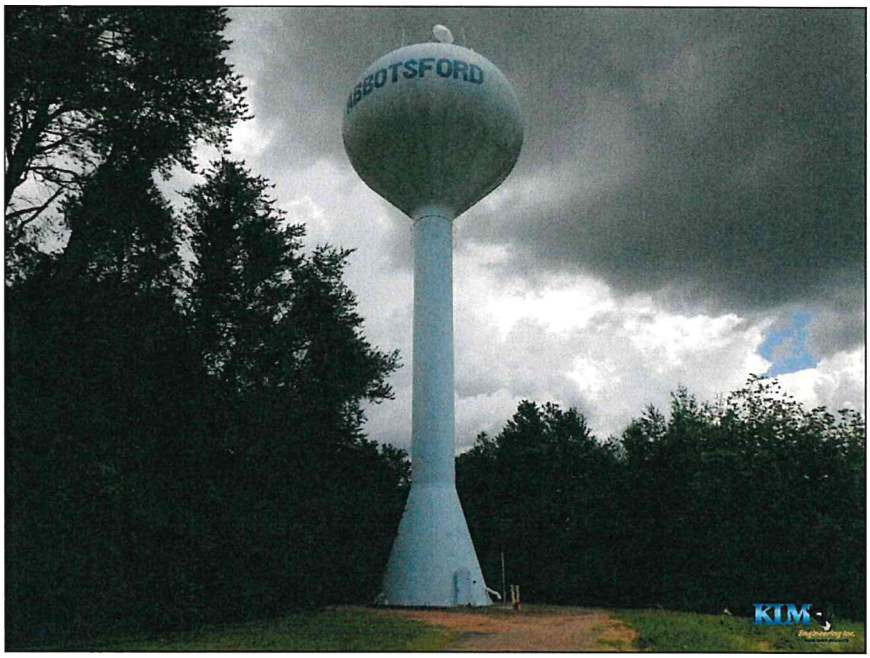


Photo No. 1
Overall view of the tower

Photo No. 2
Overall condition of the roof with corrosion on plates and weld seams plus antenna installation burn marks

Photo No. 3
Condition of the roof plates

Photo No. 4
Condition of the roof

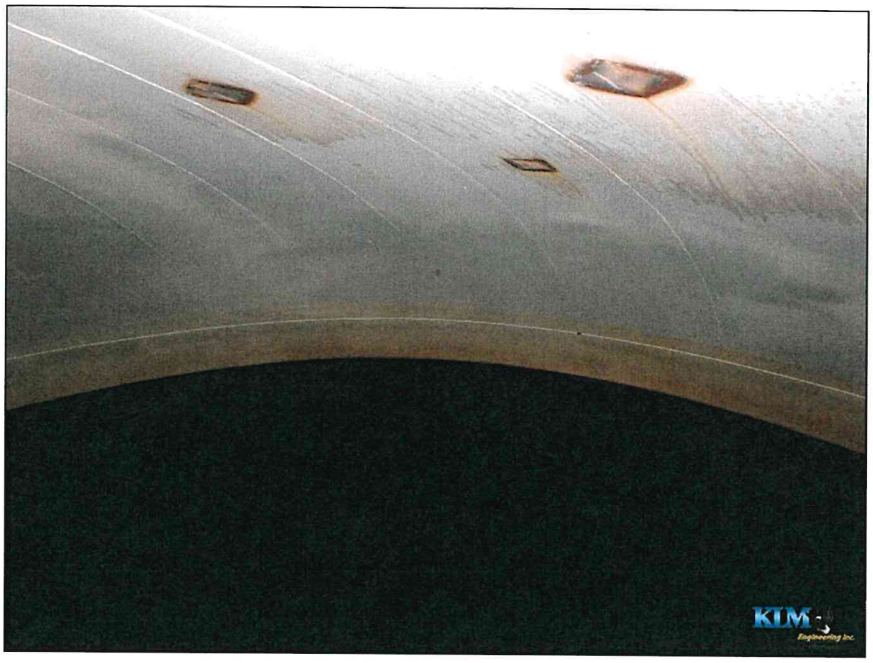


Photo No. 5
Condition of the roof with antenna bracket burn marks

Photo No. 6
Top of the drywell tube

Photo No. 7
Condition of an access opening curb

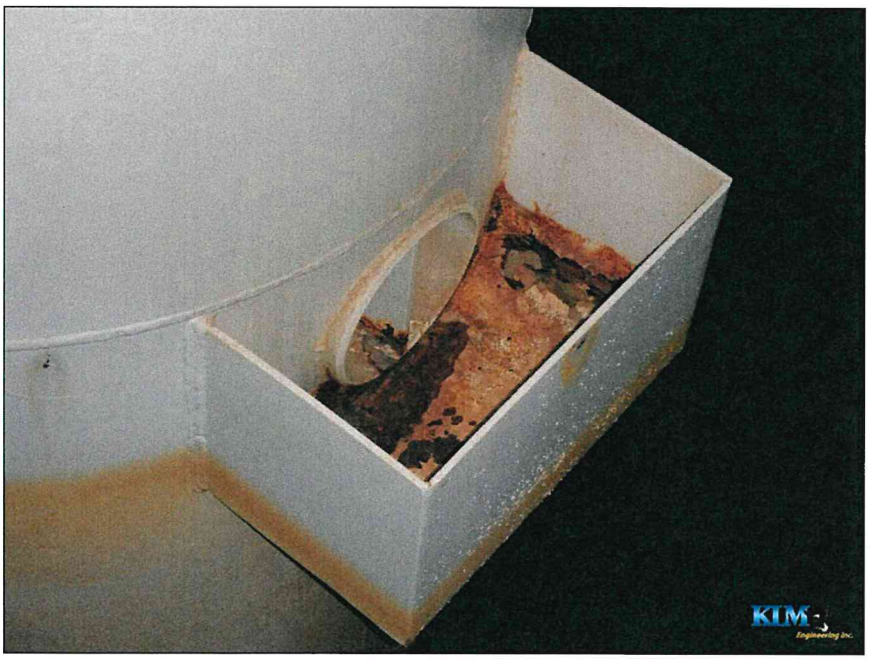


Photo No. 8
Condition of the overflow weir box

Photo No. 9
Condition of the shell below the water line

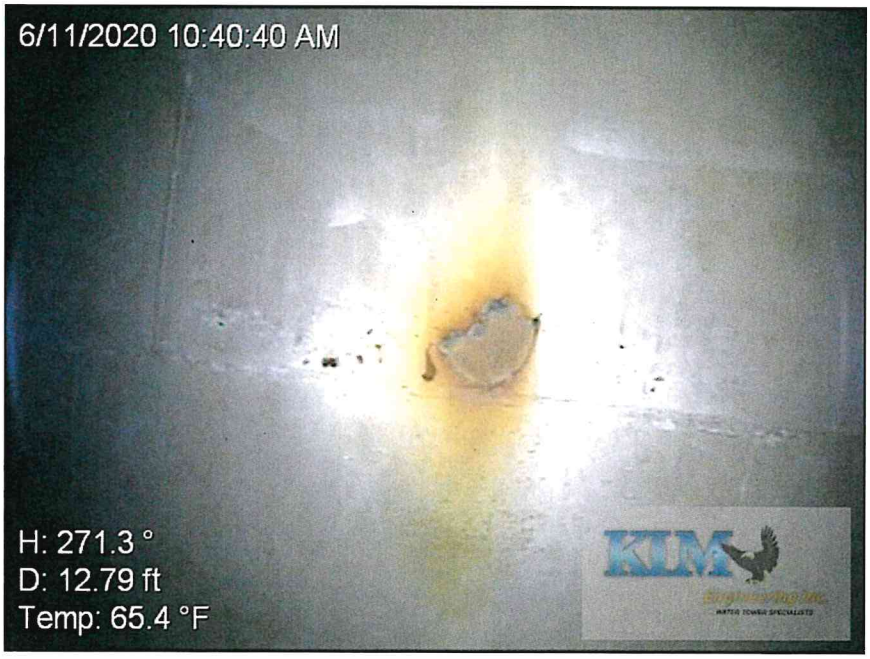


Photo No. 10
Condition of the shell with corrosion at a coating failure

Photo No. 11
Coating failure on the shell

Photo No. 12
Coating failures in the upper bowl

Photo No. 13
Overall view and condition of the bowl

Photo No.14
Condition of the bowl with sediment, corrosion and cleanout coupling and plug

Photo No. 15
Corrosion in the bowl

Photo No.16
Inlet pipe with recirculation line

Photo No. 17
Corrosion in the bowl

Photo No. 18
Condition of the bowl with a corroding rigging lug

Photo No. 19
Bowl inner cone access manway

Photo No. 20
Drywell tube with corrosion nodules

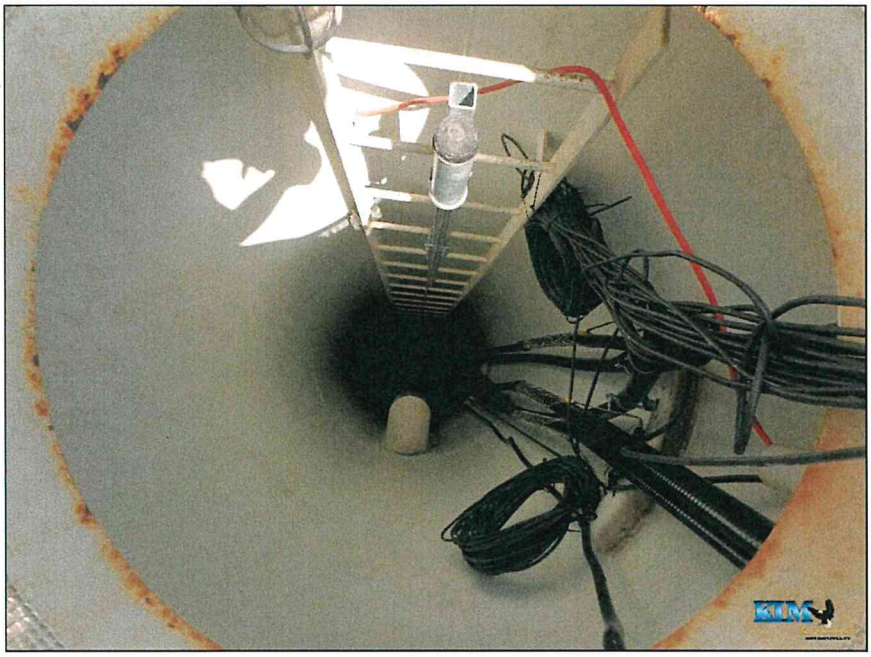


Photo No. 21
View at the top of the drywell tube looking down

Photo No. 22
Top of the drywell tube looking up with coaxial cables and electrical conduit mounted to the access ladder in violation of OSHA

Photo No. 23
Condition of the drywell tube looking down with microcracking

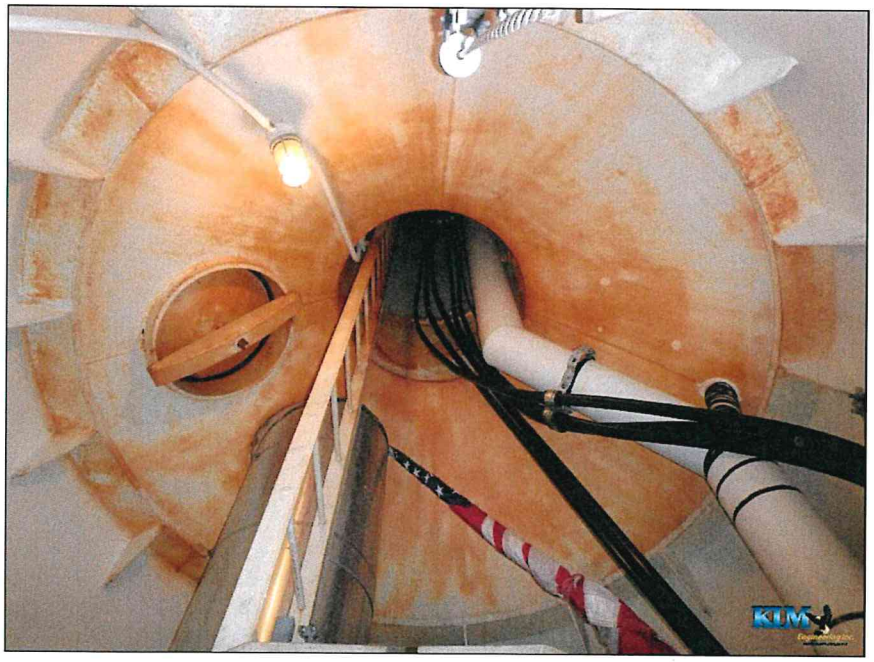


Photo No. 24
Overall condition of the bowl with microcracking

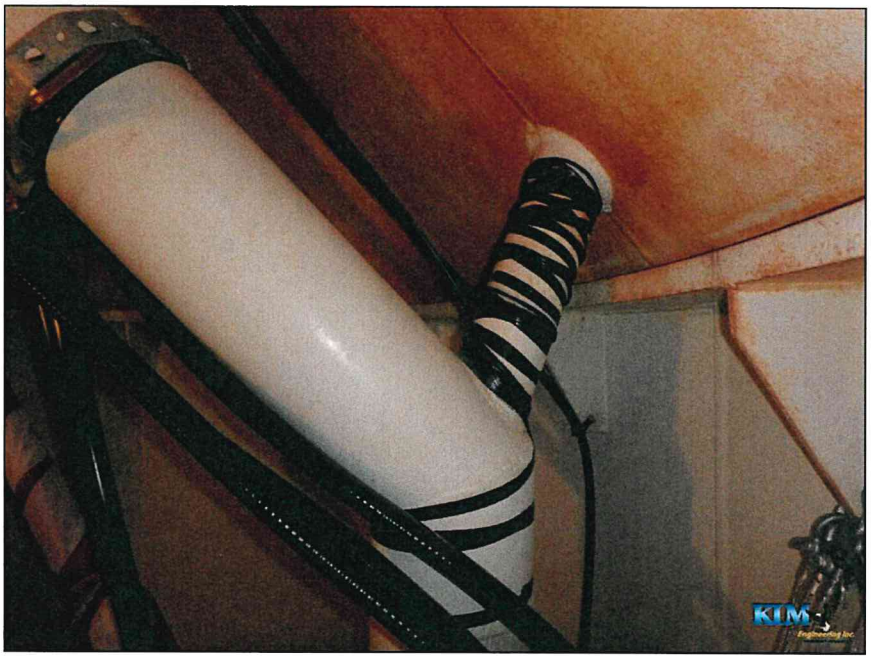


Photo No. 25
Condition of the bowl with cleanout pipe plumbed to the overflow pipe

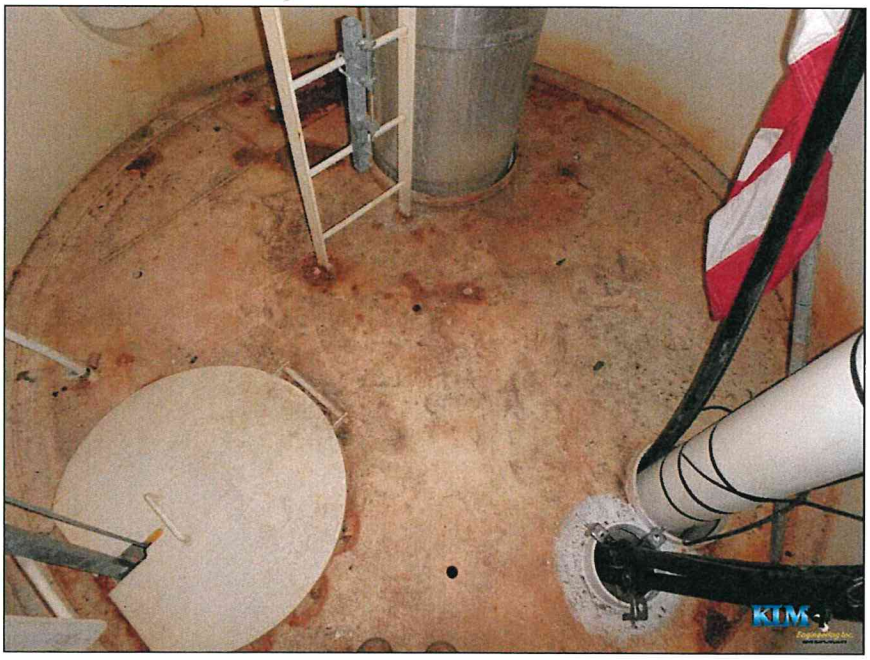


Photo No. 26
Condition of the upper landing

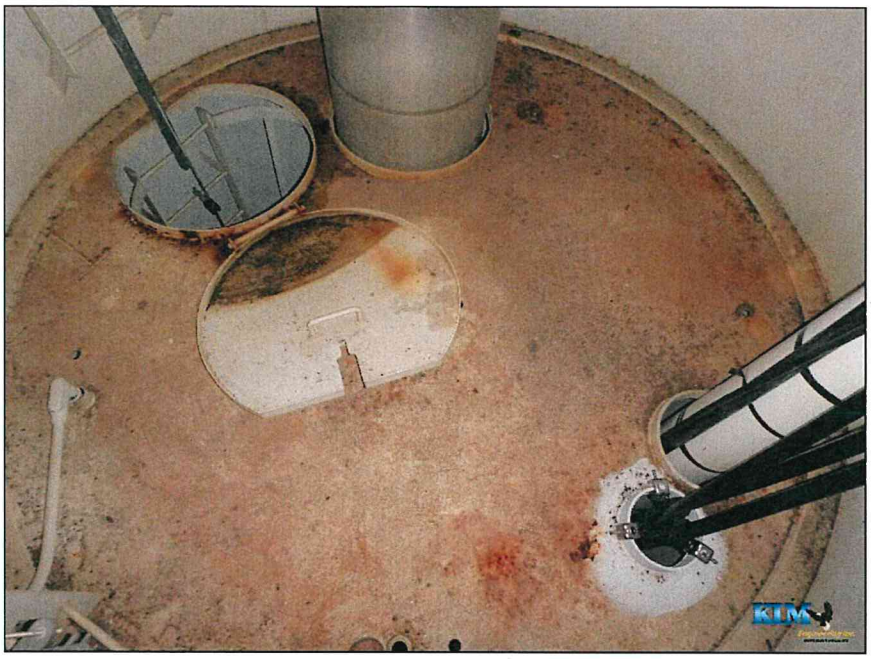


Photo No. 27
Condition of the middle landing

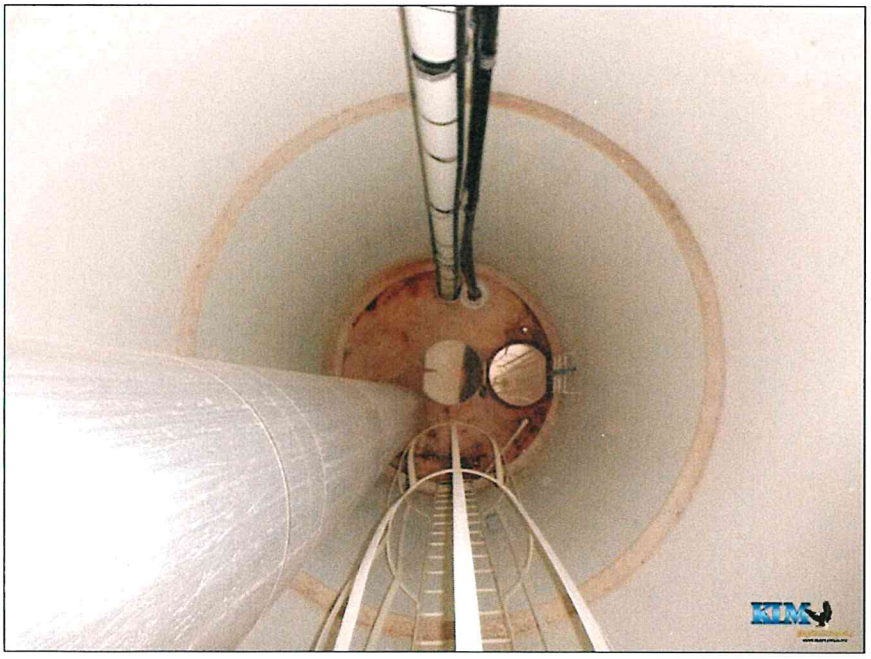


Photo No. 28
Condition of the pedestal looking down at the lower landing

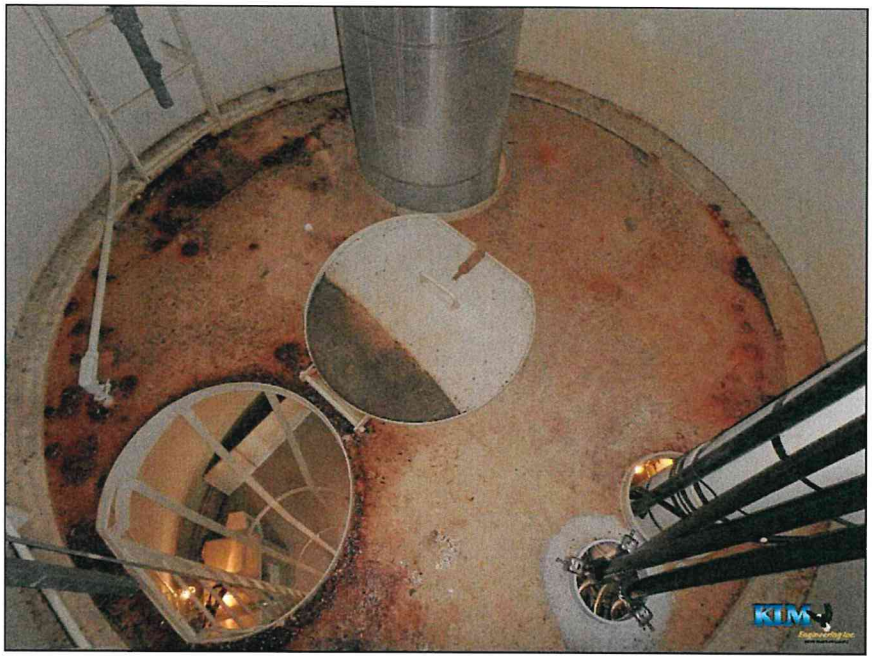


Photo No. 29
Condition of the lower condensate landing

Photo No. 30
Condition of the underside of the lower landing

Photo No. 31
Overall view and condition of the base cone

Photo No. 32
Inside the base cone inlet pipe enclosure with recirculation lines and pump

Photo No. 33
Sample tap on the inlet pipe in the enclosure

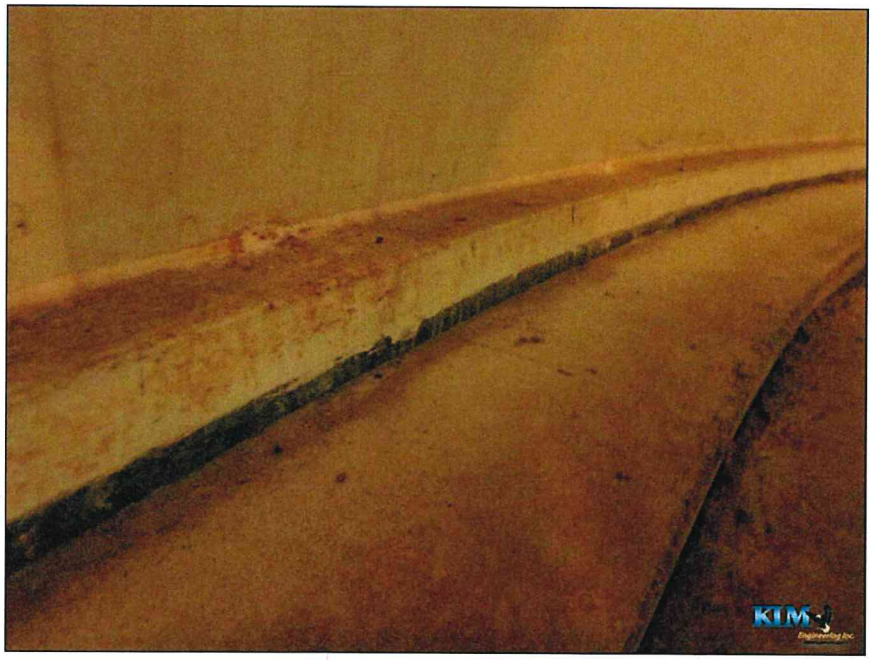


Photo No. 34
Condition of the base inside the base cone

Photo No. 35
Overall condition of the roof

Photo No. 36
Condition of the ventilation manway

Photo No. 37
Condition of the top of the drywell tube

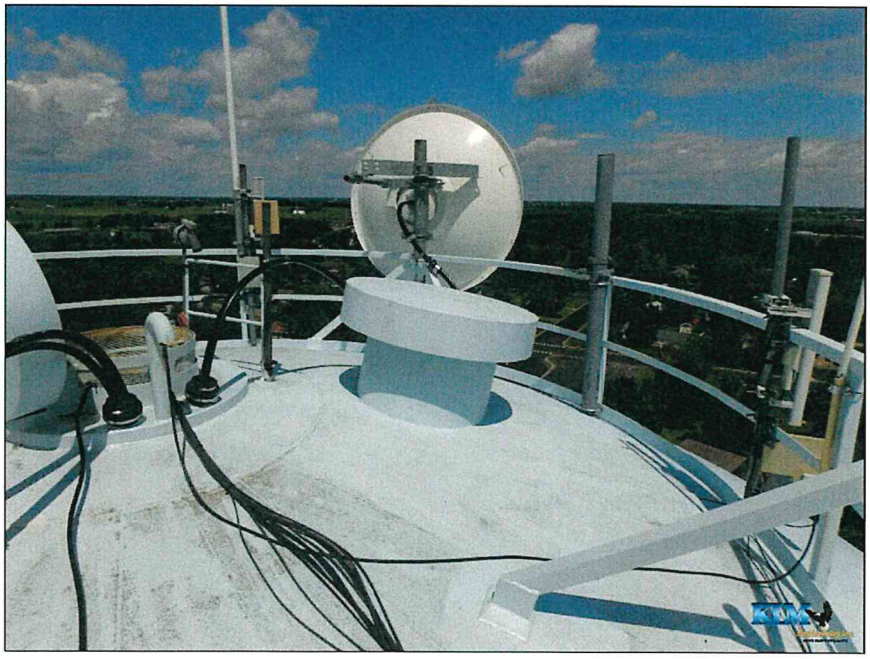


Photo No. 38
Coaxial cable penetrations at the top of the drywell tube, finial vent and abandoned antenna supports

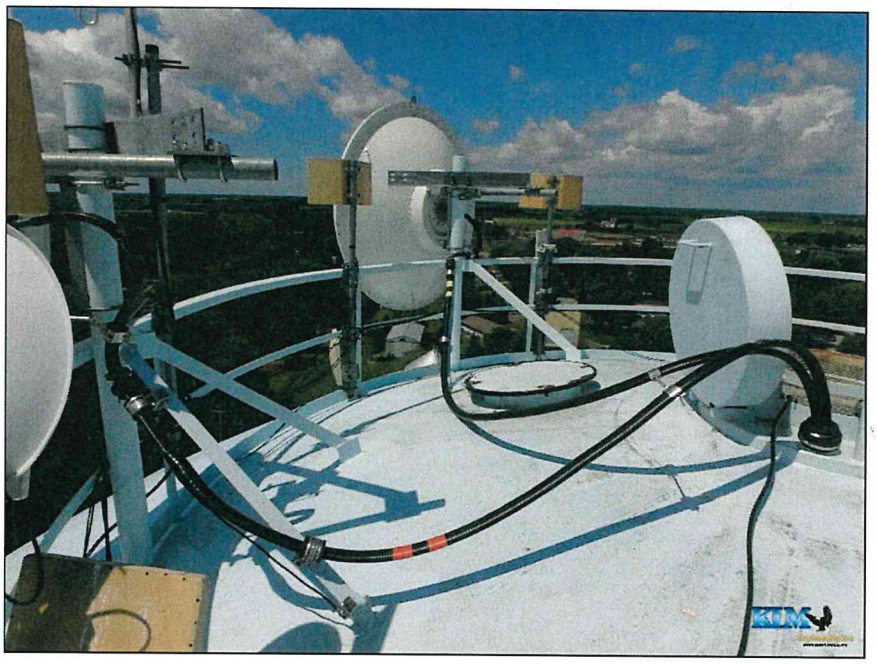


Photo No. 39
Antenna installations and brackets, source of interior wet roof coating damage

Photo No. 40
Condition of the roof with corrosion nodules and topcoat deterioration

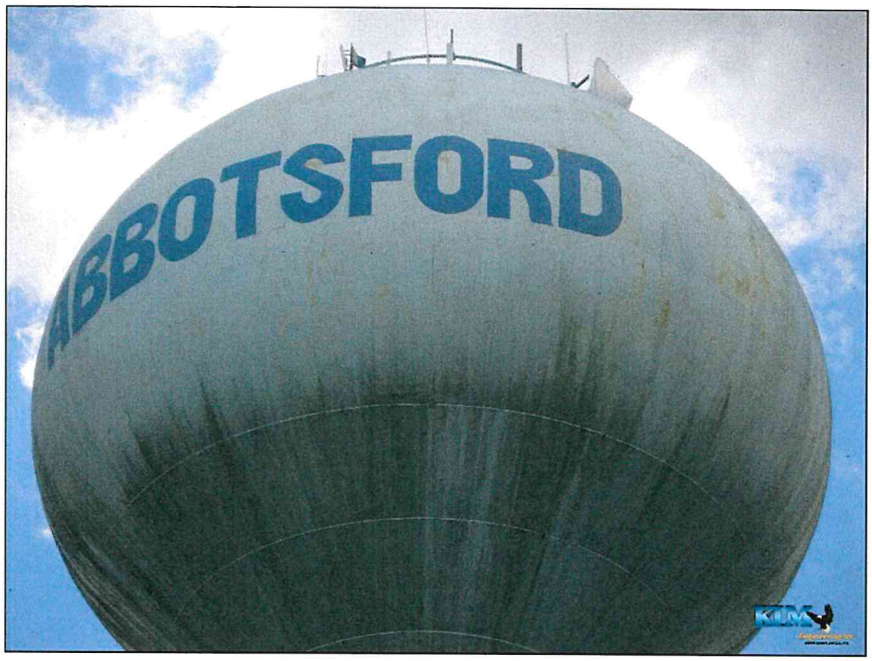


Photo No. 41
Condition of the storage compartment with topcoat deterioration and rust staining

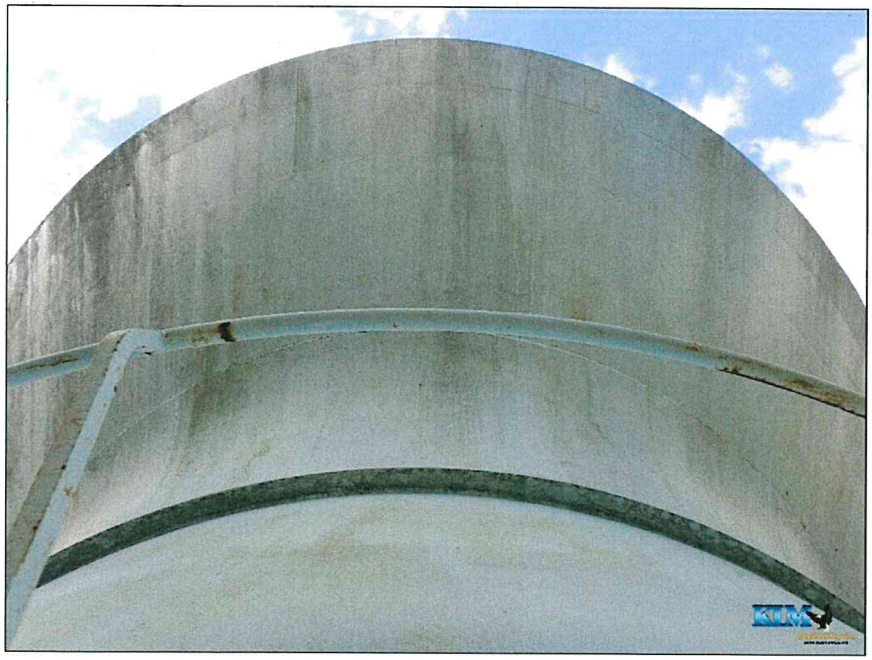


Photo No. 42
Condition of the bowl and upper pedestal with topcoat deterioration

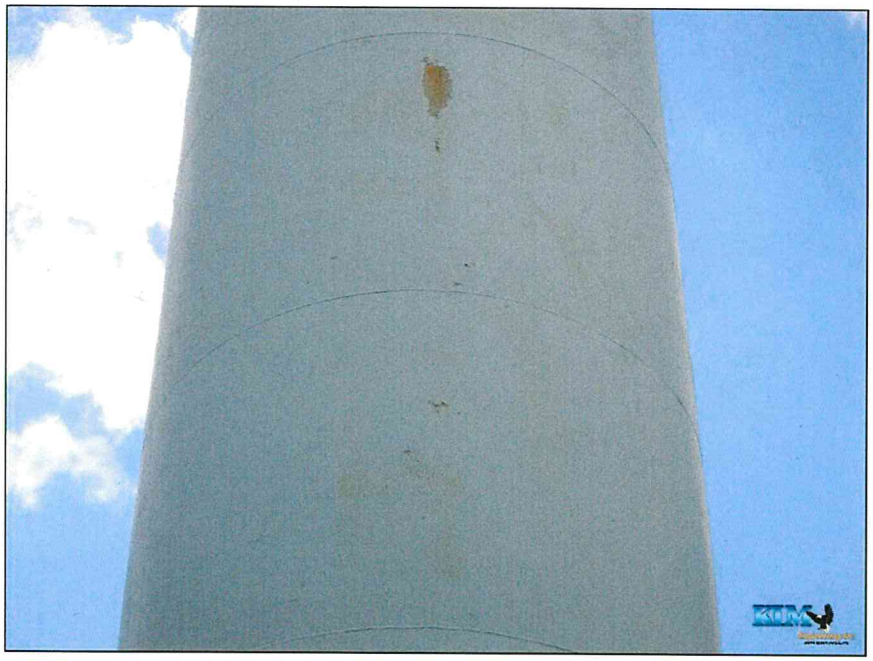


Photo No. 43
Condition of the pedestal

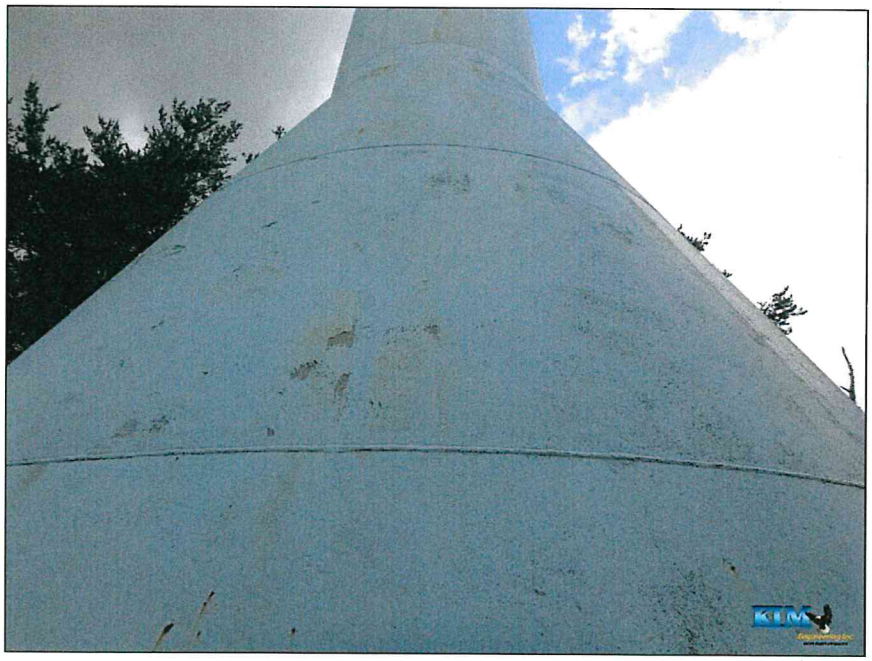


Photo No. 44
Condition of the base cone

Photo No. 45
Condition of the base cone with overflow pipe discharge and splash pad

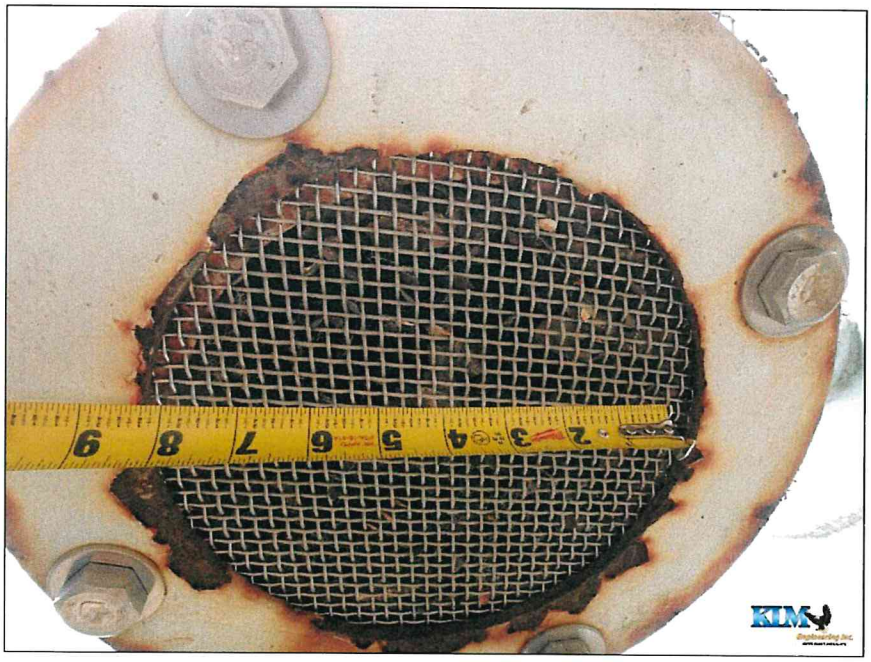


Photo No. 46
Overflow pipe screen with debris on the inside

APPENDIX B

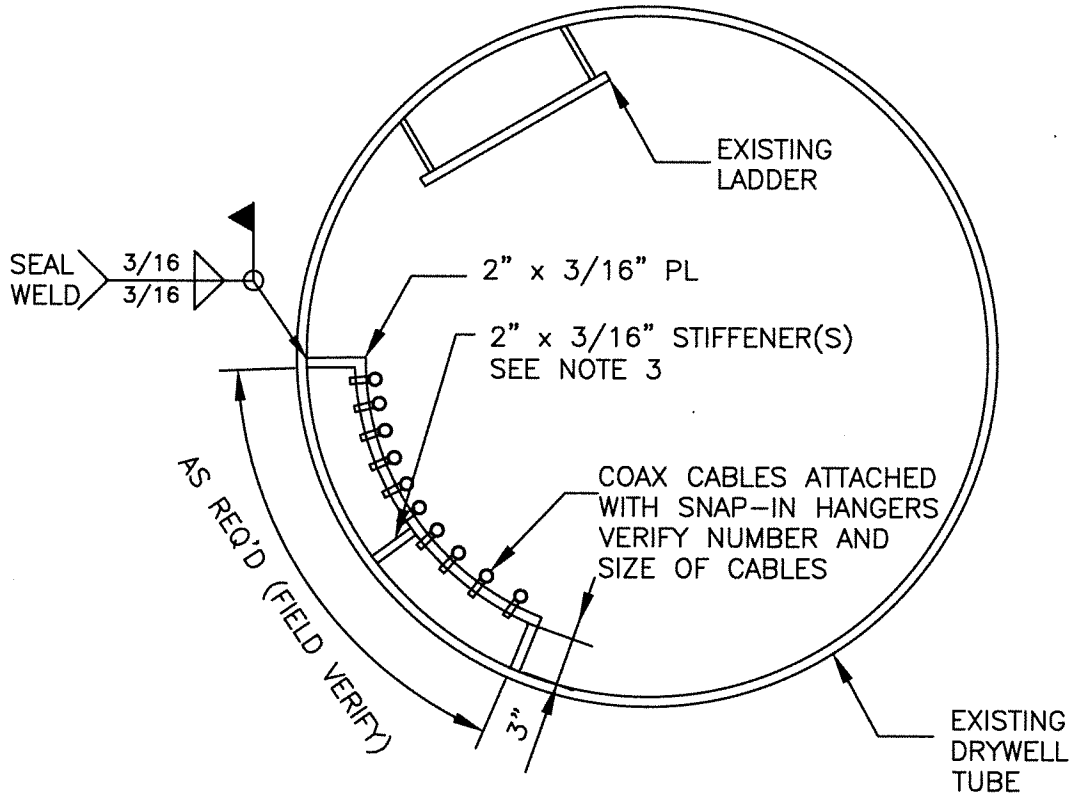
DRAWINGS

KLM ENGINEERING, INC.
1978 Woodlane Drive
Suite 4
Woodbury, MN 55125
(651) 773-5111
Fax (651) 773-5222

KLM PROJECT NO.		KLM DRAWING NO. 4a
SUBJECT	DRYWELL TUBE CABLE BRACKET	
DRAWN BY	MCE	DATE
CHECKED BY	JJT	DATE JUNE 2020

NOTES:

1. ALL WELDING SHALL BE PER AWS D1.1 LATEST EDITION.
2. ALL WELDING SHOWN IS TO BE DONE BY CONTRACTOR.
3. PROVIDE A STIFFENER AT CENTER FOR 3' TO 4' LONG BRACKETS AND PROVIDE STIFFENERS ON 2' CENTERS MAXIMUM ON LONGER BRACKETS.

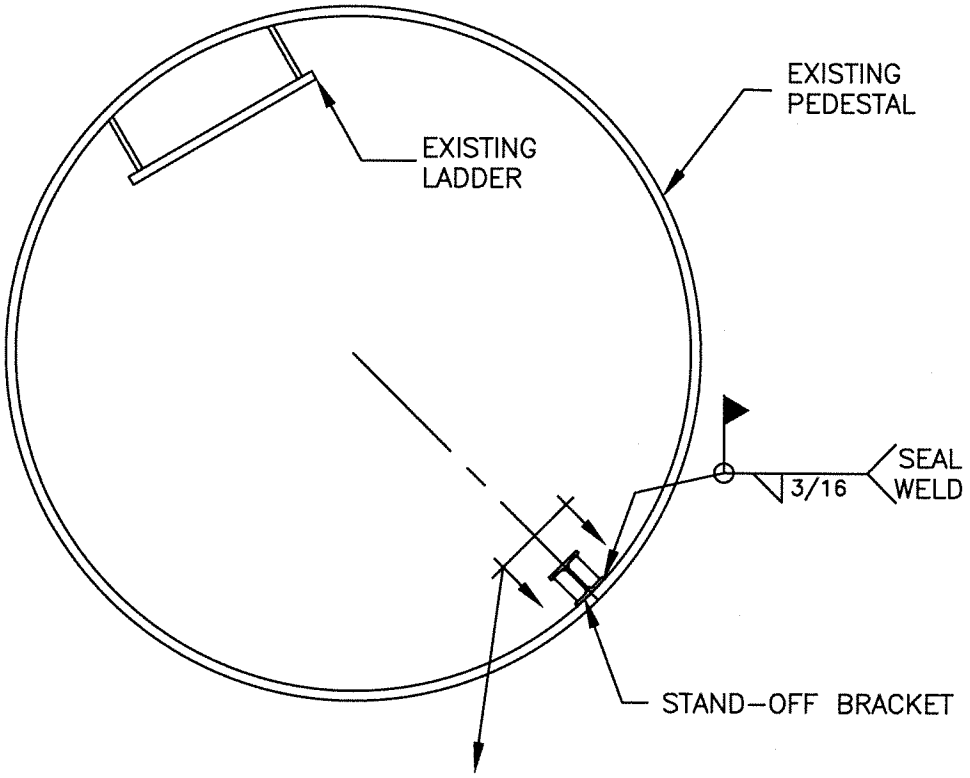


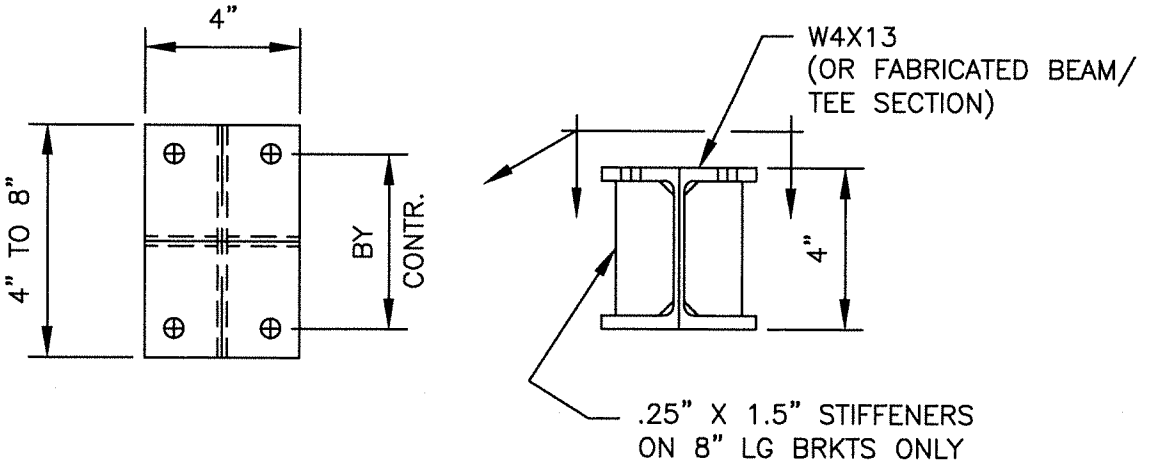
KLM ENGINEERING, INC.
1976 Woodlane Drive
Suite 4
Woodbury, MN 55125
(651) 773-5111
Fax (651) 773-5222

KLM PROJECT NO.	KLM DRAWING NO. 4b
SUBJECT PEDESTAL STAND-OFF BRACKET	
DRAWN BY JJT	DATE JULY 2017
CHECKED BY	DATE

NOTES:

1. ALL WELDING SHALL BE PER AWS D1.1 LATEST EDITION.
2. ALL WELDING SHOWN IS TO BE DONE BY CONTRACTOR.
3. LOCATION OF STAND-OFF BRACKETS BY CONTRACTOR WITH APPROVAL OF ENGINEER.
4. HOLE SIZE AND LOCATION BY CONTRACTOR.
5. BRACKETS 4" LONG ARE FOR ONE (1) SET OF HOLES.
6. BRACKET SPACING 8' MAXIMUM.



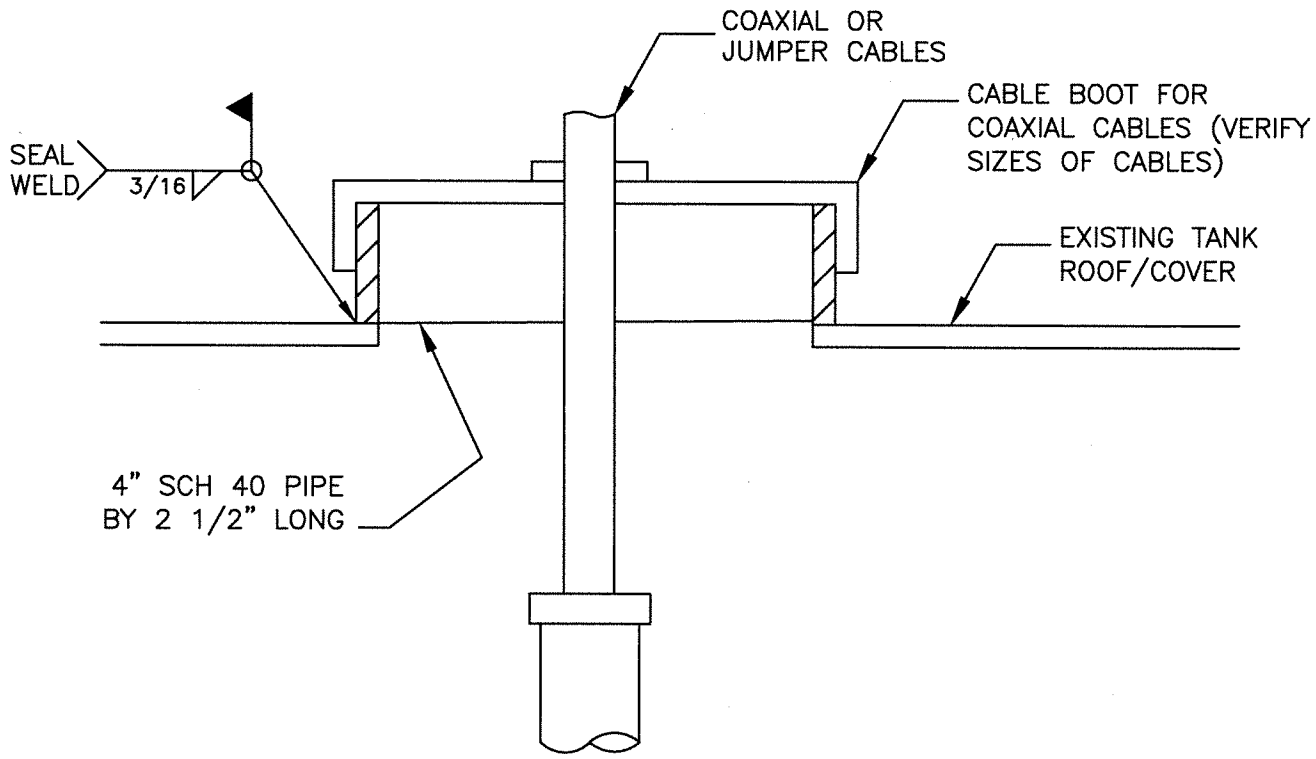


KLM ENGINEERING, INC.
1976 Woodbury Drive
Suite 4
Woodbury, MN 55125
(651) 773-5111
Fax (651) 773-5222

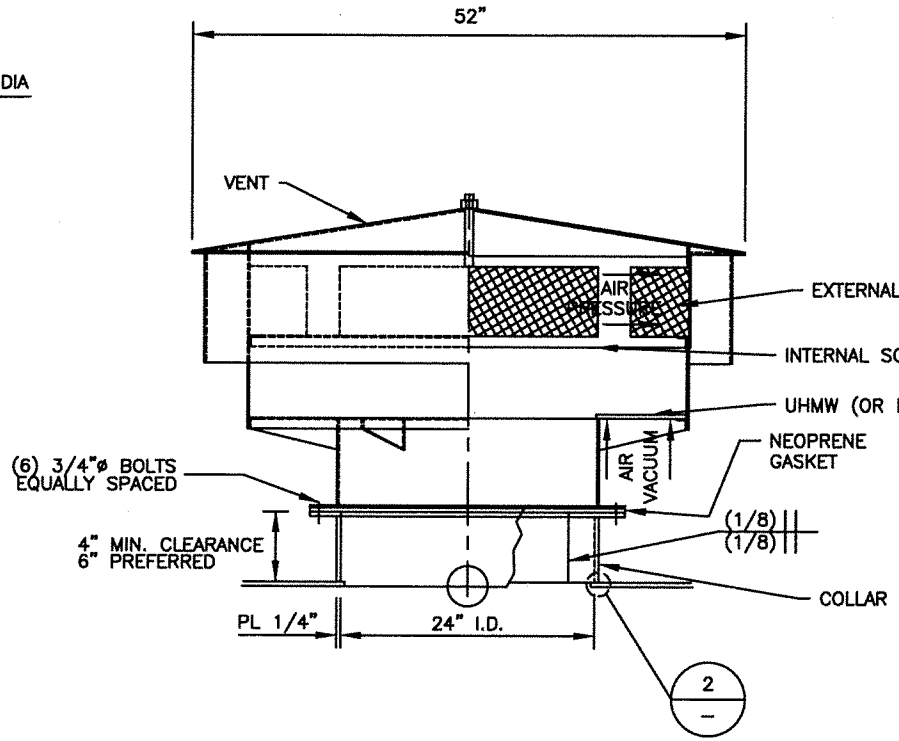
KLM PROJECT NO.	KLM DRAWING NO. 5a
SUBJECT ROOF CABLE PENETRATION	
DRAWN BY MCE	DATE
CHECKED BY JJT	DATE JUNE 2020

NOTES:

1. ALL WELDING SHALL BE PER AWS D1.1 LATEST EDITION.
2. ALL WELDING SHOWN IS TO BE DONE BY CONTRACTOR.



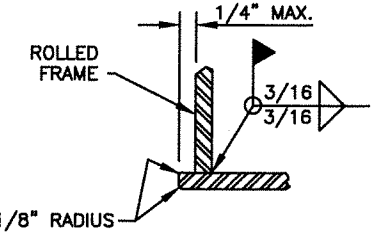
VENT SIZE	COVER DIA
24	52
20	43
18	39
16	35
12	26



1/– ELEVATION

NOTES:

1. VENT MATERIAL SHALL BE ALUMINUM AND FABRICATED PER FABRICATORS OPTION BUT MUST MEET REQUIREMENTS OF LATEST EDITION OF AWWA, THIS DRAWING AND PROJECT SPECIFICATION.
2. COLLAR WELDING SHALL BE PER AWS D1.1.
3. ALL WELDING SHOWN IS TO BE DONE BY CONTRACTOR.
4. VENT OPENING SIZE(S) PER SPECIFICATIONS
5. ALL FASTENERS SHALL BE STAINLESS STEEL.
6. INTERNAL SCREEN SHALL BE NON-CORROSIVE #24 MESH.
7. EXTERNAL SCREEN SHALL BE NON-CORROSIVE #4 MESH.



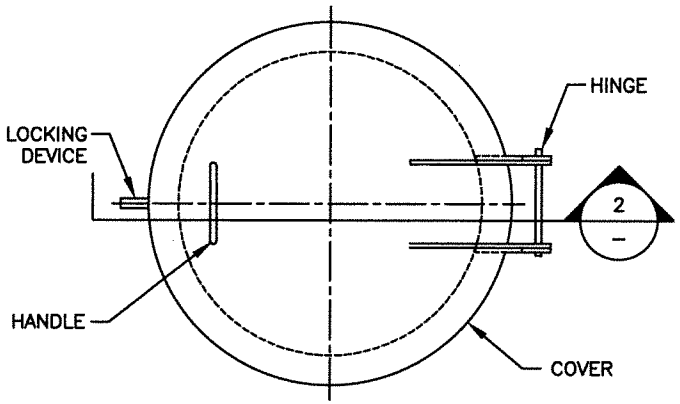
2/– DETAIL-OPTION

KLM ENGINEERING, INC.
1976 Woodcale Drive
Suite 4
Woodbury, MN 55125
(651) 773-5111
Fax (651) 773-5222

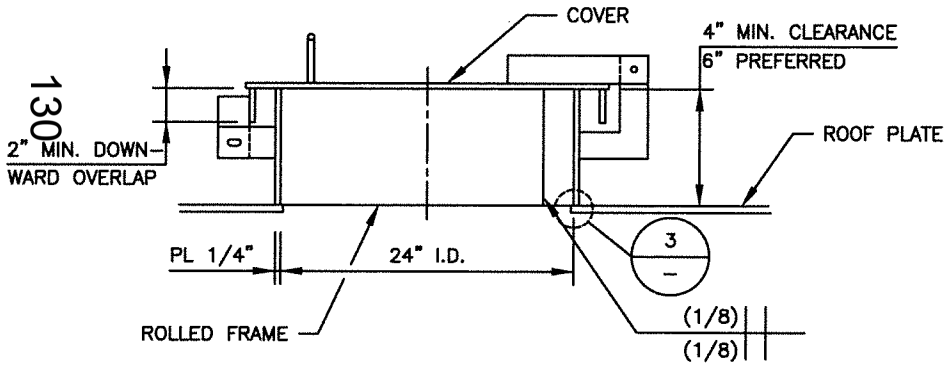
ALUMINUM PRESSURE PALLET FINIAL VENT

DATE: JANUARY 2020

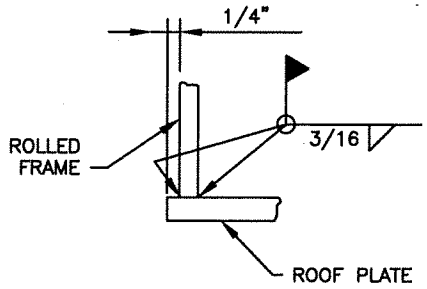
KLM DRAWING NO.: 8a



1 PLAN VIEW



2 SECTIONAL ELEVATION



3 DETAIL

NOTES:

1. ALL MATERIALS SHALL BE ASTM A36 STEEL.
2. CONSTRUCTION SHALL MEET THE REQUIREMENTS OF AWWA D100 LATEST EDITION.
3. ALL WELDING SHALL BE PER AWS D1.1 LATEST EDITION.
4. AN AIR TIGHT GASKET SHALL BE PROVIDED BETWEEN THE COVER AND FRAME WHERE REQUIRED BY LOCAL AND/OR STATE CODE REQUIREMENTS.

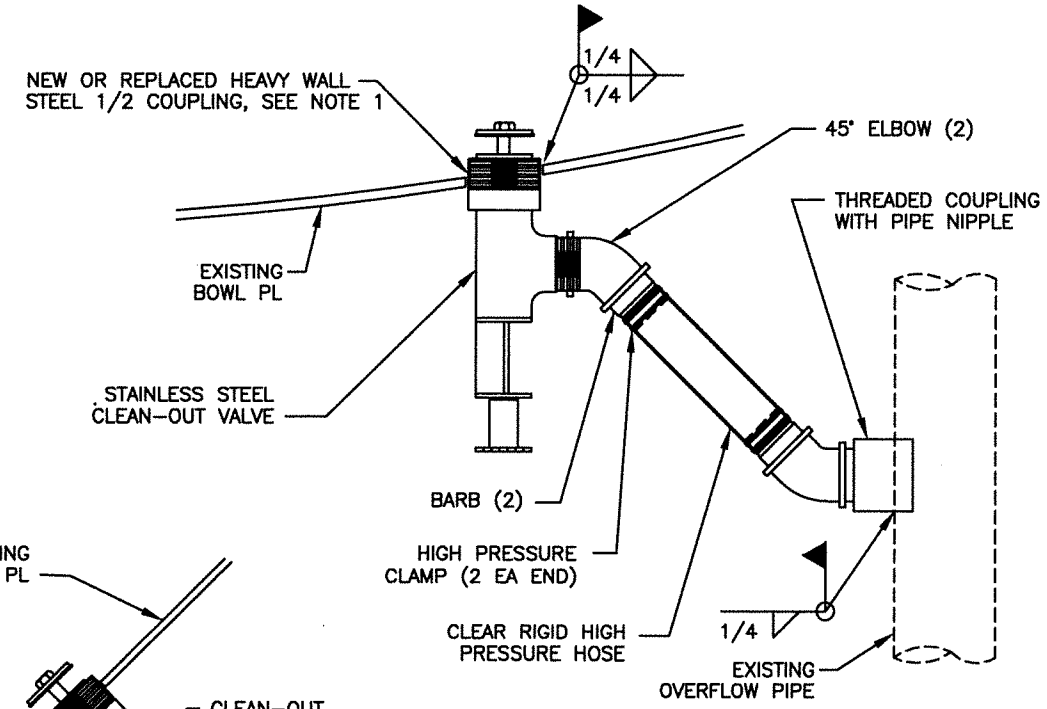
130

KLM ENGINEERING, INC.
1976 Woodddale Drive
Suite 4
Woodbury, MN 55125
(651) 773-5111
Fax (651) 773-5222

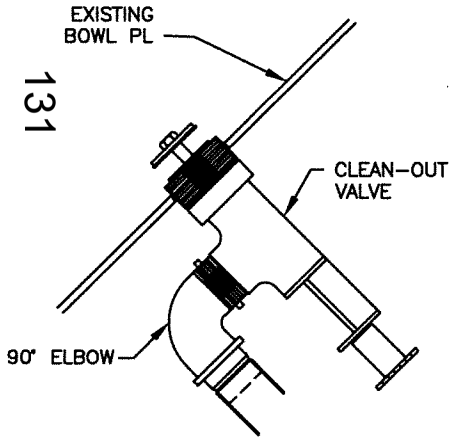
24"ø VENTILATION ROOF MANWAY

DATE
JANUARY 2020

KLM DRAWING NO.
10a



CLEAN-OUT VALVE MOUNTING



ALTERNATE MOUNTING

INSTALLATION PROCEDURE:

1. CUT-OUT AROUND EXISTING DRAIN. IF NO DRAIN EXISTS CUT A NEW HOLE AT A LOCATION APPROVED BY THE ENGINEER.
2. INSTALL NEW HEAVY WALL STEEL 1/2 COUPLING.
3. WELD, SANDBLAST AND PAINT ASSEMBLY WITH A CARBON STEEL PLUG IN PLACE.
4. UPON APPROVAL AND ACCEPTANCE OF THE COATING, REMOVE THE CARBON STEEL PLUG AND REPLACE IT WITH A BABCO STAINLESS STEEL CLEAN-OUT VALVE, OR AN APPROVED EQUAL.
5. INSTALL THE REMAINING PIPING AND COMPONENTS CONNECTING TO THE EXISTING OVERFLOW PIPE AS SHOWN.

NOTES:

1. ALL WELDING SHALL BE DONE PER AWS D1.1 LATEST EDITION.
2. ALL WELDING SHOWN IS TO BE DONE BY CONTRACTOR.
3. ALL COMPONENTS SHOWN ARE PROVIDED BY CONTRACTOR.
4. THE SIZE OF NEW DRAIN TO BE 4 INCH NOMINAL UNLESS APPROVED BY THE ENGINEER.

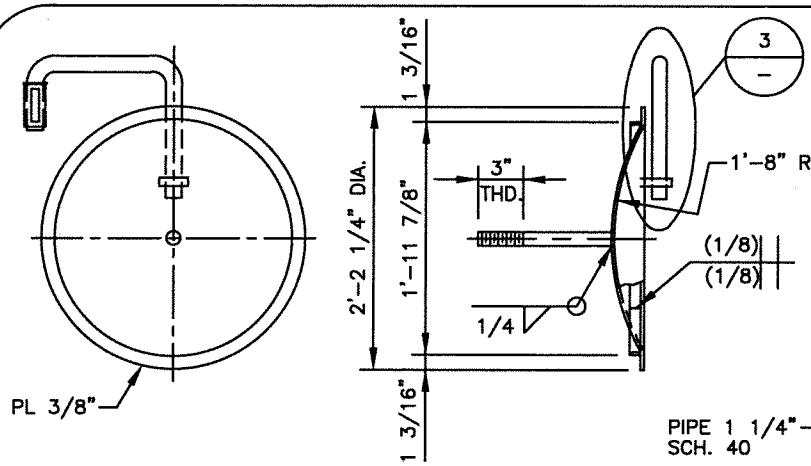
131

KLM ENGINEERING, INC.
1976 Woodddale Drive
Suite 4
Woodbury, MN 55125
(651) 773-5111
Fax (651) 773-5222

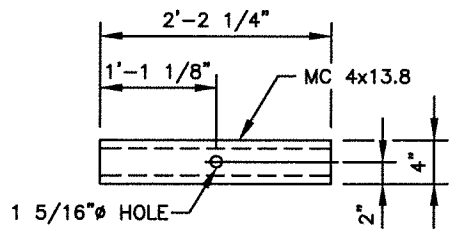
STAINLESS STEEL BOWL DRAIN VALVE

DATE
MARCH 2020

KLM DRAWING NO.
33



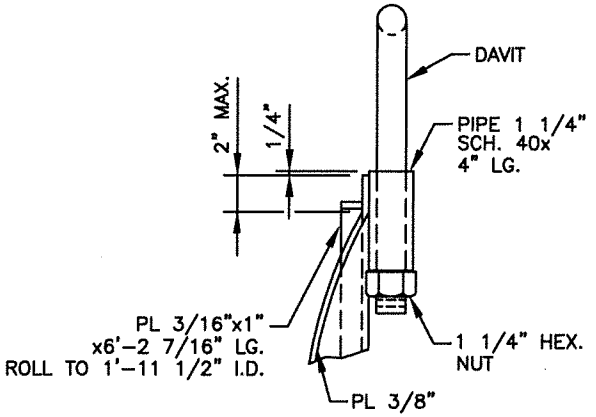
1 — COVER DETAIL



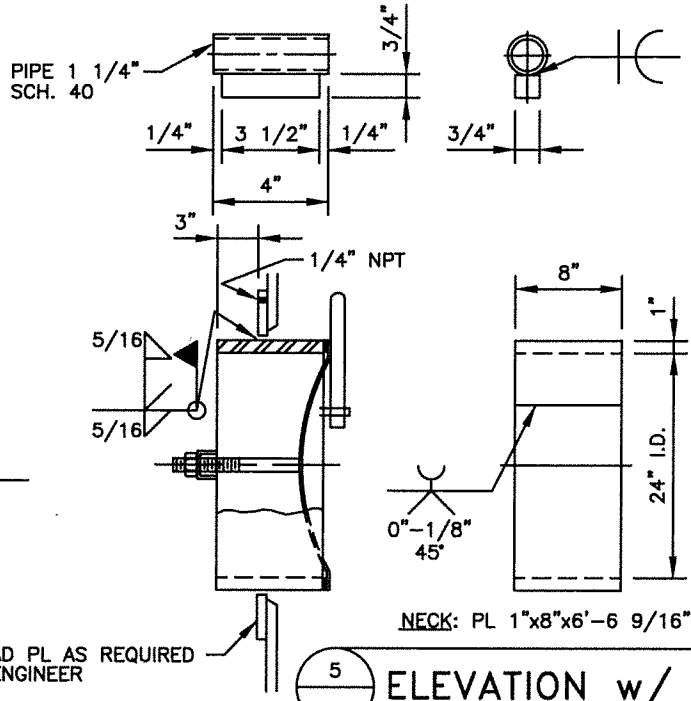
2 — COVER DETAIL

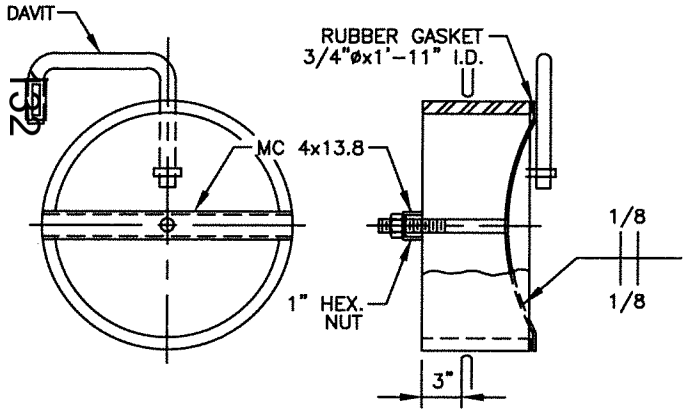
NOTES:

1. ALL WELDING SHALL BE PER AWS D1.1 LATEST EDITION.
2. CONTRACTOR TO PROVIDE CERTIFIED CALCULATIONS IF NO REPAD IS INSTALLED.



3 — DAVIT CONN. DETAIL

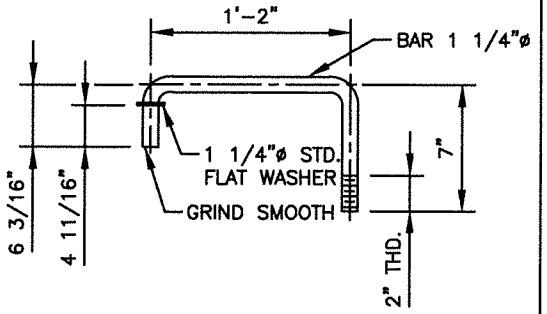




4 — ELEVATION w/o REPAD

NECK: PL 1"x8"x6'-6 9/16" O.D.

5 — ELEVATION w/ REPAD



6 — DAVIT

KLM ENGINEERING, INC.
1976 Wooddale Drive
Suite 4
Woodbury, MN 55042
(651) 773-5111
Fax (651) 773-5222

24" SHELL MANWAY PRESSURE TYPE

DATE
JANUARY 2018

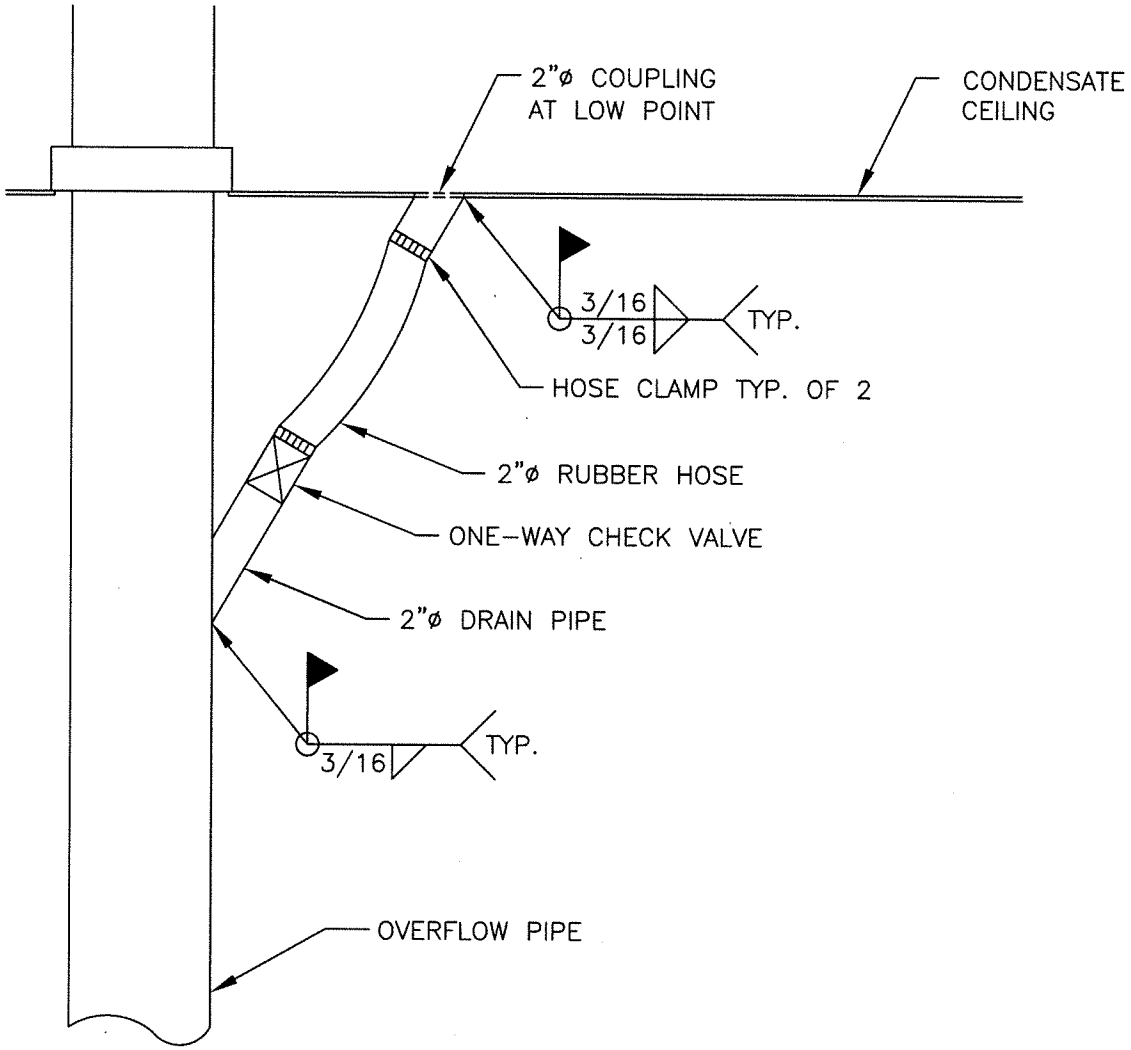
KLM DRAWING NO.
37a

KLM ENGINEERING, INC.
1976 Woodddale Drive
Suite 4
Woodbury, MN 55125
(651) 773-5111
Fax (651) 773-5222

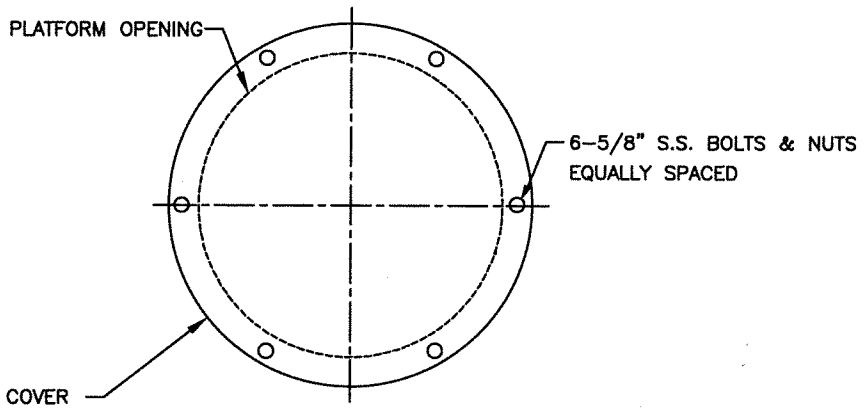
KLM PROJECT NO.	KLM DRAWING NO. 44a
SUBJECT CONDENSATE CEILING DRAIN	
DRAWN BY	DATE APRIL 2018
CHECKED BY	DATE

NOTES:

1. ALL WELDING SHALL BE PER AWS D1.1 LATEST EDITION.
2. ALL WELDING SHOWN IS TO BE DONE BY CONTRACTOR.



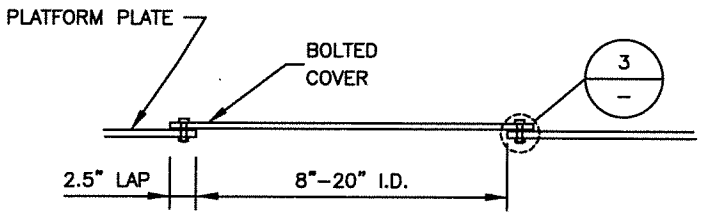
SECTION



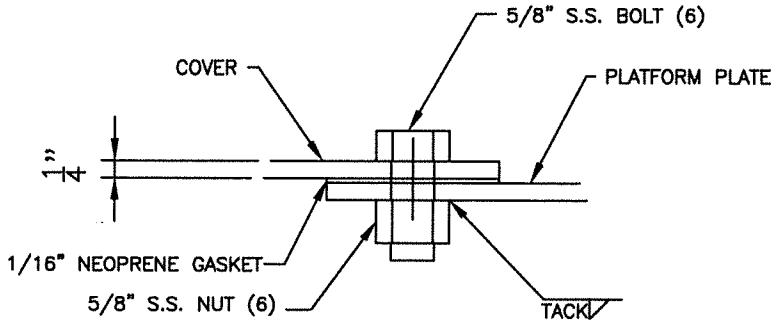
1 — PLAN VIEW

NOTES:

1. COVER PLATE TO BE 1/4" MINIMUM A36 STEEL WITH A DIAMETER 5" LARGER THAN THE DIAMETER OF THE FLOOR OPENING.
2. ALL WELDING SHALL BE PER AWS D1.1 LATEST EDITION.
3. ALL WELDING SHOWN IS TO BE DONE BY CONTRACTOR.



2 — SECTIONAL ELEVATION



3 — CONNECTION DETAIL

KLM ENGINEERING, INC.
1976 Wooddale Drive
Suite 4
Woodbury, MN 55125
(651) 773-5111
Fax (651) 773-5222

PLATFORM FLOOR CONTAINMENT PLATE

DATE
JANUARY 2018

KLM DRAWING NO.
45

APPENDIX C

SURFACE PREPARATION REQUIREMENTS

NACE SP0178-2007
(formerly RP0178-2003)
Item No. 21022

Standard Practice

Design, Fabrication, and Surface Finish Practices for Tanks and Vessels to Be Lined for Immersion Service

Revised 2007-03-10
Reaffirmed 2003-03-17
Reaffirmed September 1995
Reaffirmed March 1991
Revised 1989
Approved 1978
NACE International
1440 South Creek Drive
Houston, Texas 77084-4906
+1 281/228-6200
ISBN 1-57590-167-6

Foreword

When specifying tanks and vessels that are to be internally lined to control corrosion and prevent product contamination, special design, fabrication, and surface finishing practices must be considered to obtain the desired performance of these linings for immersion service. As the corrosiveness of the product increases, the design and fabrication of the tank or vessel becomes more critical relative to the performance of the lining.

This standard presents standard practices for the design, fabrication, and surface finish of metal tanks and vessels that are to be lined for corrosion resistance and to prevent product contamination. The standard explains how the standard practices govern the quality of lining applications. Appendix A contains illustrations depicting both good and bad practices for tanks and vessels to be lined, and Appendix B contains a list of recommended responsibilities to ensure that an acceptable lining application is achieved. Appendix C contains written and graphic descriptions of five degrees of surface preparation of welds in tanks and vessels that may be specified prior to lining.[1]

This standard is intended for use or reference by end users, lining specifiers, lining applicators, lining manufacturers, and contracting authorities involved in the surface preparation or lining installation in tanks and vessels intended for chemical immersion service.

This standard practice was originally prepared in 1978 by NACE International Task Group (TG) T-6A-29, a component of Unit Committee T-6A on Coating and Lining Materials for Immersion Service, in collaboration with Unit Committee T-6H on Application and Use of Coatings for Atmospheric Service. The standard was revised in 1989 by TG T-6G-27, a component of Unit Committee T-6G on Surface Preparation for Protective Coatings, and was reaffirmed in 1991 and 1995. It was reaffirmed in 2003 by Specific Technology Group (STG) 04 on Coatings and Linings, Protective: Surface Preparation. The standard was revised in 2007 by TG 295 on Lining, Tanks and Vessels for Immersion Service: Fabrication Details, Surface Finish Requirements, and Proper Design Considerations—Review of NACE Standard RP0178-2003. This TG is administered by STG 04. It is also sponsored by STG 02 on Coatings and Linings, Protective: Atmospheric; STG 03 on Coatings and Linings, Protective: Immersion and Buried Service; and STG 43 on Transportation, Land. This standard is issued by NACE International under the auspices of STG 04.

[1] The visual comparator mentioned in Appendix C is a molded plastic replica that illustrates various degrees of surface finishing for welds prior to coating or lining. Full-seam welds, skip welds, butt welds, lap welds, and others are depicted. For more information contact the NACE FirstService Department, 1440 South Creek Drive, Houston, TX 77084-4906.

NACE International gratefully acknowledges the contributions of the following companies in the preparation of the welding samples and the fabrication of the die from which the plastic replicas have been molded:

Ausimont USA, Inc.,[2] Thorofare, NJ
CenterPoint Energy,[3] Houston, TX
S.G. Pinney & Associates, Inc.,[4] Port St. Lucie, FL
The Sherwin-Williams Company,[5] Cleveland, OH

NACE also gratefully acknowledges the assistance of KTA-Tator Inc.,[6] Pittsburgh, PA, in developing the weld pattern that was used to mold the plastic replica of weld samples.

In NACE standards, the terms *shall*, *must*, *should*, and *may* are used in accordance with the definitions of these terms in the *NACE Publications Style Manual*, 4th ed., Paragraph 7.4.1.9. *Shall* and *must* are used to state mandatory requirements. *Should* is used to state something considered good and is recommended but is not mandatory. *May* is used to state something considered optional.

---

[2] Ausimont USA, Inc., 10 Leonards Lane, Thorofare, NJ 08086.
[3] CenterPoint Energy, P.O. Box 1325, Houston, TX 77251-1325.
[4] S.G. Pinney & Associates, Inc., Corporate Office, 1326 S.W. Biltmore St., Port St. Lucie, FL 34983.
[5] The Sherwin-Williams Company, 101 Prospect Avenue N.W., Cleveland, OH 44115.
[6] KTA-Tator, Inc., 115 Technology Drive, Pittsburgh, PA 15275.

NACE International
Standard Practice

Design, Fabrication, and Surface Finish Practices for Tanks and Vessels to Be Lined for Immersion Service

Contents

1. General 1
2. Definitions 1
3. Design Practices 1
4. Fabrication Practices 3
5. Surface Finish Practices 3
Bibliography 4
Appendix A: Illustrations of Design, Fabrication, and Surface Finish Practices for Metal Tanks and Vessels to Be Lined for Immersion Service 5
Appendix B: Recommended Responsibilities 11
Appendix C: Written and Graphic Descriptions of Various Degrees of Surface Finishing of Welds That May Be Specified in Preparation for Lining of Tanks and Vessels 12

Section 1: General

1.1 This standard presents standard practices for the design, fabrication, and surface finish of tanks and vessels to be lined for immersion service. Tanks and vessels may be lined for corrosion control or to prevent product contamination.

1.1.1 Appendix A (mandatory) contains illustrations depicting both good and bad practices for tanks and vessels to be lined for immersion service.

1.1.2 Appendix B (nonmandatory) contains a list of recommended responsibilities of the purchaser (user), designer, fabricator, lining applicator, and inspector to ensure that an acceptable lining application is achieved.

1.1.3 Appendix C (nonmandatory) contains written and graphic descriptions of five degrees of surface preparation of welds in tanks and vessels that may be specified prior to lining. The written descriptions of the five degrees of surface preparation of welds in Appendix C take precedence over the graphics and the companion visual comparator. The graphics are only pictorial representations of welds and grinding finishes and are not intended to be representative of the integrity of the welds. The "weld condition prior to finishing" is not a typical weld; it is only intended to illustrate defects in welds that must be corrected prior to lining.

1.2 Good welding practices and welding codes govern the integrity of the tank and vessel welds; this standard only addresses surface preparation of the welds for the purpose of lining the tank or vessel for immersion service.

1.3 Other design and construction codes or standards may be used to complement the details given here. When applicable, the requirements of such other codes or standards shall be considered. A partial list of such codes and standards can be found in the Bibliography.

1.4 These standard practices may be used in the design, fabrication, and surface finish of tanks and vessels for services other than immersion, such as dry bulk storage of solid materials.

Section 2: Definitions

Lining: A coating or layer of sheet material adhered to or in intimate contact with the interior surface of a container used to protect the container against corrosion by its contents and/or to protect the contents of the container from contamination by the container material. For the purposes of this standard, *lining* refers to a surface barrier, usually a thin film less than 500 µm (20 mil) thick applied as either a lining or a coating. In common usage, the terms *coating* and *lining* are interchangeable, but in this standard, only the term *lining* is used. The requirements contained herein may or may not apply to heavier, thick-film linings, sheet linings, trowel-applied and pumped-into-place finishes, plasma, flame-sprayed linings, fiber-reinforced plastic linings, or similar lining materials.

Surface Finish: The degree of smoothness of a surface produced by the removal of sharp edges and the appropriate surface preparation of welds and other rough areas. The term *surface finish* is also used to characterize the degree of smoothness that is necessary to attain a surface to which the lining can be applied satisfactorily in accordance with the lining specification.

Section 3: Design Practices

3.1 Accessibility

3.1.1 All surfaces of the tank or vessel interior shall be readily accessible for surface preparation and lining application (see Figures A1 through A10, Appendix A).

3.1.2 The manway diameter for working entrance and safety reasons during the lining application shall be as large as practical for the tank or vessel being lined.

3.1.2.1 If possible, at least one manway shall be located near ground (working) level, except in tanks or vessels designed to be buried below grade.

3.1.3 Additional manways and openings should be provided as needed to facilitate ventilation. These must meet safety requirements.

3.2 Joints

3.2.1 Continuous butt-welded joints shall be used whenever possible (see Figure A5, Appendix A).

3.2.2 Rivets shall not be used.

3.2.3 The use of internal bolted connections should be avoided to the fullest extent possible.

3.2.4 Continuous lap-welded joints may be used but are not preferred. For sheet lining material, this type of construction may not be acceptable.

3.3 Connections

3.3.1 All connections to the tank or vessel shall be flanged.

3.3.2 Threaded connections should not be used in tanks and vessels operating in corrosive environments (see Figure A4, Appendix A). However, if threaded connections cannot be avoided in corrosive environments, these parts shall be fabricated of corrosion-resistant materials, or constructed as shown in Figure A10, Appendix A.

3.3.2.1 CAUTION: Dissimilar metal (galvanic) corrosion occurs when, for example, an alloy is used to replace the steel bottom of a tank, or in a similar circumstance when alloy appurtenances must be part of the construction of a vessel. If a lining is then applied to the steel and part of the alloy (usually 150 to 610 mm [5.9 to 24 in.]), any discontinuity in the lining exposes a small anode surface. Once corrosion starts, it progresses rapidly because of the large exposed alloy cathodic area to the much smaller anodic area. Without the lining, galvanic corrosion causes the steel to corrode at the weld area, but at a much slower rate. The recommended practice is to apply the lining to all of the alloy as well as the steel, thereby eliminating the possible occurrence of a large-cathode-to-small-anode surface.

3.3.3 Nozzle connections to be lined shall be as short as possible and be a minimum of 50 mm (2 in.) in diameter (see Figure A4, Appendix A). Connections less than 50 mm (2 in.) in diameter shall be suitably attached through a reducing flange (see Figure A10, Appendix A). When trowel-applied thick-film linings are required, additional nozzle inside diameter shall be allowed for lining thickness.

3.4 Appurtenances Inside the Tank or Vessel

3.4.1 The standard practices in Sections 3, 4, and 5 shall apply to any item to be installed inside a tank or vessel that is to be lined. Such appurtenances include, but are not limited to, agitators, anti-swirl baffles, outlet connections, gauging devices, vortex breakers, and internal piping.

3.4.2 If appurtenances inside the tank or vessel, including nuts and bolts, cannot be lined, they shall be made of corrosion-resistant materials. (CAUTION: See Paragraph 3.3.2.1.)

3.4.3 If bolted connections are necessary and cannot be made of corrosion-resistant materials, the mating surfaces shall be lined before assembly. Gaskets shall be used on mating surfaces and the sealing surfaces of nuts and bolts to protect the lining.

3.4.4 Dissimilar metals shall be electrically isolated from the steel tank or vessel surface whenever possible. Where dissimilar metals are used, selection shall be such that the galvanic effect is minimized. Other corrosion mitigation methods may be required (see Figure A8, Appendix A).

3.4.5 Heating elements shall be offset from the tank or vessel surface to provide access for surface preparation, application, inspection, and cleaning. Elements shall be positioned so as not to damage the lining system.

3.5 Structural Reinforcement Members

3.5.1 Structural support members should be installed on the exterior of the tank or vessel. However, if such members are installed internally, they shall be fabricated of simple shapes such as smooth, round bars or pipe for ease of applying the lining material.

3.5.2 The use of internal flanged connections, stiffening rings, reinforcement pads, angles, channels, I-beams, and other complex shapes should be avoided. If they must be installed internally, these members shall be fully welded and welds and sharp edges ground to a radius of at least 3.2 mm (0.13 in.) or as agreed between the tank or vessel fabricator, tank or vessel owner, and lining applicator (see Figures A1 and A6, Appendix A).

3.6 Heat Sinks

3.6.1 Heated, forced curing of lining systems is often preferred if not specifically required. During tank or vessel design and fabrication, especially with field-erected units, consideration must be given to avoiding or minimizing heat sink areas. Such areas might include opposite saddles or support lugs, flat bottoms on foundations, and stiffening rings.

3.6.2 These situations may be addressed either by tank or vessel design or by construction or insulation of the foundation or supports. Another possible solution is the use of temporary constructions, such as false floors or temporary shelters, to achieve uniform heating and curing.

Section 4: Fabrication Practices

4.1 All design practices in Section 3 shall apply to all fabrication.

4.2 All welding shall be continuous. Intermittent or spot welding shall not be allowed.

4.3 Fillets and corners must be accessible for grinding.

4.4 Field tanks fabricated for use with high-heat-cured linings (e.g., unmodified phenol formaldehyde thermosetting linings) should have bottoms suitably insulated and installed on properly drained foundations to facilitate proper cure of the lining on the floor of the tank. Because the sand-filled earthen foundation, concrete pad, or other similar foundation is a poor insulator, some means must be considered prior to the application of the lining either to override the heat sink or to distribute the heat uniformly. This may be accomplished in several ways:

(a) with the use of properly sized heaters;

(b) by placing the tank on a concrete pad topped with a 100-mm (4-in.) layer of vermiculite concrete;

(c) by insulating with a high-compressive-strength structural grade insulation between the tank bottom and foundation;

(d) by installing an internal temporary false bottom approximately 1.5 m (5.0 ft) above the floor of the tank prior to the final high-temperature bake; or

(e) by other suitable means that practically and effectively ensure a properly cured lining on the tank floor.

Section 5: Surface Finish Practices

5.1 Sharp edges shall be ground to a smooth radius of at least 3.2 mm (0.13 in.) or as agreed between the tank or vessel fabricator, tank or vessel owner, and lining applicator.

5.2 Tank and vessel internal surfaces to be lined shall not be marred by gouges, handling marks, deep scratches, metal stamp marks, slivered steel, or other surface flaws. Flaws shall be repaired by welding or grinding, as appropriate.

5.2.1 Limits on surface flaw depth and geometry shall be set by agreement between the tank or vessel fabricator, tank or vessel owner, and lining applicator.

5.2.2 All restorative welding shall be performed according to applicable tank or vessel design codes, approved job-specific procedures, or both.

5.3 All rough welds shall be ground to remove sharp edges and other such irregularities (see Figure A2, Appendix A). Chipping may be used to remove sharp edges if followed by grinding. See Appendix C for written and graphic descriptions of five degrees of surface finishing of welds that may be specified preparatory to the lining of tanks and vessels.

5.3.1 The amount of grinding performed shall be judicious and performed only to the extent necessary to prepare the weld surface and surrounding metal surfaces in accordance with the specification. Over-grinding, which would result in decreasing the wall thickness or the integrity of the weld beyond the limitations imposed by good welding practices, applicable welding codes, or tank or vessel ratings, shall be avoided.

5.4 Automatic machine welds may be acceptable as dictated by the specifications for film continuity.

5.5 All weld spatter and arc strikes must be removed. Chipping may be used if followed by grinding or the use of an abrasive disc.

5.6 If an anti-spatter material is applied adjacent to the weld area prior to welding, the anti-spatter material shall be one that is readily removable. Anti-spatter materials shall be removed prior to abrasive blasting.

5.7 When checking weld continuity, the tank or vessel fabricator shall avoid the use of oils, lubricants, or other foreign materials that would leave a contaminating residue not easily removed by abrasive blasting.

5.8 Surfaces shall be cleaned and decontaminated as required by the governing lining application specification(s).

Bibliography

API[7] Standard 650 (latest revision). "Welded Steel Tanks for Oil Storage." Washington, D.C.: American Petroleum Institute (API).

API RP 652 (latest revision). "Lining of Aboveground Petroleum Storage Tank Bottoms." Washington, D.C.: API.

ASME[8] Boiler and Pressure Vessel Code (latest revision). New York, NY: ASME.

Directive 97/23/EC (latest revision). "Pressure Equipment Directive (PED)." Brussels, Belgium: European Commission.[9]

NACE Standard SP0294 (latest revision). "Design, Fabrication, and Inspection of Storage Tank Systems for Concentrated Fresh and Process Sulfuric Acid and Oleum at Ambient Temperatures." Houston, TX: NACE.

[7] American Petroleum Institute (API), 1220 L Street, NW, Washington, D.C. 20005-4070.
[8] ASME International (ASME), Three Park Avenue, New York, NY 10016-5990.
[9] European Commission (EC), Rue de la Loi 200, B-1049 Brussels, Belgium.

APPENDIX A:
Illustrations of Design, Fabrication, and Surface Finish Practices for Metal Tanks and Vessels to Be Lined for Immersion Service

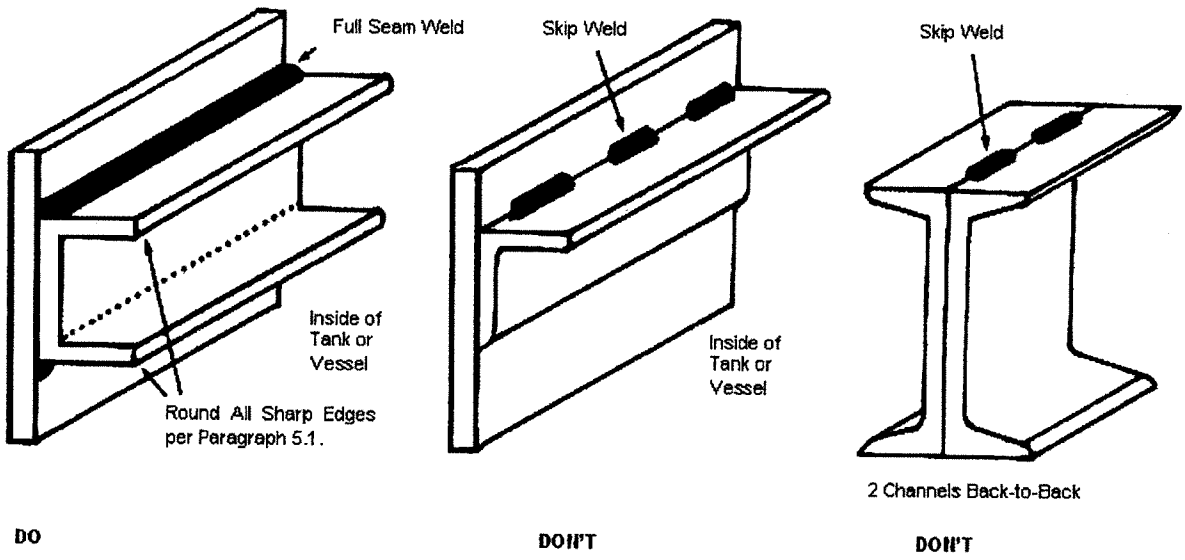


FIGURE A1

All construction involving pockets or crevices that do not drain or that cannot be properly abrasive blasted and lined shall be avoided.

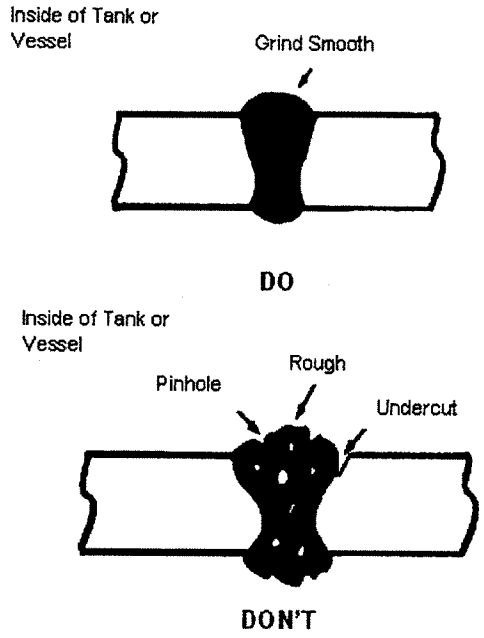


FIGURE A2
All joints shall be continuous full-penetration porosity-free welds. In tanks and vessels that require a 100% holiday-free lining, all welds must be smooth with no holes, high spots, lumps, or pockets. Grinding is required to eliminate sharp edges and high spots. Weld metal shall be used to fill in undercut or pits.

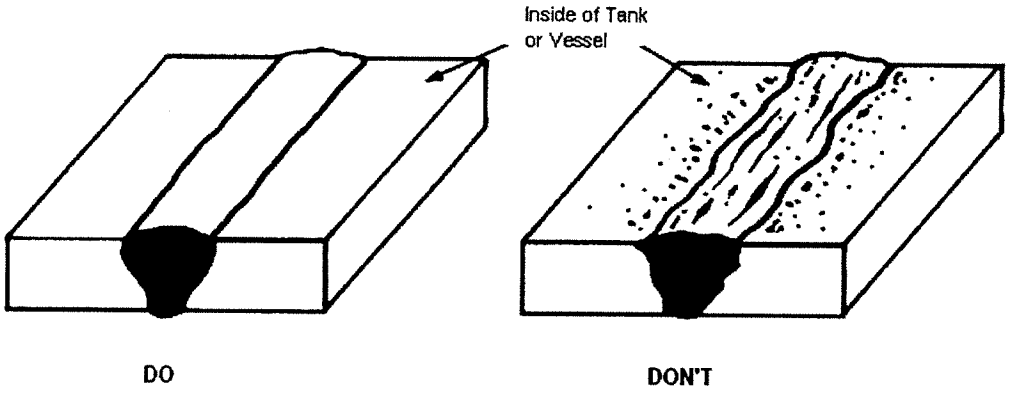


FIGURE A3
All weld spatter shall be removed.

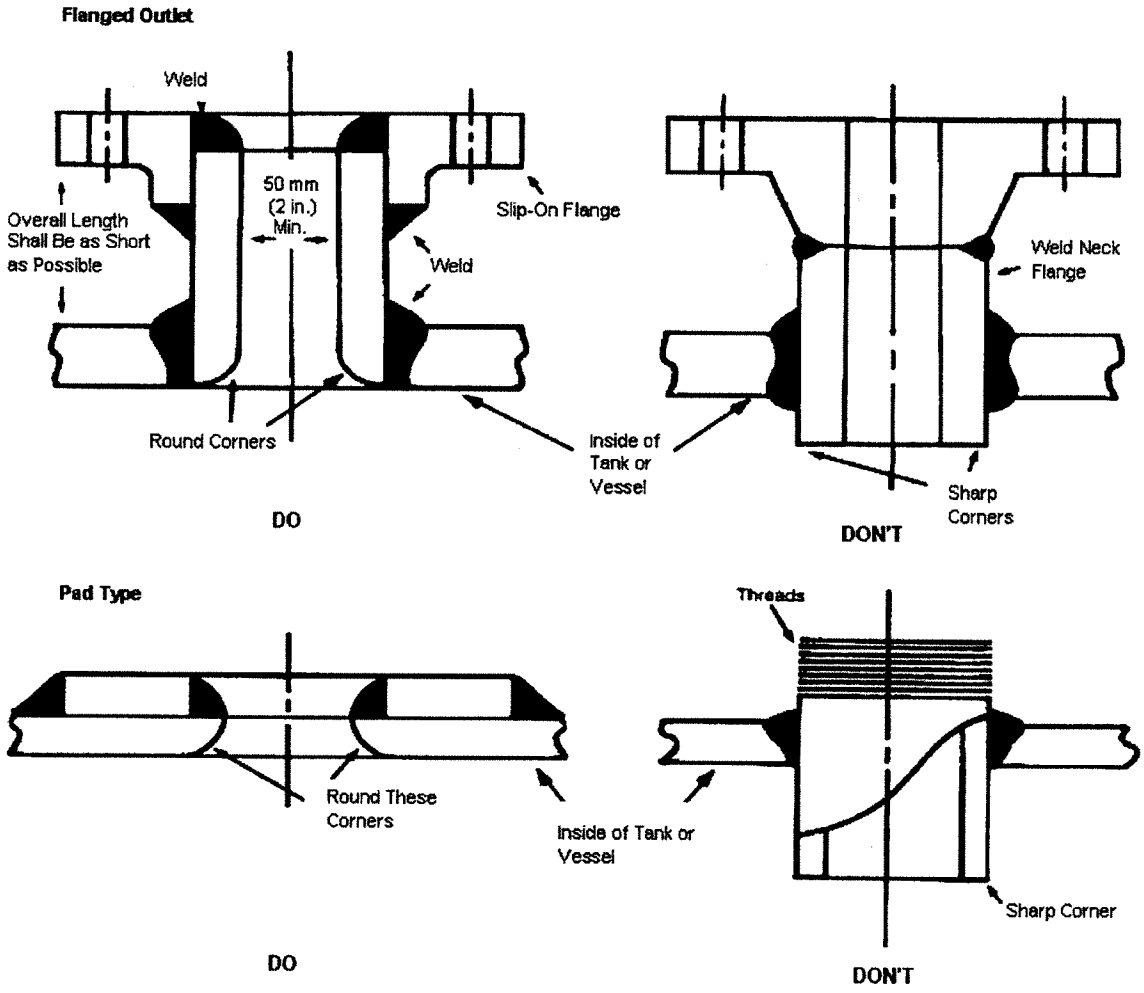


FIGURE A4

The outlets shall be flanged or pad-type rather than threaded. Within pressure limitations, slip-on flanges are preferred because the inside surface of the attaching weld is readily available for rounding edges and grinding. If operating pressure dictates the use of weld neck flanges, the inside surface of the attaching weld is in the throat of the nozzle, making repair of surface irregularities by grinding rather difficult.

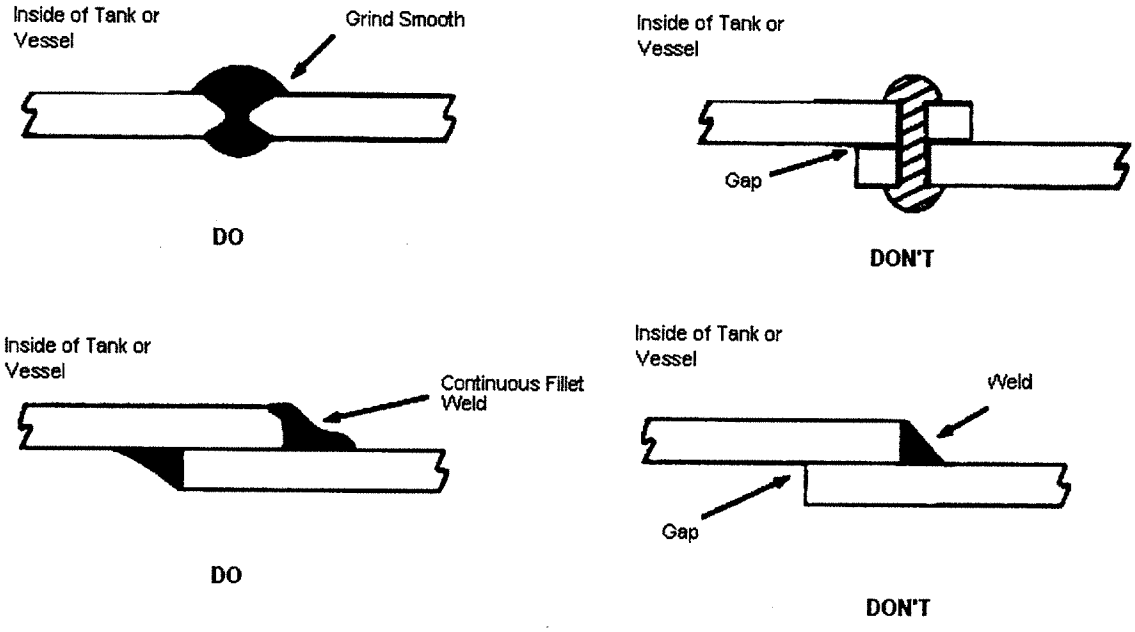


FIGURE A5
Butt welding shall be used whenever possible rather than lap welding or riveted construction.

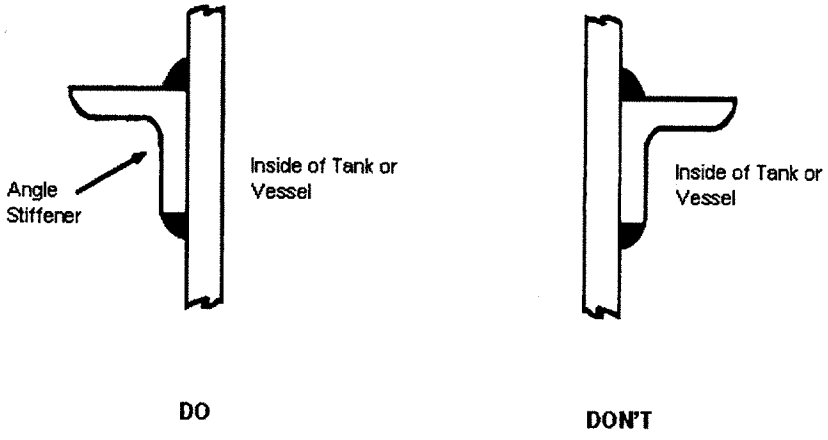


FIGURE A6
Stiffening members should be on the outside of the tank or vessel.

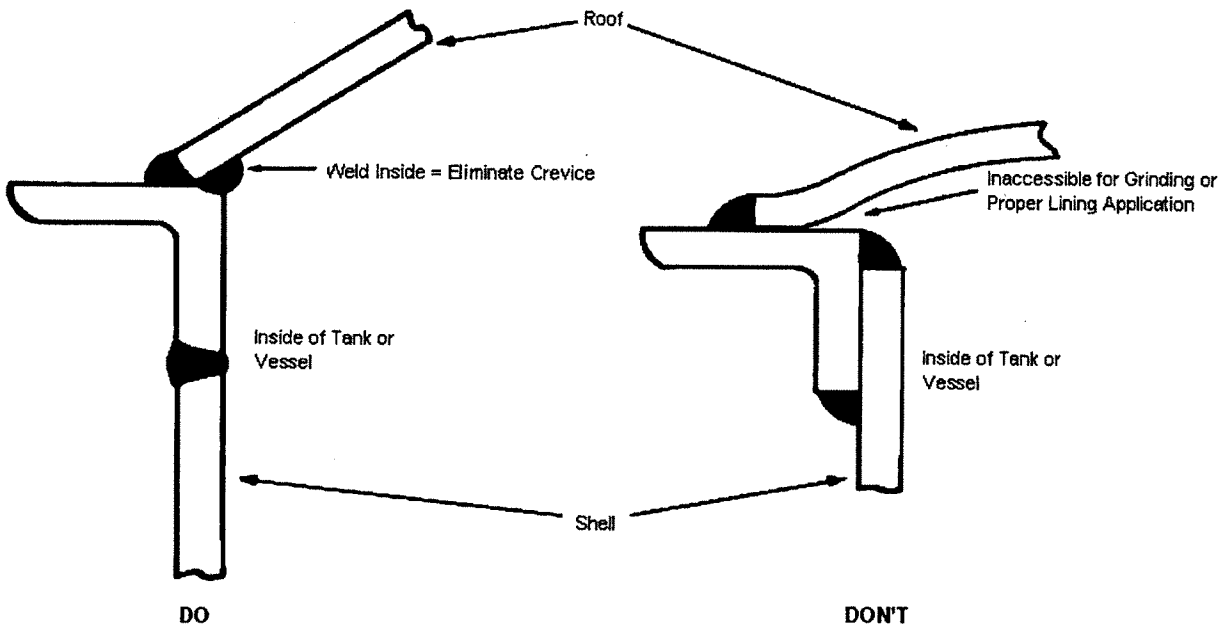


FIGURE A7
Roof-to-Shell Joint. Eliminate crevice and lap weld at roof-to-shell joint in a tank or nonpressure vessel.

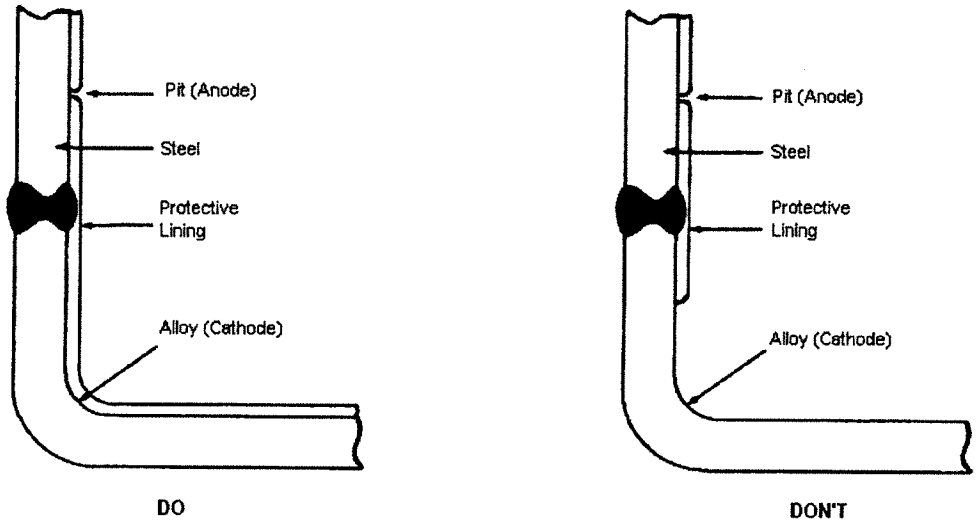


FIGURE A8
Dissimilar metal (galvanic) corrosion occurs when, for example, an alloy is used to replace the steel bottom of a tank, or, in a similar circumstance, when alloy appurtenances must be a part of the construction of a vessel. If a lining is then applied to the steel and part of the alloy (usually 150 to 610 mm [5.9 to 24 in.]), any discontinuity in the lining exposes a small anode surface. Once corrosion starts, it progresses rapidly because of the large exposed alloy cathodic area to the much smaller anodic area. Without the lining, galvanic corrosion causes the steel to corrode at the weld area, but at a much slower rate. The recommended practice is to apply lining to all of the alloy as well as the steel, thereby eliminating the possible occurrence of a large-cathode-to small-anode surface.

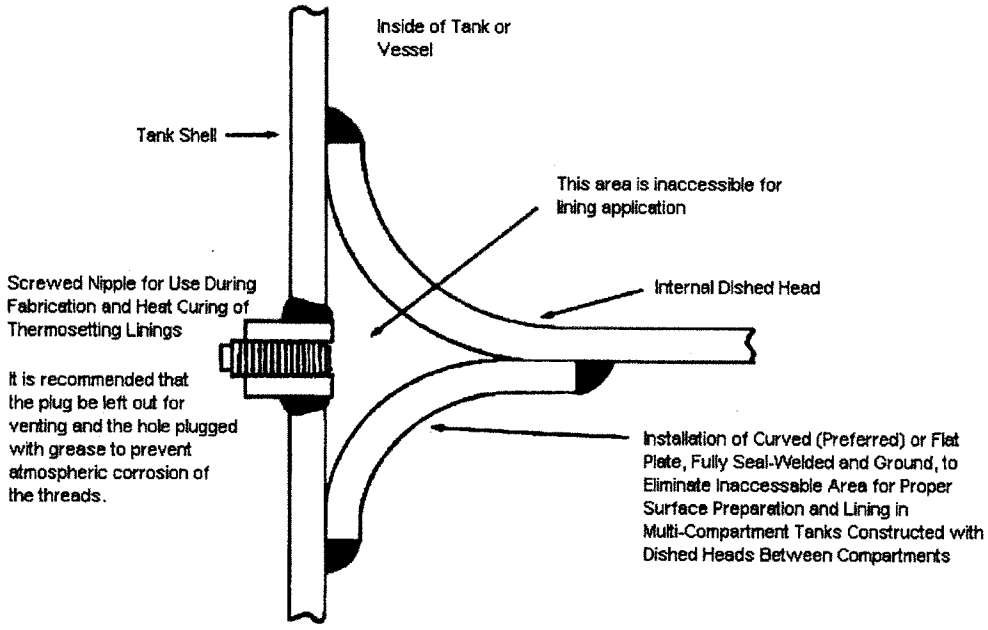


FIGURE A9

A technique (detail of fabrication) to allow for good continuity of lining application for inaccessible areas such as those in multicompartment tanks or vessels.

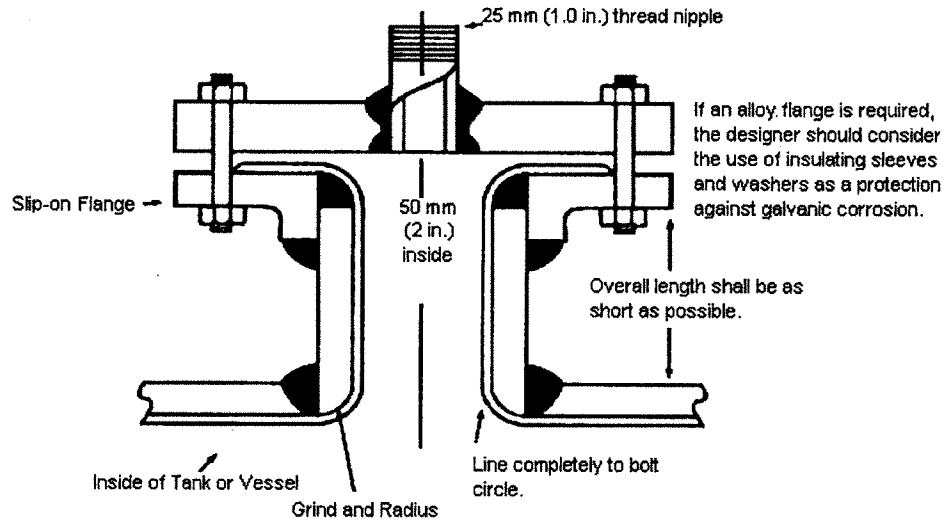


FIGURE A10

Minimum 50-mm (2-in.) diameter nozzle required for most thin-film linings. Thicker-film linings may require a larger-diameter nozzle. This diagram also illustrates fabrication practice where a threaded connection is required in a tank or vessel that requires a holiday-free lining.

APPENDIX B: Recommended Responsibilities

This appendix is a list of recommended responsibilities that should be assigned to the purchaser, designer, fabricator, lining applicator, and inspector in order to obtain a properly designed and fabricated tank or vessel for interior lining.

B1.1 Joint Responsibilities

B1.1.1 The purchaser, designer, fabricator, lining applicator, and inspector(s) should review and agree to the requirements involved before contractual agreements are made.

B1.1.2 The purchaser, in agreement with the fabricator and lining applicator, should assign responsibility for inspection of fabrication, surface finish, and lining application, and such responsibility should be defined in all contracts.

B1.2 Responsibilities of the Purchaser (Owner or User)

B1.2.1 The purchaser should be responsible for specifying and/or approving the detail requirements for design, fabrication, and surface finish to all parties concerned.

B1.2.1.1 The detailed requirements should be fully described in writing and include drawings of the tank or vessel to be fabricated and lined and service requirements.

B1.2.1.2 The purchaser should advise the designer, fabricator, lining applicator, and all inspectors of the detailed requirements, including time schedules, inspection, and acceptable requirements, in writing.

B1.3 Responsibilities of the Designer

B1.3.1 The designer should be responsible for including the required fabrication and surface details on all sketches and drawings related to the tank or vessel.

B1.4 Responsibilities of the Fabricator

B1.4.1 The fabricator should be responsible for adhering to the fabrication and surface finish details shown on the working drawings and described in the tank or vessel specifications.

B1.4.2 Responsibility for an inspection of the blast or any additional welding, grinding, or surface finishing that may be revealed by the surface preparation for lining, plus any subsequent reblasting, should be defined in the lining contract.

B1.4.3 The fabricator, when checking the quality of the weld, should use only those materials that can be readily and thoroughly removed by the fabricator after completion of the inspection procedure.

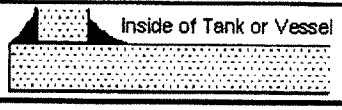
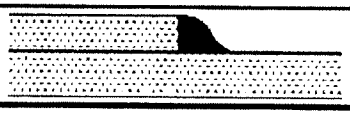
B1.5 Responsibilities of the Lining Applicator

B1.5.1 Responsibility for additional welding, grinding, or surface finishing that may be revealed by the surface preparation for lining, plus any subsequent reblasting, should be defined in the lining contract.

B1.6 Responsibilities of the Inspector(s)

B1.6.1 A qualified inspector whose qualifications and affiliation are acceptable to all parties should be responsible for the verification of fulfillment of design, fabrication, and surface finish requirements.

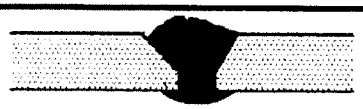
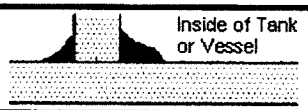
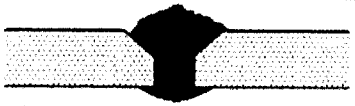
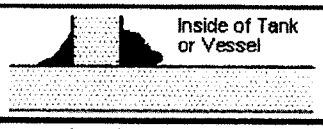
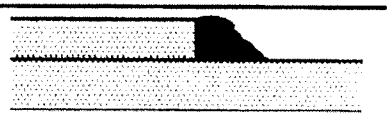
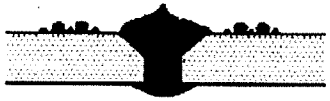
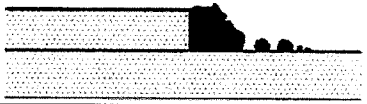
Appendix C—Written and Graphic Descriptions of Various Degrees of Surface Finishing of Welds That May Be Specified in Preparation for Lining of Tanks and Vessels [A]

NACE Weld Preparation Designation	Type of Grinding	Butt Weld	Fillet Welded Tee Joint	Lap Weld
A	Ground flush and smooth; free of all defects.[B]	Weld spatter is removed and all surface imperfections are repaired as necessary. The weld is ground flush with the plate surface.	Not Applicable	Not Applicable
			Not Applicable	Not Applicable
B	Ground flush	Minor imperfections such as porosity and undercutting exist. The weld is ground flush with the plate surface.	Not Applicable	Not Applicable
			Not Applicable	Not Applicable
C	Ground smooth; free of all defects.[B]	Weld spatter is removed and all surface imperfections are repaired as necessary. The weld is ground smooth and blended into the plate surfaces.	Weld spatter is removed and all surface imperfections are repaired as necessary. The weld is ground smooth and blended into the plate surfaces.	Fillet weld between the two plates. Weld spatter is removed and all surface imperfections are repaired as necessary. The weld is ground smooth and blended into the plate surfaces.
				

[A] The written descriptions of the various degrees of surface preparation of welds in the appendices of this standard take precedence over the graphics and the companion visual comparator. The graphics are only pictorial representations of welds and grinding finishes and are not intended to be representative of the integrity of the welds. The "weld condition prior to finishing" is not a typical weld; it is only intended to illustrate defects in welds that must be corrected prior to lining. Good welding practices and welding codes govern the integrity of the tank and vessel welds; this standard only addresses surface preparation of the welds for the purpose of lining the tank or vessel for immersion service.

The visual comparator mentioned in Appendix C is a molded plastic replica that illustrates various degrees of surface finishing for welds prior to coating or lining. Full-seam welds, skip welds, butt welds, lap welds, and others are depicted. For more information, contact the NACE International FirstService Department, 1440 South Creek Dr., Houston, Texas 77084-4906 (telephone +1 281/228-6200).

Appendix C (Continued)[1]

NACE Weld Preparation Design	Type of Grinding	Butt Weld	Fillet Welded Tee Joint	Lap Weld
D	Ground smooth and blended.[2]	Minor imperfections such as porosity and undercutting exist. Weld spatter is removed; welds are then ground smooth and blended into the plate surfaces.	Minor imperfections such as porosity and undercutting exist. Weld spatter is removed; welds are then ground smooth and blended into the plate surfaces.	Minor imperfections such as porosity and undercutting exist. Weld spatter is removed; welds are then ground smooth and blended into the plate surfaces.
				
E	Minimal	Sharp projections on the weld bead, slag, and weld spatter are removed.	Sharp projections on the weld bead, slag, and weld spatter are removed.	Sharp projections on the weld bead, slag, and weld spatter are removed.
				
Weld Condition Prior to Finishing				

[1] The written descriptions of the various degrees of surface preparation of welds in the appendix of this standard take precedence over the graphics and the companion visual comparator. The graphics are only pictorial representations of the welds and grinding finishes and are not intended to be representative of the integrity of the welds. The "as is" original weld is not a typical weld; it is only intended to illustrate defects in welds that must be corrected prior to coating and lining. Good welding practices and welding codes govern the integrity of the weld; this standard only addresses surface preparation of the welds for the purpose of coating and lining for immersion service.

[2] Abrasive blasting in preparation for coating may reveal additional porosity and undercutting. Some applicators request the fabrication to blast the welds to reveal these imperfections prior to requesting inspection of the grinding by the lining applicator. Responsibility for repair of imperfections so revealed should be resolved in the pre-job conference.

The visual comparator mentioned in Appendix C is a molded plastic replica that illustrates various degrees of surface finishing for welds prior to coating or lining. Full-seam welds, skip welds, butt welds, lap welds, and others are depicted. For more information, contact the NACE International FirstService Department, 1440 South Creek Dr., Houston, Texas 77084-4906 (telephone +1 281/228-6200).

ISBN 1-57590-167-6
NACE International

APPENDIX D

INSPECTION & EVALUATION METHODS

1.0|INSPECTION AND EVALUATION METHODS

Some or all of the following procedures were performed as applicable.

1.1|Methods

1.1.1 The inspection of the base metal and coatings on interior and exterior surfaces included only areas accessible without scaffolding or special rigging. Where possible, the base metal and coating on the interior wet surfaces were examined from either a rubber raft while the tank was being drained, by a Remote Operated Vehicle (ROV) with the tower in service, or with both.

1.1.2 Tank plate thickness was measured at random locations on the liquid holding shell. The overall structural condition of the tank was visually examined.

1.1.3 No structural analysis was done to determine if the tank design complies with the AWWA D100-11 Standard for "Welded Carbon Steel Tanks for Water Storage." However, any observed non-conformance to the AWWA D100-11 standard is noted in this report.

1.1.4 Although compliance with OSHA regulations was not a part of this inspection, any unsafe conditions or violations of current OSHA regulation that were observed are noted in this report.

1.2|Examination and Evaluation Techniques

Some or all of the following procedures were performed as applicable.

1.2.1|Site

The tank site was evaluated for proper drainage conditions affecting access and lead paint abatement during reconditioning.

Also, the following site dimensions were obtained: distance to fence(s), power lines, owner buildings, public property, private property/buildings, school/playgrounds, public parks, and other property.

1.2.2|Foundations

The tank concrete foundation(s) were/was visually examined for cracks, spalling, conditions of grout, indications of distress/settlement, and elevation above grade.

1.2.3|Tank Plate Thickness

Plate thickness measurements were taken using ultrasonic methods (UTM). The readings were taken using a digital readout Nova D-100 Ultrasonic Thickness Gage that has a dual element probe (transducer). The probe's transmitter element sends a short ultrasonic pulse to the material. The pulse, reflected as an echo from the opposite side of the plate

returns to the probe's receiver element. The round-trip time is directly related to the material's thickness.

1.2.4|Coating Thickness

Interior and exterior coatings, where accessible, were tested in accordance with Steel Structures Painting Council SSPC-PA2-82 "Measurement of Dry Film Thickness with Magnetic Gages" using PosiTector-6000-F1 Type 2 magnet flux gages with a fixed probe.

1.2.5|Coating Adhesion

Adhesion testing of the coating to the steel was performed by ASTM D-3359: Shear Adhesion Test, Measuring Adhesion by Tape Test. In addition, subjective coating adhesion evaluation was performed using a penknife.

1.2.6|Coating Cure

The cure of the interior wet coating was evaluated by ASTM D-5402-93 Standard Practice for Assessing the Solvent Resistance of Organic Coatings Using Solvent Rubs and/or with the manufacturer's recommended field method/industry standard procedures.

1.2.7|Coating Serviceability

The estimated remaining coating life or serviceability evaluation was performed using a wide variety of inspection instruments such as dry film thickness gauge, pen knife, Tooke gauge, adhesion tester(s), 30x microscope and serviceability evaluation experience (minimum experience 10 years).

The instrument inspection was combined with a close visual inspection of all the interior coating's accessible areas. This was done to detect any holidays (misses), skips, runs, sags, surface containments, overspray, dry spray, poor coating cohesion, inter-coat delamination, loss of adhesion to the substrate, adverse conditions of the steel underneath the coating, or any other defects affecting the intended service.

1.2.8|Coating Lead and Chromium Content Analysis

Samples may have been taken of the various types of coatings present on the interior and exterior surfaces. Corrosion Control Consultants and Labs of Kentwood, Michigan tests these coatings in conformance with ASTM D-3335 Standard Test Methods for Concentrations of Lead and Chromium in Paint.

CITY OF ABBOTSFORD, WISCONSIN

June 2020

188,000 Gallon Capacity Raw Water Standpipe

Ground Storage Reservoir Inspection Report

KLM Engineering Inc.
WATER TOWER SPECIALISTS

KLM Project
MN4125

1976 Wooddale Drive, Suite 4 | Woodbury, MN 55125
(651) 773-5111 | Fax (651) 773-5222

Table of Contents

1.0|PROJECT INFORMATION 2

2.0|EXECUTIVE SUMMARY 3
2.1|Structural Examination Summary 3
2.2|Coating Evaluation Summary 3
2.3|Repair and Reconditioning Cost Estimate 4
2.4|Remaining Reservoir Life 4

3.0|RECOMMENDATIONS 5
3.1|Interior Wet Structural 5
3.2|Interior Wet Coating 5
3.3|Cathodic Protection System (C.P.) 5
3.4|Exterior Structural 5
3.5|Exterior Dry Coating 6
3.6|Site and Environmental Considerations 6
3.7|Telecommunications Considerations 6

4.0|REPAIR AND RECONDITIONING OVERVIEW 7

APPENDIX A: Photographs

APPENDIX B: Drawings

APPENDIX C: Surface Preparation Requirement

APPENDIX D: Inspection and Evaluation Methods

APPENDIX E: Paint Chip Lead and Chromium Test Results

1.0|PROJECT INFORMATION

KLM Project No.: MN4125 **Customer P. O. Number:** NA

Tank Owner: City of Abbotsford, Wisconsin **Phone:** 715-613-2973 (cell)

Street/City/State/Zip: PO Box 58, 203 North First Street, Abbotsford, WI 54405

Tank Owner Contact: Josh Soyk, Water and Wastewater Supervisor

Owner's Tank Designation: Raw Water Standpipe

Tank Description: Riveted Standpipe

Tank Street Location: North 2nd Avenue and North 1st Avenue (near a church) Abbotsford, WI 54405

Purpose of Inspection: Condition Assessment

Date of Inspection: June 11, 2020

Inspected By: Devin Severson, NACE #78234 and Cory Anderson, NACE #78280

Type of Inspection: KLM Standard ROV Evaluation

Manufacturer: Chicago Bridge and Iron **Construction Date:** ~1903

Serial No.: N/A **Design Code:** Unknown

Capacity: 188,000-Gallons

Type of Construction: Riveted shell, bolted roof with some welding

Number and Size of Columns or Pilasters: None

Tank Diameter: 20-Feet

Height to: Overall ~86-Feet

Height to: HWL 82-Feet LWL 1-Foot

Type of Access to Tank Interior: Exterior ladder to roof manway

Tank Construction Drawings: None available

Previous Inspection Records: SHE 2015 Report (coating information below is from this report)

EXISTING COATING INFORMATION

	Interior Wet	Exterior
Date Last Coated	1992	1992
Full or Spot Repair	Full	Bottom 5 courses full Remaining partial
Coating Contractor	Unknown	Unknown
Surface Preparation	Unknown	Unknown
Paint System	Epoxy	Alkyd
Paint Manufacturer	Unknown	Unknown
Lab Lead Test Paint Chips	Taken	Taken

City of Abbotsford, Wisconsin

188,000 GALLON CAPACITY
RAW WATER STANDPIPE

2.0|EXECUTIVE SUMMARY

The reservoir was evaluated on the interior and exterior in conformance with the following:

a. KLM Engineering, Inc. Proposal.

b. General guidelines of AWWA Manual M42 Appendix C "Inspecting and Repairing Steel Water Tanks, and Elevated Tanks for Water Storage."

c. KLM "Procedures and Guidelines for Inspecting Existing Steel and Concrete Water Storage Tanks."

d. Appendix D Inspection and Evaluation Methods.

2.1|Structural Examination Summary

Based on the inspection data, it appears that some miscellaneous structural modifications and repairs are required. These modifications and repairs serve to bring the reservoir into compliance with OSHA regulations, AWWA standards, as well as allow for better coating bonding, allow for safer access in and on the reservoir and, in some cases, removing unnecessary items.

2.2|Coating Evaluation Summary

2.2.1|Lead and Chromium Content Analysis

The total lead and chromium content of the interior and exterior coatings was analyzed. The results in Appendix E show a Below Reporting Limit (<RL) lead content for the interior wet coating and a 0.78 to 4.5 percent lead content for the exterior coating. Current State regulations classify the exterior coatings as lead based paint and the interior coating is not classified as lead based paint. Removal of lead based paint must be performed in accordance with applicable local, state and Federal regulations. Reconditioning specifications must include provisions for full containment as well as provisions to prevent hazardous waste generation. Chromium levels in the test samples indicate levels from 0.47 to 0.68 percent chromium. Levels over 0.50 percent chromium could possibly pose problems in the waste streams during rehabilitation. Further testing may be required to ensure satisfactory TCLP testing and the generation of non-hazardous waste.

2.2.2|Interior Wet Coating

The reservoir was originally constructed in 1903 by Chicago Bridge and Iron. The original roof was likely wood. The wood roof was replaced with a conical bolted steel roof probably in the 1930's. It appears modifications to the roof have occurred once or twice since then. Owner's records indicate the interior coating was last replaced in 1992 by an unknown contractor. The interior wet coating is in fair to good condition above the High-Water Line (HWL) with approximately ten (10) percent visible coating failures. Failures consist of corrosion at overlap seams and random corrosion areas on the roof support framing. The original rim angle at the top of the upper shell course is badly corroded throughout. The coating below the HWL is in poor condition with well over 50 percent visible coating failures with widespread corrosion and bare steel. To stop

the advanced corrosion, it is recommended to recoat the interior wet area within one (1) year. See photos in Appendix A.

2.2.3|Exterior Coating

According to the owner's records, the exterior of the tower lowest five (5) courses were recoated and the remaining seven (7) courses were spot repaired by an unknown contractor in 1992. The coating is in poor condition, with between 40 and 50 percent coating failures on the bottom eight (8) courses. The remaining four (4) courses and roof are in fair to poor condition with between fifteen (15) and twenty (20) percent coating failures. The coating failures consist mainly of coating deterioration with exposed steel throughout the standpipe. To stop the advanced corrosion, it is recommended to recoat the exterior area within one (1) year at the same time as the interior wet area. See photos in Appendix A.

It is more cost effective to remove the exterior and the interior coating at the same time.

2.3|Repair and Reconditioning Cost Estimate

The costs for structural repairs, replacing the interior and exterior coatings (including the containment and removal of the lead base paint) are noted below in two (2) options. Due to the nature and design of the existing roof not being capable of supporting a traditional containment system, the estimate below includes a containment system built of scaffolding. These estimates are based on current pricing and do not include costs for engineering and/or inspection services. For up-to-date competitive bids, the project should be bid 9 to 12 months before the scheduled starting date.

If not needed the City of Abbotsford may consider taking the standpipe out of service, but to keep the standpipe as a landmark, there are two (2) options.

Option one (1) would consist of performing the recommended structural repairs, sweep blasting the interior wet area and applying two (2) coats of a Tnemec epoxy mastic to stop the interior corrosion, aggressively power wash the exterior and apply a Tnemec 118 Series 30 overcoat at an estimated cost between $140,000 and $160,000 and should provide a life expectancy of eight (8) to ten (10) years. *This option is to be considered only if the standpipe is not being placed back into service as the recommended mastic is not NSF approved. If, at a later date, the City of Abbotsford elects to use the standpipe the mastic would need to be removed in its entirety and replaced with a NSF approved coating system.*

Option two (2) would consist of performing the recommended structural repairs and replace the interior and exterior coatings in their entirety with a zinc/epoxy system on the interior and a zinc/epoxy/urethane/fluoropolymer coating system on the exterior at an estimated cost between $350,000 and $375,000 and provide a life expectancy of over 20 years.

An experienced reservoir-coating contractor with proper crew and equipment should be able to complete option one (1) in seven (7) weeks and complete option two (2) in ten weeks. At the time of reconditioning, the tower will need to be drained and remain off-line during interior structural modifications, abrasive blasting and painting. However, most of the exterior structural modifications can be performed prior to draining, with the reservoir in-service.

2.4|Remaining Reservoir Life

Based on the inspection data, if the recommendations noted above are completed within the next one (1) year, the reservoir will be satisfactory for continued service provided that it is inspected regularly.

The reservoir and coating should first be inspected within the warranty period and every three (3) to five (5) years thereafter. A new interior and exterior coating, if applied and maintained properly, should last at least 20 years.

3.0|RECOMMENDATIONS

The photographs referred to in this section are in Appendix A. All drawings are found in Appendix B. The surface preparation requirements for all repairs as well as the requirements for welding are described in Appendix C. The exterior and interior paint chip lead tests are in Appendix E.

Based on an evaluation of the inspection data, the following are our recommendations:

3.1|Interior Wet Structural

3.1.1 In order to prevent rust streaks and corrosion, urethane or epoxy caulk the lapped roof plates to dollar plate connection. See photo 2.

3.1.2 The existing framing supporting at the top of the upper shell course supporting a center roof cone column is damaged and bent presumably from ice. Remove the center column and all the framing members, grind welds smooth. The roof and shell are structurally sound without the column and framing. See photos 2 through 6.

3.1.3 Seal weld the 16-inch length of roof plate to the shell plate. See photo 5.

3.1.4 Install two (2) bars on top of the fill pipe. This will hinder the entry of miscellaneous material and provide a safety measure. See photos 14 and 15.

3.1.5 Replace the gasket on the 12-inch by 18-inch oval shell manway. See photos 13 and 30.

3.2|Interior Wet Coating

3.2.1 The interior wet coating is in good to fair condition above the High-Water Line (HWL) with approximately ten (10) percent visible coating failures. Failures consist of corrosion at overlap seams and random corrosion areas on the roof support framing. The original rim angle at the top of the upper shell course is badly corroded throughout. The coating below the HWL is in poor condition with well over 50 percent visible coating failures with widespread corrosion and bare steel. To stop the advanced corrosion, it is recommended to recoat the interior wet area within one (1) year. See photos 2 through 16.

3.2.2 After structural repairs are completed, all the reservoir surfaces should be abrasive blasted to an SSPC-SP-10 Near White Metal Blast and coated with a light-colored zinc/polyamide epoxy system (similar to the Tnemec Series 91-H20 Hydro-Zinc/Series N140 Pota-Pox Plus Epoxy or equivalent Sherwin Williams coatings).

3.3|Cathodic Protection System (C.P.)

3.3.1 The reservoir does not have a Cathodic Protection system, and one is not required if the coating is applied and maintained properly.

3.4|Exterior Structural

3.4.1 Install a vent/finial with a 12-inch diameter aluminum pressure pallet style vent, similar to the one shown on KLM Drawing No. 8a at the peak of the roof. The new vent and vent screen design should meet AWWA D100-11 and local Health Department Regulations. Remove the existing center ladder support structure. The removable top will improve ventilation, provide access to the reservoir interior during reconditioning, and aid in compliance with OSHA Confined Space Entry Requirements. See photos 17, 18, and 20.

3.4.2 Install two (2) 24-inch round, hinged cover, roof ventilation manways; replace the existing manway and place the second manway approximately 180 degrees away. The existing manway curb height and cover

overlap do not meet the requirements of AWWA D100-11. The second manway will provide additional ventilation during the interior surface preparation and coating and the reservoir should comply with OSHA Confined Space Entry Requirements. Install latches and padlocks on both manways to prevent trespassing. See KLM Drawing No. 10a and photo 19.

3.4.3 Install a 10-feet diameter pipe style roof handrail conforming to OSHA regulations to enclose the roof manways and the finial vent. See photos 17 and 18 and reference KLM Drawing No. 17b. Install a non-skid walkway within the area of the new hand railing.

3.4.4 Replace the roof and access ladders with new OSHA compliant ladders with cable style safety climb devices. The current ladders do not meet OSHA regulations. See photos 17 and 18 and reference KLM Drawing Nos. 19 and 24.

3.4.5 Install a hinged, locking cover over the lower 8 feet of the ladder. This will restrict access by unauthorized personnel. Refer to photos 1 and 22 and KLM Drawing No. 20.

3.4.6 Remove the old level indicator bracket and sheave mounted to the shell just under the roof overhang and the brackets on the bottom shell course below the existing ladder. Patch to hole in the roof and grind the removed bracket welds smooth. See photo 23.

3.5|Exterior Dry Coating

3.5.1 The coating is in poor condition, with between 40 and 50 percent coating failures on the bottom eight (8) courses. The remaining four (4) courses and roof are in fair to poor condition with between fifteen (15) and twenty (20) percent coating failures. The coating failures consist mainly of coating deterioration with exposed steel throughout the standpipe. To stop the advanced corrosion, it is recommended to recoat the exterior area within one (1) year at the same time as the interior wet area. See photos 17 through 32.

3.5.2 After structural repairs are completed, all the reservoir surfaces should be abrasive blasted to an SSPC-SP-6 Commercial Blast Clean and coated with a zinc/epoxy/urethane/fluoropolymer system (similar to the Tnemec Series 91-H20 Hydro-Zinc/Series N140 Pota-Pox Plus Epoxy/Series 73 Endurashield/Series 701 Hydroflon or equivalent Sherwin Williams coatings).

3.6|Site and Environmental Considerations

1.1.1 The site includes the standpipe in an unfenced area surrounded by trees. The standpipe base is on an approximately 8-feet tall concrete pedestal. The 400,000 gallon single pedestal tank is nearby. The site is near St. Bernard Church and the surrounding area is private residences. There is a fire hydrant on the site.

3.6.1 In conformance with Wisconsin state rules, an analysis has been performed to determine the methods of pollution control required for this storage structure during reconditioning. To maintain air quality and to prevent the drift of dust and fugitive emissions, full containment will be required, including impervious ground cover, a top cover or bonnet and negative air dust collection.

3.7|Telecommunications Considerations

3.7.1 The reservoir has no telecommunications equipment, either antennas or other associated equipment. Antennas generally have the effect of dramatically increasing the cost of reconditioning water storage reservoirs. If the owner is considering allowing antennas to be installed on the reservoir, lease agreements should be written to ensure the antenna owners are responsible for increase maintenance costs due to their presence. Installations should be reviewed to ensure that they do not interfere with normal use or maintenance of the tower, present safety hazards, or violate state or federal regulations.

4.0|REPAIR AND RECONDITIONING OVERVIEW

KLM recommends repairs be completed within one (1) year to mitigate the advancement of corrosion. Refer to Section 2.3 for reconditioning options.

KLM ENGINEERING, INC.

Report prepared by:

Jerry J. Tell, P.E.
Manager of Engineering
MN License No. 15524

Benjamin Feldman, P.E.
Civil Engineer
MN License No. 49598

Report reviewed and certified by:

Rodney Ellis
Vice President/COO
NACE Certified Coatings Inspector No. 1686
AWS/CWI 04040311

June 22, 2020

P:\2020\2020 Evaluations And Photos\Abbotsford, WI MN4125 0.188MG Standpipe\Abbotsford, WI MN4125 Raw Water Standpipe FINAL.Docx

APPENDIX A

PHOTOGRAPHS

Photo No. 1

Photo No. 2
Overall condition of the roof

Photo No. 3
Center post at the top of the roof cone

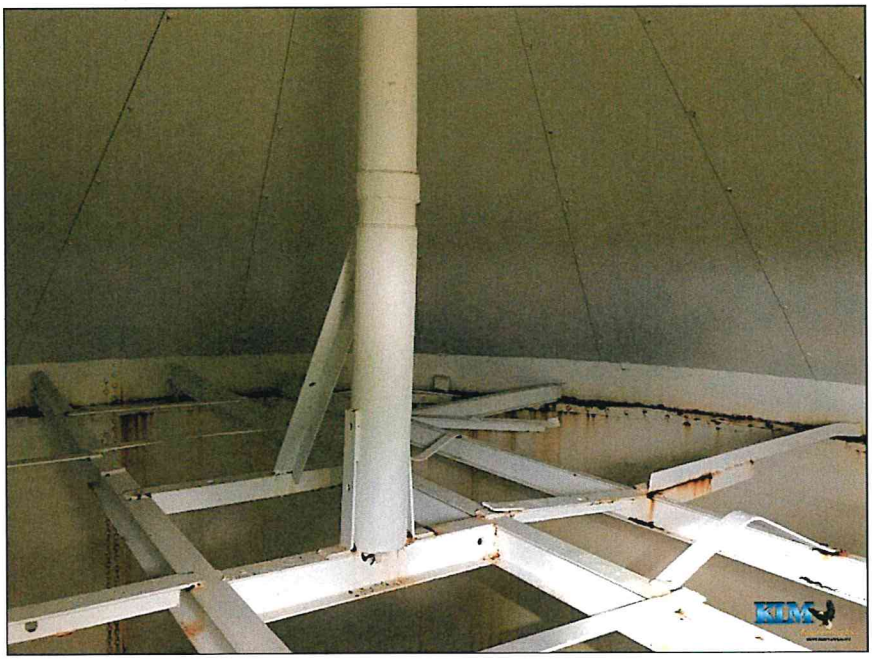


Photo No. 4
Condition of the roof plates and framing at the top of the shell

Photo No. 5
Condition of the lower roof with an unwelded roof panel, sill angle corrosion and the overflow pipe inlet

Photo No. 6
Condition of the roof to shell connection and bent top of shell framing

Photo No. 7
Condition of the upper shell courses

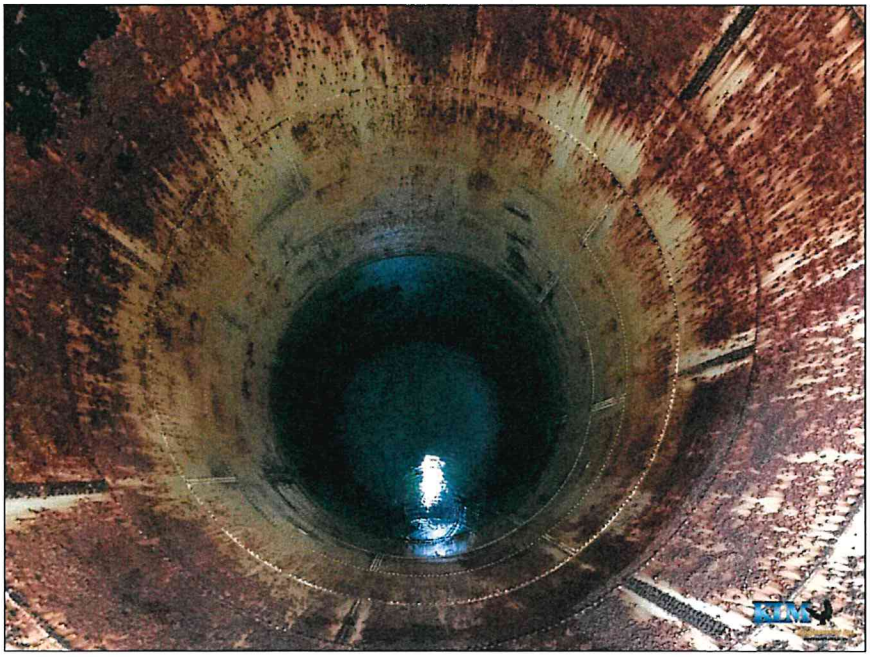


Photo No. 8
Overall view and condition of the mid shell courses

Photo No. 9
Condition of the mid shell courses with advance corrosion

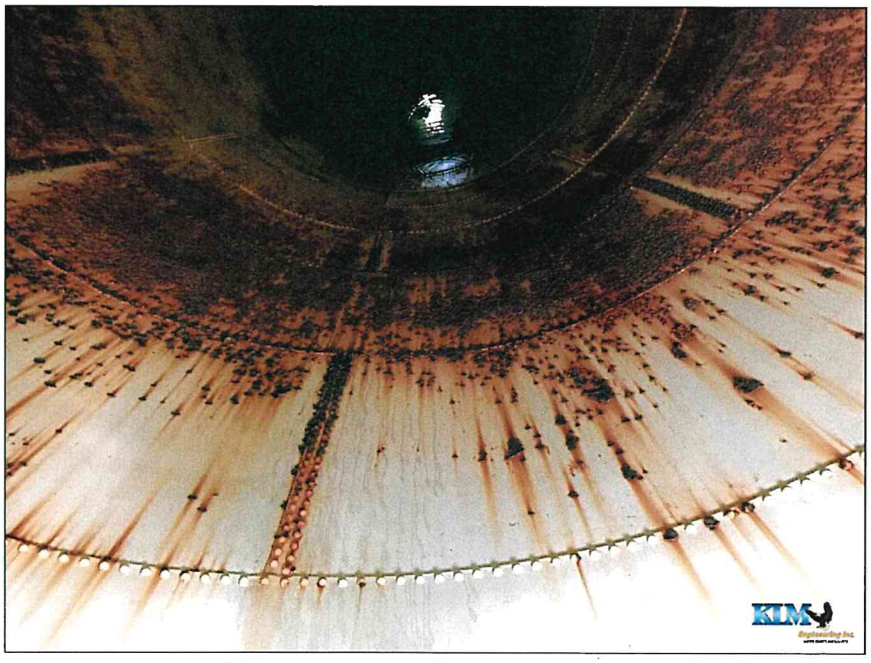


Photo No. 10
Shell corrosion

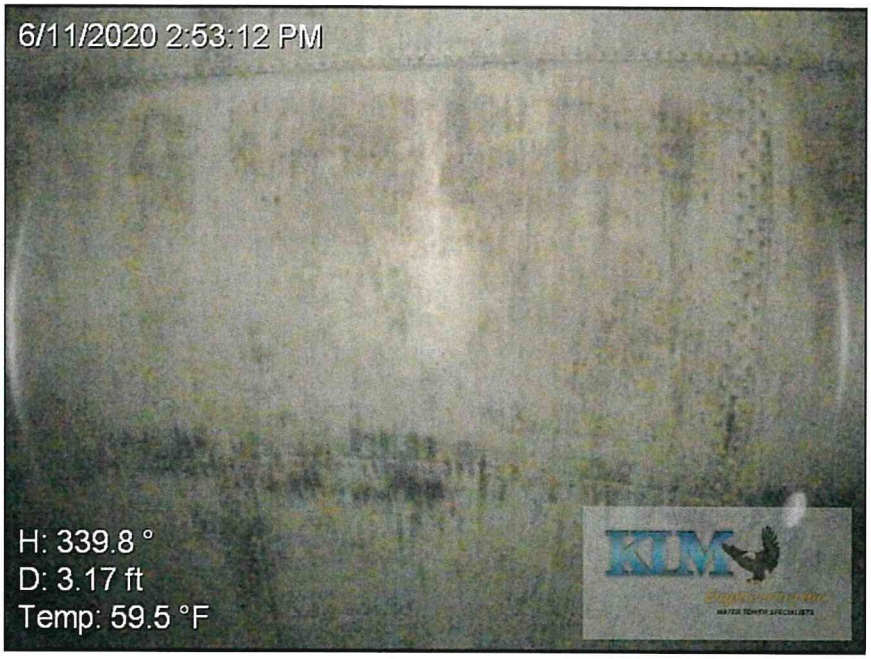


Photo No. 11
Lower shell condition below the current water line

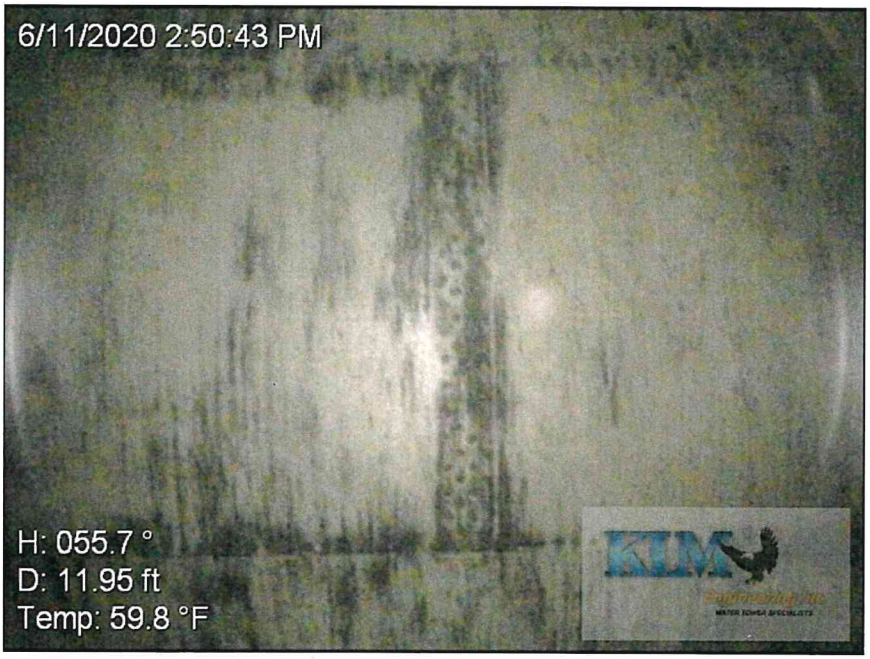


Photo No. 12
Condition of the lower shell

Photo No. 13
Condition of the base shell course with access manway

Photo No.14
Overall condition of the lower shell course and bottom with inlet pipe

Photo No. 15
Condition of the floor with inlet pipe and cleanout plug with handle

Photo No.16
Condition of the floor and bottom shell course

Photo No. 17
Overall condition of the roof

Photo No. 18
Condition of the roof

Photo No. 19
Condition of the roof, access ladders and access manway

Photo No. 20
Top center ladder support, note there is no vent only the overflow pipe

Photo No. 21
Condition of the roof at the top of the access ladder

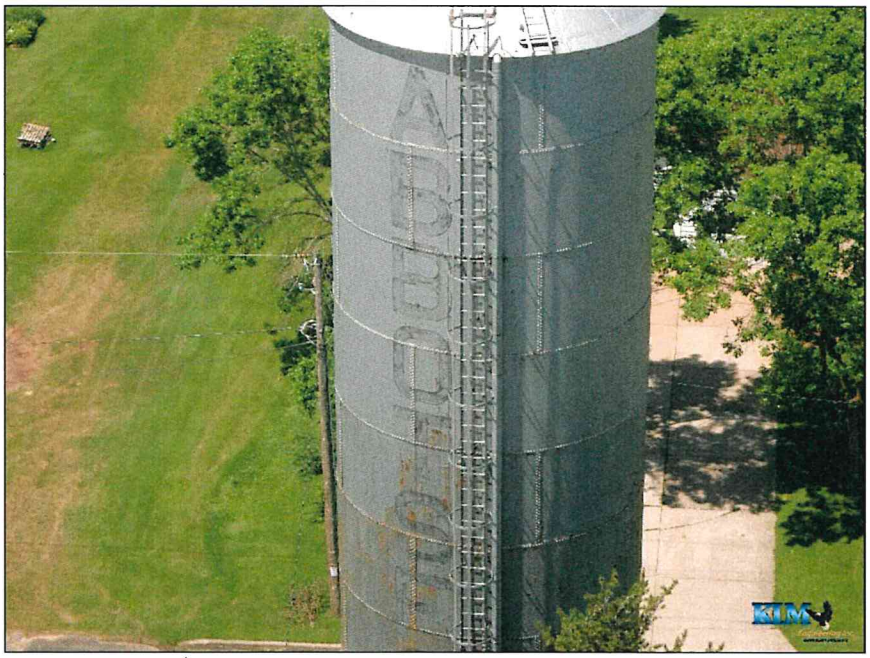


Photo No. 22
Overall condition of the upper half of the shell

Photo No. 23
No longer used water level indicator rope sheave

Photo No. 24
Overflow pipe at the top shell course and condition of the ladder with prior overcoat on poorly prepared substrate

Photo No. 25
Condition of the upper shell and ladder

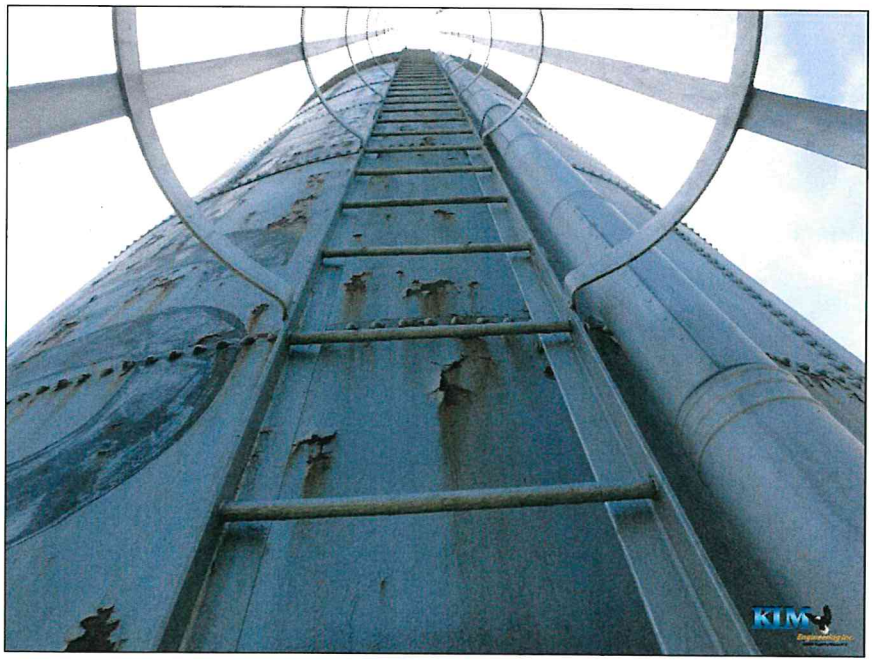


Photo No. 26
Condition of the shell

Photo No. 27
Condition of the lower shell courses with corrosion and pitting

Photo No. 28
Condition at the base of the standpipe

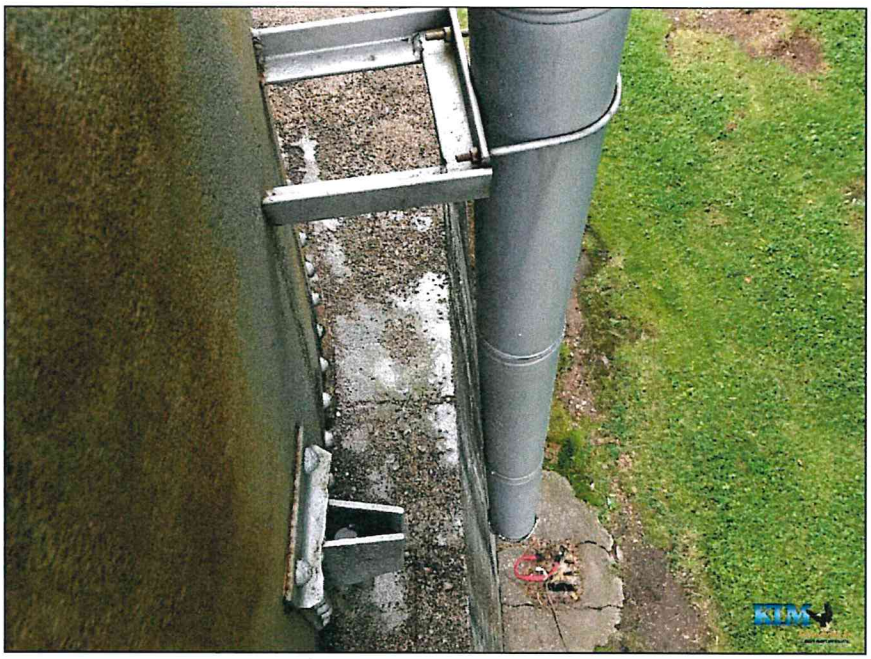


Photo No. 29
Condition at the base of the standpipe with overflow pipe

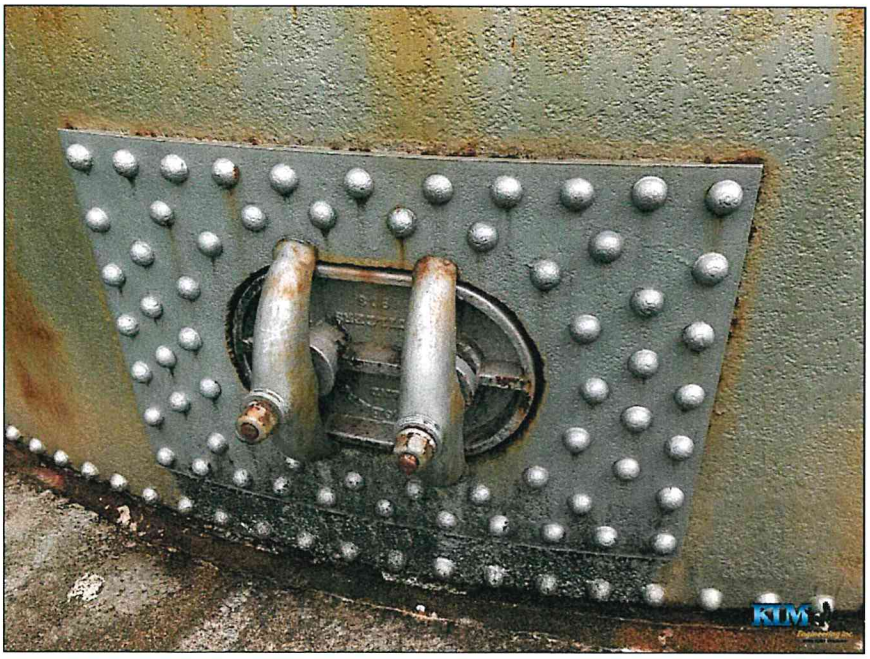


Photo No. 30
Access manway with pitting on the bottom shell course

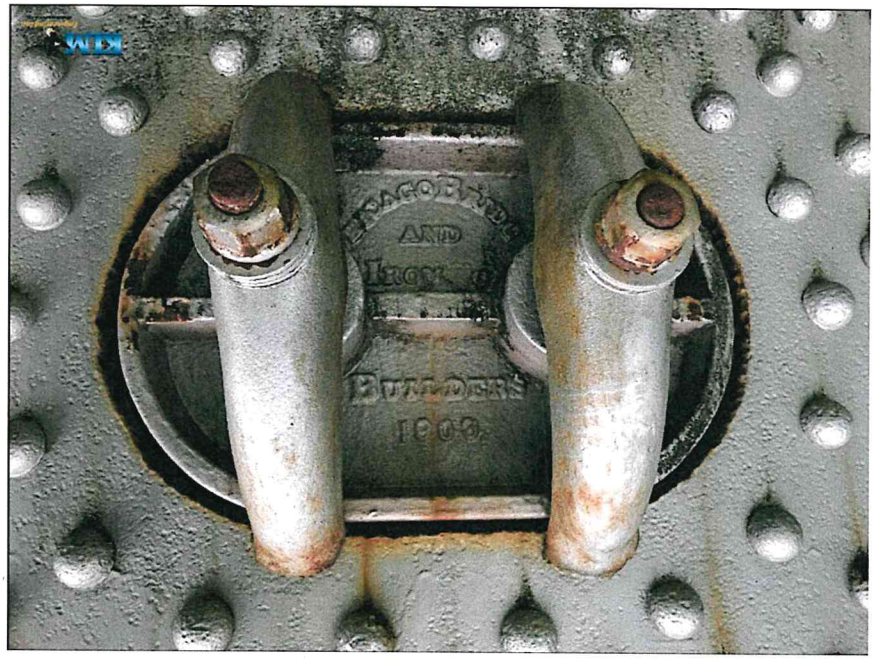


Photo No. 31
Nameplate/manway access (rotated 180 degrees, put on upside down)

Photo No. 32
Condition of the base of the standpipe, concrete pedestal and overflow pipe

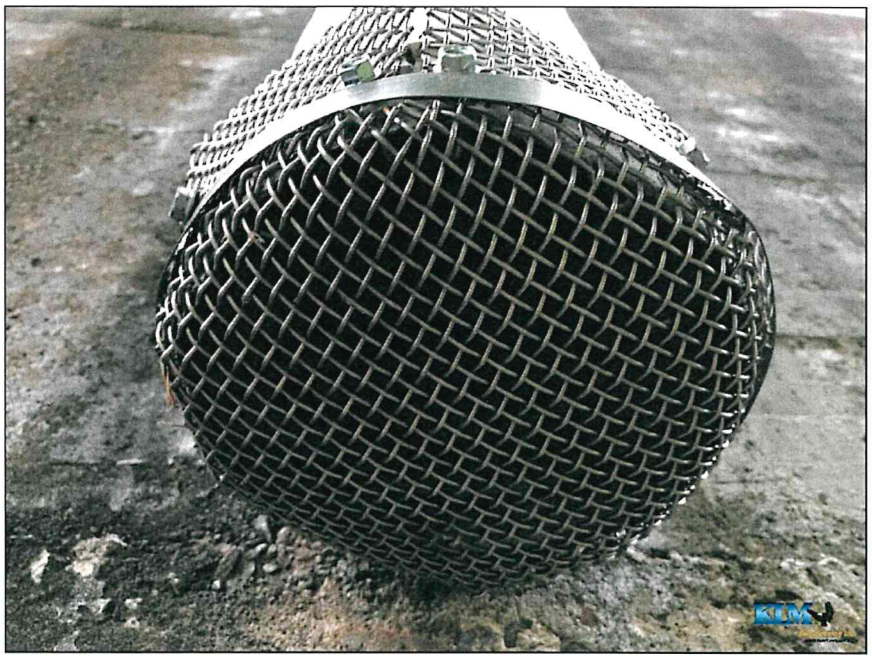


Photo No. 33
Overflow pipe screen

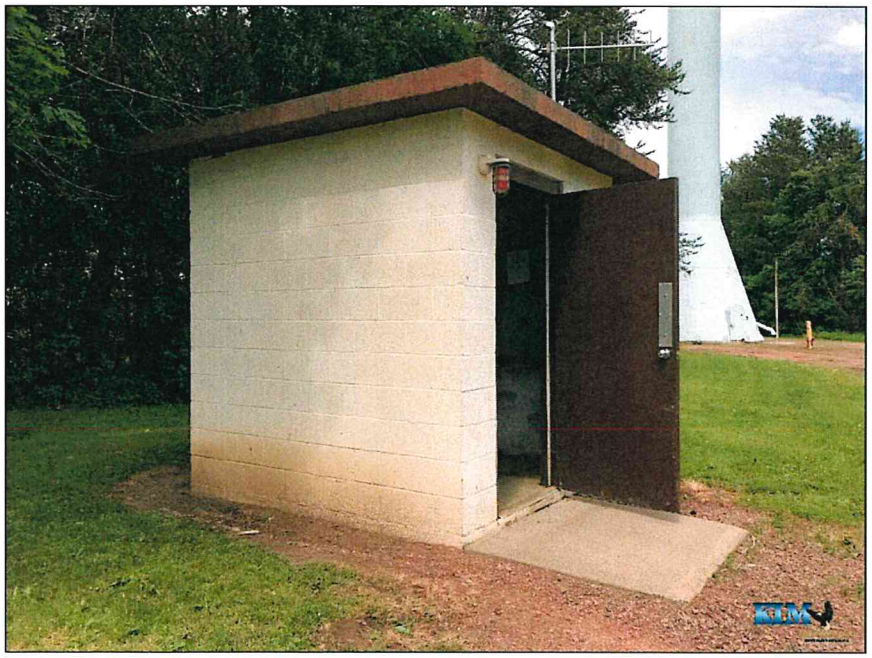


Photo No. 34
Pump house

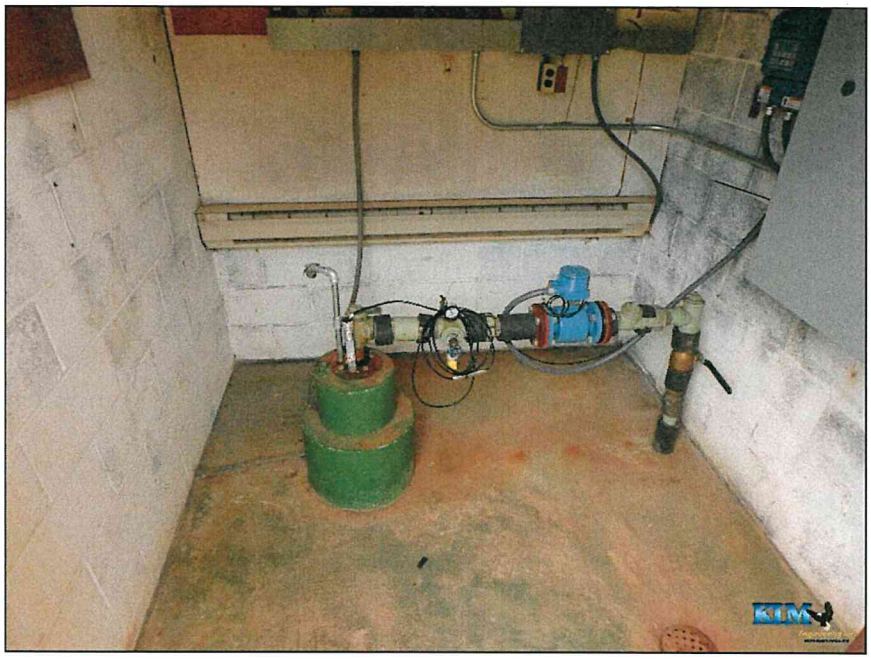


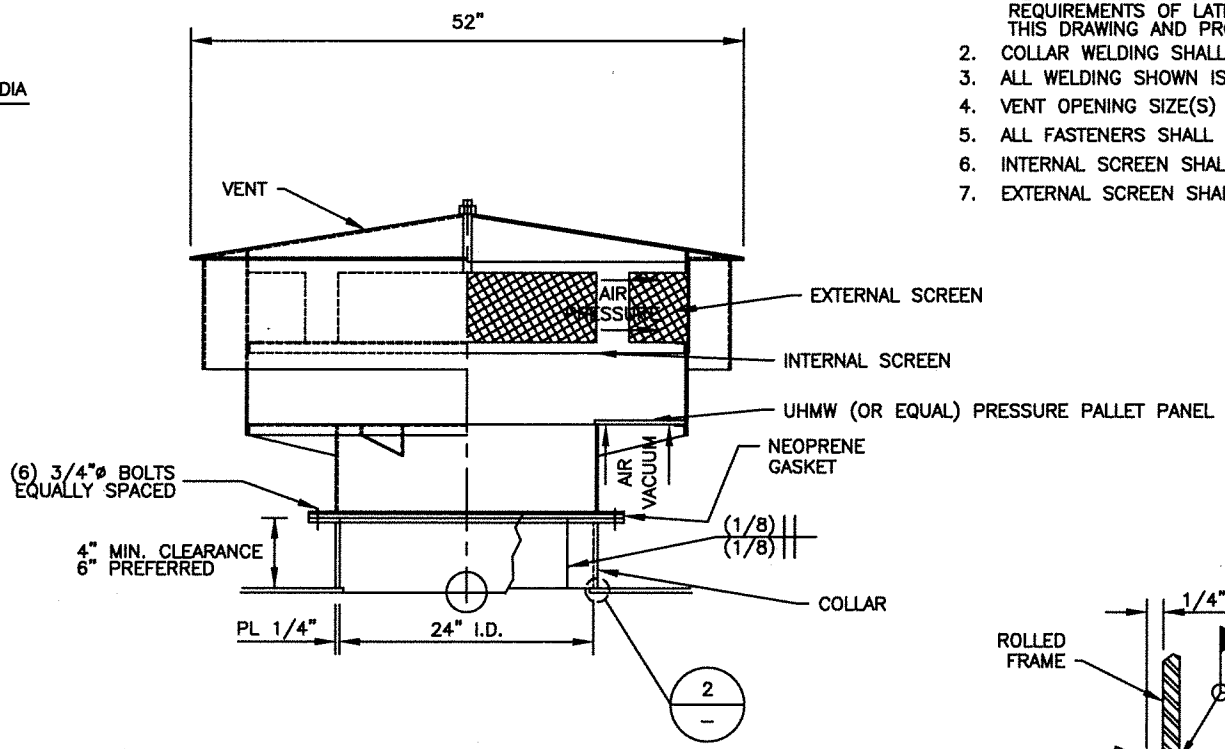
Photo No. 35
View inside the pump house

Photo No. 36
Sample tap

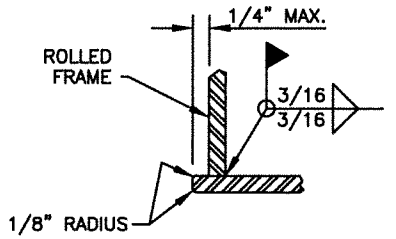
APPENDIX B

DRAWINGS

VENT SIZE	COVER DIA
24	52
20	43
18	39
16	35
12	26



1 ELEVATION



2 DETAIL–OPTION

NOTES:

1. VENT MATERIAL SHALL BE ALUMINUM AND FABRICATED PER FABRICATORS OPTION BUT MUST MEET REQUIREMENTS OF LATEST EDITION OF AWWA, THIS DRAWING AND PROJECT SPECIFICATION.
2. COLLAR WELDING SHALL BE PER AWS D1.1.
3. ALL WELDING SHOWN IS TO BE DONE BY CONTRACTOR.
4. VENT OPENING SIZE(S) PER SPECIFICATIONS
5. ALL FASTENERS SHALL BE STAINLESS STEEL.
6. INTERNAL SCREEN SHALL BE NON–CORROSIVE #24 MESH.
7. EXTERNAL SCREEN SHALL BE NON–CORROSIVE #4 MESH.

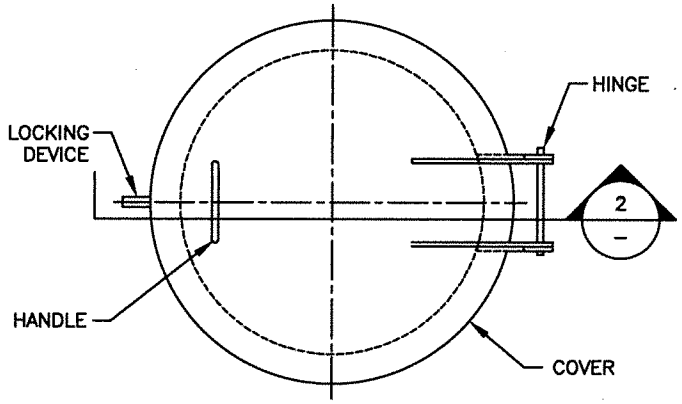
KLM ENGINEERING, INC.
1976 Woodale Drive
Suite 4
Woodbury, MN 55125
(651) 773–5111
Fax (651) 773–5222

ALUMINUM

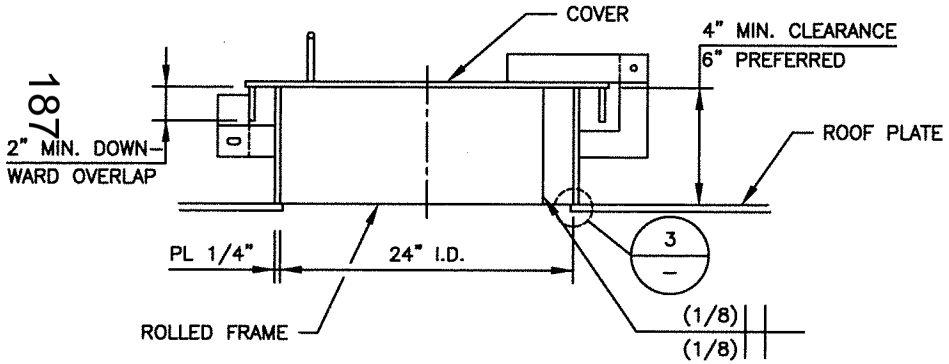
PRESSURE PALLET FINIAL VENT

DATE JANUARY 2020

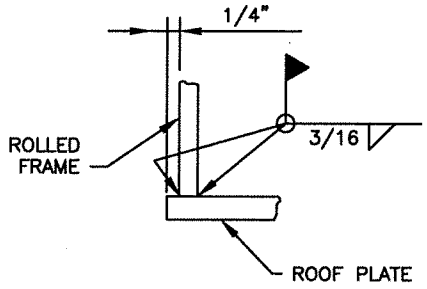
KLM DRAWING NO. 8a



1 PLAN VIEW



2 SECTIONAL ELEVATION



3 DETAIL

NOTES:

1. ALL MATERIALS SHALL BE ASTM A36 STEEL.
2. CONSTRUCTION SHALL MEET THE REQUIREMENTS OF AWWA D100 LATEST EDITION.
3. ALL WELDING SHALL BE PER AWS D1.1 LATEST EDITION.
4. AN AIR TIGHT GASKET SHALL BE PROVIDED BETWEEN THE COVER AND FRAME WHERE REQUIRED BY LOCAL AND/OR STATE CODE REQUIREMENTS.

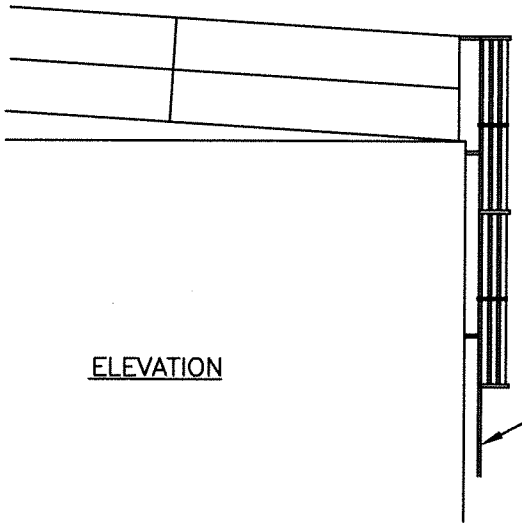
KLM ENGINEERING, INC.
1976 Woodcale Drive
Suite 4
Woodbury, MN 55125
(651) 773-5111
Fax (651) 773-5222

24"ø VENTILATION ROOF MANWAY

DATE JANUARY 2020

KLM DRAWING NO. 10a

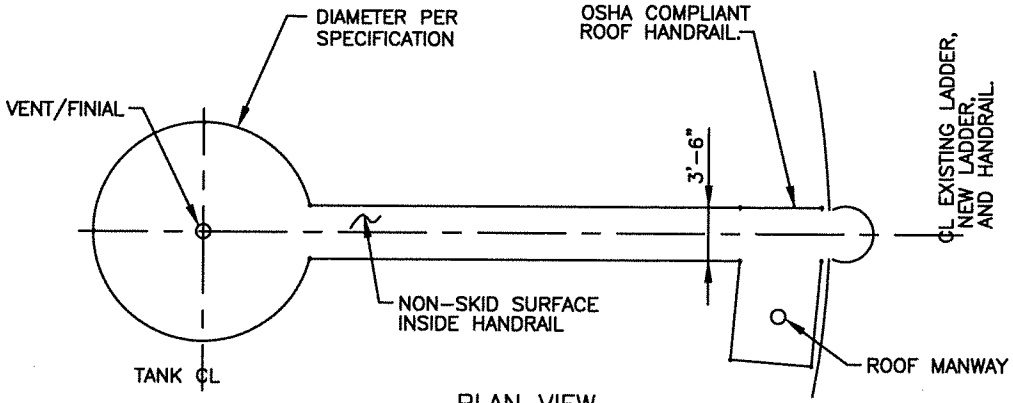
187



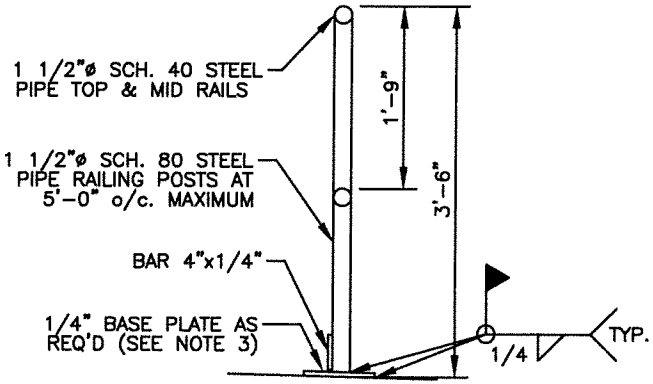
ELEVATION

NOTES:

1. ALL WELDING SHALL BE PER AWS D1.1 LATEST EDITION.
2. ALL WELDING SHOWN IS TO BE DONE BY CONTRACTOR.
3. THE 1/4" BASE PLATES FOR THE HANDRAIL POSTS ARE ONLY REQUIRED WHEN SPECIFIED OR UNDER THE DIRECTION OF THE ENGINEER.
4. THE RAILS AND POST SIZES WILL BE INCREASED TO ACCOMMODATE ANTENNA FORCES WHEN SPECIFIED OR UNDER THE DIRECTION OF THE ENGINEER.



PLAN VIEW



SECTION THRU HANDRAIL

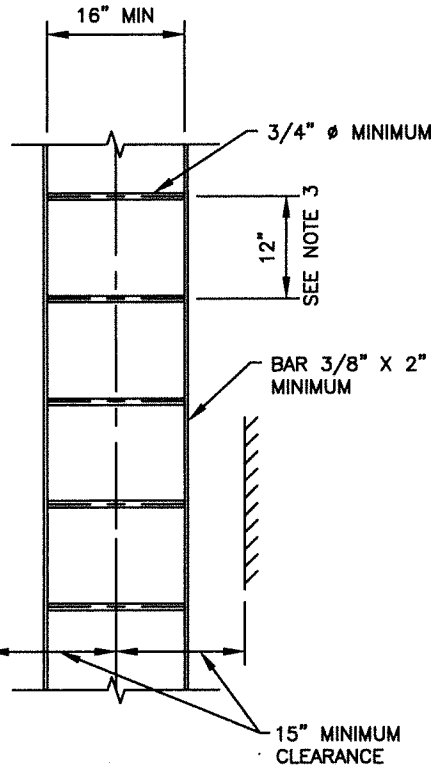
KLM ENGINEERING, INC.
1976 Wooddale Drive
Suite 4
Woodbury, MN 55125
(651) 773-5111
Fax (651) 773-5222

PIPE STYLE ROOF HANDRAIL

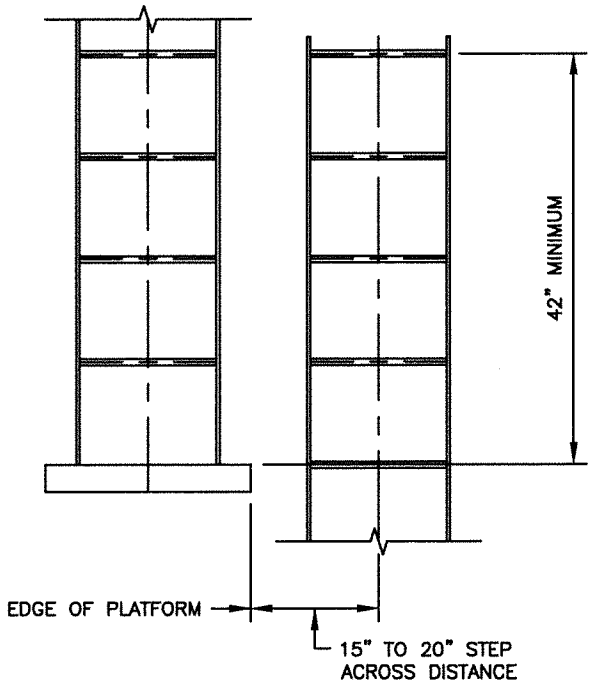
GROUND STORAGE RESERVOIR

DATE
JANUARY 2020

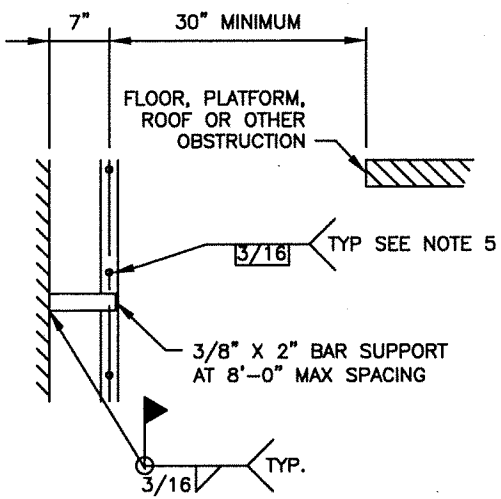
KLM DRAWING NO.
17b



1 LADDER DIMENSIONS



2 SIDE STEP DIMENSIONS



3 LADDER CLEARANCES

NOTES:

1. VERIFY THAT ALL DIMENSIONS MEET THE REQUIREMENTS OF OSHA, LATEST EDITION, BEFORE FABRICATION.
2. ALL LADDERS MUST BE EQUIPPED WITH AN OSHA APPROVED SAFETY CLIMB DEVICE (NOT SHOWN). KLM RECOMMENDS USING EQUIVALENT TO DBI/SALA LADSAFE (R).
3. ALL RUNGS SHALL BE UNIFORMLY SPACED FROM GRADE TO TOP OF STRUCTURE.
4. ALL WELDS SHALL MEET THE REQUIREMENTS OF AWS D1.1 LATEST EDITION.
5. PLUG WELD LADDER RUNGS ON EXTERIOR SIDE OF RAIL, WHERE LADDER IS EXPOSED TO SUBMERGED CONDITIONS RUNGS SHALL BE WELDED ON BOTH SIDES.

KLM ENGINEERING, INC.
1976 Woodddale Drive
Suite 4
Woodbury, MN 55125
(651) 773-5111
Fax (651) 773-5222

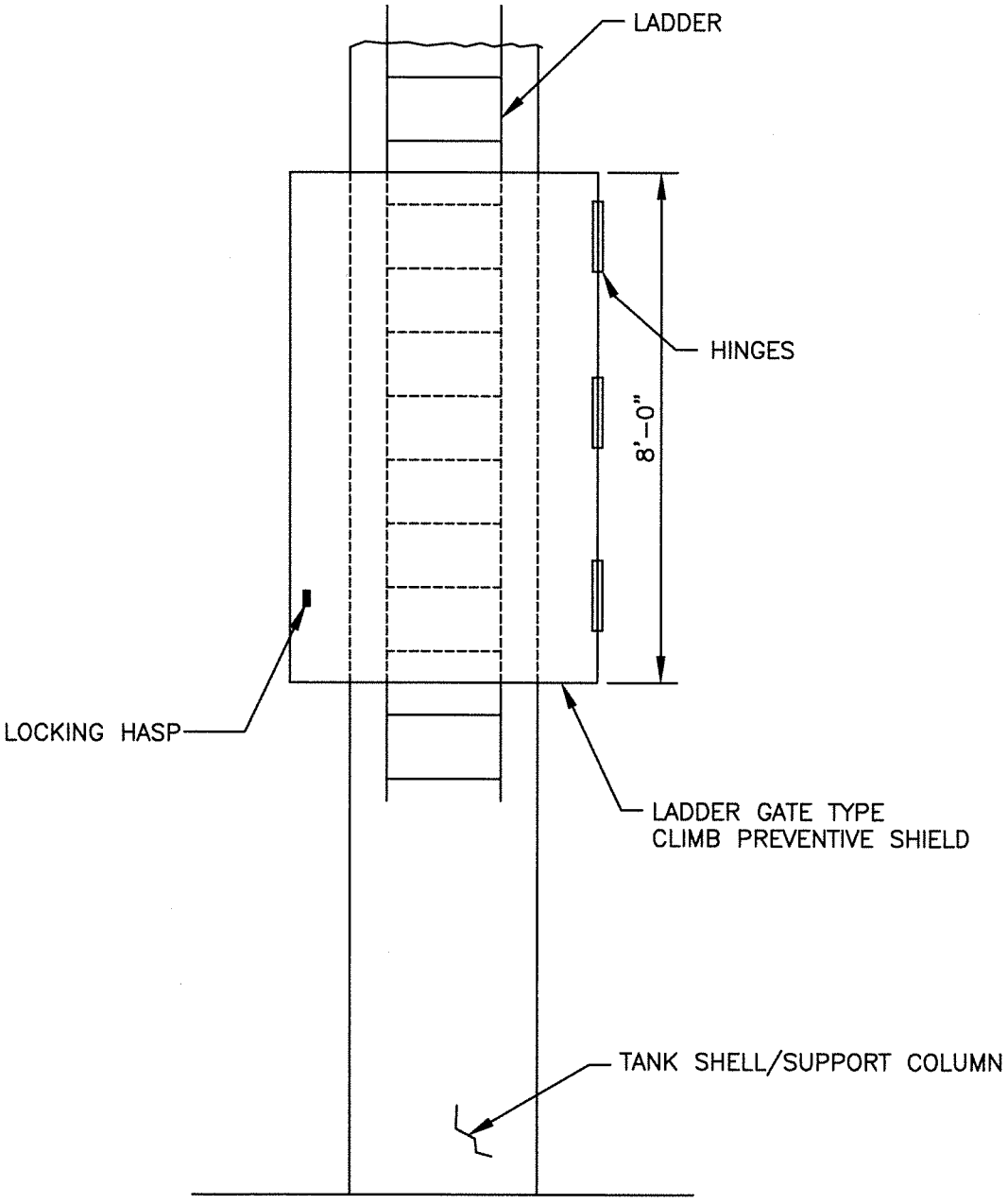
OSHA FIXED LADDER

DATE
JANUARY 2018

KLM DRAWING NO.
19

KLM ENGINEERING, INC.
1978 Woodlane Drive
Suite 4
Woodbury, MN 55125
(651) 773-5111
Fax (651) 773-5222

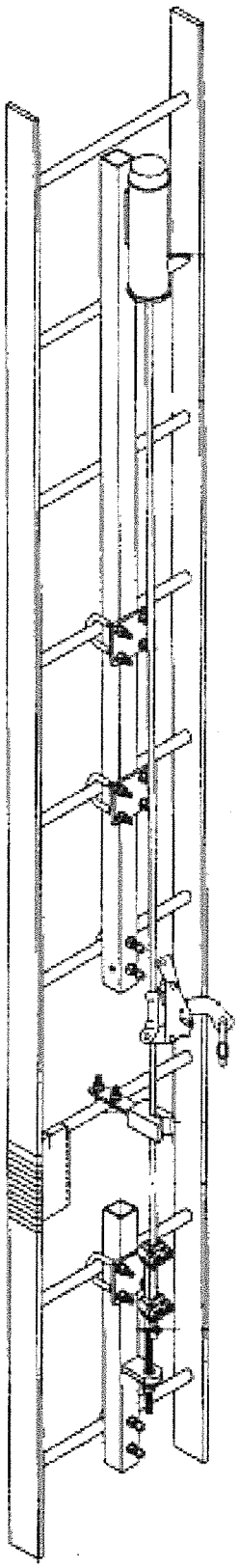
KLM PROJECT NO.	KLM DRAWING NO. 20
SUBJECT LADDER GATE/ANTI-CLIMB PLATE	
DRAWN BY	DATE JANUARY 2018
CHECKED BY	DATE



ELEVATION

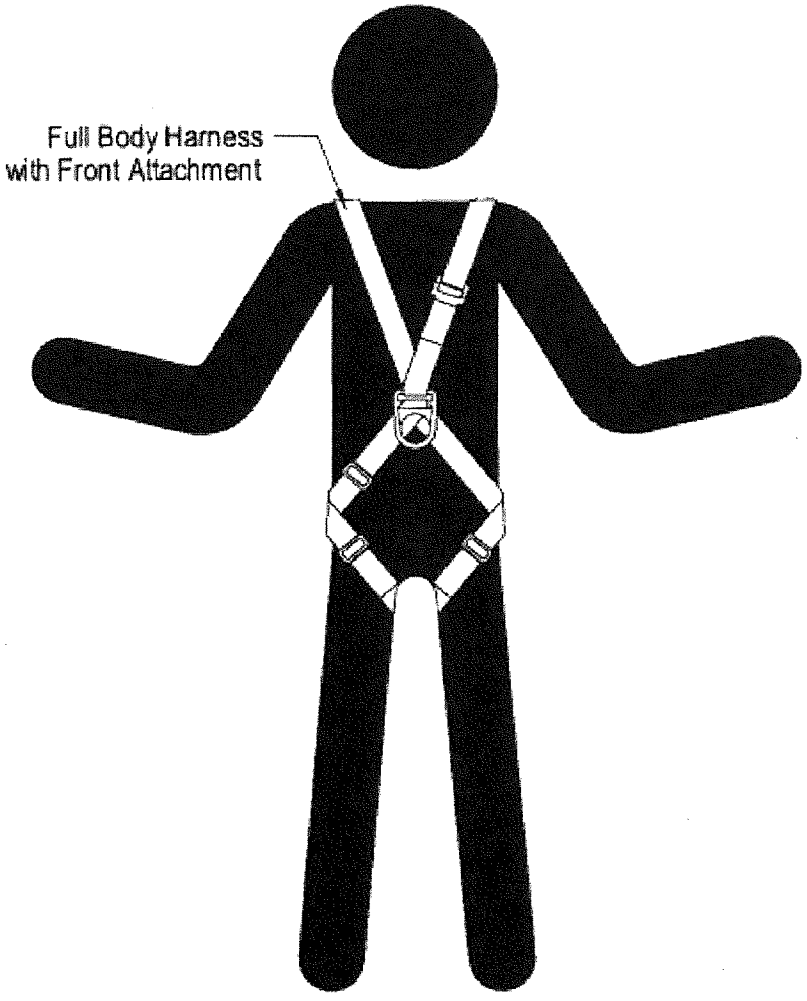
KLM ENGINEERING, INC.
1976 Woodddale Drive
Suite 4
Woodbury, MN 55125
(651) 773-5111
Fax (651) 773-5222

KLM PROJECT NO.	KLM DRAWING NO. 24
SUBJECT LADDER SAFETY CLIMB DEVICE – CABLE STYLE	
DRAWN BY	DATE JANUARY 2018
CHECKED BY	DATE



NOTES:

1. CONTRACTOR SHALL PROVIDE AND INSTALL A CABLE STYLE SAFETY CLIMB DEVICE PER THE SPECIFICATION
2. SYSTEM SHALL BE EQUIVALENT TO THE DBI/SALA LAD–SAF(R) FLEXIBLE CABLE SYSTEM
3. CONTRACTOR SHALL PROVIDE TWO (2) HARNESSES AND LAD–SAF(R) SLEEVES WITH SAFLOK CARABINER (OR EQUIVALENT)
4. CONTRACTOR SHALL PROVIDE DOUBLE LANYARDS WITH EACH HARNESS PROVIDED



APPENDIX C

SURFACE PREPARATION REQUIREMENTS

NACE SP0178-2007
(formerly RP0178-2003)
Item No. 21022

Standard Practice

Design, Fabrication, and Surface Finish Practices for Tanks and Vessels to Be Lined for Immersion Service

Revised 2007-03-10
Reaffirmed 2003-03-17
Reaffirmed September 1995
Reaffirmed March 1991
Revised 1989
Approved 1978
NACE International
1440 South Creek Drive
Houston, Texas 77084-4906
+1 281/228-6200
ISBN 1-57590-167-6

Foreword

When specifying tanks and vessels that are to be internally lined to control corrosion and prevent product contamination, special design, fabrication, and surface finishing practices must be considered to obtain the desired performance of these linings for immersion service. As the corrosiveness of the product increases, the design and fabrication of the tank or vessel becomes more critical relative to the performance of the lining.

This standard presents standard practices for the design, fabrication, and surface finish of metal tanks and vessels that are to be lined for corrosion resistance and to prevent product contamination. The standard explains how the standard practices govern the quality of lining applications. Appendix A contains illustrations depicting both good and bad practices for tanks and vessels to be lined, and Appendix B contains a list of recommended responsibilities to ensure that an acceptable lining application is achieved. Appendix C contains written and graphic descriptions of five degrees of surface preparation of welds in tanks and vessels that may be specified prior to lining.[1]

This standard is intended for use or reference by end users, lining specifiers, lining applicators, lining manufacturers, and contracting authorities involved in the surface preparation or lining installation in tanks and vessels intended for chemical immersion service.

This standard practice was originally prepared in 1978 by NACE International Task Group (TG) T-6A-29, a component of Unit Committee T-6A on Coating and Lining Materials for Immersion Service, in collaboration with Unit Committee T-6H on Application and Use of Coatings for Atmospheric Service. The standard was revised in 1989 by TG T-6G-27, a component of Unit Committee T-6G on Surface Preparation for Protective Coatings, and was reaffirmed in 1991 and 1995. It was reaffirmed in 2003 by Specific Technology Group (STG) 04 on Coatings and Linings, Protective: Surface Preparation. The standard was revised in 2007 by TG 295 on Lining, Tanks and Vessels for Immersion Service: Fabrication Details, Surface Finish Requirements, and Proper Design Considerations—Review of NACE Standard RP0178-2003. This TG is administered by STG 04. It is also sponsored by STG 02 on Coatings and Linings, Protective: Atmospheric; STG 03 on Coatings and Linings, Protective: Immersion and Buried Service; and STG 43 on Transportation, Land. This standard is issued by NACE International under the auspices of STG 04.

[1] The visual comparator mentioned in Appendix C is a molded plastic replica that illustrates various degrees of surface finishing for welds prior to coating or lining. Full-seam welds, skip welds, butt welds, lap welds, and others are depicted. For more information contact the NACE FirstService Department, 1440 South Creek Drive, Houston, TX 77084-4906.

NACE International gratefully acknowledges the contributions of the following companies in the preparation of the welding samples and the fabrication of the die from which the plastic replicas have been molded:

Ausimont USA, Inc.,[2] Thorofare, NJ
CenterPoint Energy,[3] Houston, TX
S.G. Pinney & Associates, Inc.,[4] Port St. Lucie, FL
The Sherwin-Williams Company,[5] Cleveland, OH

NACE also gratefully acknowledges the assistance of KTA-Tator Inc.,[6] Pittsburgh, PA, in developing the weld pattern that was used to mold the plastic replica of weld samples.

In NACE standards, the terms *shall*, *must*, *should*, and *may* are used in accordance with the definitions of these terms in the *NACE Publications Style Manual*, 4th ed., Paragraph 7.4.1.9. *Shall* and *must* are used to state mandatory requirements. *Should* is used to state something considered good and is recommended but is not mandatory. *May* is used to state something considered optional.

---

[2] Ausimont USA, Inc., 10 Leonards Lane, Thorofare, NJ 08086.
[3] CenterPoint Energy, P.O. Box 1325, Houston, TX 77251-1325.
[4] S.G. Pinney & Associates, Inc., Corporate Office, 1326 S.W. Biltmore St., Port St. Lucie, FL 34983.
[5] The Sherwin-Williams Company, 101 Prospect Avenue N.W., Cleveland, OH 44115.
[6] KTA-Tator, Inc., 115 Technology Drive, Pittsburgh, PA 15275.

NACE International
Standard Practice

Design, Fabrication, and Surface Finish Practices for Tanks and Vessels to Be Lined for Immersion Service

Contents

1. General 1
2. Definitions 1
3. Design Practices 1
4. Fabrication Practices 3
5. Surface Finish Practices 3
Bibliography 4
Appendix A: Illustrations of Design, Fabrication, and Surface Finish Practices for Metal Tanks and Vessels to Be Lined for Immersion Service 5
Appendix B: Recommended Responsibilities 11
Appendix C: Written and Graphic Descriptions of Various Degrees of Surface Finishing of Welds That May Be Specified in Preparation for Lining of Tanks and Vessels 12

Section 1: General

1.1 This standard presents standard practices for the design, fabrication, and surface finish of tanks and vessels to be lined for immersion service. Tanks and vessels may be lined for corrosion control or to prevent product contamination.

1.1.1 Appendix A (mandatory) contains illustrations depicting both good and bad practices for tanks and vessels to be lined for immersion service.

1.1.2 Appendix B (nonmandatory) contains a list of recommended responsibilities of the purchaser (user), designer, fabricator, lining applicator, and inspector to ensure that an acceptable lining application is achieved.

1.1.3 Appendix C (nonmandatory) contains written and graphic descriptions of five degrees of surface preparation of welds in tanks and vessels that may be specified prior to lining. The written descriptions of the five degrees of surface preparation of welds in Appendix C take precedence over the graphics and the companion visual comparator. The graphics are only pictorial representations of welds and grinding finishes and are not intended to be representative of the integrity of the welds. The "weld condition prior to finishing" is not a typical weld; it is only intended to illustrate defects in welds that must be corrected prior to lining.

1.2 Good welding practices and welding codes govern the integrity of the tank and vessel welds; this standard only addresses surface preparation of the welds for the purpose of lining the tank or vessel for immersion service.

1.3 Other design and construction codes or standards may be used to complement the details given here. When applicable, the requirements of such other codes or standards shall be considered. A partial list of such codes and standards can be found in the Bibliography.

1.4 These standard practices may be used in the design, fabrication, and surface finish of tanks and vessels for services other than immersion, such as dry bulk storage of solid materials.

Section 2: Definitions

Lining: A coating or layer of sheet material adhered to or in intimate contact with the interior surface of a container used to protect the container against corrosion by its contents and/or to protect the contents of the container from contamination by the container material. For the purposes of this standard, *lining* refers to a surface barrier, usually a thin film less than 500 µm (20 mil) thick applied as either a lining or a coating. In common usage, the terms *coating* and *lining* are interchangeable, but in this standard, only the term *lining* is used. The requirements contained herein may or may not apply to heavier, thick-film linings, sheet linings, trowel-applied and pumped-into-place finishes, plasma, flame-sprayed linings, fiber-reinforced plastic linings, or similar lining materials.

Surface Finish: The degree of smoothness of a surface produced by the removal of sharp edges and the appropriate surface preparation of welds and other rough areas. The term *surface finish* is also used to characterize the degree of smoothness that is necessary to attain a surface to which the lining can be applied satisfactorily in accordance with the lining specification.

Section 3: Design Practices

3.1 Accessibility

3.1.1 All surfaces of the tank or vessel interior shall be readily accessible for surface preparation and lining application (see Figures A1 through A10, Appendix A).

3.1.2 The manway diameter for working entrance and safety reasons during the lining application shall be as large as practical for the tank or vessel being lined.

3.1.2.1 If possible, at least one manway shall be located near ground (working) level, except in tanks or vessels designed to be buried below grade.

3.1.3 Additional manways and openings should be provided as needed to facilitate ventilation. These must meet safety requirements.

3.2 Joints

3.2.1 Continuous butt-welded joints shall be used whenever possible (see Figure A5, Appendix A).

3.2.2 Rivets shall not be used.

3.2.3 The use of internal bolted connections should be avoided to the fullest extent possible.

3.2.4 Continuous lap-welded joints may be used but are not preferred. For sheet lining material, this type of construction may not be acceptable.

3.3 Connections

3.3.1 All connections to the tank or vessel shall be flanged.

3.3.2 Threaded connections should not be used in tanks and vessels operating in corrosive environments (see Figure A4, Appendix A). However, if threaded connections cannot be avoided in corrosive environments, these parts shall be fabricated of corrosion-resistant materials, or constructed as shown in Figure A10, Appendix A.

3.3.2.1 CAUTION: Dissimilar metal (galvanic) corrosion occurs when, for example, an alloy is used to replace the steel bottom of a tank, or in a similar circumstance when alloy appurtenances must be part of the construction of a vessel. If a lining is then applied to the steel and part of the alloy (usually 150 to 610 mm [5.9 to 24 in.]), any discontinuity in the lining exposes a small anode surface. Once corrosion starts, it progresses rapidly because of the large exposed alloy cathodic area to the much smaller anodic area. Without the lining, galvanic corrosion causes the steel to corrode at the weld area, but at a much slower rate. The recommended practice is to apply the lining to all of the alloy as well as the steel, thereby eliminating the possible occurrence of a large-cathode-to-small-anode surface.

3.3.3 Nozzle connections to be lined shall be as short as possible and be a minimum of 50 mm (2 in.) in diameter (see Figure A4, Appendix A). Connections less than 50 mm (2 in.) in diameter shall be suitably attached through a reducing flange (see Figure A10, Appendix A). When trowel-applied thick-film linings are required, additional nozzle inside diameter shall be allowed for lining thickness.

3.4 Appurtenances Inside the Tank or Vessel

3.4.1 The standard practices in Sections 3, 4, and 5 shall apply to any item to be installed inside a tank or vessel that is to be lined. Such appurtenances include, but are not limited to, agitators, anti-swirl baffles, outlet connections, gauging devices, vortex breakers, and internal piping.

3.4.2 If appurtenances inside the tank or vessel, including nuts and bolts, cannot be lined, they shall be made of corrosion-resistant materials. (CAUTION: See Paragraph 3.3.2.1.)

3.4.3 If bolted connections are necessary and cannot be made of corrosion-resistant materials, the mating surfaces shall be lined before assembly. Gaskets shall be used on mating surfaces and the sealing surfaces of nuts and bolts to protect the lining.

3.4.4 Dissimilar metals shall be electrically isolated from the steel tank or vessel surface whenever possible. Where dissimilar metals are used, selection shall be such that the galvanic effect is minimized. Other corrosion mitigation methods may be required (see Figure A8, Appendix A).

3.4.5 Heating elements shall be offset from the tank or vessel surface to provide access for surface preparation, application, inspection, and cleaning. Elements shall be positioned so as not to damage the lining system.

3.5 Structural Reinforcement Members

3.5.1 Structural support members should be installed on the exterior of the tank or vessel. However, if such members are installed internally, they shall be fabricated of simple shapes such as smooth, round bars or pipe for ease of applying the lining material.

3.5.2 The use of internal flanged connections, stiffening rings, reinforcement pads, angles, channels, I-beams, and other complex shapes should be avoided. If they must be installed internally, these members shall be fully welded and welds and sharp edges ground to a radius of at least 3.2 mm (0.13 in.) or as agreed between the tank or vessel fabricator, tank or vessel owner, and lining applicator (see Figures A1 and A6, Appendix A).

3.6 Heat Sinks

3.6.1 Heated, forced curing of lining systems is often preferred if not specifically required. During tank or vessel design and fabrication, especially with field-erected units, consideration must be given to avoiding or minimizing heat sink areas. Such areas might include opposite saddles or support lugs, flat bottoms on foundations, and stiffening rings.

3.6.2 These situations may be addressed either by tank or vessel design or by construction or insulation of the foundation or supports. Another possible solution is the use of temporary constructions, such as false floors or temporary shelters, to achieve uniform heating and curing.

Section 4: Fabrication Practices

4.1 All design practices in Section 3 shall apply to all fabrication.

4.2 All welding shall be continuous. Intermittent or spot welding shall not be allowed.

4.3 Fillets and corners must be accessible for grinding.

4.4 Field tanks fabricated for use with high-heat-cured linings (e.g., unmodified phenol formaldehyde thermosetting linings) should have bottoms suitably insulated and installed on properly drained foundations to facilitate proper cure of the lining on the floor of the tank. Because the sand-filled earthen foundation, concrete pad, or other similar foundation is a poor insulator, some means must be considered prior to the application of the lining either to override the heat sink or to distribute the heat uniformly. This may be accomplished in several ways:

(a) with the use of properly sized heaters;

(b) by placing the tank on a concrete pad topped with a 100-mm (4-in.) layer of vermiculite concrete;

(c) by insulating with a high-compressive-strength structural grade insulation between the tank bottom and foundation;

(d) by installing an internal temporary false bottom approximately 1.5 m (5.0 ft) above the floor of the tank prior to the final high-temperature bake; or

(e) by other suitable means that practically and effectively ensure a properly cured lining on the tank floor.

Section 5: Surface Finish Practices

5.1 Sharp edges shall be ground to a smooth radius of at least 3.2 mm (0.13 in.) or as agreed between the tank or vessel fabricator, tank or vessel owner, and lining applicator.

5.2 Tank and vessel internal surfaces to be lined shall not be marred by gouges, handling marks, deep scratches, metal stamp marks, slivered steel, or other surface flaws. Flaws shall be repaired by welding or grinding, as appropriate.

5.2.1 Limits on surface flaw depth and geometry shall be set by agreement between the tank or vessel fabricator, tank or vessel owner, and lining applicator.

5.2.2 All restorative welding shall be performed according to applicable tank or vessel design codes, approved job-specific procedures, or both.

5.3 All rough welds shall be ground to remove sharp edges and other such irregularities (see Figure A2, Appendix A). Chipping may be used to remove sharp edges if followed by grinding. See Appendix C for written and graphic descriptions of five degrees of surface finishing of welds that may be specified preparatory to the lining of tanks and vessels.

5.3.1 The amount of grinding performed shall be judicious and performed only to the extent necessary to prepare the weld surface and surrounding metal surfaces in accordance with the specification. Over-grinding, which would result in decreasing the wall thickness or the integrity of the weld beyond the limitations imposed by good welding practices, applicable welding codes, or tank or vessel ratings, shall be avoided.

5.4 Automatic machine welds may be acceptable as dictated by the specifications for film continuity.

5.5 All weld spatter and arc strikes must be removed. Chipping may be used if followed by grinding or the use of an abrasive disc.

5.6 If an anti-spatter material is applied adjacent to the weld area prior to welding, the anti-spatter material shall be one that is readily removable. Anti-spatter materials shall be removed prior to abrasive blasting.

5.7 When checking weld continuity, the tank or vessel fabricator shall avoid the use of oils, lubricants, or other foreign materials that would leave a contaminating residue not easily removed by abrasive blasting.

5.8 Surfaces shall be cleaned and decontaminated as required by the governing lining application specification(s).

Bibliography

API[7] Standard 650 (latest revision). "Welded Steel Tanks for Oil Storage." Washington, D.C.: American Petroleum Institute (API).

API RP 652 (latest revision). "Lining of Aboveground Petroleum Storage Tank Bottoms." Washington, D.C.: API.

ASME[8] Boiler and Pressure Vessel Code (latest revision). New York, NY: ASME.

Directive 97/23/EC (latest revision). "Pressure Equipment Directive (PED)." Brussels, Belgium: European Commission.[9]

NACE Standard SP0294 (latest revision). "Design, Fabrication, and Inspection of Storage Tank Systems for Concentrated Fresh and Process Sulfuric Acid and Oleum at Ambient Temperatures." Houston, TX: NACE.

[7] American Petroleum Institute (API), 1220 L Street, NW, Washington, D.C. 20005-4070.
[8] ASME International (ASME), Three Park Avenue, New York, NY 10016-5990.
[9] European Commission (EC), Rue de la Loi 200, B-1049 Brussels, Belgium.

APPENDIX A:
Illustrations of Design, Fabrication, and Surface Finish Practices for Metal Tanks and Vessels to Be Lined for Immersion Service

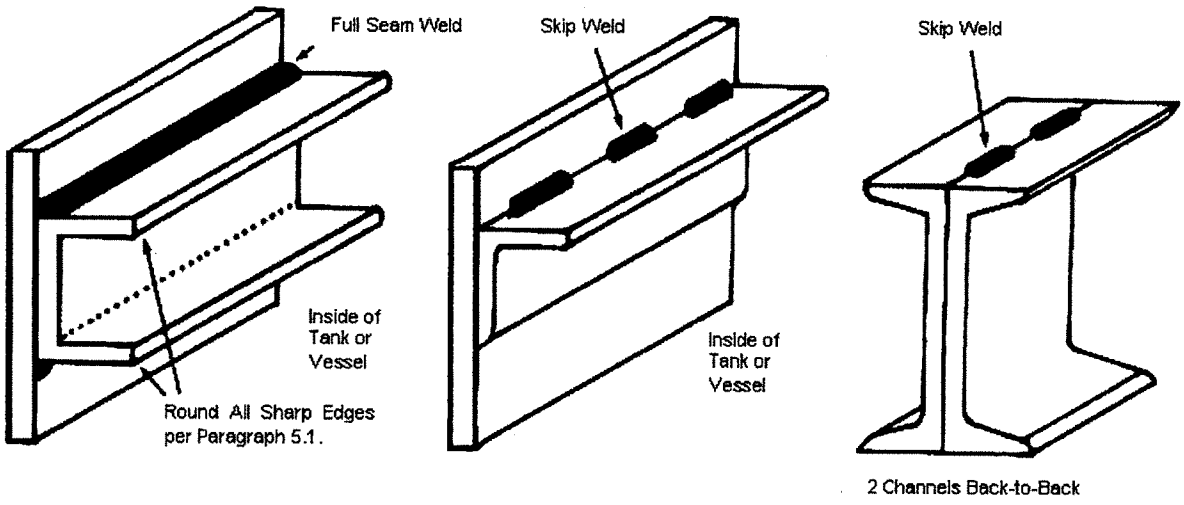


FIGURE A1

All construction involving pockets or crevices that do not drain or that cannot be properly abrasive blasted and lined shall be avoided.

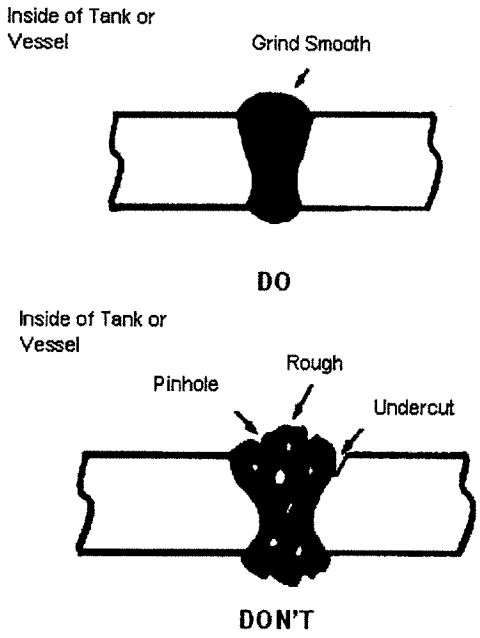


FIGURE A2
All joints shall be continuous full-penetration porosity-free welds. In tanks and vessels that require a 100% holiday-free lining, all welds must be smooth with no holes, high spots, lumps, or pockets. Grinding is required to eliminate sharp edges and high spots. Weld metal shall be used to fill in undercut or pits.

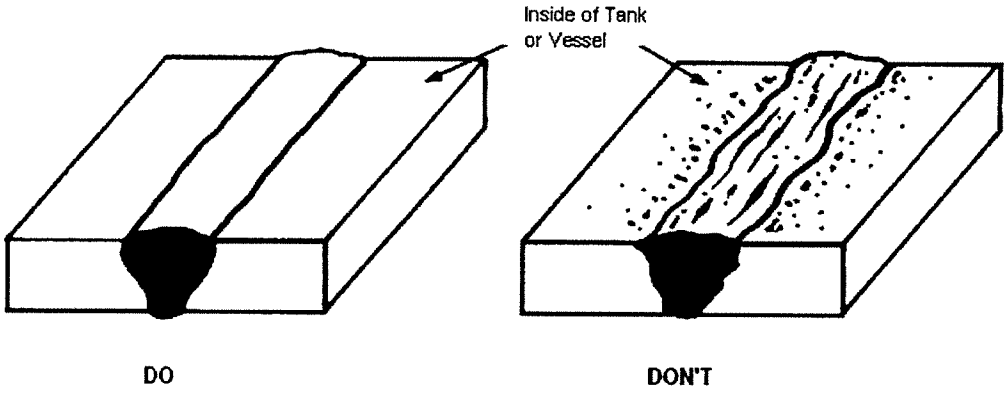


FIGURE A3
All weld spatter shall be removed.

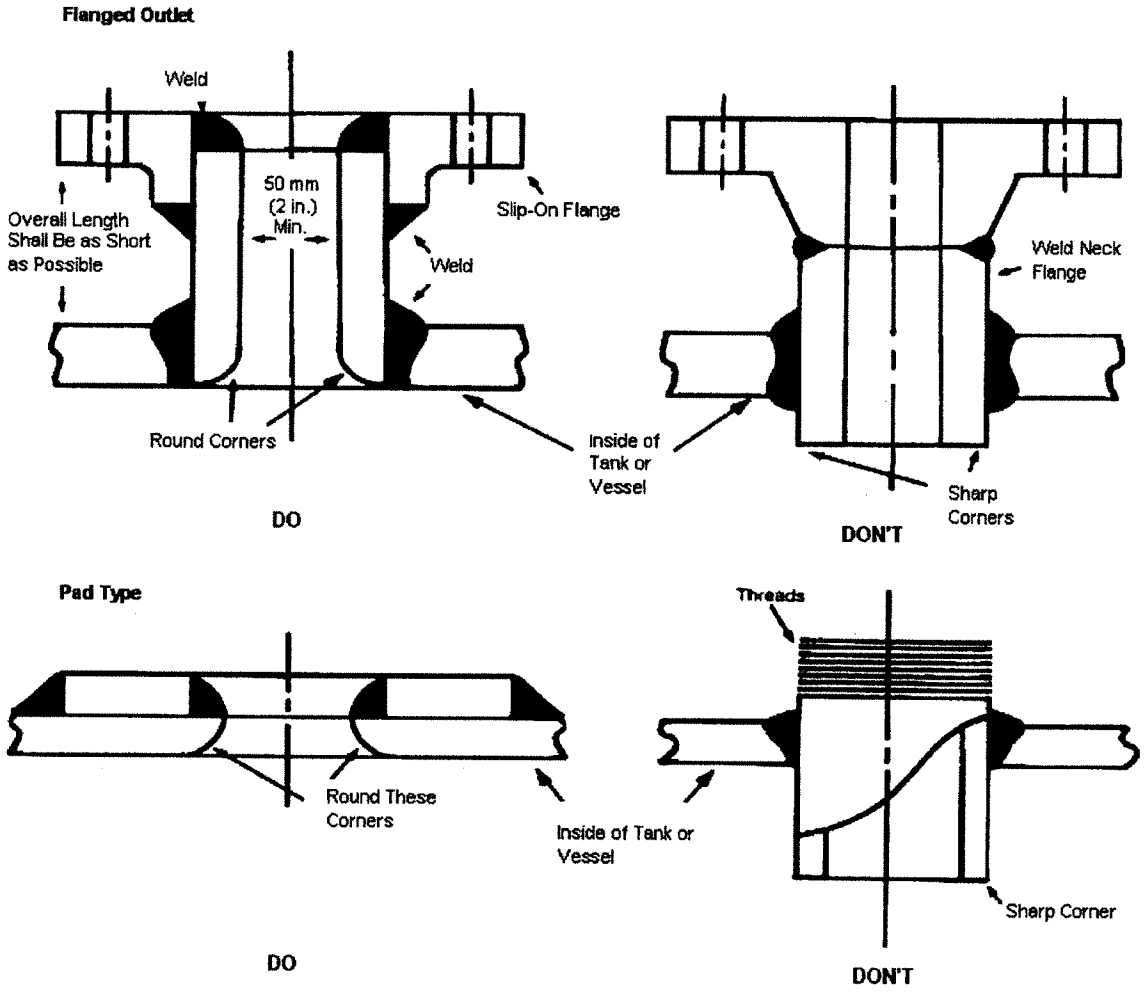


FIGURE A4

The outlets shall be flanged or pad-type rather than threaded. Within pressure limitations, slip-on flanges are preferred because the inside surface of the attaching weld is readily available for rounding edges and grinding. If operating pressure dictates the use of weld neck flanges, the inside surface of the attaching weld is in the throat of the nozzle, making repair of surface irregularities by grinding rather difficult.

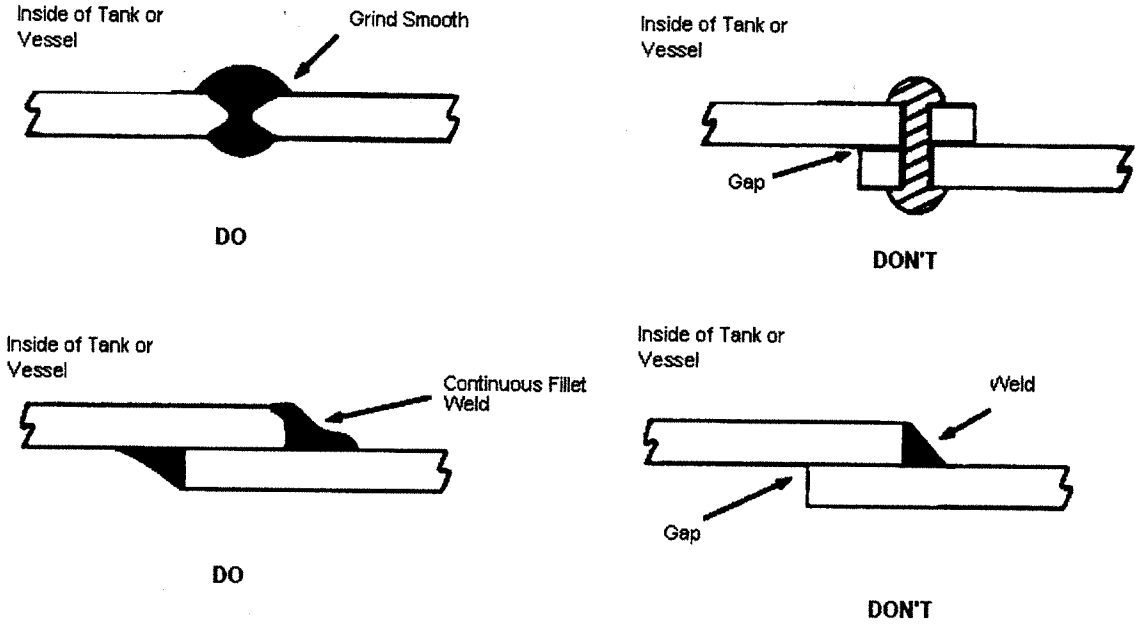


FIGURE A5
Butt welding shall be used whenever possible rather than lap welding or riveted construction.

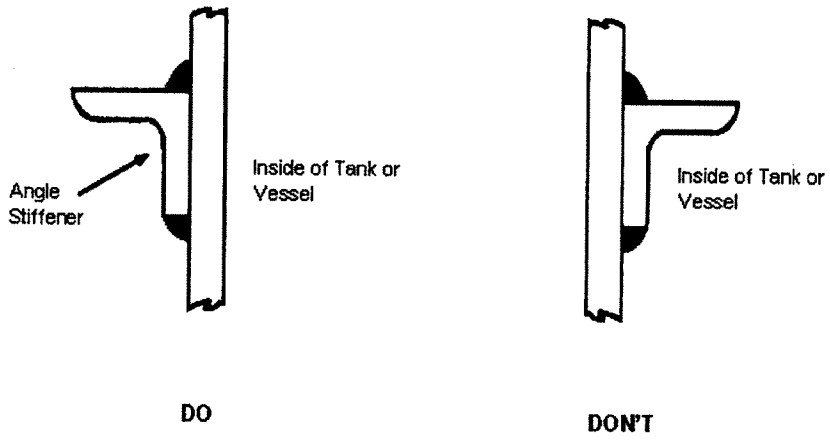


FIGURE A6
Stiffening members should be on the outside of the tank or vessel.

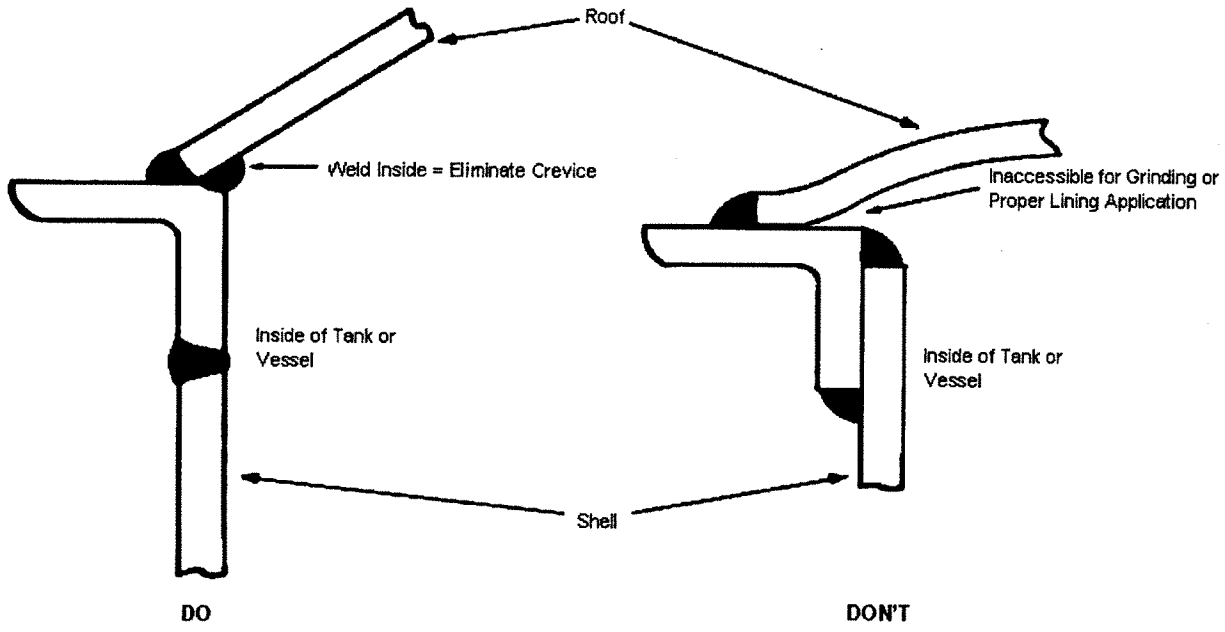


FIGURE A7

Roof-to-Shell Joint. Eliminate crevice and lap weld at roof-to-shell joint in a tank or nonpressure vessel.

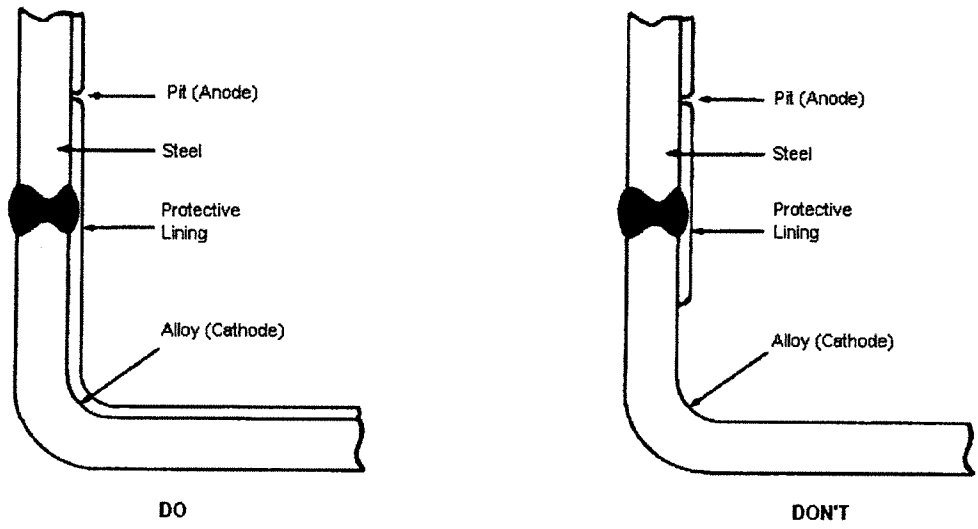


FIGURE A8

Dissimilar metal (galvanic) corrosion occurs when, for example, an alloy is used to replace the steel bottom of a tank, or, in a similar circumstance, when alloy appurtenances must be a part of the construction of a vessel. If a lining is then applied to the steel and part of the alloy (usually 150 to 610 mm [5.9 to 24 in.]), any discontinuity in the lining exposes a small anode surface. Once corrosion starts, it progresses rapidly because of the large exposed alloy cathodic area to the much smaller anodic area. Without the lining, galvanic corrosion causes the steel to corrode at the weld area, but at a much slower rate. The recommended practice is to apply lining to all of the alloy as well as the steel, thereby eliminating the possible occurrence of a large-cathode-to small-anode surface.

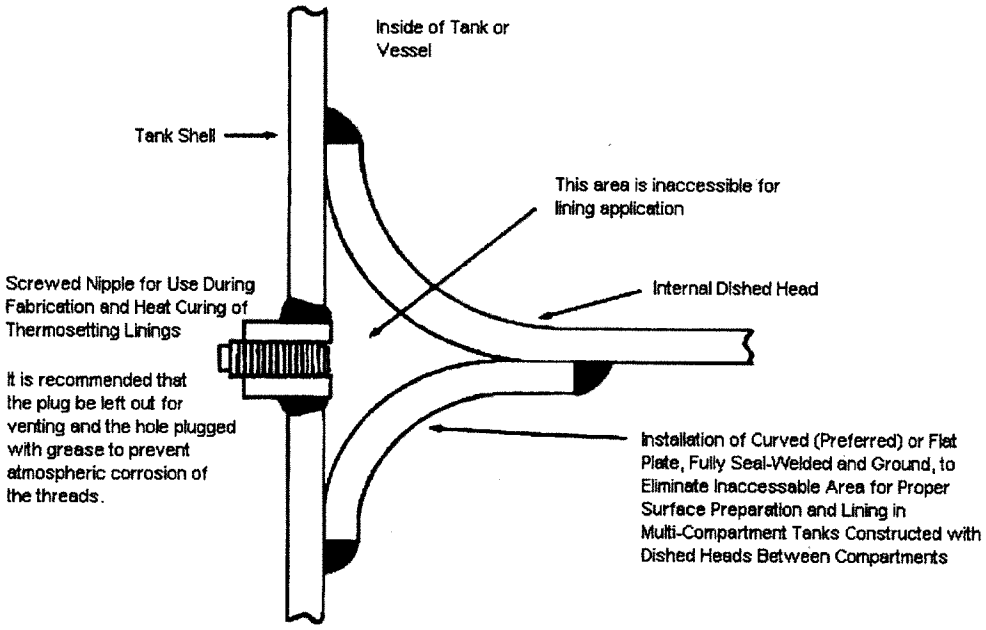


FIGURE A9

A technique (detail of fabrication) to allow for good continuity of lining application for inaccessible areas such as those in multicompartment tanks or vessels.

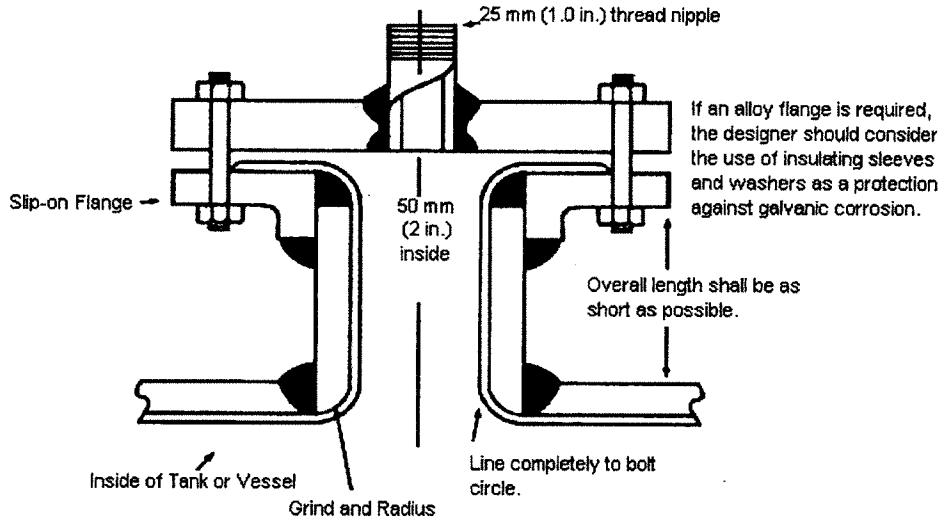


FIGURE A10

Minimum 50-mm (2-in.) diameter nozzle required for most thin-film linings. Thicker-film linings may require a larger-diameter nozzle. This diagram also illustrates fabrication practice where a threaded connection is required in a tank or vessel that requires a holiday-free lining.

APPENDIX B: Recommended Responsibilities

This appendix is a list of recommended responsibilities that should be assigned to the purchaser, designer, fabricator, lining applicator, and inspector in order to obtain a properly designed and fabricated tank or vessel for interior lining.

B1.1 Joint Responsibilities

B1.1.1 The purchaser, designer, fabricator, lining applicator, and inspector(s) should review and agree to the requirements involved before contractual agreements are made.

B1.1.2 The purchaser, in agreement with the fabricator and lining applicator, should assign responsibility for inspection of fabrication, surface finish, and lining application, and such responsibility should be defined in all contracts.

B1.2 Responsibilities of the Purchaser (Owner or User)

B1.2.1 The purchaser should be responsible for specifying and/or approving the detail requirements for design, fabrication, and surface finish to all parties concerned.

B1.2.1.1 The detailed requirements should be fully described in writing and include drawings of the tank or vessel to be fabricated and lined and service requirements.

B1.2.1.2 The purchaser should advise the designer, fabricator, lining applicator, and all inspectors of the detailed requirements, including time schedules, inspection, and acceptable requirements, in writing.

B1.3 Responsibilities of the Designer

B1.3.1 The designer should be responsible for including the required fabrication and surface details on all sketches and drawings related to the tank or vessel.

B1.4 Responsibilities of the Fabricator

B1.4.1 The fabricator should be responsible for adhering to the fabrication and surface finish details shown on the working drawings and described in the tank or vessel specifications.

B1.4.2 Responsibility for an inspection of the blast or any additional welding, grinding, or surface finishing that may be revealed by the surface preparation for lining, plus any subsequent reblasting, should be defined in the lining contract.

B1.4.3 The fabricator, when checking the quality of the weld, should use only those materials that can be readily and thoroughly removed by the fabricator after completion of the inspection procedure.

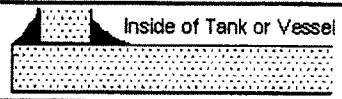
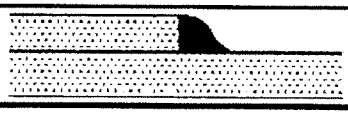
B1.5 Responsibilities of the Lining Applicator

B1.5.1 Responsibility for additional welding, grinding, or surface finishing that may be revealed by the surface preparation for lining, plus any subsequent reblasting, should be defined in the lining contract.

B1.6 Responsibilities of the Inspector(s)

B1.6.1 A qualified inspector whose qualifications and affiliation are acceptable to all parties should be responsible for the verification of fulfillment of design, fabrication, and surface finish requirements.

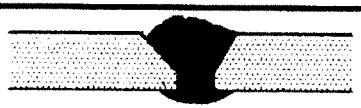
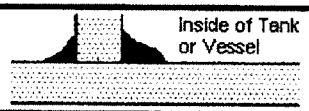
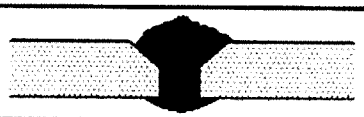
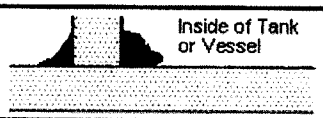
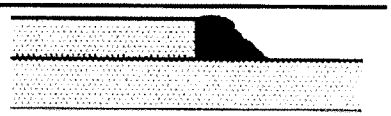
Appendix C—Written and Graphic Descriptions of Various Degrees of Surface Finishing of Welds That May Be Specified in Preparation for Lining of Tanks and Vessels [A]

NACE Weld Preparation Designation	Type of Grinding	Butt Weld	Fillet Welded Tee Joint	Lap Weld
A	Ground flush and smooth; free of all defects.[B]	Weld spatter is removed and all surface imperfections are repaired as necessary. The weld is ground flush with the plate surface.	Not Applicable	Not Applicable
			Not Applicable	Not Applicable
B	Ground flush	Minor imperfections such as porosity and undercutting exist. The weld is ground flush with the plate surface.	Not Applicable	Not Applicable
			Not Applicable	Not Applicable
C	Ground smooth; free of all defects.[B]	Weld spatter is removed and all surface imperfections are repaired as necessary. The weld is ground smooth and blended into the plate surfaces.	Weld spatter is removed and all surface imperfections are repaired as necessary. The weld is ground smooth and blended into the plate surfaces.	Fillet weld between the two plates. Weld spatter is removed and all surface imperfections are repaired as necessary. The weld is ground smooth and blended into the plate surfaces.
				

[A] The written descriptions of the various degrees of surface preparation of welds in the appendices of this standard take precedence over the graphics and the companion visual comparator. The graphics are only pictorial representations of welds and grinding finishes and are not intended to be representative of the integrity of the welds. The "weld condition prior to finishing" is not a typical weld; it is only intended to illustrate defects in welds that must be corrected prior to lining. Good welding practices and welding codes govern the integrity of the tank and vessel welds; this standard only addresses surface preparation of the welds for the purpose of lining the tank or vessel for immersion service.

The visual comparator mentioned in Appendix C is a molded plastic replica that illustrates various degrees of surface finishing for welds prior to coating or lining. Full-seam welds, skip welds, butt welds, lap welds, and others are depicted. For more information, contact the NACE International FirstService Department, 1440 South Creek Dr., Houston, Texas 77084-4906 (telephone +1 281/228-6200).

Appendix C (Continued)[1]

NACE Weld Preparation Design	Type of Grinding	Butt Weld	Fillet Welded Tee Joint	Lap Weld
D	Ground smooth and blended.[2]	Minor imperfections such as porosity and undercutting exist. Weld spatter is removed; welds are then ground smooth and blended into the plate surfaces.	Minor imperfections such as porosity and undercutting exist. Weld spatter is removed; welds are then ground smooth and blended into the plate surfaces.	Minor imperfections such as porosity and undercutting exist. Weld spatter is removed; welds are then ground smooth and blended into the plate surfaces.
				
E	Minimal	Sharp projections on the weld bead, slag, and weld spatter are removed.	Sharp projections on the weld bead, slag, and weld spatter are removed.	Sharp projections on the weld bead, slag, and weld spatter are removed.
				
Weld Condition Prior to Finishing				

[1] The written descriptions of the various degrees of surface preparation of welds in the appendix of this standard take precedence over the graphics and the companion visual comparator. The graphics are only pictorial representations of the welds and grinding finishes and are not intended to be representative of the integrity of the welds. The "as is" original weld is not a typical weld; it is only intended to illustrate defects in welds that must be corrected prior to coating and lining. Good welding practices and welding codes govern the integrity of the weld; this standard only addresses surface preparation of the welds for the purpose of coating and lining for immersion service.

[2] Abrasive blasting in preparation for coating may reveal additional porosity and undercutting. Some applicators request the fabrication to blast the welds to reveal these imperfections prior to requesting inspection of the grinding by the lining applicator. Responsibility for repair of imperfections so revealed should be resolved in the pre-job conference.

The visual comparator mentioned in Appendix C is a molded plastic replica that illustrates various degrees of surface finishing for welds prior to coating or lining. Full-seam welds, skip welds, butt welds, lap welds, and others are depicted. For more information, contact the NACE International FirstService Department, 1440 South Creek Dr., Houston, Texas 77084-4906 (telephone +1 281/228-6200).

ISBN 1-57590-167-6
NACE International

APPENDIX D

INSPECTION & EVALUATION METHODS

1.0|INSPECTION AND EVALUATION METHODS

Some or all of the following procedures were performed as applicable.

1.1|Methods

1.1.1 The inspection of the base metal and coatings on interior and exterior surfaces included only areas accessible without scaffolding or special rigging. Where possible, the base metal and coating on the interior wet surfaces were examined from either a rubber raft while the tank was being drained, by a Remote Operated Vehicle (ROV) with the tower in service, or with both.

1.1.2 Tank plate thickness was measured at random locations on the liquid holding shell. The overall structural condition of the tank was visually examined.

1.1.3 No structural analysis was done to determine if the tank design complies with the AWWA D100-11 Standard for "Welded Carbon Steel Tanks for Water Storage." However, any observed non-conformance to the AWWA D100-11 standard is noted in this report.

1.1.4 Although compliance with OSHA regulations was not a part of this inspection, any unsafe conditions or violations of current OSHA regulation that were observed are noted in this report.

1.2|Examination and Evaluation Techniques

Some or all of the following procedures were performed as applicable.

1.2.1|Site

The tank site was evaluated for proper drainage conditions affecting access and lead paint abatement during reconditioning.

Also, the following site dimensions were obtained: distance to fence(s), power lines, owner buildings, public property, private property/buildings, school/playgrounds, public parks, and other property.

1.2.2|Foundations

The tank concrete foundation(s) were/was visually examined for cracks, spalling, conditions of grout, indications of distress/settlement, and elevation above grade.

1.2.3|Tank Plate Thickness

Plate thickness measurements were taken using ultrasonic methods (UTM). The readings were taken using a digital readout Nova D-100 Ultrasonic Thickness Gage that has a dual element probe (transducer). The probe's transmitter element sends a short ultrasonic pulse to the material. The pulse, reflected as an echo from the opposite side of the plate

returns to the probe's receiver element. The round-trip time is directly related to the material's thickness.

1.2.4|Coating Thickness

Interior and exterior coatings, where accessible, were tested in accordance with Steel Structures Painting Council SSPC-PA2-82 "Measurement of Dry Film Thickness with Magnetic Gages" using PosiTector-6000-F1 Type 2 magnet flux gages with a fixed probe.

1.2.5|Coating Adhesion

Adhesion testing of the coating to the steel was performed by ASTM D-3359: Shear Adhesion Test, Measuring Adhesion by Tape Test. In addition, subjective coating adhesion evaluation was performed using a penknife.

1.2.6|Coating Cure

The cure of the interior wet coating was evaluated by ASTM D-5402-93 Standard Practice for Assessing the Solvent Resistance of Organic Coatings Using Solvent Rubs and/or with the manufacturer's recommended field method/industry standard procedures.

1.2.7|Coating Serviceability

The estimated remaining coating life or serviceability evaluation was performed using a wide variety of inspection instruments such as dry film thickness gauge, pen knife, Tooke gauge, adhesion tester(s), 30x microscope and serviceability evaluation experience (minimum experience 10 years).

The instrument inspection was combined with a close visual inspection of all the interior coating's accessible areas. This was done to detect any holidays (misses), skips, runs, sags, surface containments, overspray, dry spray, poor coating cohesion, inter-coat delamination, loss of adhesion to the substrate, adverse conditions of the steel underneath the coating, or any other defects affecting the intended service.

1.2.8|Coating Lead and Chromium Content Analysis

Samples may have been taken of the various types of coatings present on the interior and exterior surfaces. Corrosion Control Consultants and Labs of Kentwood, Michigan tests these coatings in conformance with ASTM D-3335 Standard Test Methods for Concentrations of Lead and Chromium in Paint.

APPENDIX E

PAINT CHIP TEST RESULTS

ANALYTICAL LABORATORY REPORT

Tuesday, June 16, 2020

CUSTOMER: KLM Engineering, Inc.
1976 Wooddale Drive
Woodbury, MN 55125

DATE RECEIVED: Monday, June 15, 2020
PO/PROJECT #: MN4125
SUBMITTAL #: 2020-06-15-002

LAB NUMBER: AC97276

Sampled By: Devin Severson
Job Location: Abbotsford, WI
Sample Identification: 1 Interior Wet Top Shell Course

Date Sampled: 6/11/2020
Sample Description: Paint Chips

Preparation Method: EPA 3050B-P-M (Acid Digestion for Paints)
Analysis Method: EPA 6010C-M (ICP-AES Method for Determination of Metals)
Date Analyzed: Tuesday, June 16, 2020

ELEMENT	RESULT (by dry weight)	REPORTING LIMIT (RL)
Cadmium	< RL	0.00075 %
Chromium	0.0018 %	0.0013 %
Lead	< RL	0.0025 %

LAB NUMBER: AC97277

Sampled By: Devin Severson
Job Location: Abbotsford, WI
Sample Identification: 2 Exterior Roof Plate

Date Sampled: 6/11/2020
Sample Description: Paint Chips

Preparation Method: EPA 3050B-P-M (Acid Digestion for Paints)
Analysis Method: EPA 6010C-M (ICP-AES Method for Determination of Metals)
Date Analyzed: Tuesday, June 16, 2020

ELEMENT	RESULT (by dry weight)	REPORTING LIMIT (RL)
Cadmium	0.0013 %	0.00075 %
Chromium	0.68 %	0.0013 %
Lead	0.78 %	0.0025 %

LAB NUMBER: AC97278

Sampled By: Devin Severson
Job Location: Abbotsford, WI
Sample Identification: 3 Exterior Top Shell

Date Sampled: 6/11/2020
Sample Description: Paint Chips

Preparation Method: EPA 3050B-P-M (Acid Digestion for Paints)
Analysis Method: EPA 6010C-M (ICP-AES Method for Determination of Metals)
Date Analyzed: Tuesday, June 16, 2020

ELEMENT	RESULT (by dry weight)	REPORTING LIMIT (RL)
Cadmium	0.0076 %	0.00075 %
Chromium	0.47 %	0.0013 %
Lead	4.5 %	0.0025 %

ANALYTICAL LABORATORY REPORT

Tuesday, June 16, 2020

CUSTOMER: KLM Engineering, Inc.
1976 Wooddale Drive
Woodbury, MN 55125

DATE RECEIVED: Monday, June 15, 2020
PO/PROJECT #: MN4125
SUBMITTAL #: 2020-06-15-002

LAB NUMBER: AC97279

Sampled By: Devin Severson
Job Location: Abbotsford, WI
Sample Identification: 4 Exterior Bottom Shell Course

Date Sampled: 6/11/2020
Sample Description: Paint Chips

Preparation Method: EPA 3050B-P-M (Acid Digestion for Paints)
Analysis Method: EPA 6010C-M (ICP-AES Method for Determination of Metals)
Date Analyzed: Tuesday, June 16, 2020

ELEMENT	RESULT (by dry weight)	REPORTING LIMIT (RL)
Cadmium	**< RL**	0.00075 %
Chromium	**0.94 %**	0.0013 %
Lead	**0.026 %**	0.0025 %

ANALYTICAL LABORATORY REPORT

CUSTOMER: KLM Engineering, Inc.
1976 Wooddale Drive
Woodbury, MN 55125

DATE RECEIVED: Monday, June 15, 2020
PO/PROJECT #: MN4125
SUBMITTAL #: 2020-06-15-002

Unless otherwise noted, the condition of each sample was acceptable upon receipt, all laboratory quality control requirements were met, and sample results have not been adjusted based on field blank or other analytical blank results. Individual sample results relate only to the sample as received by the laboratory.

Digitally signed by Katie Root
Date: 2020.06.16 17:35:08 -04'00'

Tests Reviewed By: Katie Root, QA/QC Manager

Reporting Limit (RL): The lowest concentration of analyte in a sample that can be reported with a defined, reproducible level of certainty. This value is based on the lowest standard used for instrument calibration and must be at least twice the MDL.

GPI Laboratories, Inc. has obtained accreditation under the following programs:

- **National Lead Laboratory Accreditation Program (NLLAP)**
  A2LA: American Association for Laboratory Accreditation (Certificate 5033.01) (www.a2la.org)
- **OH:** Ohio Department of Health Lead Poisoning Prevention Program, Approval #E10013 (www.odh.ohio.gov)
- **National Environmental Laboratory Accreditation Program (NELAP)**
  NY: State of New York Department of Health, Laboratory ID#11609 (Serial # 61448-61452) (518-485-5570)
  LA: State of Louisiana Department of Environmental Quality, Laboratory ID#180321 (Certificate 05036) (www.deq.louisiana.gov)
  OK: Oklahoma Department of Environmental Quality, Laboratory ID#9993 (Certificate 2019-057) (www.deq.state.ok.us)

Testing which is performed by GPI Laboratories, Inc. according to test methods, or for elements which are not included in the table below fall outside of the current scope of laboratory accreditation. Customers are encouraged to verify the current accreditation status with the individual accreditation programs by calling or visiting the appropriate website for the applicable program.

SCOPE OF ACCREDITATION

Air and Emissions

Element/Test	Method	Accreditation(s)
Suspended Particulates: PM10 / TSP	40 CFR 50 Appendix J / 40 CFR 50 Appendix B	NY, LA
Lead in Airborne Dust	40 CFR 50 Appendix G	A2LA, LA
Lead in Airborne Dust	NIOSH 7300	A2LA, OH, NY, LA
Metals in Airborne Dust	NIOSH 7300	A2LA

Solid Chemical Materials

Element/Test	Method	Accreditation(s)
TCLP	EPA 1311(Sample Preparation Method)	NY, LA, OK
Lead in Soil	EPA 3050B/ EPA 6010C	A2LA, OH, NY, LA, OK
Lead in Paint	EPA 3050B/ EPA 6010C	A2LA, OH, NY, LA
Lead in Paint	ASTM D 3335-85A/ EPA 6010C	NY
Lead in Dust Wipes	EPA 3050B/ EPA 6010C	A2LA, OH, NY, LA
Ignitability	EPA 1010A	NY
pH	EPA 9045D	NY

	Non-Potable Water / Analysis by ICP		Solid Chemical Materials	
Element/Test	Method	Accreditation(s)	Method	Accreditation(s)
Arsenic	EPA 6010C/ EPA 200.7 Rev 4.4	NY, LA, OK	EPA 6010C	NY, LA, OK
Barium	EPA 6010C/ EPA 200.7 Rev 4.4	NY, LA, OK	EPA 6010C	NY, LA, OK
Cadmium	EPA 6010C/ EPA 200.7 Rev 4.4	NY, LA, OK	EPA 6010C	NY, LA, OK
Chromium	EPA 6010C/ EPA 200.7 Rev 4.4	NY, LA, OK	EPA 6010C	NY, LA, OK
Copper	EPA 6010C/ EPA 200.7 Rev 4.4	NY, LA, OK	EPA 6010C	NY, LA, OK
Lead	EPA 6010C/ EPA 200.7 Rev 4.4	NY, LA, OK	EPA 6010C	NY, LA, OK
Mercury	EPA 245.1 Rev.3/ EPA 7470A	NY, LA, OK	EPA 7471B	NY, LA, OK
Nickel	EPA 6010C/ EPA 200.7 Rev 4.4	NY, LA, OK	EPA 6010C	NY, LA, OK
Selenium	EPA 6010C/ EPA 200.7 Rev 4.4	NY, LA, OK	EPA 6010C	NY, LA, OK
Silver	EPA 6010C/ EPA 200.7 Rev 4.4	NY, LA, OK	EPA 6010C	NY, LA, OK
Zinc	EPA 6010C/ EPA 200.7 Rev 4.4	NY, LA, OK	EPA 6010C	NY, LA, OK
Cobalt	—	—	EPA 6010C	NY, LA, OK
Manganese	—	—	EPA 6010C	NY, LA, OK
Acid Digestion	EPA 3010A	NY, LA	EPA 3050B	NY, LA

CHAIN OF CUSTODY FORM

GPI

Send To:
GPI Laboratories, Inc.
4403 Donker Court, Grand Rapids MI 49512-4054
(616) 940-3112 | GRLabsInfo@gpinet.com | www.gpinet.com

FOR LAB USE ONLY			
Properly Contained	(YES)	NO	N/A
ASTM E1792 wipes	YES	NO	(N/A)
Adequate Ph Adjust	YES	NO	(N/A)
Lab acidified: By/Date: NA			

Company: KLM Engineering, Inc.	Address: 1976 Wooddale Drive, Suite 4, Woodbury, MN 55125	Company Contact: Laurie Sylte Telephone: 651-773-5111 E-Mail: lsylte@klmengineering.com	P.O./Proj #: MN4125 Location: Abbotsford, WI

Matrix	TCLP (Waste)	Metals Content	Other Tests	Turnaround Time
☑ Paint Chips ☐ Wipe ☐ Soil ☐ Filter ☐ Abrasive ☐ _____ ☐ Wastewater	☐ Lead ☐ RCRA (8) Metals ☐ _____	☐ Lead ☑ Lead, Cad., Chrome. ☐ RCRA (8) Metals ☐ _____	☐ pH (Corrosivity) ☐ Ignitability ☐ VOC (Method 24, etc) ☐ _____	☐ Same Day* ☑ Rush* ☐ Standard ☐ _____

Comments:

GPI Labs accepts Visa, MasterCard, and American Express. *Accelerated Turnaround is not available for every test. Please call for information.

Laboratory ID	Sample Number	Date/Time Sampled	Sample Identification / Location:	Special Instructions:	Wipes: Area wiped (sq.ft.)	Air Sampling Filters (☐ TSP ☐ PM10 ☐ 37 mm Cassette): Minutes	Flow Rate	UNITS
AC97276	1	6-11-2020	Interior Wet Top Shell Course					
97277	2	6-11-2020	Exterior Roof Plate					
97278	3	6-11-2020	Exterior Top Shell					
97279	4	6-11-2020	Exterior Bottom Shell Course					

Sampled By (Please print) : Devin Severson Date Submitted: 6-12-2020 Signature: Michelle Nelson

Received by: _____ Date/Time: _____ Relinquished Date/Time: _____

Received by: _____ Date/Time: _____ Relinquished Date/Time: _____

Page 1 of 1

Method of Shipment: _____

Received for Laboratory by: _____ Date/Time: 6-15-20 10:11 Submittal #: 2020-06-15-002 1/18/17 Form #: 53-12

JCI 6/15/20

219

PROPOSAL

CROSS-CONNECTION CONTROL SERVICES

City of Abbotsford

203 N First St.

Abbottsford, WI 54405

June 24th 2020

KEEPING DRINKING WATER SAFE FOR INDUSTRIES AND MUNICIPALITIES

For over 30 years, HydroCorp™ has been dedicated to safe drinking water for companies and communities across North America. Fortune 500 firms, metropolitan centers, utilities, small towns and businesses – all rely on HydroCorp to protect their water systems, averting backflow contamination and the acute health risks and financial liabilities it incurs.

HYDROCORP™

THE SAFE WATER AUTHORITY™

- Cross-Connection Control / Backflow Prevention
- Water Meter Change Out & Installation Services
- Legionella Prevention & Control
- Water System Surveys / Flow Diagrams
- Pipe System Mapping & Labeling
- Regulatory Compliance Assistance / Documentation

CORPORATE OFFICE
5700 CROOKS RD SUITE 100
TROY MI 48098
800.315.4305 TOLL FREE
262.264.6402 PHONE

PROJECT CONSULTANT: Craig Wolf
612-850-8939 CELL
cwolf@hydrocorpinc.com EMAIL

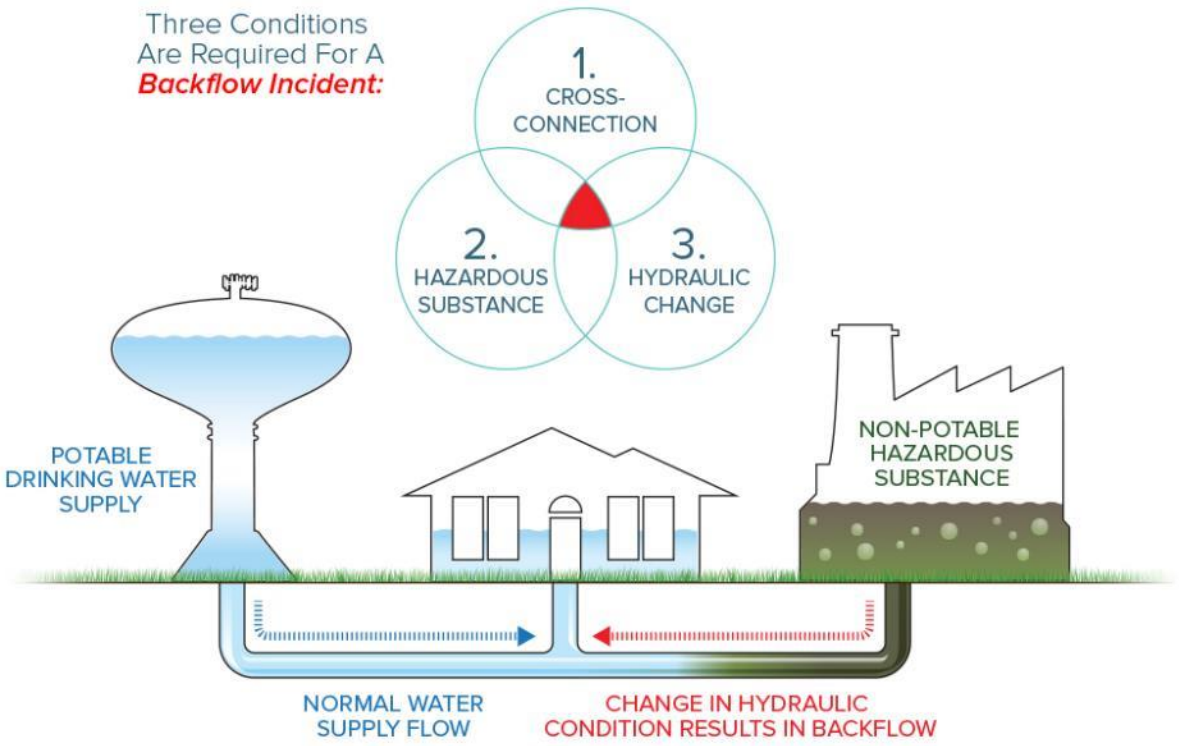
Table of Contents

1. INTRODUCTION 2
   1.1. Definitions 2
   1.2. Common Cross-Connection Hazards 3
2. PROJECT WORK PLAN 3
   2.1. Purpose of a Cross-Connection Control Program 3
   2.2. Meeting the Cross-Connection Control Program Objectives 3
   2.3. Stakeholders 4
   2.4. Cross-Connection Control Plan Components 5
3. CROSS CONNECTION INSPECTION PROCESS 6
   3.1. Inspections/Surveys 6
   3.2. Definitions 6
   3.3. CCC Program Process 7
   3.4. Postal Notification Process - Inspections 8
4. WATER CUSTOMER CARE AND ADMINISTRATION PROCESS 9
   4.1. Program Data 9
   4.2. Database Software 9
   4.3. Information Technology (I/T) 9
   4.4. Program Data Backup and Storage 9
   4.5. Public Awareness Education 10
5. EXECUTIVE SUMMARY, PROJECT FEES/COST 11
6. BACKGROUND 13
   6.1. The HydroCorp Promise 13
   6.2. Company Overview 13
   6.3. Office Address & Contact Information 14
7. PROJECT REFERENCES 14
8. PROJECT TEAM QUALIFICATIONS 15

1. INTRODUCTION

1.1. Definitions

- Backflow – the undesirable reversal of flow of liquid, gas or other substance in a piping system.
- Backflow Preventer – an assembly, device, or method that prevents backflow.
- Cross-Connection – an actual connection or a potential connection between any part of a potable water system and any other environment that would allow substances to enter the potable water system.
- Cross-Connection Control – a program to eliminate cross-connections or to prevent them from causing a public health threat.
- Cross-Connection Control Survey – the review of the plumbing system to determine the existence of potential or actual cross-connections and to assess the degree of hazard of protected and unprotected cross-connections.



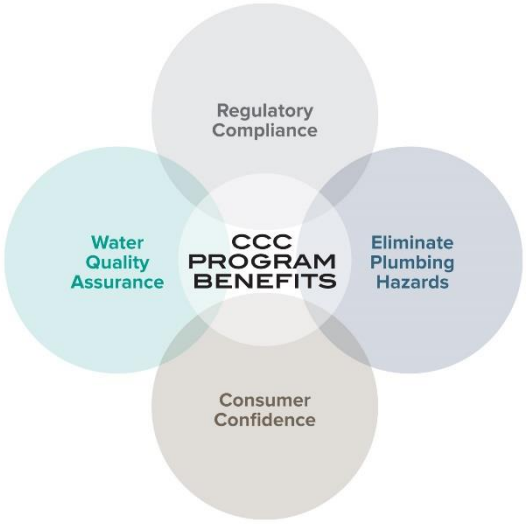
1.2. Common Cross-Connection Hazards

- Garden Hose connections with missing backflow preventers.
- Water Softener discharge lines directly connected to drain piping.
- Boilers with missing or inappropriate backflow preventers.
- Improperly installed or Backflow Prevention Assemblies missing test documentation.
- Toilets with faulty or unapproved anti-siphon fill valves.
- Lawn Irrigation systems with missing or inappropriate backflow preventers.
- Restaurant equipment connected to water supply with missing backflow preventers.
- Dental office equipment with missing backflow preventers.
- Fire Sprinkler systems with missing or inappropriate backflow preventers.
- Chemical mixing systems in janitorial closets with missing backflow preventers.

2. PROJECT WORK PLAN

2.1. Purpose of a Cross-Connection Control Program

- Protect the water supply from backflow & public health and safety.
- Comply with state and local regulations (WI-DNR 810.15).
- Minimize risk and liability.
- Eliminate hazardous cross-connections to the drinking water supply.

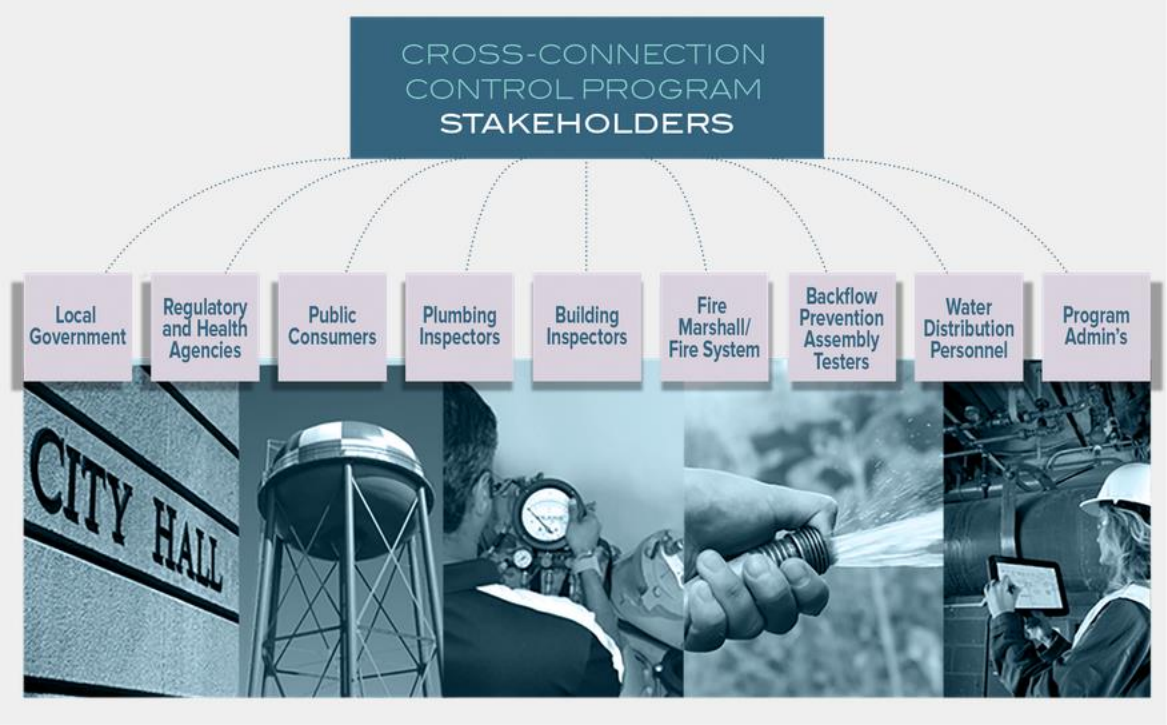


2.2. Meeting the Cross-Connection Control Program Objectives

- Providing cross-connection consultation to the **City of Abbotsford**.
- Developing a written comprehensive Cross-Connection Control Plan.
- Routinely inspecting water customers for cross-connections or potential cross-connections.
- Maintaining cross-connection control records.
- Notifying water customers of violations and corrective action instructions.
- Providing water customer non-compliance status to the water utility.
- Providing public education.

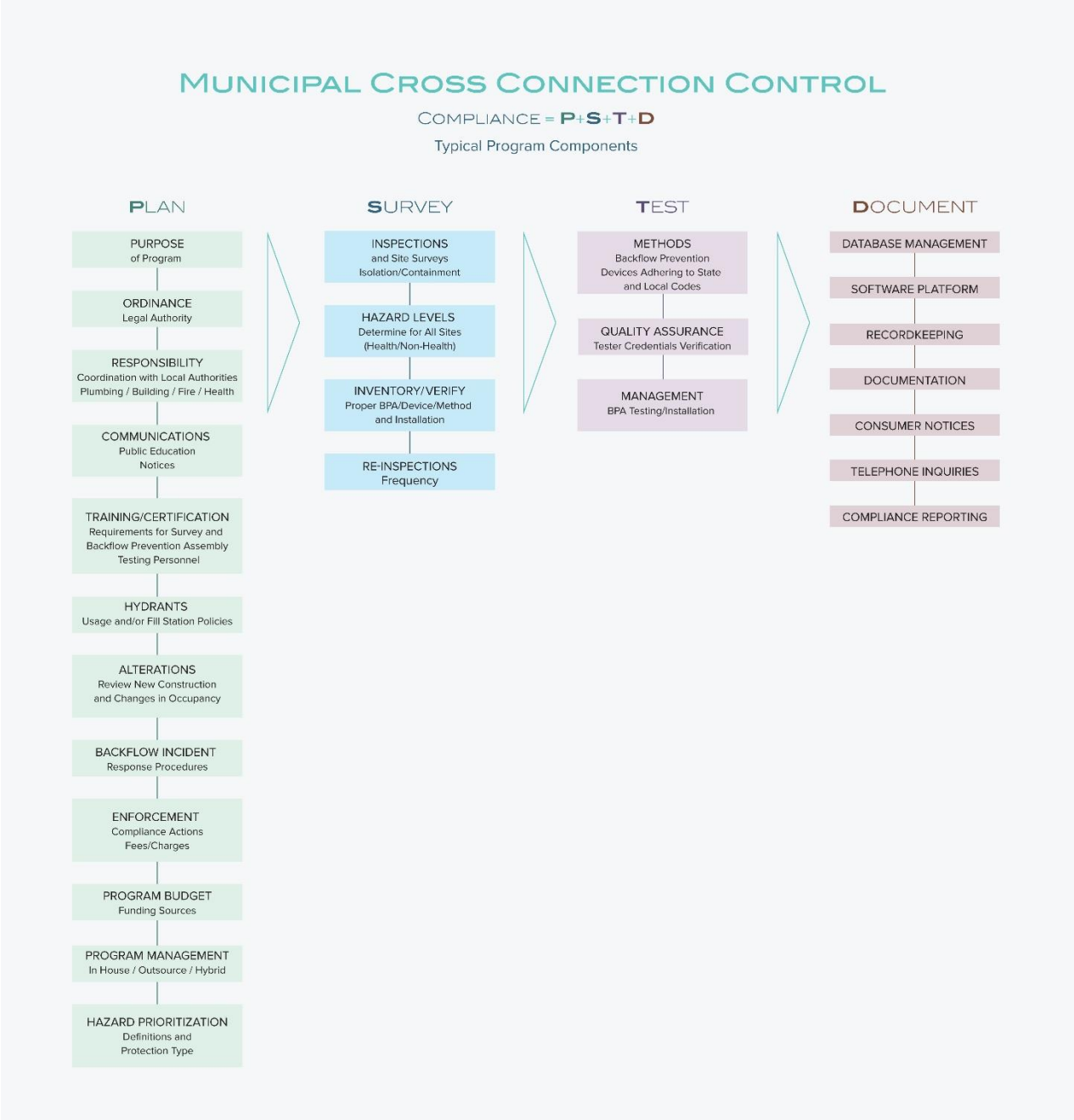
2.3. Stakeholders

HydroCorp recognizes that many different stakeholders will be affected by a Cross-Connection Control Program. The following chart illustrates the various agencies, internal staff and external people that have an impact on overall program success and compliance.



HydroCorp strives to maintain a good working relationship and clearly communicate the goals of a Cross-Connection Control Program with all of the above stakeholders. We understand that our staff interaction in the community and with regulatory agencies is an extension of your positive community image. HydroCorp has maintained an excellent working relationship with local Mayors, City Managers, plumbing and building officials, health inspectors and others in order to provide them with a simple and clear understanding of the impact of a Cross-Connection Control program, regulations and the need to protect the drinking water supply from contamination.

2.4. Cross-Connection Control Plan Components



3. CROSS CONNECTION INSPECTION PROCESS

3.1. Inspections/Surveys

The water connections and plumbing systems of all water customers or accounts shall be initially inspected for the presence of cross connections. As a result of the initial inspection, a detailed record of each account shall be established.

Inspections shall consist of entering a facility from the point where water service enters the facility (usually the meter) and tracing the piping to each end point of use. Using standardized inspection forms, the inspector shall identify and note the location and nature of any direct and potential cross connections, location and details of backflow prevention devices & assemblies, and other pertinent program information. Inspectors having proper identification shall be permitted to enter the building/premises at reasonable times for the purpose of cross connection inspections. If the inspector is refused proper access or if customer plumbing is untraceable, the City will assume a cross connection is present and take the necessary action to ensure the public water supply is protected.

The highest priority for inspections shall be placed on facilities that pose a high degree of hazard, that have a high probability that backflow will occur, or are known/suspected to have cross connections.

Once initial inspections are complete, a re-inspection frequency shall be determined for each account based on the degree of hazard/risk and potential for backflow in accordance with the requirements of the City of Abbotsford Cross-Connection Control Plan. Accounts with an alternative frequency will require DNR Approval in writing. If requested, HydroCorp will develop an alternative frequency inspection schedule on behalf of the water utility and submit to DNR for final approval.

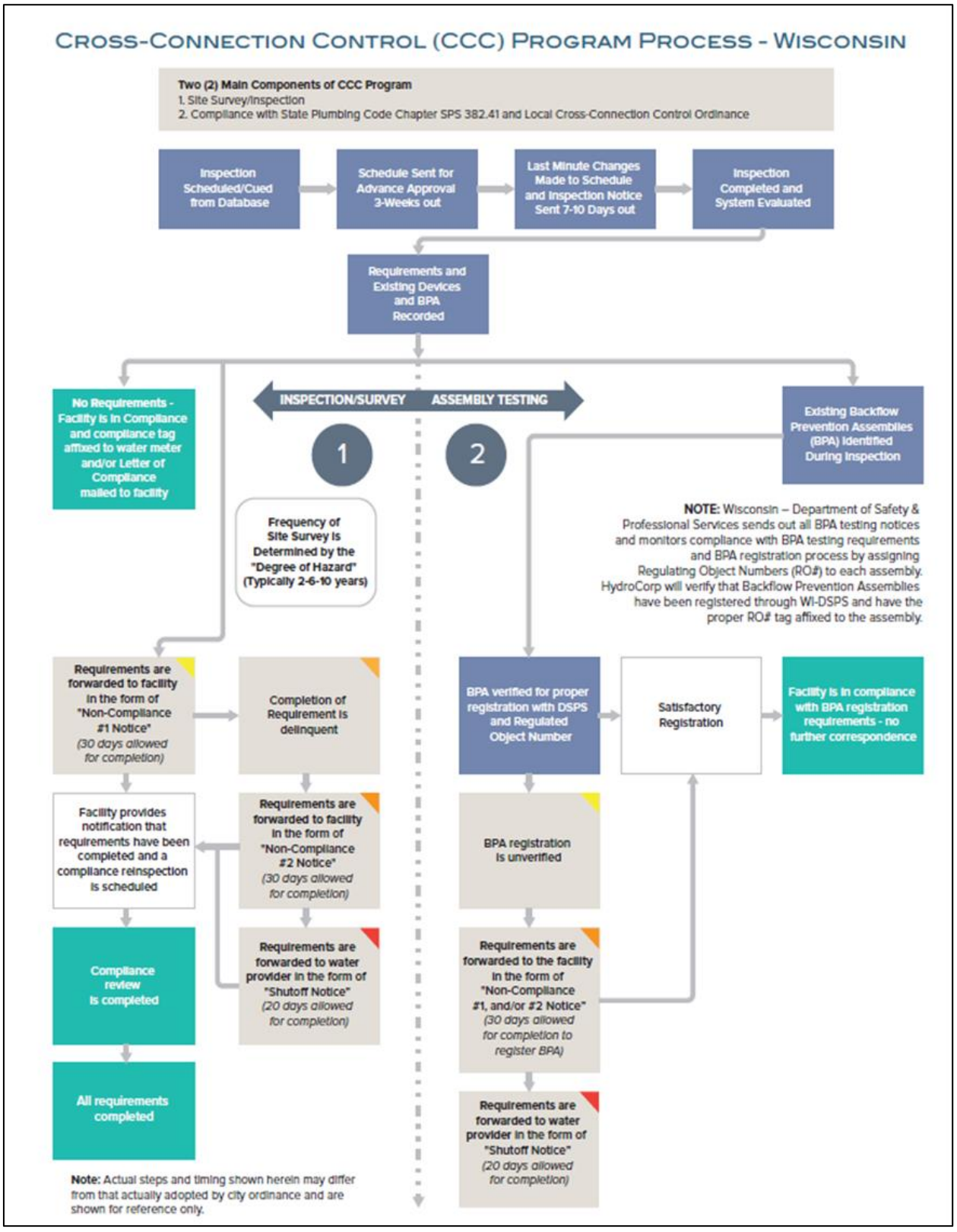
3.2. Definitions

- Initial Inspection – the first time a HydroCorp representative inspects a facility for cross connections. Degree of Hazard is assigned and/or verified during this facility visit. The Degree of Hazard will dictate future re-inspection frequency/schedule of facility, (facility will be either compliant or non-compliant after this inspection).

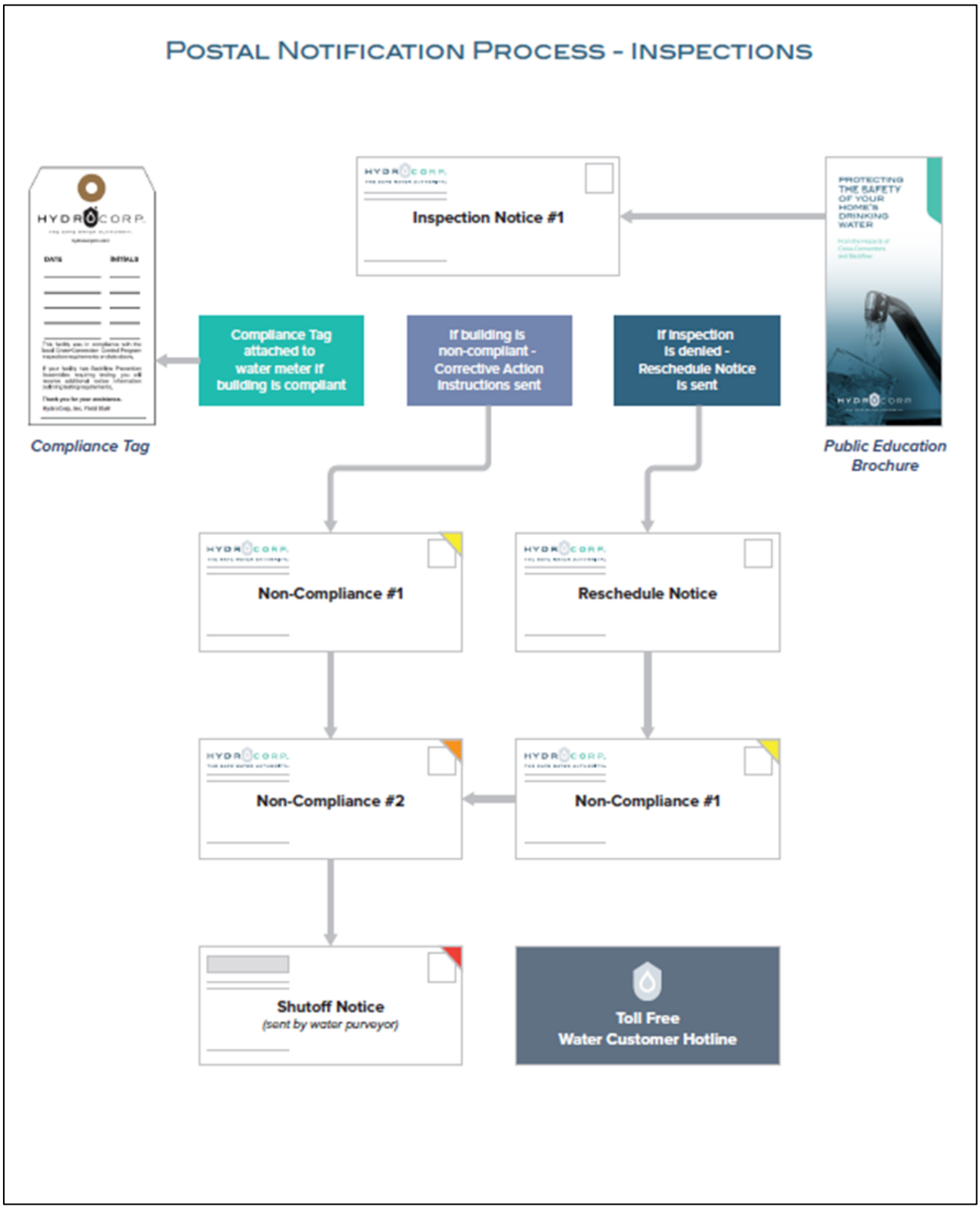
- Compliance Inspection – subsequent visit by a HydroCorp representative to a facility that was non-compliant during the Initial Inspection to verify that corrective action was completed and meets the program requirements.

- Re-Inspection – Revisit by a HydroCorp representative to a facility that was previously inspected. The re-inspection frequency/schedule is based on the degree of hazard assigned to the facility during the initial inspection (Re-Inspection cycle/frequency to be determined when Plan is developed).

3.3. CCC Program Process



3.4. Postal Notification Process - Inspections



4. WATER CUSTOMER CARE AND ADMINISTRATION PROCESS

4.1. Program Data

The most critical element of a Cross-Connection Control Program is data integrity. Without accurate data, the Cross-Connection Control program will experience customer service, administrative, and reporting issues and also result in field survey inefficiencies.

4.2. Database Software

HydroCorp utilizes a proprietary software program – HydroSoft™ to manage Cross-Connection Control Program data. All program data captured shall remain the property of the City of Abbotsford. All of our Client Data is secured on our Application Server, which is behind both a Hardware and a Software Firewall.
Standard reports include the following:

- Inspections scheduled, completed, overdue and compliance status
- Custom queries, data exports and reports as needed
- DNR Annual Report

4.3. Information Technology (I/T)

HydroCorp has a dedicated team member responsible for Information Technology (I/T) infrastructure for internal (staff) needs as well as external (client) communication and reporting needs. We also have a dedicated person responsible for new client start up and database implementation in order to insure we have the most accurate information possible at any given point in time.

We have continually invested in both hardware infrastructure (Network Servers, Client Workstations, Firewalls and Tablet P.C.'s for Field Inspectors) and software in order to leverage technology in the workplace and to improve customer service and assist in lowering our costs to our clients. HydroCorp has a contracted service agreement with a local I/T Company that performs monthly routine system maintenance and monitors our infrastructure/servers for optimum performance and reliability.

4.4. Program Data Backup and Storage

All of our Client Data is secured on our Application Server, which is behind both a Hardware and a Software Firewall. The Application Server is backed up twice a day. 5 copies of the backup are then created and stored at 3 separate locations. 3 of the 5 backup copies are stored locally. One is on the application server itself, one is on our File server, and one is backed up to a Network Attached Storage (NAS) device. Having 3 local backup copies stored on the different machines means that in the unlikely event of a hardware malfunction, we can recover the data very quickly. Additionally, we backup the data to our backup server located in our Corporate Office, and we employ a secure on-line backup service that stores 2 copies of our backup at two independent locations.

4.5. Public Awareness Education

In the initial implementation phase of the Cross-Connection Control Program, Public Education on the topic should remain in the community spotlight. HydroCorp will provide a specialized speaker to participate/present at a town hall/public meeting engagement if requested. Press release information will be offered in digital format to the City of Abbotsford for local distribution to local media resources & website if requested. Further, public education brochures will be available in electronic format for download and can be posted on the City of Abbotsford web site.

Further Public Education resources including brochures and video files can be found at http://www.hydrocorpinc.com/resources/links/

5. EXECUTIVE SUMMARY, PROJECT FEES/COST

Based on your current program, HydroCorp™ will provide the following services to the **City of Abbotsford.** This project is a continued effort for an ongoing Cross-Connection Control Program and will provide the **City of Abbotsford** with the necessary data and information to maintain compliance with the Wisconsin Department of Natural Resources (DNR) Water Bureau Cross Connection Control Regulations. Once this project has been approved and accepted by the **City of Abbotsford** and HydroCorp, you may expect completion of the following elements within a two (2) year period. The components of the project include:

A. Perform inspections of up to 90 Non-Residential water services within the City served by the public water supply for cross-connections. Compliance follow up visits shall be completed by HydroCorp and are included in the total inspections.

B. Inspections will be conducted in accordance with the DNR Water Bureau Cross Connection Control regulations. Inspectors will survey exposed piping and utilize Isolation/Point of Use inventory method of surveying as supported by the State of Wisconsin Plumbing Code – SPS 382.41.

C. HydroCorp will document existing backflow prevention devices and assemblies and verify proper installation and/or suggest corrective actions if devices and/or assemblies need to be installed to prevent cross-connections. Documentation to include make, model, size, manufacturer, serial number, location and regulated object number if applicable. In lieu of surveying residential kitchens and bathrooms, an educational brochure will be provided as allowed by DNR regulation NR 810.15.

D. Notify each building owner prior to each inspection via postal letter with opportunity to schedule a specific time of inspection via the Hydro Designs Inc. Provide ongoing support for water customer scheduling and questions via the Hydro Designs Inc. WI office toll free 800# phone line, fax, or email.

E. Provide Water Utility and building owner with a detailed corrective action report for each non-compliant facility, in most cases, water utility personnel can perform effective follow up compliance inspections.

F. Perform administrative functions including: answering water user telephone calls, scheduling of inspections, mailing of all notices, verification of corrective action(s) requirements, and general customer service and program education inquiries by an individual trained in Cross-Connection Control Program Management.

G. Generate and document the required program data and compliance status using proprietary Software Data Management Program. Submit comprehensive management reports on a quarterly basis and prepare the State of Wisconsin, DNR Water Bureau Annual Cross Connection Control Program Activity Report.

H. Conduct an annual review meeting to discuss overall program status and recommendations.

I. Assist the City with a community wide public relations program including general awareness brochures and web site cross connection control program overview content and resources.

J. Provide ongoing support via phone, fax, internet, text or email.

PRICING/PROPOSED FEES

HydroCorp to complete inspections, appointments, customer care service and program administration. Compliance/follow up inspections and administration related to compliance/follow up inspections included.

PRICING:

_____ Initial Inspections of 72 non-residential services connections and not more than an overall total of up to 90 inspections including follow up compliance inspections.

_____ $11,616.00 dollars.

HydroCorp will invoice monthly in equal installments upon receipt of signed contract/agreement

Submitted by: HYDROCORP- MIDWEST REGIONAL OFFICE- 2665 S MOORLAND RD SUITE 209 NEW BERLIN WI 53151

Craig Wolf | 612-850-8939 |cwolf@hydrocorpinc.com

Accepted by:

X _____ _____

Village/Utility Representative (Signature) Date

_____

Printed Name / Title

6. BACKGROUND

6.1. The HydroCorp Promise

HydroCorp is the Safe Water Authority.™ It is our duty to provide the most precise and comprehensive technical services in the industry. It also means delivering those services with expert knowledge, professionalism, and sensitivity to budgets and schedules – the highest standard of water safety oversight, combined with the highest value.

The Result – Your water system is compliant. Your risk and exposure are reduced. Your water – and your people – are protected.

6.2. Company Overview

- Founded in 1983 and incorporated in 1988.
- The firm has grown from two employees to a staff of over 40 full time associates in multiple states. Average tenure with the company is 7 years and employee turnover is less than 10%.
- HydroCorp Conducts over 25,000 on site, Cross-Connection Control Inspections ***annually.***
- HydroCorp provided Cross-Connection Control Program Management Services to over 240 communities in several states including: Michigan, Wisconsin, Delaware, Maryland, Virginia, Florida and Minnesota. We still have our first customer!
- Our highly trained staff works in an efficient manner in order to achieve maximum productivity and keep program costs affordable. We have a detailed **system** and **process** that each of our field inspectors follow in order to meet productivity and quality assurance goals.
- Our municipal inspection team is committed to providing outstanding customer service to the water users in each of the communities we serve. We teach and train customer service skills in addition to the technical skills since our team members act as representatives of the community that we service.
- Our municipal inspection team has attended training classes and received certification from the following recognized Cross Connection Control Programs: UF TREEO, UW-Madison, USC – Foundation for Cross Connection Control and Hydraulic Research, American Backflow Prevention Association (ABPA), and American Society for Sanitary Engineering (ASSE). We invest heavily in internal and external training with our team members to ensure that each Field Service and Administrative team member has the skills and abilities to meet the needs of our clients.
- Our administrative staff can answer most technical calls related to the cross-connection control program and have attended basic cross-connection control training classes.
- HydroCorp staff and company are active members in many water industry associations including:
    - American Water Works Association (AWWA) | AWWA – Wisconsin Chapter
    - National Rural Water Association (NRWA) | Wisconsin Rural Water Association
    - American Public Works Association (APWA)
- HydroCorp is <u>not</u> a Plumbing Company and does <u>not</u> utilize existing staff to perform backflow prevention assembly testing, repair or plumbing related services.

6.3. Office Address & Contact Information

Regional Office:	HYDROCORP – MIDWEST OFFICE 2665 S MOORLAND RD SUITE 209 NEW BERLIN WI 53151
Contact:	Craig Wolf
Telephone:	612-850-8939
Email:	cwolf@hydrocorpinc.com
Corporate Office: (Remit to Address)	HYDROCORP – CORPORATE OFFICE 5700 CROOKS ROAD SUITE 100 TROY MI 48098
Telephone:	800.690.6651 or 248.250.5000
Legal Status:	S-Corporation, 1988 | E.I.D. 38-2810008

WI Office (Above) Corporate Office (Below)

7. PROJECT REFERENCES

a) City of La Crosse, 400 La Crosse St, La Crosse, WI 54601 | Mark Johnson, Water Utility Manager johnsonm@cityoflacrosse.org | 608- 789-7536

b) City of Prescott, 800 Borner St. Prescott, WI 54021 | Hank Zwart, Public Works Director hzwart@prescottcity.org |715-262-5544

c) Sturgeon Bay Utilities, 230 E. Vine St, Sturgeon Bay, WI 53235-007 | Cliff White, Superintendent cwhite@wppienergy.org | 920-746-2820

8. PROJECT TEAM QUALIFICATIONS

Gary McLaren | *New Program Development/Training Coordinator -Midwest Region*

Gary is responsible for Cross-Connection classes and new Cross Connection Control Program development in the Midwest Region. Since 2004 at HydroCorp, he was responsible for identification of hazards and deficiencies and determining proper recommendations for over 80 municipal client cross-connection control programs in Wisconsin. He also generated inspection reports and protection recommendations for over 3,000 individual facility surveys of cross-connections. In the past 5 years, Gary has been focused on coordinating and instructing various Cross Connection Control classes around the Midwest in addition to developing new Cross Connection Control Programs for Municipal Water System around the region.

- Conducted Cross-Connection Surveys –45 North American Large Industrial Facilities 1999-2000
- Certification MDEQ (Michigan) Advanced Cross-Connection Control Training Program 2004
- Cross-Connection Control Program Manager –WI Region; 25 Water Utility clients 2005-2007
- Multiple published articles in Public Water System periodicals (WWA Magazine summer 2008 & WRWA Magazine winter 2011,2013)
- Annual participant & past presenter at annual WWA Conferences & WRWA Conferences 2008-2015
- Instructor at DNR class on Cross Connection Control – Green Bay, Dec. 11 2008
- Lead Instructor with Wisconsin Rural Water Association Cross Connection Control Class Series – Statewide, 2009 -2014 (12 full day courses annually)
- Lead Instructor with Minnesota Rural Water Association Cross Connection Control Class Series – 2010 and 2013
- ASSE #5150 Certified Backflow Prevention Program Administrator
- ASSE #5120 Certified Cross Connection Control Surveyor
- Vice Chairperson – Wisconsin Water Association Education Committee 2011-2012

Scott Mitchell| *Operations Manager, Midwest Region - Municipal Division*

Scott has been with the HydroCorp team since 2011 and inspecting plumbing systems for over 7 years. As a Cross-Connection Surveyor, Scott has completed cross-connection inspections at over 20,000 individual commercial and industrial facilities. He currently oversees operational and administrative services for cross-connection control programs in the HydroCorp Midwest Region.

DAVE CARDINAL | *Vice President Municipal Division*

Dave has over twenty years' experience as a water professional and has a successful record of accomplishments in the cross-connection control industry. Experienced in program development, project management, developing and conducting employee education and training programs, developing and instructing State certified education and training classes, quality assurance, customer service, and client satisfaction. Experience, Training, Certifications:

- American Backflow Prevention Association (ABPA), MI Chapter, Vice President
- American Society of Sanitary Engineering (ASSE) Series 5000 Proctor
- American Society of Sanitary Engineering (ASSE) Standard #5110 Certified Backflow Prevention Assembly Tester and Standard #5120 -Surveyor | Certification #26905
- Michigan Certified Backflow Prevention Assembly Tester Certification – 2010, Certification #MPMCA-26905
- Dale Carnegie – Management Training for Managers 2005
- University of Florida – TREEO Center
    - Cross Connection Control: Survey and Inspection 2003
    - Cross Connection Control: Ordinance and Organization 2003
    - Cross Connection Control Program Manager 2003
- University of Southern California Foundation for Cross-Connection Control and Hydraulic Research – Backflow Prevention Assembly Tester, 1997

PROFESSIONAL SERVICE AGREEMENT

This agreement, made and entered into this October 1st, 2020 by and between the City of Abbotsford organized and existing under the laws of the State of Wisconsin, referred to as "Utility", and HydroCorp™ a Michigan Corporation, referred to as "HydroCorp".

WHEREAS, the Utility supplies potable water throughout its corporate boundary to property owners; and desires to enter into a professional services contract for cross connection control program inspection, reporting and management services.

WHEREAS, HydroCorp is experienced in and capable of supplying professional inspection of potable water distribution systems and cross connection control program management to the Utility and the Utility desires to engage HydroCorp to act as its independent contractor in its cross connection control program.

WHEREAS, the Utility has the authority under the laws of the State of Wisconsin and its local governing body to enter into this professional services contract.

NOW THEREFORE, in consideration of the mutual agreements herein contained, and subject to the terms and conditions herein stated, the parties agree as follows:

ARTICLE I. Purpose

During the term of this Agreement, the Utility agrees to engage HydroCorp as an independent contractor to inspect and document its findings on its potable water distribution system in public, commercial and industrial facilities within the community. Each party to this Agreement agrees that it will cooperate in good faith with the other, its agents, and subcontractors to facilitate the performance of the mutual obligations set forth in this Agreement. Both Parties to this Agreement recognize and acknowledge that the information presented to them is complete and accurate, yet due to the inaccessible nature of water piping or due to access constraints within water users' facilities, complete and accurate data is not always available.

ARTICLE II. Scope of Services

The scope of services to be provided by HydroCorp under this Agreement will include the inspections/surveys, program administration, answering telephone call inquires, scheduling of inspections, program compliance review, public education materials, preparation of quarterly management reports, and annual cross connection reports with respect to the facilities to the extent specifically set forth in this Article II (hereinafter the "Scope of Services"). Should other reports/services be included within the Scope of Services, the same shall be appended to this Agreement as Exhibit 1.

2.1 **PROGRAM REVIEW/PROGRAM START UP MEETING.** HydroCorp will conduct a Program Startup Meeting for the Cross-Connection Control/Backflow Prevention Program. Items for discussion/review will include the following:

- Review state & local regulations
- Review and/or provide assistance in establishing local Cross-Connection Control Ordinance
- Review/establish wording and timeliness for program notifications including:
  - Inspection Notice
  - Compliance Notice
  - Non-Compliance Notices 1-2, Penalty Notices
- Special Program Notices
- Electronic use of notices/program information
- Obtain updated facility listing, address information and existing program data from Utility
- Prioritize Inspections (City buildings, schools, high hazard facilities, special circumstances.)
- Review/establish procedure for vacant facilities
- Establish facility inspection schedule
- Review/establish procedures and protocol for addressing specific hazards
- Review/establish high hazard, complex facilities and large industrial facility inspection/containment procedures including supplemental information/notification that may be requested from these types of facilities in order to achieve program compliance.
- Review/establish program reporting procedures including electronic reporting tools
- Review/establish educational and public awareness brochures

2.2 **INSPECTIONS.** HydroCorp will perform initial inspections, compliance inspections, and re-inspections at individual industrial, commercial, institutional facilities and miscellaneous water users within the utility served by the public water supply for cross-connections. Inspections will be conducted in accordance with Wisconsin Department of Natural Resources (DNR) Cross Connection Control Rules.

- *Initial Inspection* – the first time a HydroCorp representative inspects a facility for cross connections. Degree of Hazard will be assigned and/or verified during this facility visit. The Degree of Hazard will dictate future re-inspection frequency/schedule of facility, (facility will be either compliant or non-compliant after this inspection).
- *Compliance Inspection* – subsequent visit by a HydroCorp representative to a facility that was non-compliant during the *Initial Inspection* to verify that corrective action was completed and meets the program requirements.
- *Re-Inspection* – Revisit by a HydroCorp representative to a facility that was previously inspected. The re-inspection frequency/schedule is based on the degree of hazard assigned to the facility during the initial inspection (two, six or ten year re-inspection cycle).

2.3 **INSPECTION SCHEDULE.** HydroCorp shall determine and coordinate the inspection schedule. Inspection personnel will check in/out on a daily basis with the Utility's designated contact person. The initial check in will include a list of inspections scheduled. An exit interview will include a list of inspections completed.

2.4 **PROGRAM DATA.** HydroCorp will generate and document the required program data for the Facility Types listed in the Scope of Services using the HydroCorp Software Data Management Program. Program Data shall remain property of the Utility; however, the HydroCorp Software Data Management program shall remain the property of HydroCorp and can be purchased for an additional fee. Data services will include:

- Prioritize and schedule inspections
- Notify users of inspections, backflow device installation and testing requirements if applicable
- Monitor inspection compliance using the HydroCorp online software management program. (Note: WI Department of Safety & Professional Services (DSPS) manages backflow prevention assembly testing notification and compliance.)
- Maintain program to comply with all DNR regulations

2.5 **MANAGEMENT REPORTS.** HydroCorp will submit comprehensive management reports in electronic, downloadable format on a quarterly & annual basis to the Utility. Reports to include the following information:

- Name, location and date of inspections
- Number of facilities inspected/surveyed
- Number of facilities compliant/non-compliant

2.6 **REVIEW OF CROSS-CONNECTION CONTROL ORDINANCE.** HydroCorp will review or assist in the development of a cross-connection control ordinance. Items for review include:

- Code adoption references, standard operational procedures, program notice documentation, reporting procedures and preference standards.
- Penalties for noncompliance.

2.7 **VACUUM BREAKERS.** The City will provide up to six (6) ASSE approved hose bill vacuum breakers or anti-frost hose bibb vacuum breakers per facility as required, in order to place a facility into immediate compliance at the time of inspection if no other cross-connections are identified.

2.8 **PUBLIC RELATIONS PROGRAM.** HydroCorp will assist the Utility with a community-wide public relations program including general awareness brochures and website cross connection control program content.

2.9 **SUPPORT.** HydroCorp will provide ongoing support via phone, fax, text, website or email for the contract period.

2.10 **FACILITY TYPES.** The facility types included in the program are as follows:

- Industrial
- Institutional
- Commercial
- Miscellaneous Water users
- Residential
- Multifamily

Complex Facilities. Large industrial and high hazard complexes or facilities may require inspection/survey services outside the scope of this Agreement. (HydroCorp typically allows a maximum of up to three (3) hours of inspection time per facility.) An independent cross connection control survey (at the business owner's expense) may be required at these larger/complex facilities and the results submitted to the Utility to help verify program compliance.

2.11 **INSPECTION TERMS.** HydroCorp will perform up to 90 total inspections over a two (2) year contract period. The total inspections include all initial inspections, compliance and re-inspections. *Vacant facilities that have been provided to HydroCorp, scheduled no show or refusal of onsite inspection will count as an inspection/site visit for purposes of the contract*.

2.12 **COMPLIANCE WITH DEPARTMENT OF NATURAL RESOURCES ADMINISTRATIVE CODE.** HydroCorp will assist in compliance with DNR and Wisconsin Administrative Code cross connection control program requirements for all commercial, industrial, institutional, multifamily and public authority facilities.

2.13 **POLICY MANUAL.** HydroCorp will review and/or develop a comprehensive cross connection control policy manual/plan and submit to WI-DNR for approval on behalf of the Utility.

2.14 **INVENTORY.** HydroCorp shall inventory all accessible (ground level) backflow prevention assemblies and devices. Documentation will include: location, size, make, model and serial number if applicable.

2.15 **DATA MANAGEMENT.** HydroCorp shall provide data management and program notices for all inspection services throughout the contract period.

2.16 **ANNUAL YEAR END REVIEW.** HydroCorp will conduct an on-site annual year-end review meeting to discuss overall program status and specific program recommendations.

2.17 **CROSS CONNECTION CONTROL BROCHURES.** HydroCorp will provide approximately 90 cross-connection control educational brochures for the duration of the Agreement.

2.18 **INSURANCE.** HydroCorp will provide all required copies of general liability, workers compensation and errors and omissions insurance naming the Utility as an additional insured if required.

ARTICLE III. Responsibilities of the Utility

3.1 UTILITY'S REPRESENTATIVE. On or before the date services are to commence under this Agreement, the Utility shall designate an authorized representative ("Authorized Representative") to administer this Agreement.

3.2 COMPLIANCE WITH LAWS. The Utility, with the technical and professional assistance of HydroCorp, shall comply with all applicable local, state, and federal laws, codes, ordinances, and regulations as they pertain to the water inspection and testing, and shall pay for any capital improvements needed to bring the water treatment and delivery system into compliance with the aforementioned laws.

3.3 NOTICE OF LITIGATION. In the event that the Utility or HydroCorp has or receives notice of or undertakes the prosecution of any actions, claims, suits, administrative proceedings, investigations or other proceedings in connection with this Agreement, the party receiving such notice or undertaking of such prosecution shall give the other party timely notice of such proceedings and will inform the other party in advance of all hearings regarding such proceedings

3.4 FACILITY LISTING. The Utility must provide HydroCorp a complete list of facilities to be inspected, including facility name, type of service connection, address, contact person, and phone number, (if available). ***Electronic file format such as Microsoft Excel, etc. is required. An additional one-time fee to manually enter facility listing will be charged at the rate of $80.00 per hour. Incorrect facility addresses will be returned to the Utility contact and corrected address will be requested***.

3.5 LETTERHEAD/LOGO. The Utility will provide HydroCorp with an electronic file copy of the utility logo or utility letterhead and all envelopes for the mailing of all official program correspondence only. (300 dpi in either .eps, or other high quality image format for printing.)

ARTICLE IV. Term, Compensation and Changes in Scope of Services

4.1 TERM AND TERMINATION TERM. Services by HydroCorp under this Agreement shall commence on **October 1st 2020** and end **two (2) years** from such date, unless this Agreement is renewed or terminated as provided herein. The terms of this Agreement shall be valid only upon the execution of this Agreement within ninety (90) days of its receipt. Failure to execute this Agreement within the ninety (90) day period shall deem the proposed terms void.

4.2 RENEWAL. Upon the expiration of this Agreement the utility will have the option to renew under the same terms of this Agreement for two (2) consecutive one (1) year periods. Base Compensation increases will be equal to CPI at the time of extension or 3%, whichever is less.

4.3 TERMINATION. The Utility or HydroCorp may terminate this Agreement at any time and on any date in the initial and renewal terms of this Agreement, with or without any cause, by giving written notice of such intent to terminate to the other party at least thirty (30) days prior to the effective date of termination. Notice of the intent to terminate shall be given in writing by personal service, by an authorized agent, or by certified mail, return receipt requested. The Utility shall pay the balance of any outstanding accounts for work performed by HydroCorp.

4.4 BASE COMPENSATION. From the Beginning thirty (30) days after execution of this Agreement, the Utility shall pay HydroCorp as compensation ("Base Compensation") for labor, equipment, material, supplies, and utilities provided and the services performed pursuant to this Agreement, the sum of **$484.00** per month, **$5,808.00** annually for a **two (2)** year contract period totaling **$11,616.00.**

4.5 PAYMENT OF INVOICES. Upon presentation of invoices by HydroCorp, all payments including base and other compensation shall be due and payable on the first day of each month (due date) after the month for which services have been rendered. All such payments shall be made no later than thirty (30) days after the due date. Failure to pay shall be deemed a default under this Agreement. For any payment to HydroCorp which is not made within thirty (30) calendar days after the due date, HydroCorp, shall receive interest at one and one-half (1½) percent per month on the unpaid balance.

4.6 CHANGES IN SCOPE OF SERVICES. In the event that the Utility requests and HydroCorp consents to perform additional work or services involving the consulting, management, operation, maintenance, and repair of the Utility's water delivery system where such services or work exceeds or changes the Scope of Services contemplated under this Agreement, HydroCorp shall be provided additional compensation. Within thirty (30) calendar days from the date of notice of such additional work or services, the parties shall mutually agree upon an equitable sum for additional compensation. This amount shall be added to the monthly sum effective at the time of change in scope. Changes in the Scope of Service include, but are not limited to, requests for additional service by the Utility or additional costs incurred in meeting new or changed government regulations or reporting requirements.

4.7 CLIENT CONFIDENTIALITY. Disclosure of all communications between HydroCorp and the Utility regarding business practices and other methods and forms of doing business is subject to the provisions of Wisconsin Public Records Law, Chapter 19, Wis. Stats. HydroCorp agrees to make available for inspection and copying all records (as defined in sec. 19.32 (2), Wis. Stats.) in its possession created, produced, collected or otherwise related to this Agreement to the same extent as if the records were maintained by the Utility. HydroCorp expressly acknowledges and agrees that its obligations concerning Public Records Law and compliance under this Agreement should not be limited by copyright, license, privacy and/or confidentiality except as authorized under the Public Records Law.

4.8 ACCESSIBILITY. Backflow prevention device information will be completed in full only when the identifying information (i.e. data plate, brass tag, etc.) is accessible and visible from ground level or from a fixed platform/mezzanine.

4.9 CONFINED SPACES. – HydroCorp personnel will not enter confined spaces.

ARTICLE V. Risk Management and General Provisions

5.1 INFORMATION. Both Parties to this Agreement recognize and acknowledge that the information presented to them is complete to the best of their knowledge, yet due to the inaccessible nature of water piping or lack of access provided by property owner/water user, complete accurate data is not always available. Cross-connection control inspection and results are documented as of a specific date. The property owner and/or water user may make modifications to the potable water system after the inspection date that may impact compliance with the program.

5.2 LIMITATION OF LIABILITY. HydroCorp's liability to the Utility for any loss, damage, claim, or expense of any kind or nature caused directly or indirectly by the performance or non-performance of obligations pursuant to this Agreement shall be limited to general money damages in an amount not to exceed or within the limits of the insurance coverage provided hereunder. HydroCorp shall in no event be liable for indirect or consequential damages, including but not limited to, loss of profits, loss of revenue, or loss of facilities, based upon contract, negligence, or any other cause of action.

5.3 **HYDROCORP INSURANCE.** HydroCorp currently maintains the following insurance coverage's and limits:

	Occurrence	Aggregate
Comprehensive General Liability	$1 Million	$2 Million
Excess Umbrella Liability	$5 Million	$5 Million
Automobile Liability (Combined Single Limit)	$1 Million	
Worker's Compensation/ Employer's Liability	$1 Million	
Errors and Omissions	$2 Million	$2 Million

Within thirty (30) calendar days of the start of the project, HydroCorp shall furnish the Utility with satisfactory proof of such insurance, and each policy will require a 30-day notice of cancellation to be given to the Utility while this Agreement is in effect. The Utility shall be named as an additional insured according to its interest under the general liability policy during the term of this Agreement.

5.4 **UTILITY INSURANCE.** The Utility will maintain liability insurance on an all risk basis and including extended coverage for matters set forth in this Agreement.

5.5 **RELATIONSHIP.** The relationship of HydroCorp to the Utility is that of independent contractor and not one of employment. None of the employees or agents of HydroCorp shall be considered employees of the Utility. For the purposes of all state, local, and federal laws and regulations, the Utility shall exercise primary management, and operational and financial decision-making authority.

5.6 **ENTIRE AGREEMENT AMENDMENTS.** This Agreement contains the entire Agreement between the Utility and HydroCorp, and supersedes all prior or contemporaneous communications, representations, understandings, or agreements. This Agreement may be modified only by a written amendment signed by both parties.

5.7 **HEADINGS, ATTACHMENTS, AND EXHIBITS.** The heading contained in this Agreement is for reference only and shall not in any way affect the meaning or interpretation of this Agreement. The Attachments and Exhibits to this Agreement shall be construed as integral parts of this Agreement.

5.8 **WAIVER.** The failure on the part of either party to enforce its rights as to any provision of this Agreement shall not be construed as a waiver of its rights to enforce such provisions in the future.

5.9 **ASSIGNMENT.** This Agreement shall not be assigned by either party without the prior written consent of the other unless such assignment shall be to the affiliate or successor of either party.

5.10 **FORCE MAJEURE.** A party's performance under this Agreement shall be excused if, and to the extent that, the party is unable to perform because of actions due to causes beyond its reasonable control such as, but not limited to, Acts of God, the acts of civil or military authority, loss of potable water sources, water system contamination, floods, quarantine restrictions, riot, strikes, commercial impossibility, fires, explosions, bombing, and all such interruptions of business, casualties, events, or circumstances reasonably beyond the control of the party obligated to perform, whether such other causes are related or unrelated, similar or dissimilar, to any of the foregoing. In the event of any such force majeure, the party unable to perform shall promptly notify the other party of the existence of such force majeure and shall be required to resume performance of its obligations under this Agreement upon the termination of the aforementioned force majeure.

5.11 **AUTHORITY TO CONTRACT.** Each party warrants and represents that it has authority to enter into this Agreement and to perform the obligations, including any payment obligations, under this Agreement.

5.12 **GOVERNING LAW AND VENUE.** This Agreement shall be governed by and construed in accordance with the laws of the State of Wisconsin, regardless of the fact that any of the parties hereto may be or may become a resident of a different state or jurisdiction. Any suit or action arising shall be filed in a court of competent jurisdiction within the State of Wisconsin, venue by the presiding County. The parties hereby consent to the personal jurisdiction of said court within the State of Wisconsin

.

5.13 **COUNTERPARTS.** This Agreement may be executed in any number of counterparts, each of which shall be deemed to be an original and all of which together shall be deemed to be one and the same instrument.

5.14 **NOTICES.** All notices, requests, demands, payments and other communications which are required or may be given under this Agreement shall be in writing and shall be deemed to have been duly given if delivered personally or sent by nationally recognized overnight carrier, or mailed by certified mail, postage prepaid, return receipt requested, as follows:

If to HydroCorp:

HydroCorp
c/o Craig Wolf
5700 Crooks Road, Ste. 100
Troy, MI 48337
(248) 250-5005

If to Utility:

City of Abbotsford
203 N First St
Abbotsford, WI, 54405

5.15 **SEVERABILITY.** Should any part of this Agreement for any reason, be declared invalid or void, such declaration will not affect the remaining portion, which will remain in full force and effect as if the Agreement has been executed with the invalid portion eliminated.

SIGNATURES

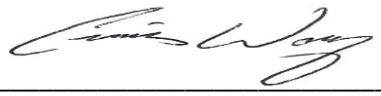
IN WITNESS WHEREOF, the parties have duly executed this Agreement effective as of the date first above written.

City of Abbotsford

_____

By:
Title:

HydroCorp



_____

By: Craig Wolf

Appendix

Specific Qualifications & Experience

HydroCorp™ is a professional service organization that specializes in Cross Connection Control Programs. Cross Connection Control Program Management & Training is the main core and focus of our business. We are committed to providing water utilities and local communities with a cost effective and professionally managed cross connection control program in order to assist in protecting the public water supply.

- HydroCorp conducts over 30,000 Cross Connection Control Inspections ***annually***.
- HydroCorp tracks and manages over 35,000+ backflow prevention assemblies for our Municipal client base.
- Our highly trained staff works in an efficient manner in order to achieve maximum productivity and keep program costs affordable. We have a detailed **system** and **process** that each of our field inspectors follow in order to meet productivity and quality assurance goals.
- Our municipal inspection team is committed to providing outstanding customer service to the water users in each of the communities we serve. We teach and train customer service skills in addition to the technical skills since our team members act as representatives of the community that we service.
- Our municipal inspection team has attended training classes and received certification from the following recognized Cross Connection Control Programs: UF TREEO, UW-Madison, and USC – Foundation for Cross Connection Control and Hydraulic Research, American Backflow Prevention Association (ABPA), American Society for Sanitary Engineering (ASSE). HydroCorp recognizes the importance of Professional Development and Learning. We invest heavily in internal and external training with our team members to ensure that each Field Service and Administrative team member has the skills and abilities to meet the needs of our clients.
- We have a trained administrative staff to handle client needs, water user questions and answer telephone calls in a professional, timely and courtesy manner. Our administrative staff can answer most technical calls related to the cross connection control program and have attended basic cross connection control training classes.
- HydroCorp currently serves over 200 communities in Michigan, Wisconsin, Maryland, Delaware, Virginia & Florida. We still have our first customer!
- HydroCorp and its' staff are active members in many water industry associations including: National Rural Water Association, State Rural Water Associations, National AWWA, State AWWA Groups, HydroCorp is committed to assisting these organizations by providing training classes, seminars and assistance in the area of Cross Connection Control.
- Several Fortune 500 companies have relied on HydroCorp to provide Cross Connection Control Surveys, Program Management & Reporting to assist in meeting state/local regulations as well as internal company guidelines.

City of
ABBOTSFORD
Wisconsin's First City

P.O. Box 589 | 203 N. First St. | Abbotsford, WI 54405
Phone: 715-223-3444 | Fax: 715-223-8891
Website: www.ci.abbotsford.wi.us

APPLICATION FOR BEVERAGE OPERATOR'S LICENSE

Provisional License _____ Fee $15.00

Original License _____ Fee $25.00

Renewal License X Fee $25.00

City of Abbotsford
PO Box 589
Abbotsford, WI 54405

I, the undersigned, do hereby make application to the local governing body of the City of Abbotsford, Wisconsin for a license to serve, from **June 30, 2020 to June 30, 2021** inclusive (unless sooner revoked), fermented malt beverages and intoxicating liquors, subject to the limitations imposed by Section 125.32(2) and 125.68(2) of the Wisconsin Statues and all acts amendatory thereof and supplementary thereto, and hereby agree to comply with all laws, resolutions, ordinances and regulations; federal, state or local, affecting the sale of such beverages and liquors if a license be granted to me.

Albrecht Michelle R. Timm
Last First MI Maiden Name

[redacted]

Race Phone Number

[redacted]

Business License will be used

Have you been convicted of any felony **or** of violating any law of the State of Wisconsin or of the United States?

☐Yes Date of Conviction (If Any)_____

☒No Nature of Offense_____

Being first duly sworn on oath says that he/she is the person who made and signed the foregoing application for an operator's license; that all the statements made by the applicant are true.

Michelle R. Albrecht
Applicant's Signature

Received: 7 / 1 / 20 Added to Council Agenda: ___ / ___ / ___ Approved: ___ / ___ / ___

Account Number	Account Title	2017-17 Prior year 3 Actual	2018-18 Prior year 2 Actual	2019-19 Prior year Budget	2019-19 Prior year Actual	2020-20 Current year Budget	2020-20 Current year Actual	Percent of Budget
GENERAL FUND								
TAX & TAX EQUIVALENTS								
100-41110	GENERAL PROPERTY TAXES	799,159.00	873,664.99	.00	873,097.92	905,285.02	623,652.78	68.89%
100-41115	EXEMPT COMPUTER AID	4,237.00	4,299.28	1,150.00	4,403.32	4,403.32	.00	.00
100-41140	MOBILE HOME TAXES	13,199.39	27,952.57	12,000.00	18,096.98	12,000.00	10,678.61	77.88%
100-41200	ROOM TAX	30,000.74	22,645.48	30,000.00	26,702.53	50,000.00	6,380.84	12.76%
100-41310	UTILITY PAYMENT LIEU OF TAXES	144,905.00	160,910.00	137,000.00	160,910.00	161,000.00	.00	.00
100-41312	PILOT - IMPACT SEVEN	2,908.90	.00	3,000.00	.00	.00	.00	.00
100-41320	HOUS AUTH PAYMENT LIEU TAXES	11,629.65	11,606.55	11,000.00	.00	11,600.00	10,540.11	90.86%
100-41330	FRANCHISE FEES - CABLE	12,276.18	12,503.39	13,000.00	9,615.29	2,083.90	2,607.60	125.13%
100-41800	INTEREST ON TAXES	.00	.00	.00	.00	.00	.00	.00
100-41810	INTEREST ON A/R	48.82	88.48	.00	.39-	.00	.00	.00
Total TAX & TAX EQUIVALENTS:		1,018,364.68	1,113,670.74	207,150.00	1,092,825.65	1,146,372.24	653,859.94	56.92%
SPECIAL ASSESSMENTS								
100-42102	SPECIAL ASSESSMENT CURB/GUTTE	.00	.00	.00	.00	.00	.00	.00
Total SPECIAL ASSESSMENTS:		.00	.00	.00	.00	.00	.00	.00
STATE & LOCAL AID								
100-43310	STATE SHARED REVENUE	474,497.83	466,009.19	454,360.69	454,262.46	455,888.23	1,013.38	.22%
100-43311	PERSONAL PROPERTY AID - STATE	.00	.00	.00	11,541.67	11,541.67	7,740.27	67.06%
100-43420	2% FIRE INSURANCE TAX	5,323.47	5,592.69	5,300.00	5,972.36	5,300.00	.00	.00
100-43531	TRANSPORTATION AIDS	134,350.59	148,842.48	145,170.64	145,104.02	166,869.62	83,434.80	50.00%
100-43590	STATE RECYCLING RECEIPTS	7,788.27	7,790.94	7,800.00	.00	7,800.00	.00	107.39%
100-43610	PYMT MUNICIPAL SERVICES	3,145.98	2,373.64	2,373.64	.00	2,400.00	3,358.06	139.92%
100-43650	CDBG GRANT REVENUE	.00	346,548.57	.00	.00	.00	.00	.00
100-43690	OTHER STATE PAYMENTS	4,523.00	4,523.00	4,523.00	4,523.00	4,523.00	.00	.00
Total STATE & LOCAL AID:		629,629.14	981,680.51	619,527.97	621,403.51	654,322.52	95,546.51	15.88%
LICENSES & PERMITS								
100-44100	LICEN	8,353.00	8,237.00	8,300.00	7,405.44	8,300.00	6,592.22	85.86%
100-44101	LICENSES - CIGARETTES	.00	.00	.00	.00	.00	.00	.00
100-44200	LICENSES - DOG	273.87	326.76	400.00	601.26	400.00	510.00	182.89%
100-44300	BUILDING PERMITS	7,196.10	10,776.49	6,000.00	23,042.16	6,000.00	.00	149.80%
Total LICENSES & PERMITS:		15,822.97	19,340.25	14,700.00	31,048.86	14,700.00	7,102.22	114.60%
CHARGES TO THE PUBLIC								
100-46100	PUB CHGES FOR SERVICES GEN GO	760.00	25.50	600.00	.00	600.00	8.00	2.17%
100-46310	STREET MAINTENANCE & CONSTRU	4,136.00	365.00	500.00	.00	500.00	.00	.00
100-46430	SOLID WASTE DISPOSAL	.00	.00	.00	.00	.00	.00	.00
100-46433	GARBAGE COLLECTION REVENUE	69,586.60	77,775.48	70,000.00	91,583.50	116,325.00	36,708.58	31.56%
100-46440	MOWING	3,775.00	2,010.00	2,000.00	1,806.25	2,000.00	.00	.00
100-46900	OTHER PUB CHGES FOR SERVICES	27.45	.30-	.00	130.35	.00	115.15	.00
Total CHARGES TO THE PUBLIC:		78,285.05	80,175.68	73,100.00	93,520.10	119,425.00	36,831.73	30.87%
SOURCE: 47								
100-47331	INTERGOV'T CHGES HWY	160.00	.00	.00	.00	.00	.00	.00
Total SOURCE: 47:		160.00	.00	.00	.00	.00	.00	.00

Account Number	Account Title	2017-17 Prior year 3 Actual	2018-18 Prior year 2 Actual	2019-19 Prior year Budget	2019-19 Prior year Actual	2020-20 Current year Budget	2020-20 Current year Actual	Percent of Budget
INTEREST & DONATIONS								
100-48111	INTEREST INCOME	3,457.58	23,585.62	2,000.00	43,140.23	.00	2,671.05	.00
100-48130	INTEREST ON SPEC ASSESSMENTS	613.58	.00	400.00	.00	400.00	.00	.00
100-48150	MUNICIPAL BLDG FND INT	149.43	62.91	.00	.00	.00	.00	.00
100-48201	RENT OF CITY BUILDINGS	9,640.00	12,195.00	9,000.00	6,432.95	9,000.00	1,035.00	16.22%
100-48203	POLICE DEPT REV - MAINTENANCE	.00	.00	.00	.00	.00	.00	.00
100-48205	LEASE INCOME - CELL TOWERS	6,564.63	6,564.63	6,600.00	15,790.00	10,000.00	3,000.00	36.00%
100-48206	DB COMMUNICATIONS - LEASE	.00	.00	.00	.00	.00	3,263.18	.00
100-48225	RENT OF CITY EQUIPMENT	.00	595.50	.00	150.00	.00	.00	.00
100-48250	ADMIN LIBRARY	9,999.96	10,000.00	10,000.00	10,000.00	10,000.00	.00	.00
100-48306	SALE/RENT OF CITY PROPERTY	4,250.00	2,600.00	4,100.00	16,596.00	5,000.00	.00	.00
100-48307	CEMETARY - SALE OF PLOTS	.00	.00	.00	1,200.00	1,350.00	.00	.00
100-48500	DONATIONS	29,000.00	.00	.00	99,422.00	.00	48,500.00	.00
100-48501	MUNICIPAL BUILDING DONATIONS	5,000.00	.00	.00	.00	.00	.00	.00
100-48502	CEMETARY - SERVICE FEE	.00	1,570.68	1,350.00	.00	.00	.00	.00
100-48503	VENDING MACHINE	2,281.84	2,001.96	3,000.00	1,488.09	2,000.00	453.42	22.67%
100-48900	BLDG DONATIONS APPLIED	.00	.00	.00	.00	.00	.00	.00
100-48901	15 YR REPMT FROM WTR UTILITY	.00	.00	95,000.00	.00	95,000.00	.00	.00
100-48902	PROCEEDS FROM LONG-TERM DEBT	.00	.00	.00	.00	1,300,000.00	.00	.00
100-48903	SALES - PUBLIC WORKS	.00	.00	40,000.00	40,603.00	.00	.00	.00
100-48904	SAFE ROADS TO SCHOOL	.00	.00	63,585.00	.00	.00	.00	.00
100-48906	FIRE DEPT RENT	.00	.00	1,000.00	.00	.00	.00	.00
100-48907	INSURANCE REIMBURSE - FIRE	.00	.00	2,800.00	.00	.00	.00	.00
100-48908	OTHER MISCELLANEOUS REVENUE	18,134.34	40,386.28	66,945.75	34,292.53	112,300.00	29,423.15	26.98%
100-48909	OTHER MISC REVENUE - PW EQUIP	.00	.00	.00	42.00	.00	2,208.00	.00
100-48999	PY ROLL OVERS	20,007.56-	.00	.00	.00	.00	.00	.00
Total INTEREST & DONATIONS:		69,083.80	99,562.58	305,780.75	269,156.80	1,545,050.00	90,553.80	5.98%
GENERAL ADMINISTRATION								
100-51100-120	CITY COUNCIL-WAGES	18,220.00	19,372.86	19,000.00	12,125.00	19,000.00	3,995.00	28.03%
100-51100-123	CITY COUNCIL-HEALTH REIMBURSE	.00	.00	.00	.00	.00	350.00	.00
100-51100-151	CITY COUNCIL - FICA/MED	1,463.25	1,467.41	1,453.50	927.69	1,425.00	332.46	30.47%
100-51100-319	CITY COUNCIL-SUPP & EQUIP	21,710.10	6,365.55	500.00	78.29	500.00	.00	6.00%
100-51100-324	CITY COUNCIL-DUES	806.85	125.00	850.00	125.00	850.00	809.00	95.18%
100-51100-332	CITY COUNCIL-MEAL/MILE/SCHOOL	70.00-	753.00	500.00	47.56	500.00	35.00	7.00%
100-51300-216	GENERAL ADMINISTRATION-LEGAL	26,657.60	15,835.65	6,000.00	18,383.66	6,000.00	12,584.42	209.74%
100-51350-218	GENERAL ADMIN-CODIFICATION	913.25	2,490.00	2,500.00	4,142.53	5,000.00	.00	.00
100-51400-120	CITY CLERK-WAGES	33,062.67	44,673.51	10,608.00	25,318.64	10,926.24	6,535.98	70.09%
100-51400-123	CITY CLERK-HEALTH REIMBURSEME	.00	.00	.00	459.11	.00	812.04	.00
100-51400-151	CLERK - FICA/MED	2,933.88	2,027.59	811.51	1,936.15	835.36	562.09	78.62%
100-51400-152	CLERK - RETIREMENT	1,722.80	1,528.96	694.82	1,206.46	715.67	441.17	72.23%
100-51400-154	CLERK - HEALTH INSURANCE	.00	409.29	1,050.00	673.78	1,050.00	.00	.00
100-51400-156	CITY HALL WORKERS COMP	.00	.00	.00	2,878.00	.00	.00	.00
100-51401-319	CITY HALL - OFFICE SUPPLIES	5,527.47	10,207.78	6,100.00	12,968.00	5,000.00	7,051.41	144.40%
100-51401-320	CITY CLERK-COMP SUP/EQUIP	5,864.27	5,513.58	6,000.00	20,745.95	14,000.00	16,313.10	119.68%
100-51401-330	CITY CLERK-PRINTING	4,036.52	900.64	4,200.00	1,295.95	5,000.00	465.00	9.30%
100-51401-332	CITY HALL - MEAL/MILE/SCHOOL	3,000.95	566.12	3,000.00	2,185.00	5,000.00	94.76	3.79%
100-51401-399	CITY CLERK - PTY CSH OVR/UNDER	19.29	3.16	.00	.00	.00	.00	.00
100-51403-120	CITY ADMINISTRATOR - WAGES	.00	.00	14,000.00	11,911.96	14,280.00	6,061.53	50.17%
100-51403-123	CITY ADMIN HEALTH REIMBURSEMEN	.00	.00	.00	.00	.00	.00	.00
100-51403-151	CITY ADMINISTRATOR - FICA	.00	.00	1,071.00	851.85	1,092.42	440.29	47.63%
100-51403-152	CITY ADMINISTRATOR - RETIREMEN	.00	.00	917.00	779.44	935.34	407.77	51.52%
100-51403-154	CITY ADMINISTRATOR - HEALTH IN	.00	403.33	3,923.25	2,815.68	4,680.00	1,225.29	30.94%
100-51404-120	ADMIN ASST - WAGES	.00	.00	5,516.16	2,555.55	6,032.00	1,312.74	25.78%
100-51404-123	ADMIN ASST - HEALTH REIMBURSEM	.00	.00	.00	69.98	.00	490.03	.00

Account Number	Account Title	2017-17 Prior year 3 Actual	2018-18 Prior year 2 Actual	2019-19 Prior year Budget	2019-19 Prior year Actual	2020-20 Current year Budget	2020-20 Current year Actual	Percent of Budget
100-51404-151	ADMIN ASST - FICA	.00	.00	421.99	200.92	461.45	137.91	34.48%
100-51404-152	ADMIN ASST - RETIREMENT	.00	.00	361.31	165.11	395.10	88.61	26.57%
100-51404-154	ADMIN ASST - HEALTH INS	.00	.00	840.00	.00	840.00	.00	.00
100-51405-120	MAYOR-WAGES	6,550.00	8,178.57	6,550.00	7,150.00	7,050.00	3,000.00	51.77%
100-51405-123	MAYOR-HEALTH REIMBURSEMENT	.00	.00	.00	.00	.00	.00	.00
100-51405-151	MAYOR - FICA/MED	539.35	615.87	501.08	547.01	528.75	229.51	52.81%
100-51405-300	MAYOR-EXPENSE	318.00	145.55	300.00	.00	300.00	36.52	12.17%
100-51410-120	ELECTION-WAGES	2,298.77	6,601.90	4,000.00	1,348.48	7,000.00	1,473.75	21.05%
100-51410-300	ELECTION-EXPENSES	657.01	4,662.50	1,000.00	308.78	3,000.00	216.52	7.22%
100-51432-154	GENERAL ADMIN-PREM HEALTH	.00	4,656.58	.00	30,398.86	.00	8,799.48	.00
100-51432-212	GENERAL ADMIN-PHYS/DRUG TESTS	456.00	277.00	500.00	761.25	500.00	.00	.00
100-51500-218	GENERAL ADMIN-AUDITOR	12,819.76	8,055.34	15,000.00	5,701.66	5,000.00	1,950.00	39.00%
100-51510-215	GENERAL ADMIN-ASSESSOR	16,521.17	12,997.17	16,225.00	17,157.57	17,000.00	4,929.29	34.62%
100-51520-219	GENERAL ADMIN-PROF RECRUITMEN	.00	6,665.50	.00	.00	1,000.00	.00	.00
100-51600-120	CITY HALL-CLEANING WAGES	10,534.47	8,892.85	10,850.00	9,406.44	12,000.00	4,441.33	42.30%
100-51600-123	CITY HALL-HEALTH REIMBURSEMENT	.00	.00	.00	.00	.00	.00	.00
100-51600-151	CITY HALL-CLEANING - FICA/MED	1,623.67	1,270.53	830.03	1,190.02	900.00	339.77	43.14%
100-51600-152	CITY HALL-RETIREMENT	.00	.00	.00	145.66	.00	299.78	.00
100-51600-220	CITY HALL-UTILITIES	9,763.64	8,250.52	9,000.00	11,059.91	9,000.00	3,985.40	46.97%
100-51600-240	CITY -BLDG MAINT	21,749.20	18,468.52	30,000.00	49,296.99	30,000.00	4,073.13	15.21%
100-51601-120	CHAMBER OF COM - WAGES	.00	.00	.00	.00	.00	.00	.00
100-51601-123	CHAMBER OF COM - HEALTH REIMB	.00	.00	.00	.00	.00	.00	.00
100-51601-151	CHAMBER OF COM - FICA	.00	.00	.00	.00	.00	.00	.00
100-51620-220	GENERAL ADMIN-TELEPHONE	2,676.63	3,291.60	3,000.00	7,860.90	3,000.00	1,391.31	55.07%
100-51910-730	ILLEGAL TAXES	423.05	1,477.40	.00	.00	.00	.00	.00
100-51938-156	WORKERS COMP ADMIN	.00	.00	4,471.00	.00	14,775.00	.00	.00
100-51938-510	GENERAL ADMIN-PROP & LIAB INS	20,185.77	41,215.50	59,341.00	23,722.50	30,500.00	35,932.83	117.81%
100-51940-151	SS/MED MATCH EXPENSE	.00	47.36	.00	.00	.00	.00	.00
Total GENERAL ADMINISTRATION:		232,985.39	248,413.69	251,886.65	290,903.29	246,072.33	131,644.22	58.83%
PUBLIC SAFETY								
100-52100-120	SCHOOL CROSS GUARD-WAGES	1,324.98	898.16	500.00	2,265.75	2,100.00	530.00	25.24%
100-52100-121	LAW ENFORCEMNT-PLAN,MAINT,OPE	426,655.92	431,973.96	441,299.00	478,073.96	446,635.00	148,878.36	50.00%
100-52100-151	SCHOOL CROSSING GUARD FICA/ME	105.17	65.89	38.25	173.33	160.65	40.55	25.24%
100-52200-121	FIRE PROTECT-PLAN,MAINT,OPER	91,266.44	101,158.96	96,000.00	100,291.00	103,274.40	52,381.70	50.72%
100-52200-218	FIRE/AMB AUDIT EXP	.00	.00	.00	.00	.00	.00	.00
100-52200-590	FIRE PROTECTION	89,783.00	98,759.67	89,783.00	89,783.00	89,783.00	.00	.00
100-52200-591	FIRE PROTECTN-2% FIRE INS TAX	5,323.47	5,592.69	5,325.00	5,972.36	5,325.00	.00	.00
100-52200-810	FIRE CAP IMP FUND HELD BY CITY	.00	.00	.00	.00	.00	.00	.00
100-52300-121	AMBULANCE-PLAN,MAINT,OPER	.00	.00	.00	.00	.00	.00	.00
100-52400-398	BAD DEBT EXPENSE	.00	.00	.00	213.30	.00	.00	.00
100-52400-399	MISC EXPENSE	.00	.00	.00	770.08	.00	2,107.89	.00
Total PUBLIC SAFETY:		614,458.98	638,449.33	632,945.25	677,542.78	647,278.05	203,938.50	43.03%
PUBLIC WORKS								
100-53100-230	MACH/EQUIP/VEHICLES	4,543.00	139,590.50	50,000.00	.00	50,000.00	6,462.70	12.93%
100-53310-120	PUBLIC WORKS-WAGES	138,832.19	182,897.02	191,173.96	176,633.44	218,159.92	82,690.68	44.81%
100-53310-123	PUBLIC WORKS-HEALTH REIMBURSE	.00	.00	.00	2,606.47	.00	5,677.16	.00
100-53310-151	PUBLIC WORKS - FICA/MED	.00	.00	.00	3,726.81	.00	6,763.56	.00
100-53310-152	PUBLIC WORKS - RETIREMENT	.00	.00	.00	2,865.16	.00	5,526.57	.00
100-53310-154	PUBLIC WORKS - ADMIN HEALTH IN	.00	.00	6,149.25	.00	.00	1,225.29	.00
100-53311-121	PUBLIC WORKS-PLAN,MAINT,OPER	51,082.96	45,712.46	9,000.00	27,183.11	20,000.00	4,184.50	26.00%
100-53311-151	PUBLIC WORKS - FICA/MED	10,413.28	12,586.13	14,624.81	9,913.78	16,689.24	.00	.00
100-53311-152	PUBLIC WORKS - RETIREMENT	11,895.54	9,751.62	12,521.90	7,623.77	14,410.06	.00	.00

Account Number	Account Title	2017-17 Prior year 3 Actual	2018-18 Prior year 2 Actual	2019-19 Prior year Budget	2019-19 Prior year Actual	2020-20 Current year Budget	2020-20 Current year Actual	Percent of Budget
100-53311-154	PUBLIC WORKS - HEALTH INS.	.00	805.18	12,936.00	3,436.67	22,316.00	.00	.00
100-53311-156	PUBLIC WORKS - WORKERS COMP	.00	.00	.00	.00	.00	.00	.00
100-53311-190	PUBLIC WORKS - UNIFORMS CLOTHI	2,088.13	2,272.78	2,000.00	2,611.42	2,500.00	572.06	30.56%
100-53311-219	CDBG - PROFESSIONAL SERVICES	.00	129,583.15	.00	4,500.00	.00	.00	.00
100-53311-220	PUBLIC WORKS - UTILITIES	16,776.43	34,669.77	18,000.00	44,793.26	40,000.00	15,287.12	38.92%
100-53311-230	PUBLIC WORKS - VEHICLE MNTCE	16,783.15	10,805.74	20,000.00	11,286.10	20,000.00	2,799.35	18.39%
100-53311-231	STREET MAINT & SIDEWALK	.00	1,483.76	.00	2,689.75	.00	.00	.00
100-53311-332	PUBLIC WORKS - FUEL	10,566.01	16,477.67	12,000.00	16,519.37	20,000.00	4,829.41	26.12%
100-53311-370	PUBLIC WORKS - SALT	.00	.00	15,000.00	8,885.96	15,000.00	5,918.01	39.45%
100-53311-371	PUBLIC WORKS - CRACK FILLING	.00	.00	10,000.00	10,000.00	10,000.00	.00	100.00%
100-53311-372	PUBLIC WORKS - STREET SWEEPING	.00	.00	7,500.00	3,800.00	7,700.00	.00	.00
100-53311-399	SAFE ROUTE TO SCHOOL	.00	41,759.69	73,891.50	63,110.00	785,000.00-	35,518.72	-5.50%
100-53311-657	CDBG - 2018	750.00	531,856.16	.00	.00	.00	.00	.00
100-53311-810	PUBLIC WORKS-CAP IMPROVEMENT	120,630.47	100,266.90	180,000.00	224,368.42	257,622.52-	8,648.57	-3.67%
100-53311-811	CAP IMP - ENG/RPR	.00	36,860.27	.00	10,440.00	.00	.00	.00
100-53312-120	PUBLIC WORKS - BRUSH WAGES	16,959.24	3,126.74	7,099.93	4,191.94	7,314.15	.00	5.77%
100-53312-123	PUBLIC WORKS BRUSH HLTH REIMB	.00	.00	.00	.00	.00	.00	.00
100-53312-151	PUBLIC WORKS - BRUSH FICA/MED	1,269.02	292.91	543.14	320.69	559.53	.00	5.77%
100-53312-152	PUBLIC WORKS - BRUSH RET	1,128.05	256.52	465.05	274.57	479.08	.00	5.94%
100-53312-154	PUBLIC WORKS - BRUSH HEALTH IN	.00	.00	630.00	.00	630.00	.00	.00
100-53313-120	PUBLIC WORKS - SNOW WAGES	19,826.06	16,392.60	18,459.83	23,223.29	.00	12,230.67	.00
100-53313-123	PUBLIC WORKS - SNOW HLTH REIMB	.00	.00	.00	52.51	.00	477.62	.00
100-53313-151	PUBLIC WORKS - SNOW FICA/MED	1,720.68	1,366.88	1,412.18	1,780.60	.00	972.17	.00
100-53313-152	PUBLIC WORKS - SNOW RET	1,529.69	1,197.16	1,209.12	1,521.10	.00	825.58	.00
100-53313-154	PUBLIC WORKS - SNOW HEALTH IN	.00	.00	1,638.00	.00	.00	.00	.00
100-53420-220	STREET LIGHTING-UTILITIES	26,439.80	1,941.58	25,000.00	1,758.92	.00	872.72	.00
100-53630-219	GARBAGE COLL-PROFESSIONAL SER	.00	63,868.05	.00	81,168.69	.00	21,950.80	.00
100-53631-215	LANDFILL- SUB TITLE D	6,300.00	6,300.00	6,580.00	6,300.00	4,950.00	3,436.14	73.39%
100-53631-219	RECYCLING - PROFESSIONAL SERV	82,235.17	26,907.79	70,000.00	33,034.41	66,325.00	9,135.39	17.16%
100-53631-220	RECYCLING -UTILITIES	.00	.00	.00	21.78	60,000.00	.00	.00
Total PUBLIC WORKS:		541,768.87	1,419,029.03	767,834.67	790,641.99	445,589.54-	236,004.79	-65.07%
CEMETERY								
100-54910-120	CEMETERY-WAGES	8,899.72	6,282.00	8,825.00	7,875.06	8,500.00	402.22	25.35%
100-54910-121	CEMETERY-PLAN,MAINT,OPER	91.60	271.90	.00	1,434.91	.00	.00	.00
100-54910-123	CEMETERY-HEALTH REIMBURSEMEN	.00	.00	.00	.00	.00	.00	.00
100-54910-151	CEMETERY - FICA/MED	680.58	480.65	675.11	601.36	637.50	30.76	25.86%
100-54910-241	CEMETERY-PERPETUAL CARE	212.14	141.42	.00	239.12	.00	.00	.00
Total CEMETERY:		9,884.04	7,175.97	9,500.11	10,150.45	9,137.50	432.98	29.91%
PARKS & REC								
100-55110-121	LIBRARY-PLAN,MAINT,OPER	69,108.00	84,616.00	89,415.00	89,415.00	92,330.92	38,471.25	41.67%
100-55150-121	SHORTNER PARK-PLAN,MAINT,OPER	64.12	3,372.88	.00	3,891.46	.00	700.35	.00
100-55150-220	SHORTNER PARK - UTILITIES	.00	.00	.00	.00	.00	32.96	.00
100-55200-015	PARKS PLAN	.00	.00	.00	2,401.94	.00	.00	.00
100-55200-120	PARKS AND RECREATION-WAGES	10,990.18	21,034.55	12,000.00	14,598.89	12,000.00	2,072.37	32.49%
100-55200-121	PARKS/REC-PLAN,MAINT,OPER	19,811.91	26,357.87	20,000.00	26,087.19	20,000.00	2,260.14	20.02%
100-55200-123	PARKS AND REC HEALTH REIMBURS	.00	.00	.00	.00	.00	.00	.00
100-55200-151	PARK & REC - FICA/MED	831.63	1,599.38	918.00	1,116.82	918.00	158.50	32.49%
100-55200-152	PARK & REC - RETIREMENT	509.62	938.24	.00	685.79	.00	117.56	.00
100-55200-220	PARKS - UTILITIES	.00	.00	.00	1,134.60	.00	1,657.77	.00
100-55200-319	PARKS AND RECREATN-SUP & EQUIP	.00	971.32	.00	1,062.21	.00	.00	.00
100-55200-324	CLARK CO ECO DEV MBSHP	1,000.00	1,500.00	1,500.00	1,503.00	3,400.00	3,397.50	99.93%
100-55200-810	PARKS AND RECREATION-CAP IMP	794.73	39,192.00	.00	.00	.00	.00	.00

Account Number	Account Title	2017-17 Prior year 3 Actual	2018-18 Prior year 2 Actual	2019-19 Prior year Budget	2019-19 Prior year Actual	2020-20 Current year Budget	2020-20 Current year Actual	Percent of Budget
100-55201-120	BEAUTIFICATION WAGES	.00	.00	.00	.00	.00	.00	.00
100-55201-123	BEAUTIFICATION HEALTH REIMBURS	.00	.00	.00	.00	.00	.00	.00
100-55201-151	BEAUTIFICATION - FICA/MED	.00	.00	.00	.00	.00	.00	.00
100-55201-340	BEAUTIFICATION	1,563.65	1,774.81	2,000.00	1,468.70	2,000.00	.00	66.03%
100-55290-321	CITY ADVERTISING/PROMOTION	7,385.20	5,956.77	8,000.00	12,021.67	8,000.00	.00	.00
100-55400-319	FIREWORKS-SUP & EQUIPMENT	2,301.00	2,500.00	2,500.00	3,700.00	3,700.00	3,700.00	100.00%
Total PARKS & REC:		114,360.04	189,813.82	136,333.00	159,087.27	142,348.92	52,568.40	40.81%
COST CATEGORY: 56								
100-56700-730	ROOM TAX EXPENSE	30,774.64	28,997.50	.00	34,822.22	35,000.00	6,380.84	18.23%
100-56705-311	VENDING MACHINE EXPENSE	1,117.81	1,119.74	.00	597.90	2,000.00	191.78	9.59%
Total COST CATEGORY: 56:		31,892.45	30,117.24	.00	35,420.12	37,000.00	6,572.62	17.76%
MUNICIPAL BUILDING								
100-57150-240	MUNICIPAL BUILDING	.00	.00	.00	.00	.00	.00	.00
100-57152-810	INDUSTRIAL PARK EXPANSION	.00	.00	.00	.00	.00	.00	.00
Total MUNICIPAL BUILDING:		.00	.00	.00	.00	.00	.00	.00
DEBT								
100-58100-610	PRINCIPAL - LONG TERM DEBT	215,415.56	33,491.01	110,012.95	39,054.52	33,229.37-	7,382.80	-22.22%
100-58110-610	PRINCIPAL - PUBLIC SAFETY	60,000.00	145,000.00	150,000.00	150,000.00	150,000.00	155,000.00	103.33%
100-58290-620	INTEREST - LONG TERM DEBT	64,415.42	52,252.02	51,678.75	53,081.95	26,178.47	23,182.98	88.56%
100-58300-900	CONTINGENCY	.00	.00	.00	.00	102,612.14	.00	.00
100-58390-610	BOND ISSUE COST	.00	.00	.00	.00	.00	.00	.00
Total DEBT:		339,830.98	230,743.03	311,691.70	242,136.47	245,561.24	185,565.78	75.57%
GENERAL FUND Revenue Total:		1,811,345.64	2,294,429.76	1,220,258.72	2,107,954.92	3,479,869.76	883,894.20	25.94%
GENERAL FUND Expenditure Total:		1,885,180.75	2,763,742.11	2,110,191.38	2,205,882.37	881,808.50	816,727.29	109.57%
Net Total GENERAL FUND:		73,835.11-	469,312.35-	889,932.66-	97,927.45-	2,598,061.26	67,166.91	-2.45%

Account Number	Account Title	2017-17 Prior year 3 Actual	2018-18 Prior year 2 Actual	2019-19 Prior year Budget	2019-19 Prior year Actual	2020-20 Current year Budget	2020-20 Current year Actual	Percent of Budget
LIBRARY FUND								
OTHER REVENUE								
400-40010	STATE AIDS	.00	.00	.00	.00	.00	.00	.00
400-40020	CLARK COUNTY AIDS	29,309.11	33,121.88	.00	33,508.53	31,518.65-	.00	.00
400-40021	Taylor County Aids	.00	.00	.00	.00	.00	1,689.53	.00
400-40030	CITY OF ABBOTSFORD	69,108.00	84,556.00	.00	89,415.00	92,330.92-	38,471.25	-41.67%
400-40040	OTHER REVENUES	5,979.41	2,783.57	.00	3,043.38	440.00-	31,518.65	-7,163.33
400-40041	FINES/PRINTER	2,451.63	2,976.65	.00	3,134.95	2,200.00-	736.78	-37.05%
400-40042	FROM SVGS	.00	.00	.00	.00	.00	.00	.00
400-40043	DONATIONS	80.00	1,250.00	.00	4,500.00	4,600.00-	1,500.00	-33.04%
Total OTHER REVENUE:		106,928.15	124,688.10	.00	133,601.86	131,089.57-	73,916.21	-56.46%
STATE & LOCAL AID								
400-43790	GRANTS FROM OTHER LOCAL GOVT	3,100.00	240.00	.00	.00	1,689.53-	.00	.00
Total STATE & LOCAL AID:		3,100.00	240.00	.00	.00	1,689.53-	.00	.00
INTEREST & DONATIONS								
400-48111	INTEREST INCOME	411.03	193.42	.00	165.28	50.00-	70.72	-141.44%
Total INTEREST & DONATIONS:		411.03	193.42	.00	165.28	50.00-	70.72	-141.44%
LIBRARY EXPENSES								
400-55140-120	LIBRARY COMPENSATION-SALARIES	61,808.72	62,990.84	.00	63,456.98	76,119.75	26,973.16	41.85%
400-55140-151	LIBRARY COMPENSATION-FICA/MED	4,583.14	4,634.62	.00	4,744.69	.00	2,010.43	.00
400-55140-152	LIBRARY COMPENSATION-RETIREMN	3,536.68	3,150.02	.00	3,121.39	150.00	1,392.59	1,095.29%
400-55141-100	LIBRARY COMPENSATION - IND PR	.00	.00	.00	.00	6,760.00	.00	.00
400-55142-154	HEALTH INSURANCE - LIB	8,155.79	8,178.33	.00	8,254.78	.00	2,773.32	.00
400-55147-720	GRANT EXPENSE/NON BUDGETED	785.37	2,216.57	.00	198.64-	.00	217.40	.00
400-55150-311	BOOKS	18,691.60	17,573.03	.00	18,782.28	19,000.00	10,074.25	58.66%
400-55151-311	PERIODICALS	1,698.02	1,629.59	.00	958.39	1,500.00	216.24	14.42%
400-55152-319	OFFICE & COMPUTER	2,006.58	1,930.91	.00	1,861.87	2,000.00	769.94	49.89%
400-55153-311	AUDIO VISUAL MATERIALS	2,833.69	2,945.58	.00	2,548.59	3,000.00	1,082.36	36.08%
400-55154-319	COMPUTER SUPPLIES	.00	.00	.00	.00	.00	.00	.00
400-55155-311	PROGRAMING & SPECIALS	1,302.81	1,599.91	.00	1,383.28	1,800.00	430.99	25.14%
400-55156-211	LICENSES	.00	.00	.00	.00	3,737.00	.00	.00
400-55156-340	EQUIPMENT	2,855.33	637.00	.00	1,814.87	3,000.00	1,089.34	36.31%
400-55157-311	WORKSHOPS AND EDUCATION	.00	.00	.00	202.32	400.00	.00	.00
400-55158-220	TELEPHONE AND T1 LINE	3,080.94	3,429.39	.00	879.98	840.00	760.53	108.14%
400-55159-311	PUBLICATION AND MISC EXPENSE	374.17	125.00	.00	76.25	.00	30.00	.00
400-55160-311	ADMIN CHARGES	9,999.96	10,000.00	.00	10,000.00	4,750.00	.00	.00
400-55162-311	VCAT/WISCNET/ADMIN	3,725.90	3,896.56	.00	7,514.33	4,022.35	4,283.12	106.48%
400-55163-311	POSTAGE	241.17	245.16	.00	260.17	300.00	58.16	19.39%
400-55164-311	AUTOMATION START-UP	.00	.00	.00	.00	.00	.00	.00
400-55165-311	WISCAT LICENSE	.00	.00	.00	21.68	200.00	.00	.00
400-55166-220	UTILITIES/JANITORIAL/MAINT	.00	11.39	.00	.00	5,250.00	.00	.00
400-55167-218	ACCOUNTING/INSURANCE	.00	.00	.00	.00	.00	.00	.00
Total LIBRARY EXPENSES:		125,679.87	125,193.90	.00	125,683.21	132,829.10	52,161.83	44.89%
LIBRARY FUND Revenue Total:		110,439.18	125,121.52	.00	133,767.14	132,829.10-	73,986.93	-55.77%
LIBRARY FUND Expenditure Total:		125,679.87	125,193.90	.00	125,683.21	132,829.10	52,161.83	44.89%

Account Number	Account Title	2017-17 Prior year 3 Actual	2018-18 Prior year 2 Actual	2019-19 Prior year Budget	2019-19 Prior year Actual	2020-20 Current year Budget	2020-20 Current year Actual	Percent of Budget
Net Total LIBRARY FUND:		15,240.69-	72.38-	.00	8,083.93	265,658.20-	21,825.10	-5.44%

Account Number	Account Title	2017-17 Prior year 3 Actual	2018-18 Prior year 2 Actual	2019-19 Prior year Budget	2019-19 Prior year Actual	2020-20 Current year Budget	2020-20 Current year Actual	Percent of Budget
MUNICIPAL COURT FUND								
STATE & LOCAL AID								
500-43007	OTHER INCOME	.00	.00	.00	.00	.00	.00	.00
Total STATE & LOCAL AID:		.00	.00	.00	.00	.00	.00	.00
FINES & FORFEITURES								
500-45100	LAW & ORDINANCE VIOL MUNI CT	25,254.75	30,437.83	26,000.00	25,391.89	26,000.00	20,120.09	93.52%
500-45102	PARKING VIOLATIONS	465.00	575.00	600.00	735.00	600.00	1,023.00	170.50%
Total FINES & FORFEITURES:		25,719.75	31,012.83	26,600.00	26,126.89	26,600.00	21,143.09	95.26%
POLICE EXPENSES								
500-51200-120	JUDICIAL - COURT CLERK WAGES	2,615.51	6,074.72	4,367.20	4,546.75	4,367.20	2,000.57	54.14%
500-51200-121	JUDICIAL-PLAN, MAINT, & OPER	4,450.00	3,986.17	4,500.00	3,642.82	4,619.00	2,427.81	53.41%
500-51200-122	JUDICIAL-WAGES	2,750.00	1,500.00	3,000.00	3,000.00	3,000.00	1,250.00	50.00%
500-51200-123	JUDICIAL HEALTH REIMBURSEMENT	.00	.00	.00	.00	.00	.00	.00
500-51200-124	JUDICAL-STATE & COUNTY SHARE	.00	.00	.00	.00	.00	4,025.46	.00
500-51200-151	JUDICIAL - FICA/MED	461.29	577.54	709.50	577.56	552.54	248.75	53.52%
500-51200-152	JUDICIAL - RETIREMENT	184.83	121.90	.00	270.00-	.00	.00	.00
500-51200-398	BAD DEBT EXPENSE -MUNI COURT	.00	.00	.00	98.80	.00	.00	.00
500-51300-217	GEN ADMIN LEGAL- CITY ATTORNEY	.00	7,595.41	.00	6,098.20	10,000.00	645.45	14.79%
Total POLICE EXPENSES:		10,461.63	19,855.74	12,576.70	17,694.13	22,538.74	10,598.04	53.82%
MUNICIPAL COURT FUND Revenue Total:		25,719.75	31,012.83	26,600.00	26,126.89	26,600.00	21,143.09	95.26%
MUNICIPAL COURT FUND Expenditure Total:		10,461.63	19,855.74	12,576.70	17,694.13	22,538.74	10,598.04	53.82%
Net Total MUNICIPAL COURT FUND:		15,258.12	11,157.09	14,023.30	8,432.76	4,061.26	10,545.05	325.19%

Account Number	Account Title	2017-17 Prior year 3 Actual	2018-18 Prior year 2 Actual	2019-19 Prior year Budget	2019-19 Prior year Actual	2020-20 Current year Budget	2020-20 Current year Actual	Percent of Budget
WATER FUND								
STATE & LOCAL AID								
600-43650	CDBG GRANT REVENUE	.00	.00	.00	27,383.25	.00	.00	.00
Total STATE & LOCAL AID:		.00	.00	.00	27,383.25	.00	.00	.00
CHARGES TO THE PUBLIC								
600-46100	PUB CHGES SVCS GEN GOV-OTH WA	2,715.38	2,691.17	3,000.00	2,651.70	3,000.00-	.00	.00
600-46101	CONTRIBUTED CAPITAL REVENUE	.00	197,094.36	.00	.00	200,000.00-	.00	.00
600-46102	MISCELLANEOUS AMORTIZATION	13,400.32	13,400.32	.00	.00	13,400.00-	.00	.00
600-46108	PUB CHGES SVCS GEN GOV-INT/DIV	.00	.00	.00	.00	.00	.00	.00
600-46109	OTHER REVENUES	.00	.00	.00	1,050.01	.00	198.64	.00
600-46110	PUB CHGES SVCS GEN GOV-RES ME	280,798.25	285,204.56	282,000.00	308,109.02	285,500.00-	89,058.34	-31.19%
600-46111	PUB CHGES SVCS GEN GOV-COMM	101,388.84	103,733.66	103,000.00	102,214.06	104,000.00-	30,569.28	-29.39%
600-46112	PUB CHGES SVCS GEN GOV-MULTI F	40,939.68	40,305.79	41,000.00	55,614.62	41,000.00-	19,897.81	-48.53%
600-46113	PUB CHGES SVCS GEN GOV-PUB/AU	78,634.53	51,210.53	45,000.00	63,758.27	70,000.00-	13,976.81	-19.97%
600-46114	PUB CHGES SVCS GEN GOV-INDUST	958,861.75	1,107,660.28	875,000.00	1,082,324.36	1,110,000.00-	312,610.00	-28.16%
600-46120	PUB CHGES SVCS GEN GOV-PENALT	757.92	1,843.48	1,000.00	940.85	2,000.00-	.00	.00
600-46130	DISCONNECT CHARGES	45.00	.00	.00	755.00	.00	195.00	.00
600-46200	PUB FIRE PROTECTION	89,783.00	98,759.67	89,783.00	89,783.00	89,783.00-	.00	.00
600-46210	PUB FIRE PROTECTION - RES	126,325.94	127,268.07	124,000.00	139,010.79	124,000.00-	41,399.92	-33.39%
600-46211	PUB FIRE PROT - COMMERCIAL	33,794.26	34,584.30	35,000.00	37,367.55	35,000.00-	11,682.66	-33.38%
600-46213	PUB FIRE PROTECTION - PUB AUTH	19,521.76	19,426.25	22,000.00	20,982.18	22,000.00-	6,257.48	-28.44%
600-46214	PUB FIRE PROTECTION - INDUSTRI	28,869.69	30,550.06	31,000.00	33,020.65	31,000.00-	10,182.80	-32.85%
600-46215	PUB FIRE PROTECTION -MULTI-FAM	.00	.00	.00	1,767.48	.00	4,612.83	.00
600-46216	PRIVATE FIRE	.00	.00	.00	2,566.80	.00	3,422.40	.00
Total CHARGES TO THE PUBLIC:		1,775,836.32	2,113,732.50	1,651,783.00	1,941,916.34	2,130,683.00-	544,063.97	-25.53%
SOURCE: 47								
600-47100	OTHER LOAN/CONT	6,596.07	87,972.91	3,000.00	33.36	3,000.00-	.00	.00
600-47101	WATER REVENUE-INT/DIV INCOME	8,186.74	2,859.75	1,000.00	4,454.73	3,000.00-	715.98	-23.87%
600-47120	WATER REV - CUSTOMER PENALTIES	.00	.00	.00	1,212.07	.00	84.06-	.00
Total SOURCE: 47:		14,782.81	90,832.66	4,000.00	5,700.16	6,000.00-	631.92	-10.53%
WATER ADMINISTRATION								
600-53200-000	PUBLIC WORKS	446.86-	.00	.00	51.40	.00	.00	.00
600-53200-120	WATER WAGES	77,030.95	108,374.21	65,998.31	111,213.38	83,416.30	40,731.30	61.02%
600-53200-123	WATER HEALTH REIMBURSEMENT	.00	.00	.00	1,391.51	.00	2,868.65	.00
600-53200-151	WATER WAGES/FICA 24/7 TEMP PNT	.00	.00	5,048.87	2,064.99	.00	3,335.38	.00
600-53200-152	WATER-RETIREMENT	.00	.00	.00	1,638.48	.00	2,718.99	.00
600-53200-154	WATER-HEALTH INSURANCE	.00	502.32	5,586.00	3,883.67	16,424.00	.00	.00
600-53200-156	WATER - WORKERS COMP	.00	.00	2,500.00	.00	.00	.00	.00
600-53200-212	WATER - ENGINEERING SERVICES	.00	6,580.50	.00	1,017.00	.00	.00	.00
600-53200-214	WATER-OUTSIDE SERVICES	81,869.00	83,687.33	6,000.00	7,701.67	11,850.00	2,600.00	21.94%
600-53200-216	WATER - LEGAL SERVICES	.00	17,277.76	5,000.00	7,782.64	.00	.00	.00
600-53200-220	WATER-UTILITIES	115,513.91	117,878.31	112,000.00	116,251.10	112,000.00	42,318.06	41.42%
600-53200-241	WATER-RPRS PLNT/LINES/HYDR	26,439.92	41,804.11	176,000.00	34,275.85	170,000.00	14,079.69	8.28%
600-53200-311	WATER-CHEMICALS	10,491.45	12,060.78	11,000.00	16,357.89	17,000.00	5,627.78	40.63%
600-53200-319	WATER-OFFICE SUPPLIES	817.67	959.66	850.00	6,574.74	6,741.00	3,032.01	57.40%
600-53200-320	WATER-OPER SUPP & EXPENSE	68,972.73	92,903.45	157,000.00	97,438.68	197,000.00	41,770.33	26.13%
600-53200-332	WATER-TRANSPORTATION	3,461.69	1,598.53	4,200.00	6,239.91	4,200.00	1,443.12	44.27%
600-53200-398	BAD DEBT EXPENSE	.00	.00	.00	1,300.54	.00	.00	.00
600-53200-510	WATER-INSURANCE	28,194.66	20,607.75	13,461.00	10,554.75	15,961.00	28,505.09	178.59%

Account Number	Account Title	2017-17 Prior year 3 Actual	2018-18 Prior year 2 Actual	2019-19 Prior year Budget	2019-19 Prior year Actual	2020-20 Current year Budget	2020-20 Current year Actual	Percent of Budget
600-53200-540	WATER-DEPRECIATION EXPENSE	433,842.33	439,404.79	600,000.00	.00	350,000.00	.00	.00
600-53200-541	DEPRECIATION EXPENSE-CONTRIBU	155,140.83	155,851.82	160,000.00	.00	160,000.00	.00	.00
600-53200-610	EAU PLEINE - RD FUNDING	.00	.00	.00	.00	.00	.00	.00
600-53200-611	WATER-BOND AMORTIZATION	.00	.00	361,500.00	21,412.50	361,500.00	.00	.00
600-53200-612	WATER - USDA PRIN	.00	.00	.00	.00	.00	.00	.00
600-53200-620	WATER-RECDS INTEREST PAYMT	338,456.06	328,830.74	411,559.81	299,307.37	411,559.81	108,210.75	26.29%
600-53200-657	CDBG - 2018	.00	.00	50,000.00	.00	.00	.00	.00
600-53200-658	EAU PLN WELL FIELD EXPLORATION	.00	134.00	.00	.00	117,129.69	.00	.00
600-53200-688	REGULATORY COMMISSION EXP	1,493.36	.00	825.00	3,628.66	4,000.00	.00	.00
600-53200-730	WATER-TAXES	144,905.00	160,910.00	14,000.00	160,910.00	14,000.00	.00	.00
600-53200-731	PILOT PROGRAM EXPENSE	.00	.00	.00	.00	.00	.00	.00
600-53200-810	VEHICLE/EQUIP REPLACEMENT FND	3,074.48	72.08	20,000.00	.00	20,000.00	.00	.00
600-53201-120	WATER-ADMIN SALARIES	65,856.66	44,268.93	49,498.40	45,649.65	44,430.08	20,218.30	53.66%
600-53201-123	WATER ADMIN - HEALTH REIMB	.00	.00	.00	437.21	.00	1,105.92	.00
600-53201-151	WATER-ADMIN FICA/MEDICARE	9,995.51	9,506.43	3,786.63	10,675.70	9,780.25	1,602.00	19.38%
600-53201-152	WATER-ADMIN RETIREMENT	8,182.79	8,347.93	3,242.15	8,019.87	8,490.87	1,363.00	18.93%
600-53201-154	WATER - ADMIN HEALTH INS	.00	504.17	8,348.06	412.33	.00	1,531.53	.00
600-53580-611	AMORTIZATION OF DEBT DISCOUNT	1,143.75	1,143.75	.00	.00	1,200.00	.00	.00
	Total WATER ADMINISTRATION:	1,574,435.89	1,653,209.35	2,247,404.23	976,191.49	2,136,683.00	323,061.90	16.68%
CONTRIBUTIONS MADE (CLEARING)								
600-80000-000	CONTRIBUTIONS MADE (CLEARING)	8,183.00-	8,348.00-	.00	.00	.00	.00	.00
	Total CONTRIBUTIONS MADE (CLEARING):	8,183.00-	8,348.00-	.00	.00	.00	.00	.00
COST CATEGORY: 99								
600-99999-152	PENSION EXPENSE (CLEARING)	19,367.00	11,679.00	.00	.00	.00	.00	.00
	Total COST CATEGORY: 99:	19,367.00	11,679.00	.00	.00	.00	.00	.00
	WATER FUND Revenue Total:	1,790,619.13	2,204,565.16	1,655,783.00	1,974,999.75	2,136,683.00-	544,695.89	-25.49%
	WATER FUND Expenditure Total:	1,585,619.89	1,656,540.35	2,247,404.23	976,191.49	2,136,683.00	323,061.90	16.68%
	Net Total WATER FUND:	204,999.24	548,024.81	591,621.23-	998,808.26	4,273,366.00-	221,633.99	-4.41%

Account Number	Account Title	2017-17 Prior year 3 Actual	2018-18 Prior year 2 Actual	2019-19 Prior year Budget	2019-19 Prior year Actual	2020-20 Current year Budget	2020-20 Current year Actual	Percent of Budget
INFRASTRUCTURE FUND								
INTEREST & DONATIONS								
700-48111	INTEREST INCOME	.00	.00	.00	.00	.00	.00	.00
700-48306	BOND PROCEEDS	.00	.00	.00	.00	.00	.00	.00
700-48900	LOAN FROM SAVINGS	.00	.00	.00	.00	.00	.00	.00
Total INTEREST & DONATIONS:		.00	.00	.00	.00	.00	.00	.00
ECONOMIC DEVELOPMENT EXPENSES								
700-56700-000	ECONOMIC DEVELOPMENT	.00	.00	.00	.00	.00	.00	.00
700-56800-000	EXPENDITURES	.00	.00	.00	.00	3,155,805.56	.00	.00
700-56900-740	BAD DEBT EXPENSE	.00	.00	.00	.00	.00	.00	.00
Total ECONOMIC DEVELOPMENT EXPENSES:		.00	.00	.00	.00	3,155,805.56	.00	.00
INFRASTRUCTURE FUND Revenue Total:		.00	.00	.00	.00	.00	.00	.00
INFRASTRUCTURE FUND Expenditure Total:		.00	.00	.00	.00	3,155,805.56	.00	.00
Net Total INFRASTRUCTURE FUND:		.00	.00	.00	.00	3,155,805.56-	.00	.00

Account Number	Account Title	2017-17 Prior year 3 Actual	2018-18 Prior year 2 Actual	2019-19 Prior year Budget	2019-19 Prior year Actual	2020-20 Current year Budget	2020-20 Current year Actual	Percent of Budget
SEWER FUND								
SOURCE: 47								
800-47100	SEWER REVENUE	.00	194,365.07	.00	84.32	.00	.00	.00
800-47101	OTHER INC - CONTRIB/LOAN	.00	67,906.94	.00	.00	.00	.00	.00
800-47108	SEWER REVENUE-INT/DIV INC	4,444.61	490.18	.00	3,434.80	490.00-	178.10	-36.35%
800-47109	SEWER REVENUE-MISC OPERATING	366,187.94	855,942.13	400,000.00	10,423.47-	3,000.00-	.00	.00
800-47110	SEWER REVENUE-RESID METERED	361,912.65	368,698.34	365,000.00	417,284.68	394,830.00-	125,133.34	-31.69%
800-47111	SEWER REVENUE-COMM METERED	111,308.76	116,952.51	117,000.00	125,120.91	125,190.00-	40,049.82	-31.99%
800-47112	SEWER MULTI FAMILY REV	33,211.40	33,215.43	29,000.00	46,208.10	35,310.00-	22,607.41	-64.03%
800-47113	SEWER REVENUE-PUB AUTH METER	74,975.29	62,599.92	53,000.00	70,437.03	67,410.00-	19,993.71	-29.66%
800-47114	SEWER REVENUE-IND METERED	58,832.74	58,129.78	59,000.00	52,361.30	63,130.00-	4,168.86	-6.60%
800-47120	SEWER REVENUE-CUST PENALTIES	3,871.09	4,520.83	4,000.00	4,967.54	5,350.00-	27.78	-.52%
800-47199	SEVER PREV YEAR ROLL OVER	.00	.00	.00	.00	70,617.84-	.00	.00
Total SOURCE: 47:		1,014,744.48	1,762,821.13	1,027,000.00	709,475.21	765,327.84-	212,159.02	-27.72%
SEWER ADMINISTRATION								
800-53610-000	SEWER	102.58	.00	.00	.00	.00	.00	.00
800-53610-120	SEWER- WAGES	54,102.68	66,718.54	65,998.31	67,001.48	60,411.40	25,214.39	50.19%
800-53610-123	SEWER- HEALTH REIMBURSEMENT	.00	.00	.00	1,120.76	.00	1,126.57	.00
800-53610-151	SEWER-FICA/MEDICARE	9,327.81	10,343.39	8,865.49	8,554.27	8,020.37	1,988.37	29.73%
800-53610-152	SEWER-RETIREMENT	6,899.26	7,456.70	3,267.83	7,613.74	6,890.49	1,654.47	28.67%
800-53610-154	SEWER-HEALTH INSURANCE	.00	502.27	5,586.00	4,296.24	14,324.00	.00	.00
800-53610-156	SEWER - WORKERS COMP	.00	.00	2,500.00	.00	2,500.00	.00	.00
800-53610-214	SEWER-OUTSIDE SERVICES	4,187.00	5,486.57	6,000.00	24,866.69	6,000.00	3,996.30	74.61%
800-53610-216	SEWER - LEGAL EXPENSES	.00	.00	2,000.00	.00	2,000.00	.00	.00
800-53610-220	SEWER-UTILITIES	55,959.52	44,587.38	60,000.00	46,271.62	54,000.00	14,700.74	27.78%
800-53610-231	SEWER - LINE MAINTENANCE	.00	2,857.25	46,000.00	26,901.00	46,000.00	300.00	.65%
800-53610-232	SEWER-REPAIRS TO PLANT/LINES	.00	3,300.00	21,000.00	14,899.93	21,000.00	2,001.40	9.53%
800-53610-311	SEWER-CHEMICALS	6,695.67	8,724.96	11,000.00	23,020.16	17,000.00	6,972.38	57.74%
800-53610-319	SEWER-OFFICE SUPPLIES	462.46	442.21	600.00	4,196.18	7,341.00	2,350.40	35.73%
800-53610-320	SEWER-OPER SUPP/EXPENSE	32,418.26	39,838.12	56,000.00	59,807.78	56,000.00	8,641.34	19.60%
800-53610-332	SEWER-TRANSPORTATION	890.15	854.75	1,000.00	1,379.78	1,000.00	.00	.00
800-53610-398	BAD DEBT EXPENSE	.00	.00	.00	1,114.60	.00	.00	.00
800-53610-435	SEWER RESERVE FUND	.00	.00	.00	.00	.00	.00	.00
800-53610-510	SEWER-INSURANCE	22,241.05	20,607.75	13,461.00	10,554.75	13,461.00	22,814.08	169.48%
800-53610-540	SEWER-DEPRECIATION EXPENSE	242,917.96	245,502.94	.00	.00	.00	.00	.00
800-53610-541	DEPRECIATION EXPENCE-CONTRIBU	48,624.15	56,393.09	300,000.00	.00	.00	.00	.00
800-53610-611	SEWER - PRINCIPAL	.00	.00	120,300.00	120,300.00	120,300.00	123,000.00	102.24%
800-53610-620	SEWER-INTEREST	150,405.00	161,613.31	279,649.50	80,819.08	279,649.50	79,009.87	28.25%
800-53610-657	CDBG - 2018	.00	.00	.00	.00	.00	.00	.00
800-53610-661	VEHICLE REPLACEMENT FUND	.00	.00	5,000.00	.00	5,000.00	.00	.00
800-53610-810	SEWER - NEW PLANT 2014	232,453.27	243,408.24	.00	70,304.16	.00	.00	.00
800-53611-120	SEWER-ADMINISTRATION SALARIES	59,140.55	76,792.91	49,890.48	64,582.83	44,430.08	20,020.14	53.14%
800-53611-123	SEWER ADMIN- HEALTH REIMBURS	.00	.00	.00	433.70	.00	1,092.01	.00
800-53611-151	SEWER- ADMIN FICA/MEDICARE	.00	.00	.00	805.86	.00	1,585.86	.00
800-53611-152	SEWER - RETIREMENT	.00	.00	4,322.89	655.50	.00	1,349.68	.00
800-53611-154	SEWER - ADMIN HEALTH INS	.00	504.17	8,348.06	.00	.00	1,531.53	.00
Total SEWER ADMINISTRATION:		926,827.37	995,934.55	1,070,789.56	639,500.11	765,327.84	319,349.53	43.92%
COST CATEGORY: 58								
800-58390-610	BOND ISSUE COST	.00	.00	.00	.00	.00	.00	.00

Account Number	Account Title	2017-17 Prior year 3 Actual	2018-18 Prior year 2 Actual	2019-19 Prior year Budget	2019-19 Prior year Actual	2020-20 Current year Budget	2020-20 Current year Actual	Percent of Budget
Total COST CATEGORY: 58:		.00	.00	.00	.00	.00	.00	.00
SEWER UTILITY								
800-80000-000	SEWER UTILITY	6,899.00-	7,457.00-	.00	.00	.00	.00	.00
Total SEWER UTILITY:		6,899.00-	7,457.00-	.00	.00	.00	.00	.00
COST CATEGORY: 99								
800-99999-152	PENSION EXPENSE (CLEARING)	12,778.00	9,240.00	.00	.00	.00	.00	.00
Total COST CATEGORY: 99:		12,778.00	9,240.00	.00	.00	.00	.00	.00
SEWER FUND Revenue Total:		1,014,744.48	1,762,821.13	1,027,000.00	709,475.21	765,327.84-	212,159.02	-27.72%
SEWER FUND Expenditure Total:		932,706.37	997,717.55	1,070,789.56	639,500.11	765,327.84	319,349.53	43.92%
Net Total SEWER FUND:		82,038.11	765,103.58	43,789.56-	69,975.10	1,530,655.68-	107,190.51-	8.10%

Account Number	Account Title	2017-17 Prior year 3 Actual	2018-18 Prior year 2 Actual	2019-19 Prior year Budget	2019-19 Prior year Actual	2020-20 Current year Budget	2020-20 Current year Actual	Percent of Budget
FUND: 900								
SOURCE: 41								
900-41110	GENERAL PROPERTY TAXES	57,689.38	60,821.14	.00	.00	.00	.00	.00
900-41115	EXEMPT COMPUTER AID	1,626.00	1,649.63	.00	.00	.00	.00	.00
900-41170	GEN PROPERTY TAX	.00	.00	.00	.00	.00	.00	.00
Total SOURCE: 41:		59,315.38	62,470.77	.00	.00	.00	.00	.00
SOURCE: 43								
900-43311	PERSONAL PROPERTY AID - STATE	.00	.00	.00	50.49	.00	.00	.00
Total SOURCE: 43:		.00	.00	.00	50.49	.00	.00	.00
SOURCE: 48								
900-48111	INTEREST INCOME	222.87	35.08	.00	.00	.00	.00	.00
900-48900	LOAN PROCEEDS	.00	.00	.00	.00	.00	.00	.00
900-48901	TIF DISTRICT REVENUE	.00	.00	711,731.86	.00	.00	.00	.00
Total SOURCE: 48:		222.87	35.08	711,731.86	.00	.00	.00	.00
TIF EXPENDITURES								
900-51000-000	TIF EXPENDITURES	120,630.06	121,026.87	.00	1,015.78	.00	.00	.00
900-51000-219	TIF 5 - PROFESSIONAL SERVICES	.00	802.50	.00	1,093.50	.00	.00	.00
Total TIF EXPENDITURES:		120,630.06	121,829.37	.00	2,109.28	.00	.00	.00
COST CATEGORY: 53								
900-53311-810	CAP IMP	.00	.00	.00	.00	.00	.00	.00
Total COST CATEGORY: 53:		.00	.00	.00	.00	.00	.00	.00
COST CATEGORY: 58								
900-58100-610	TIF PRINIPAL	10,597.45	11,074.33	.00	11,572.68	.00	.00	.00
900-58290-620	TIF INTEREST	3,885.58	2,835.31	.00	1,065.81	.00	.00	.00
Total COST CATEGORY: 58:		14,483.03	13,909.64	.00	12,638.49	.00	.00	.00
FUND: 900 Revenue Total:		59,538.25	62,505.85	711,731.86	50.49	.00	.00	.00
FUND: 900 Expenditure Total:		135,113.09	135,739.01	.00	14,747.77	.00	.00	.00
Net Total FUND: 900:		75,574.84-	73,233.16-	711,731.86	14,697.28-	.00	.00	.00

Account Number	Account Title	2017-17 Prior year 3 Actual	2018-18 Prior year 2 Actual	2019-19 Prior year Budget	2019-19 Prior year Actual	2020-20 Current year Budget	2020-20 Current year Actual	Percent of Budget
FUND: 960								
SOURCE: 41								
960-41110	GENERAL PROPERTY TAXES	.00	260,251.20	356,170.00	457,122.19	506,535.00-	290,691.69	-57.39%
960-41115	EXEMPT COMPUTER AID	.00	.00	.00	1,689.55	1,689.55-	.00	.00
Total SOURCE: 41:		.00	260,251.20	356,170.00	458,811.74	508,224.55-	290,691.69	-57.20%
SOURCE: 43								
960-43311	PERSONAL PROPERTY AID - STATE	.00	.00	.00	3,458.63	3,509.12-	14,888.43	-424.28%
Total SOURCE: 43:		.00	.00	.00	3,458.63	3,509.12-	14,888.43	-424.28%
SOURCE: 48								
960-48111	INTEREST INCOME	.00	.00	.00	1,651.34	.00	1,098.84	.00
960-48201	RENT OF CITY PROPERTY	.00	.00	.00	3,500.00	.00	.00	.00
960-48900	TIF DISRICT REVENUE	.00	2,325,000.00	.00	66,704.00-	852,719.39	.00	.00
Total SOURCE: 48:		.00	2,325,000.00	.00	61,552.66-	852,719.39	1,098.84	.00
COST CATEGORY: 51								
960-51000-120	TIF 6 WAGES	.00	.00	.00	4,728.45	.00	.00	.00
960-51000-123	TIF 6 HEALTH REIMBURSEMENT	.00	.00	.00	78.75	.00	.00	.00
960-51000-150	TIF INCENTIVES	.00	20,000.00	.00	.00	.00	.00	.00
960-51000-151	TIF 6 FICA/MEDICARE - HOURLY	.00	.00	.00	367.73	.00	.00	.00
960-51000-152	WAGES HOURLY RETIREMENT	.00	.00	.00	309.69	.00	.00	.00
960-51000-212	TIF EXPENDITURES - ENG	.00	235,557.36	.00	144,837.50	.00	8,050.00	.00
960-51000-215	TIF PROFESSIONAL SERVICES	.00	17,731.00	.00	4,752.50	.00	49,560.00	.00
960-51000-216	TIF 6 LEGAL SERVICES	.00	818.00	.00	3,828.00	5,000.00	5,329.75	171.72%
960-51000-219	TIF 6 - PROFESSIONAL SERVICES	.00	9,390.00	.00	500.00	.00	.00	.00
960-51000-319	OPERATING SUPPLIES/EXPENSES	.00	833,358.54	.00	1,978,566.69	1,464,410.85	17,565.05	1.43%
960-51001-120	TIF 6 ADMIN WAGES	.00	1,673.07	.00	7,032.93	10,052.59	3,030.80	35.63%
960-51001-123	TIF 6 ADMIN HEALTH REIMBURSE	.00	.00	.00	.00	.00	.00	.00
960-51001-151	TIF 6 ADMIN FICA/MEDICARE	.00	99.12	.00	502.14	769.02	220.08	33.82%
960-51001-152	TIF 6 ADMIN RETIREMENT	.00	90.20	.00	460.18	.00	204.05	.00
960-51001-154	TIF 6 ADMIN HEALTH INSURANCE	.00	402.59	.00	1,553.41	.00	612.59	.00
Total COST CATEGORY: 51:		.00	1,119,119.88	.00	2,147,517.97	1,480,232.46	84,572.32	7.14%
COST CATEGORY: 53								
960-53311-219	CDBG - PROFESSIONAL SERVICES	.00	.00	.00	.00	.00	.00	.00
960-53311-810	CAP IMP	.00	.00	.00	46,118.00	.00	.00	.00
Total COST CATEGORY: 53:		.00	.00	.00	46,118.00	.00	.00	.00
COST CATEGORY: 58								
960-58100-810	PRINCIPAL-lAND PURCH-SCHILLING	.00	40,000.00	.00	.00	210,000.00	.00	.00
960-58290-610	TIF 6 PRINCIPAL	.00	.00	152,758.33	.00	223,716.12	12,112.05	5.41%
960-58290-620	TIF INTEREST	.00	.00	.00	155,516.66	23,673.00	48,921.54	206.66%
960-58390-600	BOND ISSUE COST	.00	60,837.50	.00	.00	40,000.00-	.00	.00
Total COST CATEGORY: 58:		.00	100,837.50	152,758.33	155,516.66	417,389.12	61,033.59	14.62%
FUND: 960 Revenue Total:		.00	2,585,251.20	356,170.00	400,717.71	340,985.72	306,678.96	90.00%
FUND: 960 Expenditure Total:		.00	1,219,957.38	152,758.33	2,349,152.63	1,897,621.58	145,605.91	8.79%

Account Number	Account Title	2017-17 Prior year 3 Actual	2018-18 Prior year 2 Actual	2019-19 Prior year Budget	2019-19 Prior year Actual	2020-20 Current year Budget	2020-20 Current year Actual	Percent of Budget
Net Total FUND: 960:		.00	1,365,293.82	203,411.67	1,948,434.92-	1,556,635.86-	161,073.05	-9.00%

Account Number	Account Title	2017-17 Prior year 3 Actual	2018-18 Prior year 2 Actual	2019-19 Prior year Budget	2019-19 Prior year Actual	2020-20 Current year Budget	2020-20 Current year Actual	Percent of Budget
FUND: 970								
SOURCE: 41								
970-41170	GEN PROPERTY TAX	.00	.00	.00	.00	.00	.00	.00
Total SOURCE: 41:		.00	.00	.00	.00	.00	.00	.00
SOURCE: 48								
970-48111	INTEREST INCOME	.00	.00	.00	.00	.00	.00	.00
970-48901	TIF DISTRICT REVENUE	.00	.00	.00	.00	.00	.00	.00
Total SOURCE: 48:		.00	.00	.00	.00	.00	.00	.00
TIF EXPENDITURES								
970-51000-000	TIF EXPENDITURES	.00	6,034.98	.00	.00	.00	.00	.00
Total TIF EXPENDITURES:		.00	6,034.98	.00	.00	.00	.00	.00
COST CATEGORY: 53								
970-53311-810	CAP IMP	.00	.00	.00	.00	.00	.00	.00
Total COST CATEGORY: 53:		.00	.00	.00	.00	.00	.00	.00
FUND: 970 Revenue Total:		.00	.00	.00	.00	.00	.00	.00
FUND: 970 Expenditure Total:		.00	6,034.98	.00	.00	.00	.00	.00
Net Total FUND: 970:		.00	6,034.98-	.00	.00	.00	.00	.00
Net Grand Totals:		137,644.83	2,140,926.43	596,176.62-	975,759.60-	8,179,998.78-	375,053.59	-2.06%