

LUND ENGINEERING

Randy M. Lund, PE (WI, MN, MI, IA, IL)

CONTRACT DOCUMENTS

for

PROJECT

Pikes Bay Sanitary District #1 (PBSD)

Apple Hill Road Sanitary Extension 2020 Project

Bid Date: FEB 25 , 2021

OWNER

Pikes Bay Sanitary District #1 (PBSD)

ENGINEER

LUND ENGINEERING

Washburn WI 54891



Pikes Bay Sanitary District #1 (PBSD)
Apple Hill Road Sanitary Extension 2020 Project

INDEX

I. BID INFORMATION

- A. Project Scope
- B. Advertisement for Sealed Bids
- C. Instructions to Bidders
- D. Bidders Proof of Responsibility
- E. Contractors Insurance
- F. Subcontractors Listing
- G. Wage Rates
- H. Affidavit – Non-Collusion
- I. Affidavit of Organization and Authority

DOCUMENT FILE:

SCOPE.DOC
BIDAD.DOC
BIDINST.DOC
BIDPROOF.DOC
OWNERINS.DOC
SUBLIST.DOC
WAGE.DOC
NONCOLL.DOC
AFFIDAVI.DOC

II. CONTRACT DOCUMENTS / EXHIBITS

- A. Bidding Proposal and Schedule
- B. Supplemental Conditions
- C. Standard Form of Agreement (Owner and Contractor)
- D. Bid Bond
- E. Notice of Award
- F. Construction Performance Bond
- G. Construction Payment Bond
- H. Notice to Proceed
- I. Application for Payment
- J. Change Order
- K. Certificate of Substantial Completion
- L. Standard General Conditions
- M. Contractor's Affidavit of Debits and Claims
- N. Contractor's Affidavit of Release of Liens

PROPOSAL.DOC
SUPPCOND.DOC
AGREEEJCDC.DOC

DEBITS.DOC
RELIEN.DOC

III. TECHNICAL SPECIFICATIONS

- A. PBSD Tech. Spec's
- B. Reference Specifications
- C. Standards
- D. Details
- E. Permits
- F. Manholes / Catch-basins
- G. Watermain (N/A)
- H. Sanitary Sewer
- J. Soil Borings

PBSDTechSpecs
BTECH.DOC
CTECH.DOC
DDTAIL.DOC
EPERMIT.DOC
FMANHOLE.DOC
GWATER.DOC
HSAN.DOC
JSOILSB.DOC

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Apple Hill Road Sanitary Extension 2020 Project

PROJECT SPECIFICATIONS

SECTION I BIDDING INFORMATION

Pikes Bay Sanitary District #1 (PBSD)
Apple Hill Road Sanitary Extension 2020 Project
TECHNICAL SPECIFICATIONS

A. PROJECT SCOPE

1. Summary of Work

- A. FURNISH & INSTALL (F&I); 8" PVC Sanitary Sewer SDR 35 min.
- B. F&I; Manhole's 4' Dia.
- C. F&I; CRUSHED AGGREGATE BASE COURSE; for roadway & shoulder restoration.
- D. F&I; Erosion Control
- E. F&I; 6" PVC wyes for laterals
- F. F&I; Riprap & Heavy Riprap
- G. F&I Breaker Run 3" minus and / or 6" minus
- H. F&I; All other items as listed in the bid proposal schedule, or required by the Specifications.

2. Site Clearing / Erosion Control / Landscaping

- a. WI DNR Construction Site - Best Management Practices shall be followed in addition to erosion control items called for in the plans.
- b. Topsoil shall be salvaged and replaced after construction. Excess topsoil shall be the Contractor's responsibility and property, and shall be removed or placed on site at the Engineer's direction..
- c. Vegetation shall be re-established per **WIDOT Standard Specifications**.
- d. All vegetation and other debris removed shall be disposed of by the Contractor.
- e. Erosion Control shall be in place prior to the start of construction.
- f. Finished topsoil (in urban or rural lawn areas) shall be screened and free of debris for top 2". Bottom 2" can be salvaged topsoil.
- g. All excess material shall be disposed of by the Contractor.
- h. Salvaged topsoil may be used for rural areas and for the bottom 2" in the urban areas.

3. Site Work

- a. Contractor shall submit shop drawings for Engineer approval for:

- manholes/castings
- valves
- piping
- fittings locations
- structures (MH's)

- b. Finished manhole rims to be set 6" above finished ground level in turf areas. Gravel shall be mounded around casting to blend to existing grade. In pavement areas the manhole rims shall match the existing or proposed pavement elevation

4. Backfill Materials

- a. Backfill materials for structures shall be compacted (95% proctor) granular backfill ; per WI DOT Specifications
- b. Backfill for PVC and HDPE pipes shall be per the **WI Standard Specifications for Sewer and Water** (6th Edition w/all amendments) and per pipe manufacturers recommendations.
- c. Crushed aggregate base course shall be Grade 2 per WI DOT Specifications.
- d. Riprap shall be standard riprap per WI DOT.
- e. Manholes shall be standard pre-cast manholes per the WI DOT Standard Specifications and per plan details.
- f. Landscaping shall conform to WI DOT specifications
- g. Trenches shall be backfilled with native materials.

4. Concrete

- a. Concrete per WI DOT Specifications; shall be used for incidental concrete work. Ready-mix concrete is acceptable.
- b. Manholes and Inlets shall be grouted with concrete as listed above, on the inside and outside.
- c. Flat work, Concrete will have Nycon or similar fiber added.

5. Asphalt Pavement (Bituminous) (N/A)

- a. HMA Binder Type PG 58-34
- b. Cost per ton for Asphalt Pavement (surface or binder) shall include all materials (aggregate and bituminous materials) and labor to produce, deliver, and place the pavement.

6. Standards

- a. ASTM, NEMA, AWWA, ANSI and other applicable standards shall be adhered to as required by laws and codes and as listed in the Supplemental Conditions and standards sections.

7. Dewatering

- a. If dewatering is required the contractor shall contact the WI DNR for required permits or regulations.
- b. If dewater pumping exceeds 70 gpm the Contractor may be required to notify the WI DNR

8. Utilities

- a. Contractor shall call DIGGER's Hotline; prior to beginning work.
- b. Contractor shall coordinate utility relocations with Utility Companies.

9. General

- a. All materials supplied shall have certifications provided by the supplier to the Engineer. The certifications shall state compliance with applicable codes and standards.

- b. All manufacturers procedures shall be followed unless the Engineer authorizes deviation.

10. Soil Borings

- a. Soil Borings have not been performed for this project.

11. Traffic Control

- a. Shall meet MUTCD requirements.
- b. Local traffic shall have access on gravel @ all times.
- c. Advance warning signs shall be placed when roads are under construction.
- d. Construction zone signs shall be in place for duration of construction.

12. Notifications

- a. Contractor shall notify (24 hours in advance) businesses and residences if their traffic flow will be affected by the Contractor.
- b. Contractor shall notify (48 hours in advance) affected water customers prior to shutting off the water.

13. Salvaging Materials

- a. Existing castings and hydrants shall be salvaged for the Owner. (N/A)
- b. Existing asphaltic pavement (hot-mix) shall be salvaged and reused on the project if possible. (N/A)
- c. Existing gravel shall be salvaged for use by the Contractor. The Engineer will evaluate acceptance of any excess for use on the Project, during construction.

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Randy M. Lund, PE (WI, MN, MI, IA)

DATE: Jan. 18, 2021

TO: PBSB

FR: Randy M. Lund, PE

RE: **Apple Hill Road - Sanitary Extension 2020 Project** – Advertisement for Bid.

For a February 25th, 2021 Bid Opening We have to publish at least 7 and 14 days prior, or Tues Feb 9th and 16th, based on Tuesday legal ad publication at Ashland Daily Press.

ADVERTISEMENT FOR BIDS

Owner: Pikes Bay Sanitary District #1

Project: **Apple Hill Road - Sanitary Extension 2020 Project**

Engineer: Lund Engineering, Randy M. Lund, PE 415 E 3rd St. / PO Box 243 Washburn WI 54891
rmlund1@charter.net 715-209-0367

Notice is hereby given that sealed bids will be received by the Pikes Bay Sanitary District #1; **until 1:00 PM, Feb. 25, 2021**, at the Bayfield Town Hall; located at 85450 CTH J, Bayfield WI 54814 . The Bids will be publicly opened and read aloud during a Go To web based meeting, for the furnishing of all labor and material for the construction of the **Apple Hill Road - Sanitary Extension 2020 Project**.

Bids are to be addressed to the Pikes Bay Sanitary District #1, PO Box 689 Bayfield WI 54814, and shall be marked "Sealed Bid – **Apple Hill Road - Sanitary Extension 2020 Project**".

The **Apple Hill Road - Sanitary Extension 2020 Project** includes, but is not limited to, the following types of work: 8" PVC sanitary sewer; 6" PVC laterals, Manholes, gravel road repair, erosion control, and site restoration. Project main length – 900 feet.

Plans and Specifications in paper format may be obtained from Lund Engineering, Washburn WI; on or after Jan 19, 2021, for a non-refundable fee of \$50. Plans and Specs in PDF format by email will be provided at no charge. The project engineer contact is Randy M. Lund, PE.

Requests for bidding documents must include: street address for delivery, email address, and telephone numbers for bidder's contacts.

Bid security in the amount of five (5%) percent of the bid must accompany each bid in accordance with the Instructions to Bidders.

The Pikes Bay Sanitary District #1 reserves the right to reject any and all bids or to accept any bid deemed to be in their best interest, and may waive any minor informalities, in the bidding process. All bidders accept the process outlined in the bidding instructions in submitting a bid.

This project will be funded by Pikes Bay Sanitary District #1.

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GO TO meeting info:

<https://global.gotomeeting.com/join/597013317>

[+1 \(872\) 240-3212](tel:+18722403212)

Access Code: 597-013-317

Submitted,

AJ Long, President; Pikes Bay Sanitary District #1

To be Published: Ashland Daily Press as a Class 2 notice – Feb 09th & 16th, 2021

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Pikes Bay Sanitary District #1 (PBSD) **Apple Hill Road Sanitary Extension 2020 Project**

INSTRUCTIONS TO BIDDERS

2.01 PROPOSALS

The bidder must submit their proposal on the forms furnished and attached herein. The bidder shall specify unit prices or a lump sum price as indicated for each of the separate items called for on the proposal form; and the grand total for which they will perform all the work specified. All writing shall be done in ink. No proposal will be considered which is not made out on forms furnished.

2.2 BID GUARANTEE

A bid bond, certified check, cashiers check, bank check, or bank money order (**but not a personal or company check**) shall accompany each bid, payable to the Owner in an amount not less than five (5) percent of the total bid, as a guarantee that if the bid is accepted, the bidder will execute and file the proposed contract, performance and payment bonds, and required insurance within ten (10) working days after being notified of the acceptance of his bid. If the successful bidder so files the contract, bonds, and insurance, the bid guarantee will be returned to them. If the successful bidder fails to file such contract, bonds, and insurance, the amount of the guarantee shall be forfeited to the Owner. The bid guarantees of all except the apparent successful and first runner up bidders will be refunded after the opening of the bids. The balance of the bid guarantees will be refunded after the successful bidder has filed the contract, bonds, and insurance, and obtained Owner approval.

2.03 REQUIREMENTS FOR SIGNING PROPOSALS

- a. The full name and business address of each bidder must be entered on any and all proposals submitted. Each proposal shall be signed in the space provided therefore by written signature of the person or persons properly authorized to sign.
- b. A proposal submitted by an individual shall be signed by the individual or by an authorized agent of same.
- c. A proposal submitted by a firm or partnership shall be signed by a member or an authorized agent thereof. If by joint ownership, the proposal shall be signed by each owner or their authorized agent(s).

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- d. A proposal which is signed by and attorney-in-fact for individuals, firms, partnerships or joint ownership shall have attached thereto a power-of-attorney evidencing authority to sign the proposal.
- e. A proposal submitted by a corporation shall be signed by an authorized officer or agent of such corporation. Such corporation must be licensed to do business in the State of Wisconsin before a proposal to do the work can be received. If a foreign corporation, the State under which it is incorporated must be named.

2.04 SUBMISSION OF PROPOSALS

a. The following documentation shall be placed in an envelope or in separate envelopes which shall be sealed:

- 1. The Proposal(s) and Proposal Schedule
- 2. The Bid Guarantee (see paragraph 2.02)
- 3. List of Subcontractors (see paragraph 2.16)
- 4. Affidavit on Non-Collusion (see paragraph 2.17)
- 5. Affidavit of Organization and Authority (see paragraph 2.18)

b. On the envelope or envelopes shall be plainly written:

- 1. Contract number
- 2. Contract title or name
- 3. Name of Bidder
- 4. Date of bid opening

c. Such envelope(s) shall be addressed and delivered to the Owner before the time for bid opening as specified in the Advertisement for Bids.

2.05 WITHDRAWAL OF PROPOSALS

Any bidder may withdraw his/her proposal(s) at any time prior to the scheduled time for the receipt of proposals, provided the request is in writing and is in the hands of the Owner or Engineer by the time set for opening proposals.

2.06 REJECTION OF PROPOSAL

The Owner reserves the right to reject any and all proposals, to waive any informalities and irregularities in bidding and to accept any proposal deemed in the best interests of the Owner.

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2.07 CONTRACT DOCUMENTS

All documents comprising this contract are available at the offices of the Owner and Engineer, and are open to inspection by bidders.

2.08 INTERPRETATION OF CONTRACT DOCUMENTS

Should any question arise concerning the true meaning of any part of the contract documents, the bidder may submit to the Engineer a written request for an interpretation thereof. An interpretation so requested will be made in the form of an addendum and either mailed or delivered to all bidders who have received contract documents. Any addenda issued during the time of bidding shall be included with the proposal and will become part of the final contract.

2.09 OMISSION AND DISCREPANCIES

Bidders shall immediately report any omissions, errors or discrepancies in the plans or specifications to the Engineer who may issue an addendum as per section 2.08.

2.10 EXAMINATION OF SITE AND CONTRACT DOCUMENTS

Bidders are required to examine carefully the site of the work (if applicable), the general conditions, supplemental conditions, technical specifications, special provisions, agreement forms, these instructions, the plans and any other contract documents for the work specified. The submission of a proposal shall be considered conclusive evidence that the bidder has made such an examination and is satisfied as to all the conditions, contingencies, provisions, and requirements of the contract documents.

2.11 QUANTITIES

- a. The estimated quantities of materials and work are the result of careful calculations but are not to be considered as final, and will be used primarily as a basis for determining the successful bidder. After the contract is awarded, the quantity of materials and work listed may be increased or decreased in an amount not to exceed 15% at the discretion of the Engineer, without in any way invalidating unit bid prices. This is pursuant to Chapter 62.15 -1c, Wisconsin Statutes.
- b. The quantities upon which payment will be made to the Contractor are to be determined by measurements of the actual materials used and work performed by the Contractor, as directed by the Engineer.

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2.12 AWARD OF CONTRACT

The Contract shall be deemed awarded when a written "Notice of Award" is postmarked to the address of the bidder given in the proposal affidavit.

2.13 EXECUTION OF CONTRACT

a. Within ten (10) working days from receipt of the written "Notice of Award", the successful bidder is required to submit:

1. Three (3) executed copies of the contract.
2. Certificate(s) of Insurance (see Contractors Insurance).

b. The contract documents shall be delivered to the Owner or Engineer. Such contract when signed by the Owner; countersigned by the Owner; approved as to form and execution by the Owners Attorney; and certified as to adequate financial provisions by the Owner shall be a part of the contract documents.

c. In case of failure to deliver such contract documents within the said 10 days, or such extension thereto as the Owner may deem reasonable, the bidder will thereupon be considered in default to the Owner to the full amount of his bid guarantee.

2.14 NOTICE TO PROCEED

No work shall be started under the contract prior to the date named in the Owners written "Notice to Proceed" with the work.

2.15 TIME OF COMPLETION

a. Time of completion is an ESSENTIAL CONDITION of the Contract. The Contractor shall work regularly, diligently, and uninterruptedly at such a rate of progress that will insure full completion of the Contract within the Contract Time specified.

b. It is expressly understood and agreed, by and between the Contractor and Owner, that the contract time for completion of the work described herein is a reasonable time for the completion of same.

c. For every calendar day of delay in completion of the work beyond the contract time, unless extended in writing by the Owner, there shall be deducted from the amount due the Contractor the sum indicated in the Supplemental Conditions, per calendar day as liquidated damages.

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2.16 SUBCONTRACTORS

a. The Contractor shall, at the time of making his proposal and as a part of his proposal, submit a list of all subcontractors with whom they propose to contract. Such list shall not be added to, nor altered, without the written consent of the Owner. The Owner reserves the right to approve any and all subcontractors, and no subcontractor shall be allowed to do work unless they are listed in the Contractor's proposal or in a subsequent written, Owner approved change order.

b. The Contractor shall not under any circumstances be relieved of his liabilities and obligations. All transactions of the Owner shall be with the Contractor. Subcontractors shall be recognized only in such capacity.

2.17 AFFIDAVIT OF NON-COLLUSION

All proposals completed shall be accompanied by a bidder "Affidavit of Non-Collusion". A copy of the form is contained in the Contract and Agreement Forms section.

2.18 AFFIDAVIT OF ORGANIZATION AND AUTHORITY

All proposals completed shall be accompanied by a bidder "Affidavit of Organization and Authority". A copy of the form is contained in the Contract and Agreement Forms section. **2.19**

2.19 BIDDERS PROOF OF RESPONSIBILITY

Bidders must have on file with the Owner completed proof of responsibility forms prior to the opening of proposals. A copy of a sample form is contained in the Contract and Agreement forms section. A local form(s) indicating essentially the same information may be substituted.

NOTE: This submission is needed only once a calendar year.

2.20 PERFORMANCE AND PAYMENT BONDS

The Contractor who is awarded the contract shall furnish a surety bond with a company licensed to do business in the State, and approved by the Owner, in an amount at least equal to 100 percent of the contract price as security for the faithful performance of this contract, for the payment of all persons performing labor and furnishing materials in connection with this contract, and for the satisfactory repair or replacement for any portion of the work becoming defective during guarantee period.

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2.21 NONRESIDENT DEPOSIT

The Contractor shall meet State Law for deposits by non-resident Contractors.

2.22 WAGE RATES

Wage Rates apply if incorporated into this specification or if referenced in other sections of this specification.

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BIDDER'S PROOF OF RESPONSIBILITY

There is submitted herewith for your consideration, a statement of qualifications of the undersigned to furnish the necessary labor, materials and skills required to enter upon and complete public works contracts to be let by the **Pikes Bay Sanitary District #1 (PBSD)**. (Need not be submitted; if previously furnished in the current calendar year.)

STATEMENT OF BIDDER'S QUALIFICATIONS

1. Name of Bidder_____
2. Bidder's Address_____ Phone_____
3. When organized_____ If incorporated, in what State_____
4. How many years have you been engaged in the contracting business under the present firm name: _____
5. General character of work performed by your firm:

6. Have you ever failed to complete any work awarded to you? Yes___ No___
7. Have you ever defaulted on a contract? Yes___ No___
8. Attach a list of major contracts completed by your firm, including kind of work and the approximate cost.

9. Attach a list of your major equipment.

10. Attach a statement of background and experience of the principal members of your _____ personnel.
11. Bonding company (name & address)

12. Itemize your current assets as of latest balance sheet.

13. Itemize your current liabilities as of latest balance sheet.

14. Project: **Pikes Bay Sanitary District #1 (PBSD)**
Apple Hill Road Sanitary Extension 2020 Project

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Apple Hill Road Sanitary Extension 2020 Project

3:100 CONTRACTORS INSURANCE

The Contractor shall not commence work under this contract until; they have obtained all insurance required under this paragraph, and such insurance has been approved by the Owner, nor shall the Contractor allow any subcontractor to commence work on his sub-contract until all similar insurance required of the sub-contract has been so obtained and approved.

The Contractor shall carry "Public Liability Insurance" coverage to insure the Owner against claims arising out of the negligence of the Contractor.

The Contractor shall file a "Certificate of Insurance" with the Owner prior to contract award.

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3:100 CONTRACTORS INSURANCE (cont.)

a) Worker's Compensation Insurance -

The Contractor shall take out and maintain during the life of this contract Workman's Compensation insurance for all of his employees employed at the site of the project and in case work is subcontracted, the Contractor shall require the sub-contractor similarly to provide Workman's Compensation insurance for all of the latter's employees unless such employees are covered by the protection afforded by the Contractor. In case any class of employees engaged in hazardous work under this contract at the site of the project is not protected under the Workman's Compensation statute the Contractor shall provide and shall cause each sub-contractor to provide adequate insurance for the protection of his employees not otherwise protected.

b) Bodily Injury and Property Damage Liability Insurance -

The Contractor shall maintain during the life of this contract such Bodily Injury and Property Damage Liability insurance as shall protect him, the Owner, their engineer, and any and all sub-contractors performing work covered by this contract, from claims for damages for personal injury, including accidental death, as well as for claims for property damage, which may arise from operation under this contract, whether such operation be by the contractor, the subcontractor(s) or either of them.

The amount of such insurance shall be as follows:

GENERAL LIABILITY:

Bodily Injury Liability Insurance: \$1,000,000 each occurrence.

Property Damage Liability Insurance: \$500,000 each occurrence.

MOTOR VEHICLE LIABILITY:

Bodily Injury Liability Insurance: \$1,000,000 each occurrence.

Property Damage Liability Insurance: \$500,000 each occurrence.

The contractor shall require sub-contractors, if any, not protected under the contractor's insurance policies to maintain insurance as stated above.

Randy M. Lund, PE (WI, MN, MI, IA)

Apple Hill Road Sanitary Extension 2020 Project

Address

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

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Apple Hill Road Sanitary Extension 2020 Project

PROJECT SPECIFICATIONS

WAGE RATES

Wage Rates apply as specified by State & Federal Law and / or by inclusion of a Wage Rate Determination.

A Wage Rate Determination DOES NOT APPLY TO THIS PROJECT.

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Pikes Bay Sanitary District #1 (PBSD)

AFFIDAVIT OF NON-COLLUSION

STATE OF Wisconsin _____.

S.S. COUNTY OF _____.

PROJECT: Apple Hill Road Sanitary Extension 2020 Project

I hereby swear (or affirm) under the penalty of perjury:

1) That I am the bidder (if the bidder is an individual), a partner with the bidder (if the bidder is a partnership) or an officer or employee of the bidding corporation having authority to sign on their behalf (if the bidder is a corporation);

2) That the attached bid or bids have been arrived at by the bidder individually and have been submitted without collusion with, and without any agreement, understanding or planned common course of action with any other vendor of materials, supplies, equipment or services described in the advertisement for bids designed to limit individual bidding or competition;

3) That the contents of the bid or bids have not been communicated by the bidder or its employees or agents to any person not an employee or agent of the bidder or its surety on any bond furnished with the bid or bids, and will not be communicated to any such person, prior to any official opening of the bid or bids; and

4) That I have fully informed myself regarding the accuracy of the statements made in this affidavit.

Subscribed and sworn to before me

this ____ day of _____, 20____.

(Signature)

Notary: State of WI

Commission expires: _____ -

(Print Name)

(Title)

(Firm making bid)

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Project:
Pikes Bay Sanitary District #1 (PBSD)
Apple Hill Road Sanitary Extension 2020 Project
(Bayfield County)

AFFIDAVIT OF ORGANIZATION AND AUTHORITY

State of Wisconsin; ss.

_____ being first duly sworn on oath depose and says that the bidder on the attached bid proposal is organized as indicated below and that all statements herein made are made on behalf of such bidder and that this deponent is authorized to make them.

(Fill out applicable paragraph)

1. CORPORATION

The bidder is a corporation organized and existing under the laws of the State of _____, its secretary is _____, and does have a corporate seal. The present is authorized to sign construction contracts and bids for the company, a certified copy of which is hereto attached. (Strike out this last sentence if not applicable).

2. PARTNERSHIP

The bidder is a partnership consisting of _____ and partners doing business under the name of _____

3. SOLE TRADER

The bidder is an individual and if operating under a trade name, such trade name is as follows:

4. ADDRESS

The business address of the bidder is as follows: _____

Its phone number is _____

5. STATUTORY SWORN STATEMENT

_____ also deposes and says that he has examined and carefully prepared their bid proposal from the plan and specifications and has checked the same in detail before submitting this proposal or bid, that the statements contained herein are true and correct.

_____ (Signature)
Subscribed and sworn to before me this ____ day of _____ 20____.

Notary public, _____ Co.

My commission Expires: _____

(This affidavit must be attached to and filed with the bid proposal)

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Apple Hill Road Sanitary Extension 2020 Project

PROJECT SPECIFICATIONS

SECTION II CONTRACT DOCUMENTS / EXHIBITS

BID PROPOSAL

BID LOCATION: Bayfield Town Hall – VIA GOTO MEETING
85450 CTH J, Bayfield WI, 54891

BID DATE: FEB. 25, 2021

BID TIME: 1:00 pm

PROJECT: Pikes Bay Sanitary District #1 (PBSB)
Apple Hill Road Sanitary Extension 2020 Project

Proposal of _____
(herein after called BIDDER) a corporation of _____, a partnership, or an individual doing business as _____.

TO: The Pikes Bay Sanitary District #1 (PBSB)

The BIDDER, in compliance with your invitation for bids for the construction of the
Apple Hill Road Sanitary Extension 2020 Project

and having examined the Plans and Specifications and related documents prepared by LUND ENGINEERING, and the site of the proposed project, including the availability of materials and labor, hereby propose to furnish all labor, equipment, materials and supplies, and to construct the project in accordance with the Contract Documents within the time set forth therein, and at the prices set forth below. Those prices are to cover all of the expenses incurred in performing the work required under the Contract Documents, of which this Proposal is a part thereof.

The BIDDER hereby agrees to commence Work on the Contract on or before a date specified in the written "Notice To Proceed" of the Owner and to substantially complete the Project by Nov. 30, 2021. Final Completion shall be achieved by Dec. 15, 2021. Substantial completion shall be: to install the HDPE piping, backfill, and perform testing.

The BIDDER agrees to pay as liquidated damages the sum of \$100.00 for each consecutive day thereafter, past the **substantial completion** date and \$200.00 for each consecutive day past the **final completion** date. (Unless a shutdown is mutually agreed to between the Owner and Contractor)

The BIDDER acknowledges receipt of the following addenda:

Award is expected within 15 days of the Bid Opening.

The BIDDER agrees to perform all the Work described in the Contract Documents for the following price: _____ Dollars.
\$ _____ based on the unit price bid proposal schedule attached.

(BIDDER)

(Signature)

(Date)

PIKES BAY SANITARY DISTRICT #1**PBSD Apple Hill Road Sanitary Extension 2020 Project****Construction Cost Estimate****10FEB21****BID DATE: 25FEB21****BY: LUND ENGINEERING: RANDY M. LUND, PE**

Contractor: _____

signed by: _____

date: _____

Sanitary Extension**ITEM****UNIT****UNIT COST****QUANTITY****COST**

1. Mobilization	LS	\$ -	1	\$ -
2. Breaker Run 6" minus	TON	\$ -	100	\$ -
3. Lateral 6" PVC	LF	\$ -	140	\$ -
4. San. Sewer 8" PVC	LF	\$ -	715	\$ -
5. Riprap Heavy	TON	\$ -	100	\$ -
6. Roadway Gravel DOT Grade 2	TON	\$ -	500	\$ -
7. Landscaping / Restoration	LS	\$ -	1	\$ -
8. Erosion Control	LS	\$ -	1	\$ -
9. Clear & Grub	LS	\$ -	1	\$ -
10. MH 4' Dia. W casting N-1550	EA	\$ -	4	\$ -
11. Salvage and Replace ditchline Riprap	LS	\$ -	1	\$ -
12 Salvage and Replace Exist Road Gravel	LS	\$ -	1	\$ -
13. Rock Check Dams & Ditchline Protection - Light Riprap	TON	\$ -	150	\$ -
14. Asphalt Repair - DEPTH, Match Exist (3" min.)	SY	\$ -	75	\$ -
TOTAL , Apple Hill Ext				\$ -

Existing roadway and ditchline riprap & breaker run to be salvaged and restored to match the existing condition.

Best efforts at salvage, expected, within trench cuts. New riprap & breaker run to be new per Items #2 & #13.

Existing road gravel to be salvaged and replaced, for base gravel. Top 4" to be new gravel by item #6

Erosion Control to include silt fence (or alt.) as necessary to control construction runoff and for the stabilization of Road.

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Pikes Bay Sanitary District #1 (PBSD) **Apple Hill Road Sanitary Extension 2020 Project**

SUPPLEMENTAL CONDITIONS

1. Liquidated damages shall be as stated in Article 3 of the Standard Form of Agreement (between Owner and Contractor).
2. Submittals:
 - a. Shop drawings are required. The Contractor shall supply the following shop drawings to the ENGINEER (as applicable):

- manholes/castings	- valves/hydrants	- fitting locations	- pipes
- structures	- under-drains	- geotextile fabrics	- end-sections
 - b. Material certifications are required, for pipe and concrete products. Asphalt job mix reports and aggregate gradations are required.
 - c. Product data on hydrants, valves, and piping is required in triplicate (as applicable).
 - d. A Construction Schedule shall be provided within ten (10) days of Contract Execution.
3. Permits
 - a. Permits are included in Tech Spec. 'E' for the PROJECT.
 - b. All permit conditions and requirements shall be adhered to, by the Contractor.
 - c. WI DNR erosion control requirements will be enforced.
4. Meetings may be held at the site to discuss progress and construction issues. A pre-construction meeting may be held to discuss procedures and schedules.
5. The Contractor shall give two (2) full working days notice to the Engineer when construction staking is required.
 - a. The Engineer shall provide one-time staking for alignment and grade for the project.
 - b. Benchmarks will be set at locations, approx. 1000' apart.
 - c. Re-staking will be at the Contractors expense. The Owner will deduct re-staking costs, from Contractors pay requests.
 - d. Contractor is responsible for installation to correct horizontal and vertical alignments.

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6. Weather Delays

a. The project may encounter weather delays but it is the intent of the Owner to finish the project by the dates listed in the Standard Form of Agreement Between the Owner and Contractor.

b. If the Contractor feels that the schedule cannot be met the Contractor shall inform the Owner in the bid proposal.

7. Construction Testing / Observation

a. Pipeline pressure testing will be required for water mains and sanitary sewers (as applicable).

b. The Contractor will be responsible for providing all tools, equipment and labor necessary for accomplishing the tests.

c. The Engineer shall be notified 3 working days in advance of when testing will be performed.

d. Tests shall be in accordance with the Standard Specifications for Sewer and Water Construction in Wisconsin for the following:

- Sanitary sewer

1. deflection test
2. low pressure air test / Hydrostatic for Force Main Projects
3. lamping

- Watermain

1. leakage
2. bacteriological
3. pressure
4. chlorination
5. continuity

e. The Contractor shall adhere to OSHA confined space entry regulations.

8. De-watering / Drainage

a. Contractor is responsible for de-watering and any necessary permits.

b. Contractor is responsible for site drainage during construction. Positive site drainage is required to prevent saturating sub-grades and structures.

c. WI DNR permits may be required for de-watering in excess of 70 gpm. (See NR 812)

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9. Standards

a. All appropriate ASTM, AWWA, NEMA and ANSI standards shall be followed (see the technical specifications and the reference specifications).

10. Record Drawings

a. Contractor shall keep record drawings for all underground installations. Items shall be referenced (measured) to permanent fixtures on the surface for horizontal and vertical locations.

b. Contractor shall submit record drawing information to the Owner prior to final payment.

11. Site Safety / Access

a. Contractor is responsible for all site safety and security.

b. Contractor shall adhere to all OSHA regulations.

c. Contractor shall not impede traffic flow without notifying the Owner unless traffic control devices are in place.

12. The Contractor will be responsible to provide adequate bedding for the pipe per the Standard Specifications for Sewer and Water Construction in Wisconsin and the manufacturers recommendations. The Contractor shall provide (at no extra cost) ¾" crushed aggregate (4" thick) as bedding, if soils are wet, in addition to standard bedding material.

13. WI DOT regulations shall be adhered to, for building services. Note that clear water from sump pumps, foundation drains, and roof drains, etc. CANNOT be connected to the sanitary sewer.

14. Erosion Control devices shall be in place prior to beginning construction.

a. Erosion bales and/or silt fence shall be placed every 300 feet along concentrated water flow paths; or at the Engineer's direction.

b. Six (6)' foot steel posts shall be used (every 15') to reinforce silt fence and to secure erosion bales.

c. Sediment traps, tracking pads, and check dams shall be used to limit sediment transport offsite. These items are incidental to the Project, and shall be used at the Engineer's direction.

d. WI DNR Best Management Practices shall be utilized.

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15. The locations of existing and proposed Utilities as shown on the plans are approximate. There may be other Utilities within the project limits which are not shown on the plans. Diggers Hotline shall be contacted 3 days prior to any excavation. The Contractor is responsible for coordination for Utility relocations.
16. **Soil borings** have NOT been performed for this project.
17. Except where otherwise indicated on the plans or in the proposal and the supplementary specifications contained herein, all materials and workmanship shall be in accordance with the State of WI Department of Transportation Standard Specifications, 2015 Edition.
18. If the asphaltic surface pavements are to be completed after the winter season has passed, a tack coat shall be incidental to the asphalt cost. The tack coat shall be applied immediately prior to surface paving.
19. Contractor is required to maintain traffic on all streets during construction for local residents. Adequate Traffic Control signs shall be placed by the Contractor
20. Unsuitable soils quantities in the bid form include frost heave material, peat, organic, and other material, as determined by engineer in field, shall be removed. The EBS bid item shall be used for removal and backfill, if included in the bid proposal schedule.
21. Water service shall be maintained by the contractor. Contractor shall give affected home owners 48 hour's advance notice prior to turning off the water main (costs are incidental to water main construction). Water service outages shall be limited to four (4) hours, otherwise temporary water service shall be provided. The existing water services shall be maintained until the new water mains are tested and disinfected.
22. Construction Progress
 - a. Construction shall proceed in a fashion to allow local traffic to have access. If alleys or other roads are unavailable, then temporary access (on gravel) shall be provided.
 - b. The schedule shall proceed so that once a road is closed to thru traffic, it is continuously worked on until a gravel surface is replaced and thru traffic is restored.
23. All signs and mail boxes that need to be moved during construction shall be done so by Contractor. All signs and mail boxes shall be replaced by Contractor in accordance with the Manual on Uniform Traffic Control Devices, and Post Office requirements.
24. Existing culverts that are in the proposed roadway or will no longer be necessary do to altered drainage shall be completely removed. The cost shall be incidental to the Project, unless the Bid Item "Removing Culverts" is included.

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25. All asphalt and concrete drives and road surfaces shall be saw cut, after road construction and prior to paving.
26. Driveways shall be restored with like materials to the limits of the right-of-way unless otherwise noted on plans or requested by engineer in field.
27. Maximum driveway grade shall be 8%.
28. Under-drain is required on all urban streets, per specifications and details. All underdrain shall continue around the proposed RADII, and shall connect into all proposed catch-basins. All under-drains shall end @ a catch-basin and begin @ a cleanout.
29. Trees removed shall become the property of the Contractor.
30. Haul Routes
 - a) Trucks must use designated truck routes whenever possible.
 - b) Damage to local streets shall be the Contractor's responsibility to repair.
31. Existing castings and hydrants shall be salvaged for the Owner.
32. All concrete replacement, shall include #4 rebar's spaced at 3' to be installed between existing and proposed concrete pavements.
33. Curb ramps shall be installed at all urban intersections affected by the Project.
34. Contractor shall perform all work, and store all materials within the R/W or Project Easements; unless private owners have given their permission in writing.

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EJCDC STANDARD FORM OF AGREEMENT BETWEEN OWNER AND CONTRACTOR ON THE BASIS OF STIPULATED PRICE

THIS AGREEMENT is by and between the **Pikes Bay Sanitary District (PBSD)** (hereinafter called OWNER)

and _____
_____ (hereinafter called CONTRACTOR).

OWNER and CONTRACTOR, in consideration of the mutual covenants hereinafter set forth, agree as follows:

Article 1. WORK

1.01 CONTRACTOR shall complete all Work as specified or indicated in the Contract Documents. The Work is generally described as follows:

- A. FURNISH & INSTALL (F&I); PVC 8" Sanitary Sewer .
- B. F&I; PVC 6" Laterals
- C. F&I; CRUSHED AGGREGATE BASE COURSE.
- D. F&I; Erosion Control
- E. F&I; Manhole 4' Dia.. w/ castings
- F. F&I; Riprap – ditch line trenches
- G. F&I; Asphalt Repair

Article 2 THE PROJECT

2.01 The Project for which the Work under the Contract Documents may be the whole or only a part is generally described as follows:

Pikes Bay Sanitary District #1 (PBSD)
Apple Hill Road Sanitary Extension 2020 Project

Article 3. ENGINEER

3.01 The Project has been designed by:

LUND ENGINEERING (RANDY M. LUND, PE)

LUND ENGINEERING

Randy M. Lund, PE (WI, MN, MI, IA)

who are hereinafter called ENGINEER and who are to act as OWNER's representative, assume all duties and responsibilities and have the rights and authority assigned to ENGINEER in the Contract Documents in connection with completion of the Work in accordance with the Contract Documents.

Article 4. CONTRACT TIME

4.01 *Time of the Essence* All time limits for Milestones, if any, Substantial completion, and completion and readiness for final payment as stated in the Contract Documents are of the essence for the Contract.

4.02 *Dates for Substantial Completion and Final Payment* The Work will be Substantially Completed (defined as ALL WORK EXCEPT ASPHALT SURFACE) on or before **Nov 30, 2021**, and completed and ready for Final Payment in accordance with paragraph 14.07 of the General conditions on or before **Dec. 15, 2021**.

4.03 *Liquidated Damages.* OWNER and CONTRACTOR recognize that time is of the essence or this Agreement and that OWNER will suffer financial loss if the Work is not completed within the times specified in paragraph 3.1 above, plus any extensions thereof allowed in accordance with Article 12 of the General Conditions. The parties also recognize the delays, expense and difficulties involved in proving in a legal or arbitration proceeding the actual loss suffered by OWNER if the Work is not completed on time. Accordingly, instead of requiring any such proof, OWNER and CONTRACTOR agree that as liquidated damages for delay (but not as a penalty) CONTRACTOR shall pay OWNER **One Hundred** dollars (**\$100.00**) for each day that expires after the time specified in paragraph 4.02 for Substantial Completion until the Work is substantially complete. After Substantial Completion, if CONTRACTOR shall neglect, refuse or fail to complete the remaining Work within the Contract Time or any proper extension thereof granted by OWNER, CONTRACTOR shall pay OWNER **Two Hundred** Dollars (**\$200.00**) for each day that expires after the time specified in paragraph 4.02 for completion and readiness for final payment until the work is completed and ready for final payment.

Article 5. CONTRACT PRICE.

5.01 OWNER shall pay CONTRACTOR for completion of the Work in accordance with the Contract Documents and amount in current funds equal to the sum of the amounts determined pursuant to paragraph 5.01C below:

- A. Not used.
- B. Not used.
- C. For all Work, at the prices stated in CONTRACTOR'S Bid, attached hereto as an exhibit.

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UNIT PRICE WORK

(SEE ATTACHED PROPOSAL SCHEDULE)

TOTAL OF ALL UNIT PRICES

_____ (dollars)
(use words)

\$ _____ (dollars)
(use numbers)

As provided in paragraph 11.03 of the General Conditions estimated quantities are not guaranteed, and determinations of actual quantities and classification are to be made by ENGINEER as provided in paragraph 9.08 of the General Conditions. Unit prices have been computed as provided in paragraph 11.03 of the General Conditions.

Article 6. PAYMENT PROCEDURES

6.01 *Submittal and Processing of Payments*

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

6.02 *Progress Payments; Retainage.*

A. OWNER shall make progress payments on account of the Contract Price on the basis of CONTRACTOR's Applications for Payment as recommended by ENGINEER, on or about the 5th Day of each month during construction as provided in paragraphs 6.02.A.1 and 6.02A.2 below. All such payments will be measured by the schedule of values established in paragraph 2.07.A of the General Conditions (and in the case of Unit Price Work based on the number of units completed) or, in the event there is no schedule of values, as provided in the General Requirements.

1. Prior to Substantial Completion, progress payments will be made in an amount equal to the percentage indicated below, but, in each case, less the aggregate of payments previously made and less such amounts as ENGINEER may determine, or OWNER may withhold, in accordance with paragraph 14.02 of the General Conditions.

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a. 90 % of Work completed (with the balance being retainage). If Work has been 50% completed as determined by ENGINEER, and if the character and progress of the Work have been satisfactory to OWNER and ENGINEER,

OWNER, on recommendation of ENGINEER, may determine that as long as the character and progress of the Work remain satisfactory to them, there will be no additional retainage on account of Work subsequently completed, in which case the remaining progress payments prior to Substantial Completion will be in an amount equal to 100% of the Work completed less the aggregate of payments previously made; and

b. 50 % (of cost) of materials and equipment not incorporated in the Work (but with the balance being retainage).

2. Upon Substantial Completion, the OWNER shall pay an amount sufficient to increase total payments to CONTRACTOR to 95% of the work completed less such amounts as ENGINEER shall determine, in accordance with paragraph 14.02.B.5 or of the General Conditions and less 100 % of ENGINEER's estimate of the value of Work to be completed or corrected as shown on the tentative list of items to be completed or corrected attached to the certificate Substantial Completion.

6.03 Final Payment.

A. Upon final completion and acceptance of the Work in accordance with paragraph 14.07 of the General Conditions, OWNER shall pay the remainder of the Contract Price as recommended by ENGINEER as provided in said paragraph 14.07.

Article 7. INTEREST.

7.01 All moneys not paid when due as provided in Article 14 of the General Conditions shall bear interest at the rate of 12% per annum.

Article 8. CONTRACTOR'S REPRESENTATIONS.

8.01 In order to induce OWNER to enter into this Agreement CONTRACTOR makes the following representations:

A. CONTRACTOR has examined and carefully studied the Contract Documents and the other related data identified in the Bidding Documents.

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B. CONTRACTOR has visited the site and become familiar with and is satisfied as to the general, local, and site conditions that may affect cost, progress, and performance of the Work.

C. CONTRACTOR is familiar with and is satisfied as to all federal, state and local Laws and Regulations that may affect cost, progress, and performance and furnishing of the Work.

D. CONTRACTOR has carefully studied all: 1) reports of explorations and tests of subsurface conditions at or contiguous to the Site and all drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the Site (except Underground Facilities) which have been identified in the Supplementary Conditions as provided in paragraph 4.02 of the General Conditions and 2) reports and drawings of a Hazardous Environmental Condition, if any, at the Site which has been identified in the Supplementary Conditions are provided in paragraph 4.06 of the General Conditions.

E. CONTRACTOR has obtained and carefully studied (or assumes responsibility for having done so) all investigations, explorations, tests, studies and data concerning conditions (surface, subsurface, and Underground Facilities) at or contiguous to the Site which may affect cost, progress, or performance of the Work or which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction to be employed by CONTRACTOR, including applying the specific means, methods, techniques, sequences, and procedures of construction, if any, expressly required by the Contract Documents to be employed by CONTRACTOR, and safety precautions and programs incident thereto.

F. CONTRACTOR does not consider that any further examinations, investigations, explorations, tests, studies, or data are necessary for the performance of the Work at the Contract Price, within the Contract Times, and in accordance with the other terms and conditions of the Contract Documents.

G. CONTRACTOR is aware of the general nature of work to be performed by OWNER and others at the site that relates to the Work as indicated in the Contract Documents.

H. CONTRACTOR has correlated the information known to CONTRACTOR, information and observations obtained from visits to the site, reports and drawings identified in the Contract documents and all additional examinations, investigations, explorations, tests, studies and data with the Contract Documents.

I. CONTRACTOR has given ENGINEER written notice of all conflicts, errors, ambiguities or discrepancies that CONTRACTOR has discovered in the Contract Documents and the written resolution thereof by ENGINEER is acceptable to CONTRACTOR.

J. The Contract Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.

Article 9. CONTRACT DOCUMENTS.

9.01 Contents

A. The Contract Documents consist of the following:

- 1 This Agreement (pages 1 to 9, inclusive).
- 2 Performance, Bonds (attached);
3. Payment Bond (attached);
4. Other Bonds (attached);
- 5 General Conditions (1 to 58, inclusive).
- 6 Supplementary Conditions (pages 1 to 5, inclusive).
- 7 Specifications bearing the title:

Pikes Bay Sanitary District #1 (PBSD)
Apple Hill Road Sanitary Extension 2020 Project

and consisting of items as listed in table of contents thereof.

8 Drawings as part of the PLAN Set with each sheet bearing the following general title:

Pikes Bay Sanitary District #1 (PBSD)
Apple Hill Road Sanitary Extension 2020 Project

- 9 Addenda numbers ____ to ____, inclusive.
10. Exhibits to this Agreement (enumerated as follows):
 - a. Notice to Proceed (attached);
 - b. CONTRACTOR's Bid (attached).

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c. Documentation submitted by CONTRACTOR prior to Notice of Award (attached).

d. Bid Submittal Package

11. The following which may be delivered or issued after the Effective Date of the Agreement and are not attached hereto:

- a. All Written Amendments
- b. Work Change Directives
- c. Change Order(s)

B. The documents listed in paragraph 9.01.A are attached to this Agreement (except as expressly noted otherwise above).

C. There are no Contract Documents other than those listed above in this Article 9.

D. The Contract Documents may only be amended, modified, or supplemented as provided in paragraph 3.05 of the General Conditions.

Article 10. MISCELLANEOUS

10.01 *Terms*

A. Terms used in this will have the meanings indicated in the General Conditions.

10.02 *Assignment of Contract*

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

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10.03 *Successors and Assigns*

A. OWNER and CONTRACTOR each binds itself, its partners, successors, assigns and legal representatives to the other party hereto, its partners, successors, assigns and legal representatives in respect to all covenants, agreements and obligations contained in the Contract Documents.

10.04 *Severability*

A. Any provision or part of the Contract Documents held to be void or unenforceable under any Law or Regulation shall be deemed stricken, and all remaining provisions shall continue to be valid and binding upon OWNER and CONTRACTOR, who agree that the Contract Documents shall be reformed to replace such stricken provision or part thereof with a valid and enforceable provision that comes as close as possible to expressing the intention of the stricken provision.

10.05 *OTHER PROVISIONS*

A. _____

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IN WITNESS WHEREOF, OWNER and CONTRACTOR have signed this Agreement in duplicate. One counterpart each has been delivered to OWNER, and CONTRACTOR. All portions of the contract Documents have been signed or identified by OWNER and CONTRACTOR or on their behalf.

This Agreement will be effective on _____, 20____ (which is the Effective Date of the Agreement).

OWNER: PBSD

CONTRACTOR: _____

By: _____

By: _____

(CORPORATE SEAL)

(CORPORATE SEAL)

Attest: _____

Attest: _____

By: _____

By: _____

Address for giving notices

Address for giving notices

PBSD

President, AJ Long

PO Box 689

Bayfield, WI 54814

(If OWNER is a public body, attach evidence of authority to sign and resolution or other documents authorizing execution of OWNER-CONTRACTOR Agreement)

License No. _____

Agent for service of process: _____

(If CONTRACTOR is a corporation, attach evidence of authority to sign.)

Designated Representative:

Designated Representative:

Name: Randy M. Lund, PE

Name: _____

Title: Project Manager

Title: _____

Address: 415 3rd Street / PO Box 243

Address: _____

Washburn WI 54891

Phone: 715-209-0367

Email: rmlund1@charter.net

Phone: _____

BID BOND**BIDDER (Name and Address):**

SURETY (Name and Address of Principal Place of Business):

OWNER (Name and Address):

BID**BID DUE DATE:** _____**PROJECT (Brief Description Including Location):**

BOND**BOND NUMBER:** _____**DATE (Not later than Bid due date):** _____**PENAL SUM:** _____

(Words)

(Figures)

IN WITNESS WHEREOF, Surety and Bidder, intending to be legally bound hereby, subject to the terms printed on the reverse side hereof, do each cause this Bid Bond to be duly executed on its behalf by its authorized officer, agent, or representative.

BIDDER**SURETY**

 _____ (Seal)
 Bidder's Name and Corporate Seal

 _____ (Seal)
 Surety's Name and Corporate Seal

By: _____
 Signature and Title

By: _____
 Signature and Title
 (Attach Power of Attorney)

Attest: _____
 Signature and Title

Attest: _____
 Signature and Title

- Note: (1) Above addresses are to be used for giving required notice.
 (2) Any singular reference to Bidder, Surety, OWNER or other party shall be considered plural where applicable.

DAMAGES FORM

1. Bidder and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns to pay to OWNER upon default of Bidder any difference between the total amount of Bidder's Bid and the total amount of the Bid of the next lowest, responsible and responsive Bidder as determined by OWNER for the Work required by the Contract Documents, provided that:

- 1.1. If there is no such next lowest, responsible and responsive Bidder, and OWNER does not abandon the Project, then Bidder and Surety shall pay to OWNER the penal sum set forth on the face of this Bond, and
- 1.2. In no event shall Bidder's and Surety's obligation hereunder exceed the penal sum set forth on the face of this Bond.

2. Default of Bidder shall occur upon the failure of Bidder to deliver within the time required by the Bidding Documents (or any extension thereof agreed to in writing by OWNER) the executed Agreement required by the Bidding Documents and any performance and payment Bonds required by the Bidding Documents.

3. This obligation shall be null and void if:

- 3.1. OWNER accepts Bidder's Bid and Bidder delivers within the time required by the Bidding Documents (or any extension thereof agreed to in writing by OWNER) the executed Agreement required by the Bidding Documents and any performance and payment Bonds required by the Bidding Documents, or
- 3.2. All Bids are rejected by OWNER, or
- 3.3. OWNER fails to issue a Notice of Award to Bidder within the time specified in the Bidding Documents (or any extension thereof agreed to in writing by Bidder and, if applicable, consented to by Surety when required by paragraph 5 hereof).

4. Payment under this Bond will be due and payable upon default by Bidder and within 30 calendar days after receipt by Bidder and Surety of written notice of default from OWNER, which notice will be given with reasonable promptness, identifying this Bond and the Project and including a statement of the amount due.

5. Surety waives notice of and any and all defenses based on or arising out of any time extension to issue Notice of Award agreed to in writing by OWNER and Bidder, provided that the total time for issuing Notice of Award including extensions shall not in the aggregate exceed 120 days from Bid due date without Surety's written consent.

6. No suit or action shall be commenced under this Bond prior to 30 calendar days after the notice of default required in paragraph 4 above is received by Bidder and Surety and in no case later than one year after Bid due date.

7. Any suit or action under this Bond shall be commenced only in a court of competent jurisdiction located in the state in which the Project is located.

8. Notices required hereunder shall be in writing and sent to Bidder and Surety at their respective addresses shown on the face of this Bond. Such notices may be sent by personal delivery, commercial courier or by United States Registered or Certified Mail, return receipt requested, postage pre-paid, and shall be deemed to be effective upon receipt by the party concerned.

9. Surety shall cause to be attached to this Bond a current and effective Power of Attorney evidencing the authority of the officer, agent or representative who executed this Bond on behalf of Surety to execute, seal and deliver such Bond and bind the Surety thereby.

10. This Bond is intended to conform to all applicable statutory requirements. Any applicable requirement of any applicable statute that has been omitted from this Bond shall be deemed to be included herein as if set forth at length. If any provision of this Bond conflicts with any applicable statute, then the provision of said statute shall govern and the remainder of this Bond that is not in conflict therewith shall continue in full force and effect.

11. The term "Bid" as used herein includes a Bid, offer or proposal as applicable.

Performance Bond

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

CONTRACTOR (Name and Address):

SURETY (Name and Address of Principal Place of Business):

OWNER (Name and Address):

CONTRACT

Date:

Amount:

Description (Name and Location):

BOND

Date (Not earlier than Contract Date):

Amount:

Modifications to this Bond Form:

Surety and Contractor, intending to be legally bound hereby, subject to the terms printed on the reverse side hereof, do each cause this Performance Bond to be duly executed on its behalf by its authorized officer, agent or representative.

CONTRACTOR AS PRINCIPAL

Company: (Corp. Seal)

Signature: _____

Name and Title:

SURETY

Company: (Corp. Seal)

Signature: _____

Name and Title:

(Attach Power of Attorney)

(Space is provided below for signatures of additional parties, if required.)

CONTRACTOR AS PRINCIPAL

Company: (Corp. Seal)

Signature: _____

Name and Title:

SURETY

Company: (Corp. Seal)

Signature: _____

Name and Title:

EJCDC No. 1910-28-A (1996 Edition)

Originally prepared through the joint efforts of the Surety Association of America, Engineers Joint Contract Documents Committee, the Associated General Contractors of America, and the American Institute of Architects.

1. The CONTRACTOR and the Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns to the Owner for the performance of the Contract, which is incorporated herein by reference.

2. If the CONTRACTOR performs the Contract, the Surety and the CONTRACTOR have no obligation under this Bond, except to participate in conferences as provided in paragraph 3.1.

3. If there is no OWNER Default, the Surety's obligation under this Bond shall arise after:

3.1. The OWNER has notified the CONTRACTOR and the Surety at the addresses described in paragraph 10 below, that the OWNER is considering declaring a CONTRACTOR Default and has requested and attempted to arrange a conference with the CONTRACTOR and the Surety to be held not later than fifteen days after receipt of such notice to discuss methods of performing the Contract. If the OWNER, the CONTRACTOR and the Surety agree, the CONTRACTOR shall be allowed a reasonable time to perform the Contract, but such an agreement shall not waive the OWNER's right, if any, subsequently to declare a CONTRACTOR Default; and

3.2. The OWNER has declared a CONTRACTOR Default and formally terminated the CONTRACTOR's right to complete the Contract. Such CONTRACTOR Default shall not be declared earlier than twenty days after the CONTRACTOR and the Surety have received notice as provided in paragraph 3.1; and

3.3. The OWNER has agreed to pay the Balance of the Contract Price to:

3.3.1. The Surety in accordance with the terms of the Contract;

3.3.2. Another contractor selected pursuant to paragraph 4.3 to perform the Contract.

4. When the OWNER has satisfied the conditions of paragraph 3, the Surety shall promptly and at the Surety's expense take one of the following actions:

4.1. Arrange for the CONTRACTOR, with consent of the OWNER, to perform and complete the Contract; or

4.2. Undertake to perform and complete the Contract itself, through its agents or through independent contractors; or

4.3. Obtain bids or negotiated proposals from qualified contractors acceptable to the OWNER for a contract for performance and completion of the Contract, arrange for a contract to be prepared for execution by the OWNER and the contractor selected with the OWNER's concurrence, to be secured with performance and payment bonds executed by a qualified surety equivalent to the Bonds issued on the Contract, and pay to the OWNER the amount of damages as described in paragraph 6 in excess of the Balance of the Contract Price incurred by the OWNER resulting from the CONTRACTOR Default; or

4.4. Waive its right to perform and complete, arrange for completion, or obtain a new contractor and with reasonable promptness under the circumstances;

4.4.1. After investigation, determine the amount for which it may be liable to the OWNER and, as soon as practicable after the amount is determined, tender payment therefor to the OWNER; or

4.4.2. Deny liability in whole or in part and notify the OWNER citing reasons therefor.

5. If the Surety does not proceed as provided in paragraph 4 with reasonable promptness, the Surety shall be deemed to be in default on this Bond fifteen days after receipt of an additional written notice from the OWNER to the Surety demanding that the Surety perform its obligations under this Bond, and the OWNER shall be entitled to enforce any remedy available to the OWNER. If the Surety proceeds as provided in paragraph 4.4, and the OWNER refuses the payment tendered or the Surety has denied

liability, in whole or in part, without further notice the OWNER shall be entitled to enforce any remedy available to the OWNER.

6. After the OWNER has terminated the CONTRACTOR's right to complete the Contract, and if the Surety elects to act under paragraph 4.1, 4.2, or 4.3 above, then the responsibilities of the Surety to the OWNER shall not be greater than those of the CONTRACTOR under the Contract, and the responsibilities of the OWNER to the Surety shall not be greater than those of the OWNER under the Contract. To a limit of the amount of this Bond, but subject to commitment by the OWNER of the Balance of the Contract Price to mitigation of costs and damages on the Contract, the Surety is obligated without duplication for:

6.1. The responsibilities of the CONTRACTOR for correction of defective Work and completion of the Contract;

6.2. Additional legal, design professional and delay costs resulting from the CONTRACTOR's Default, and resulting from the actions or failure to act of the Surety under paragraph 4; and

6.3. Liquidated damages, or if no liquidated damages are specified in the Contract, actual damages caused by delayed performance or non-performance of the CONTRACTOR.

7. The Surety shall not be liable to the OWNER or others for obligations of the CONTRACTOR that are unrelated to the Contract, and the Balance of the Contract Price shall not be reduced or set off on account of any such unrelated obligations. No right of action shall accrue on this Bond to any person or entity other than the OWNER or its heirs, executors, administrators, or successors.

8. The Surety hereby waives notice of any change, including changes of time, to the Contract or to related subcontracts, purchase orders and other obligations.

9. Any proceeding, legal or equitable, under this Bond may be instituted in any court of competent jurisdiction in the location in which the Work or part of the Work is located and shall be instituted within two years after CONTRACTOR Default or within two years after the CONTRACTOR ceased working or within two years after the Surety refuses or fails to perform its obligations under this Bond, whichever occurs first. If the provisions of this paragraph are void or prohibited by law, the minimum period of limitation available to sureties as a defense in the jurisdiction of the suit shall be applicable.

10. Notice to the Surety, the OWNER or the CONTRACTOR shall be mailed or delivered to the address shown on the signature page.

11. When this Bond has been furnished to comply with a statutory or other legal requirement in the location where the Contract was performed, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted here from and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. The intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

12. Definitions.

12.1. Balance of the Contract Price: The total amount payable by the OWNER to the CONTRACTOR under the Contract after all proper adjustments have been made, including allowance to the CONTRACTOR of any amounts received or to be received by the OWNER in settlement of insurance or other Claims for damages to which the CONTRACTOR is entitled, reduced by all valid and proper payments made to or on behalf of the CONTRACTOR under the Contract.

12.2. Contract: The agreement between the OWNER and the CONTRACTOR identified on the signature page, including all Contract Documents and changes thereto.

12.3. CONTRACTOR Default: Failure of the CONTRACTOR, which has neither been remedied nor waived, to perform or otherwise to comply with the terms of the Contract.

12.4. OWNER Default: Failure of the OWNER, which has neither been remedied nor waived, to pay the CONTRACTOR as required by the Contract or to perform and complete or comply with the other terms thereof.

(FOR INFORMATION ONLY—Name, Address and Telephone)

AGENT or BROKER: OWNER'S REPRESENTATIVE (Engineer or other party):

1. The CONTRACTOR and the Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns to the Owner for the performance of the Contract, which is incorporated herein by reference.

2. If the CONTRACTOR performs the Contract, the Surety and the CONTRACTOR have no obligation under this Bond, except to participate in conferences as provided in paragraph 3.1.

3. If there is no OWNER Default, the Surety's obligation under this Bond shall arise after:

3.1. The OWNER has notified the CONTRACTOR and the Surety at the addresses described in paragraph 10 below, that the OWNER is considering declaring a CONTRACTOR Default and has requested and attempted to arrange a conference with the CONTRACTOR and the Surety to be held not later than fifteen days after receipt of such notice to discuss methods of performing the Contract. If the OWNER, the CONTRACTOR and the Surety agree, the CONTRACTOR shall be allowed a reasonable time to perform the Contract, but such an agreement shall not waive the OWNER's right, if any, subsequently to declare a CONTRACTOR Default; and

3.2. The OWNER has declared a CONTRACTOR Default and formally terminated the CONTRACTOR's right to complete the Contract. Such CONTRACTOR Default shall not be declared earlier than twenty days after the CONTRACTOR and the Surety have received notice as provided in paragraph 3.1; and

3.3. The OWNER has agreed to pay the Balance of the Contract Price to:

3.3.1. The Surety in accordance with the terms of the Contract;

3.3.2. Another contractor selected pursuant to paragraph 4.3 to perform the Contract.

4. When the OWNER has satisfied the conditions of paragraph 3, the Surety shall promptly and at the Surety's expense take one of the following actions:

4.1. Arrange for the CONTRACTOR, with consent of the OWNER, to perform and complete the Contract; or

4.2. Undertake to perform and complete the Contract itself, through its agents or through independent contractors; or

4.3. Obtain bids or negotiated proposals from qualified contractors acceptable to the OWNER for a contract for performance and completion of the Contract, arrange for a contract to be prepared for execution by the OWNER and the contractor selected with the OWNER's concurrence, to be secured with performance and payment bonds executed by a qualified surety equivalent to the Bonds issued on the Contract, and pay to the OWNER the amount of damages as described in paragraph 6 in excess of the Balance of the Contract Price incurred by the OWNER resulting from the CONTRACTOR Default; or

4.4. Waive its right to perform and complete, arrange for completion, or obtain a new contractor and with reasonable promptness under the circumstances;

4.4.1. After investigation, determine the amount for which it may be liable to the OWNER and, as soon as practicable after the amount is determined, tender payment therefor to the OWNER; or

4.4.2. Deny liability in whole or in part and notify the OWNER citing reasons therefor.

5. If the Surety does not proceed as provided in paragraph 4 with reasonable promptness, the Surety shall be deemed to be in default on this Bond fifteen days after receipt of an additional written notice from the OWNER to the Surety demanding that the Surety perform its obligations under this Bond, and the OWNER shall be entitled to enforce any remedy available to the OWNER. If the Surety proceeds as provided in paragraph 4.4, and the OWNER refuses the payment tendered or the Surety has denied

liability, in whole or in part, without further notice the OWNER shall be entitled to enforce any remedy available to the OWNER.

6. After the OWNER has terminated the CONTRACTOR's right to complete the Contract, and if the Surety elects to act under paragraph 4.1, 4.2, or 4.3 above, then the responsibilities of the Surety to the OWNER shall not be greater than those of the CONTRACTOR under the Contract, and the responsibilities of the OWNER to the Surety shall not be greater than those of the OWNER under the Contract. To a limit of the amount of this Bond, but subject to commitment by the OWNER of the Balance of the Contract Price to mitigation of costs and damages on the Contract, the Surety is obligated without duplication for:

6.1. The responsibilities of the CONTRACTOR for correction of defective Work and completion of the Contract;

6.2. Additional legal, design professional and delay costs resulting from the CONTRACTOR's Default, and resulting from the actions or failure to act of the Surety under paragraph 4; and

6.3. Liquidated damages, or if no liquidated damages are specified in the Contract, actual damages caused by delayed performance or non-performance of the CONTRACTOR.

7. The Surety shall not be liable to the OWNER or others for obligations of the CONTRACTOR that are unrelated to the Contract, and the Balance of the Contract Price shall not be reduced or set off on account of any such unrelated obligations. No right of action shall accrue on this Bond to any person or entity other than the OWNER or its heirs, executors, administrators, or successors.

8. The Surety hereby waives notice of any change, including changes of time, to the Contract or to related subcontracts, purchase orders and other obligations.

9. Any proceeding, legal or equitable, under this Bond may be instituted in any court of competent jurisdiction in the location in which the Work or part of the Work is located and shall be instituted within two years after CONTRACTOR Default or within two years after the CONTRACTOR ceased working or within two years after the Surety refuses or fails to perform its obligations under this Bond, whichever occurs first. If the provisions of this paragraph are void or prohibited by law, the minimum period of limitation available to sureties as a defense in the jurisdiction of the suit shall be applicable.

10. Notice to the Surety, the OWNER or the CONTRACTOR shall be mailed or delivered to the address shown on the signature page.

11. When this Bond has been furnished to comply with a statutory or other legal requirement in the location where the Contract was performed, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted here from and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. The intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

12. Definitions.

12.1. Balance of the Contract Price: The total amount payable by the OWNER to the CONTRACTOR under the Contract after all proper adjustments have been made, including allowance to the CONTRACTOR of any amounts received or to be received by the OWNER in settlement of insurance or other Claims for damages to which the CONTRACTOR is entitled, reduced by all valid and proper payments made to or on behalf of the CONTRACTOR under the Contract.

12.2. Contract: The agreement between the OWNER and the CONTRACTOR identified on the signature page, including all Contract Documents and changes thereto.

12.3. CONTRACTOR Default: Failure of the CONTRACTOR, which has neither been remedied nor waived, to perform or otherwise to comply with the terms of the Contract.

12.4. OWNER Default: Failure of the OWNER, which has neither been remedied nor waived, to pay the CONTRACTOR as required by the Contract or to perform and complete or comply with the other terms thereof.

(FOR INFORMATION ONLY--Name, Address and Telephone)

AGENT or BROKER: OWNER'S REPRESENTATIVE (Engineer or other party):

Payment Bond

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

CONTRACTOR (Name and Address):

SURETY (Name and Address of Principal Place of Business):

OWNER (Name and Address):

CONTRACT

Date:

Amount:

Description (Name and Location):

BOND

Date (Not earlier than Contract Date):

Amount:

Modifications to this Bond Form:

Surety and Contractor, intending to be legally bound hereby, subject to the terms printed on the reverse side hereof, do each cause this Payment Bond to be duly executed on its behalf by its authorized officer, agent, or representative.

CONTRACTOR AS PRINCIPAL

Company: _____ (Corp. Seal)

Signature: _____

Name and Title: _____

SURETY

Company: _____ (Corp. Seal)

Signature: _____

Name and Title: _____
(Attach Power of Attorney)

(Space is provided below for signatures of additional parties, if required.)

CONTRACTOR AS PRINCIPAL

Company: _____ (Corp. Seal)

Signature: _____

Name and Title: _____

SURETY

Company: _____ (Corp. Seal)

Signature: _____

Name and Title: _____

EJCDC No. 1910-28-B (1996 Edition)

Originally prepared through the joint efforts of the Surety Association of America, Engineers Joint Contract Documents Committee, the Associated General Contractors of America, the American Institute of Architects, the American Subcontractors Association, and the Associated Specialty Contractors.

1. The CONTRACTOR and the Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns to the OWNER to pay for labor, materials and equipment furnished for use in the performance of the Contract, which is incorporated herein by reference.

2. With respect to the OWNER, this obligation shall be null and void if the CONTRACTOR:

2.1. Promptly makes payment, directly or indirectly, for all sums due Claimants, and

2.2. Defends, indemnifies and holds harmless the OWNER from all claims, demands, liens or suits by any person or entity who furnished labor, materials or equipment for use in the performance of the Contract, provided the OWNER has promptly notified the CONTRACTOR and the Surety (at the addresses described in paragraph 12) of any claims, demands, liens or suits and tendered defense of such claims, demands, liens or suits to the CONTRACTOR and the Surety, and provided there is no OWNER Default.

3. With respect to Claimants, this obligation shall be null and void if the CONTRACTOR promptly makes payment, directly or indirectly, for all sums due.

4. The Surety shall have no obligation to Claimants under this Bond until:

4.1. Claimants who are employed by or have a direct contract with the CONTRACTOR have given notice to the Surety (at the addresses described in paragraph 12) and sent a copy, or notice thereof, to the OWNER, stating that a claim is being made under this Bond and, with substantial accuracy, the amount of the claim.

4.2. Claimants who do not have a direct contract with the CONTRACTOR:

1. Have furnished written notice to the CONTRACTOR and sent a copy, or notice thereof, to the OWNER, within 90 days after having last performed labor or last furnished materials or equipment included in the claim stating, with substantial accuracy, the amount of the claim and the name of the party to whom the materials were furnished or supplied or for whom the labor was done or performed; and

2. Have either received a rejection in whole or in part from the CONTRACTOR, or not received within 30 days of furnishing the above notice any communication from the CONTRACTOR by which the CONTRACTOR had indicated the claim will be paid directly or indirectly; and

3. Not having been paid within the above 30 days, have sent a written notice to the Surety and sent a copy, or notice thereof, to the OWNER, stating that a claim is being made under this Bond and enclosing a copy of the previous written notice furnished to the CONTRACTOR.

5. If a notice required by paragraph 4 is given by the OWNER to the CONTRACTOR or to the Surety, that is sufficient compliance.

6. When the Claimant has satisfied the conditions of paragraph 4, the Surety shall promptly and at the Surety's expense take the following actions:

6.1. Send an answer to the Claimant, with a copy to the OWNER, within 45 days after receipt of the claim, stating the amounts that are undisputed and the basis for challenging any amounts that are disputed.

6.2. Pay or arrange for payment of any undisputed amounts.

7. The Surety's total obligation shall not exceed the amount of this Bond, and the amount of this Bond shall be credited for any payments made in good faith by the Surety.

8. Amounts owed by the OWNER to the CONTRACTOR under the Contract shall be used for the performance of the Contract and to satisfy claims, if any, under any Performance Bond. By the CONTRACTOR furnishing and the OWNER accepting this Bond, they agree that all funds earned by the CONTRACTOR in the performance of the Contract are dedicated to satisfy obligations of the CONTRACTOR and the Surety under this Bond, subject to the OWNER's priority to use the funds for the completion of the Work.

9. The Surety shall not be liable to the OWNER, Claimants or others for obligations of the CONTRACTOR that are unrelated to the Contract. The OWNER shall not be liable for payment of any costs or expenses of any Claimant under this Bond, and shall have under this Bond no obligations to make payments to, give notices on behalf of, or otherwise have obligations to Claimants under this Bond.

10. The Surety hereby waives notice of any change, including changes of time, to the Contract or to related Subcontracts, purchase orders and other obligations.

11. No suit or action shall be commenced by a Claimant under this Bond other than in a court of competent jurisdiction in the location in which the Work or part of the Work is located or after the expiration of one year from the date (1) on which the Claimant gave the notice required by paragraph 4.1 or paragraph 4.2.3, or (2) on which the last labor or service was performed by anyone or the last materials or equipment were furnished by anyone under the Construction Contract, whichever of (1) or (2) first occurs. If the provisions of this paragraph are void or prohibited by law, the minimum period of limitation available to sureties as a defense in the jurisdiction of the suit shall be applicable.

12. Notice to the Surety, the OWNER or the CONTRACTOR shall be mailed or delivered to the addresses shown on the signature page. Actual receipt of notice by Surety, the OWNER or the CONTRACTOR, however accomplished, shall be sufficient compliance as of the date received at the address shown on the signature page.

13. When this Bond has been furnished to comply with a statutory or other legal requirement in the location where the Contract was to be performed, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. The intent is, that this Bond shall be construed as a statutory Bond and not as a common law bond.

14. Upon request of any person or entity appearing to be a potential beneficiary of this Bond, the CONTRACTOR shall promptly furnish a copy of this Bond or shall permit a copy to be made.

15. DEFINITIONS

15.1. Claimant: An individual or entity having a direct contract with the CONTRACTOR or with a Subcontractor of the CONTRACTOR to furnish labor, materials or equipment for use in the performance of the Contract. The intent of this Bond shall be to include without limitation in the terms "labor, materials or equipment" that part of water, gas, power, light, heat, oil, gasoline, telephone service or rental equipment used in the Contract, architectural and engineering services required for performance of the Work of the CONTRACTOR and the CONTRACTOR's Subcontractors, and all other items for which a mechanic's lien may be asserted in the jurisdiction where the labor, materials or equipment were furnished.

15.2. Contract: The agreement between the OWNER and the CONTRACTOR identified on the signature page, including all Contract Documents and changes thereto.

15.3. OWNER Default: Failure of the OWNER, which has neither been remedied nor waived, to pay the CONTRACTOR as required by the Contract or to perform and complete or comply with the other terms thereof.

(FOR INFORMATION ONLY—Name, Address and Telephone)

AGENCY or BROKER:

OWNER'S REPRESENTATIVE (Engineer or other party):

NOTICE OF AWARD

Dated _____

TO: _____
(BIDDER)

ADDRESS: _____

Contract: _____

(Insert name of Contract as it appears in the Bidding Documents)

Project: _____

OWNER's Contract No. _____

You are notified that your Bid dated _____ for the above Contract has been considered. You are the apparent Successful Bidder and have been awarded a Contract for _____

(Indicate total Work, alternates or sections of Work awarded)

The Contract Price of your Contract is _____ Dollars (\$ _____).

[Insert appropriate data if Unit Prices are used. Change language for Cost-Plus contracts]

___ copies of each of the proposed Contract Documents (except Drawings) accompany this Notice of Award. ___ sets of the Drawings will be delivered separately or otherwise made available to you immediately.

You must comply with the following conditions precedent within fifteen days of the date of this Notice of Award, that is by _____.

1. Deliver to the OWNER ___ fully executed counterparts of the Contract Documents. [Each of the Contract Documents must bear your signature on ()].
2. Deliver with the executed Contract Documents the Contract security (Bonds) as specified in the Instructions to Bidders (Article 20), [and] General Conditions (paragraph 5.01) [and Supplementary Conditions (paragraph SC-5.01).]

EJCDC No. 1910-22 (1996 Edition)

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

3. (List other conditions precedent).

Failure to comply with these conditions within the time specified will entitle OWNER to consider your Bid in default, to annul this Notice of Award and to declare your Bid security forfeited.

Within ten days after you comply with the above conditions, OWNER will return to you one fully executed counterpart of the Contract Documents.

(OWNER)

By: _____

(AUTHORIZED SIGNATURE)

(TITLE)

Copy to ENGINEER
(Use Certified Mail,
Return Receipt Requested)

NOTICE TO PROCEED

Dated _____

TO: _____
(CONTRACTOR)

ADDRESS¹: _____

Contract: _____
(Insert name of Contract as it appears in the Contract Documents)

Project: _____

OWNER'S CONTRACT NO. _____

You are notified that the Contract Times under the above contract will commence to run on _____. By that date, you are to start performing your obligations under the Contract Documents. In accordance with Article 4 of the Agreement the date of Substantial Completion is _____ and the date of readiness for final payment is _____.

Before you may start any Work at the Site, paragraph 2.05.C of the General Conditions provides that you and Owner must each deliver to the other (with copies to Engineer and other identified additional insureds) certificates of insurance which each is required to purchase and maintain in accordance with the Contract Documents.

Also, before you may start any Work at the Site, you must
(add other requirements)

(OWNER)

By: _____
(AUTHORIZED SIGNATURE)

(TITLE)

Copy to ENGINEER

¹(Use Certified Mail, Return Receipt Requested)

APPLICATION FOR PAYMENT NO. _____

To: _____ (OWNER)
From: _____ (CONTRACTOR)
Contract: _____
Project: _____
OWNER's Contract No. _____ ENGINEER's Project No. _____
For Work accomplished through the date of: _____

- | | | |
|----|--|-----------------|
| 1. | Original Contract Price: | \$ _____ |
| 2. | Net change by Change Orders and Written Amendments (+ or -): | \$ _____ |
| 3. | Current Contract Price (1 plus 2): | \$ _____ |
| 4. | Total completed and stored to date: | \$ _____ |
| 5. | Retainage (per Agreement): | |
| | _____ % of completed Work: | \$ _____ |
| | _____ % of stored material: | \$ _____ |
| | Total Retainage: | \$ _____ |
| 6. | Total completed and stored to date less retainage (4 minus 5): | \$ _____ |
| 7. | Less previous Application for Payments: | \$ _____ |
| 8. | DUE THIS APPLICATION (6 MINUS 7): | \$ _____ |

Accompanying Documentation: _____

CONTRACTOR'S Certification:

The undersigned CONTRACTOR certifies that (1) all previous progress payments received from OWNER on account of Work done under the Contract referred to above have been applied on account to discharge CONTRACTOR's legitimate obligations incurred in connection with Work covered by prior Applications for Payment numbered 1 through _____ inclusive; (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 Lien, security interest or encumbrance); and (3) all Work covered by this Application for Payment is in accordance with the Contract Documents and not defective.

Dated _____ CONTRACTOR

By: _____

State of _____
County of _____
Subscribed and sworn to before me this _____
day of _____, _____

Notary Public
My Commission expires: _____

Payment of the above AMOUNT DUE THIS APPLICATION is recommended.

Dated _____ ENGINEER

By: _____

APPLICATION FOR PAYMENT

INSTRUCTIONS

A. GENERAL INFORMATION

The sample form of Schedule of Values is intended as a guide only. Many projects require a more extensive form with space for numerous items, descriptions of Change Orders, identification of variable quantity adjustments, summary of materials and equipment stored at the site and other information. It is expected that a separate form will be developed by Engineer and Contractor at the time Contractor's Schedule of Values is finalized. Note also that the format for retainage must be changed if the Contract permits (or the law provides), and Contractor elects to deposit securities in lieu of retainage. Refer to Article 14 of the General Conditions for provisions concerning payments to Contractor.

B. COMPLETING THE FORM

The Schedule of Values, submitted and approved as provided in paragraphs 2.05.B.3 and 2.07 of the General Conditions, should be reproduced as appropriate in the space indicated on the Application for Payment form. Note that the cost of materials and equipment is often listed separately from the cost of installation. Also, note that each Unit Price is deemed to include Contractor's overhead and profit.

All Change Orders affecting the Contract Price should be identified and included in the Schedule of Values as required for progress payments.

The form is suitable for use in the Final Application for Payment as well as for Progress Payments; however, the required accompanying documentation is usually more extensive for final payment. All accompanying documentation should be identified in the space provided on the form.

C. LEGAL REVIEW

All accompanying documentation of a legal nature, such as Lien waivers, should be reviewed by an attorney, and Engineer should so advise Owner.

Application No. _____ Date: _____

ITEM	UNIT PRICE	ESTIMATED QUANTITY	SCHEDULE OF VALUES AMOUNT	QUANTITY COMPLETED	AMOUNT	%	MATERIAL STORED	AMOUNT COMPLETED AND STORED
1.	\$		\$		\$		\$	\$
2.								
3.								
4.								
5.								
6.								
7.								
8.								
9.								
10.								
11.								
12.								
13.								
14.								
15.								
16.								
17.								
18.								
19.								
20.								
21.								
22.								
23.								
24.								
25.								
26.								
27.								
28.								
29.								
30.								
TOTAL			\$		\$		\$	\$

Note: Total Schedule of Values Amount should equal the current Contract Price.

WORK DIRECTIVE CHANGE

(Instructions on reverse side)

No. _____

PROJECT:

DATE OF ISSUANCE:

OWNER:

(Name,
Address)

CONTRACTOR:

OWNER's Project No. _____

ENGINEER:

CONTRACT FOR:

ENGINEER's Project No. _____

You are directed to proceed promptly with the following change(s):

Description:

Purpose of Work Directive Change:

Attachments: (list documents supporting change)

If a claim is made that the above change(s) have affected Contract Price or Contract Time, any claim for a Change Order based thereon will involve one of the following methods of determining the effect of the change(s).

Method of determining change in
Contract Price:

- ☐ Time and materials
- ☐ Unit prices
- ☐ Cost plus fixed fee
- ☐ Other _____

Estimated increase (decrease) in Contract
Price: \$_____.
If the change involves an increase, the esti-
mated amount is not to be exceeded with-
out further authorization.

Method of determining change in
Contract Time:

- ☐ Contractor's records
- ☐ Engineer's records
- ☐ Other _____

Estimated increase (decrease) in Contract
Time: _____ days. If the change
involves an increase, the estimated time is
not to be exceeded without further autho-
rization.

RECOMMENDED:

by _____
Engineer

AUTHORIZED:

by _____
Owner

WORK DIRECTIVE CHANGE

INSTRUCTIONS

A. GENERAL INFORMATION

This document was developed for use in situations involving changes in the Work which, if not processed expeditiously, might delay the Project. These changes are often initiated in the field and may affect the Contract Price or the Contract Time. This is not a Change Order, but only a directive to proceed with Work that may be included in a subsequent Change Order.

For supplemental instructions and minor changes not involving a change in the Contract Price or the Contract Time, a Field Order may be used.

B. COMPLETING THE WORK DIRECTIVE CHANGE FORM

Engineer initiates the form, including a description of the items involved and attachments.

Based on conversations between Engineer and Contractor, Engineer completes the following:

METHOD OF DETERMINING CHANGE, IF ANY, IN CONTRACT PRICE: Mark the method to be used in determining the final cost of Work involved and the net effect on the Contract Price. If the change involves an increase in the Contract Price and the estimated amount is approached before the additional or changed Work is completed, another Work Directive Change must be issued to change the time or Contractor may stop the changed Work when the estimated time is reached. If the Work Directive Change is not likely to change the Contract Time, the space for estimated increase (decrease) should be marked "Not Applicable".

METHOD OF DETERMINING CHANGE, IF ANY, IN CONTRACT TIME: Mark the method to be used in determining the change in Contract Time and the estimated increase or decrease in Contract Time. If the change involves an increase in the Contract Time and the estimated time is approached before the additional or changed Work is completed, another Work Directive Change must be issued to change the time or Contractor may stop the changed Work when the estimated time is reached. If the Work Directive Change is not likely to change the Contract Time, the space for estimated increase (decrease) should be marked "Not Applicable".

Once Engineer has completed and signed the form, all copies should be sent to Owner for authorization because Engineer alone does not have authority to authorize changes in Price or Time. Once authorized by Owner, a copy should be sent by Engineer to Contractor.

Once the Work covered by this directive is completed or final cost and time determined, Contractor should submit documentation for inclusion in a Change Order.

THIS IS A DIRECTIVE TO PROCEED WITH A CHANGE THAT MAY AFFECT THE CONTRACT PRICE OR THE CONTRACT TIME. A CHANGE ORDER, IF ANY, SHOULD BE CONSIDERED PROMPTLY.

CHANGE ORDER

No. _____

DATE OF ISSUANCE _____

EFFECTIVE DATE _____

OWNER _____

CONTRACTOR _____

Contract: _____

Project: _____

OWNER's Contract No. _____

ENGINEER's Contract No. _____

ENGINEER _____

You are directed to make the following changes in the Contract Documents:

Description: _____

Reason for Change Order: _____

Attachments: (List documents supporting change)

CHANGE IN CONTRACT PRICE:
Original Contract Price \$ _____
Net Increase (Decrease) from previous Change Orders No. ____ to ____: \$ _____
Contract Price prior to this Change Order: \$ _____
Net increase (decrease) of this Change Order: \$ _____
Contract Price with all approved Change Orders: \$ _____

CHANGE IN CONTRACT TIMES:
Original Contract Times: Substantial Completion: _____ Ready for final payment: _____ (days or dates)
Net change from previous Change Orders No. ____ to No. ____: Substantial Completion: _____ Ready for final payment: _____ (days)
Contract Times prior to this Change Order: Substantial Completion: _____ Ready for final payment: _____ (days or dates)
Net increase (decrease) this Change Order: Substantial Completion: _____ Ready for final payment: _____ (days)
Contract Times with all approved Change Orders: Substantial Completion: _____ Ready for final payment: _____ (days or dates)

RECOMMENDED:

APPROVED:

ACCEPTED:

By: _____
ENGINEER (Authorized Signature)

By: _____
OWNER (Authorized Signature)

By: _____
CONTRACTOR (Authorized Signature)

Date: _____

Date: _____

Date: _____

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

CHANGE ORDER

INSTRUCTIONS

A. GENERAL INFORMATION

This document was developed to provide a uniform format for handling contract changes that affect Contract Price or Contract Times. Changes that have been initiated by a Work Change Directive must be incorporated into a subsequent Change Order if they affect Price or Times.

Changes that affect Contract Price or Contract Times should be promptly covered by a Change Order. The practice of accumulating Change Orders to reduce the administrative burden may lead to unnecessary disputes.

If Milestones have been listed in the Agreement, any effect of a Change Order thereon should be addressed.

For supplemental instructions and minor changes not involving a change in the Contract Price or Contract Times, a Field Order should be used.

B. COMPLETING THE CHANGE ORDER FORM

Engineer normally initiates the form, including a description of the changes involved and attachments based upon documents and proposals submitted by Contractor, or requests from Owner, or both.

Once Engineer has completed and signed the form, all copies should be sent to Owner or Contractor for approval, depending on whether the Change Order is a true order to the Contractor or the formalization of a negotiated agreement for a previously performed change. After approval by one contracting party, all copies should be sent to the other party for approval. Engineer should make distribution of executed copies after approval by both parties.

If a change only applies to price or to times, cross out the part of the tabulation that does not apply.

CERTIFICATE OF SUBSTANTIAL COMPLETION

DATE OF ISSUANCE _____

OWNER _____

CONTRACTOR _____

Contract: _____

Project: _____

OWNER's Contract No. _____

ENGINEER's Project No. _____

This Certificate of Substantial Completion applies to all Work under the Contract Documents or to the following specified parts thereof:

To _____

OWNER

And To _____

CONTRACTOR

The Work to which this Certificate applies has been inspected by authorized representatives of OWNER, CONTRACTOR and ENGINEER, and that Work is hereby declared to be substantially complete in accordance with the Contract Documents on

DATE OF SUBSTANTIAL COMPLETION _____

A tentative list of items to be completed or corrected is attached hereto. This list may not be all-inclusive, and the failure to include an item in it does not alter the responsibility of CONTRACTOR to complete all the Work in accordance with the Contract Documents. The items in the tentative list shall be completed or corrected by CONTRACTOR within _____ days of the above date of Substantial Completion.

EJCDC No. 1910-8-D (1996 Edition)

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

The responsibilities between OWNER and CONTRACTOR for security, operation, safety, maintenance, heat, utilities, insurance and warranties and guarantees shall be as follows:

OWNER: _____

CONTRACTOR: _____

The following documents are attached to and made a part of this Certificate:

[For items to be attached see definition of Substantial Completion as supplemented and other specifically noted conditions precedent to achieving Substantial Completion as required by Contract Documents.]

This certificate does not constitute an acceptance of Work not in accordance with the Contract Documents nor is it a release of CONTRACTOR's obligation to complete the Work in accordance with the Contract Documents.

Executed by ENGINEER on _____
Date

ENGINEER

By: _____
(Authorized Signature)

CONTRACTOR accepts this Certificate of Substantial Completion on _____
Date

CONTRACTOR

By: _____
(Authorized Signature)

OWNER accepts this Certificate of Substantial Completion on _____
Date

OWNER

By: _____
(Authorized Signature)

LUND ENGINEERING

Randy M. Lund, PE (WI, MN, MI, IA)

CONTRACTOR'S AFFIDAVIT OF DEBITS AND CLAIMS

PROJECT: Apple Hill Road Sanitary Extension 2020 Project

Owner: Pikes Bay Sanitary District #1 (PBSD)

Contractor: _____

Address: _____

State: _____

County of: _____

Contract Date: _____

The undersigned hereby certifies that, except as listed below, he has paid in full or has otherwise satisfied all obligations for all materials and equipment furnished, for all work, labor, and services performed, and for all known indebtedness and claims against the Contractor for damages arising in any manner in connection with the performance of the Contract referred above for which the Owner or his property might in any way be held responsible.

EXCEPTIONS: (If none, write "NONE".)

CONTRACTOR:

Subscribed and sworn to before me

Address: _____

this ____ day of ____, 20__

By: _____

Notary Public:

My Commission Expires:

LUND ENGINEERING

Randy M. Lund, PE (WI, MN, MI, IA)

CONTRACTORS AFFIDAVIT OF RELEASE OF LIENS

PROJECT: Apple Hill Road Sanitary Extension 2020 Project

Owner: Pikes Bay Sanitary District #1 (PBSD)

Contractor: _____

Address: _____

State: _____

County of: _____

Contract Date: _____

The undersigned hereby certifies that to the best of his knowledge, information and belief, except as listed below, the Releases or Waivers of Lien attached hereto include the Contractor, all Subcontractors, all suppliers of materials and equipment, and all performers or Work, labor or services who have or may have liens against any property of the Owner arising in any manner out of the performance of the Contract referenced above.

EXCEPTIONS: (if none, write "NONE".)

CONTRACTOR:

Address: _____

By: _____

Subscribed and sworn to before me

this ____ day of ____, 20

Notary Public: _____

My Commission Expires: _____

Apple Hill Road Sanitary Extension 2020 Project

PROJECT SPECIFICATIONS

SECTION III TECHNICAL SPECIFICATIONS

These Technical Specifications, ONLY apply for Bid Items listed in the Bid Proposal Schedule. They also apply to work incidental to listed Bid Items.

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Pikes Bay Sanitary District #1 (PBSD) **Apple Hill Road Sanitary Extension 2020 Project**

TECHNICAL SPECIFICATIONS

When the below items are called for in the plans and bid proposal schedule, the following specifications will govern.

I. ROADWAY

1. Underdrain

- a. 4" wrapped pipe underdrains shall be supplied.
- b. The underdrain shall be placed 12" behind the curb and 32" below the flowline.
- c. The underdrain shall use washed stone bedding and backfill.
- d. A 5 oz. woven geotextile shall be used as a separation fabric (Amoco 2002 or equal). The width shall extend to 2' behind the curb.
- e. The underdrain shall have access to both ends for maintenance. Either use cleanouts (behind curb) or start and end underdrain in manholes (or inlets).
- f. Connection to existing or proposed manholes/inlets is incidental to the item "4" underdrain".

2. Culverts

- a. All culverts shall have riprap w/geotextile under-liner placed at the pipe end sections.
- b. All culverts shall have end sections.
- c. HDPE culverts shall be WI DOT spec dual-walled smooth interior pipe, with a corrugated exterior.

3. Cross-section

Urban

- a. 32' to 36' face/face of curb (see plans for variations)
- b. 12" sand sub-base
- c. 8" CABC
- d. 3½ " (WI DOT) Asphalt (or 8" concrete to match existing)
- e. 0.025 cross-slope
- f. geotextile under-liner

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Rural

- a. 22' wide asphalt
- b. 2' wide gravel shoulder
- c. 0.025 cross-slope
- d. 8" CABC
- e. 12" sand sub-base
- f. geotextile under-liner (if noted on plans)

4. Curb & Gutter

- a. 24" type D (WI DOT) (see spec. details) and/or 30" or 36" type J (WI DOT)
- b. Provide drive openings and Type 1 curb ramps at intersections.
- c. Inlet castings to be Neenah R-3246 (Type L cover) or equal.
- d. Construct per WI DOT Specs Section 601
- e. Contraction joints @10' (20 maximum and 6' minimum)
- f. Expansion joints @ 200' maximum on and at all curb radius returns

5. Asphalt

- a. The surface course shall be placed after one winter season has passed.
- b. A tack coat shall be placed prior to surface paving. The cost is incidental to the asphalt item.
- c. Temporary wedging shall be placed at all transitions from the binder course to adjacent (for the winter). This cost is incidental to the asphalt item.

6. Geotextiles

- a. Roadway stabilization fabric (geotextile under-liner) shall be 5 oz. woven, Type SAS (WI DOT Sec. 645) Amoco 2002 or EQUAL

7. Construction staking will include:

- a. Two project benchmarks will be set in the field by the Engineer.
- b. The C/L will be marked on the pavement outside the construction limits with PK nails.

8. Area Inlets

- a. 2'x3' inlet required (or 30" RCP pipe with concrete bottom).

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- b. Casting shall be Neenah R-4340-B or equal
- c. An adjusting ring (4") to transition from the square inlet to the round casting is required.

9. Storm sewer (HDPE)

- a. Dual-walled
- b. Smooth interior
- c. Corrugated exterior
- d. Must meet WI DOT load criteria
- e. All manhole frames shall be set to finished grade during initial construction and temporary asphalt wedges shall be placed for the winter. This is applicable when the surface course is delayed thru winter. This cost is incidental to the asphalt item.
- f. Joints shall be push-on, water-tight (gasketed)
- g. Castings to be R-1550, R1642 non-rocking concealed pick hole or R-3246 (Type L cover) if in curb and gutter.
- h. Shall meet AASHTO M 294 Type S, requirements.

10. Sidewalk

- a. Construct per WI DOT Specs. (Section 602)
- b. Contraction joints and expansion joints are required.
- c. To be 4" thick with 4" sand base.

11. Concrete (Sidewalk and Curb & Gutter and Pavement Repair)

- a. Concrete shall be air entrained (5-6%)
- b. Concrete shall use fibrous reinforcing (Nycon- Nylon 6 or equal) Fibers shall be 100% nylon filamentized fiber bundles.
- c. Fibers shall be $\frac{3}{4}$ " long added @ one (1) pound/cy of concrete.
- d. Concrete shall meet all other requirements of WI DOT Standard Specs
- e. Materials certifications and a one (1) year warranty will be required. Weight tickets shall note the use of fibrous reinforcing.
- f. Fibers shall be per ASTM C1116
- g. Concrete strength at 28 days shall be 3500 psi minimum.
- h. Concrete must achieve 3000 psi to open to traffic.

12. Concrete Pavement Repair

- a. All concrete repairs shall have tie bars (#4) placed @ 3' centers in longitudinal joints.
- b. All concrete repairs shall have 1" dowel bars placed @ 1' centers in transverse joints.
- c. All drilling, epoxy grouting, tie bars, and dowel bars are incidental to the item of "Concrete Pavement".

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13. Concrete Pavement Removal

- a. This item is for roadway and driveway concrete removal.
- b. Sidewalk removal is incidental to pipe costs or unclassified excavation.

14. Topsoil (4") URBAN

- a. Salvaged topsoil may be used for the bottom 2".
- b. Screened topsoil shall be used for the top 2".
- c. The bid items; Topsoil 2" and salvaged topsoil 2" shall include topsoil as in a. and b. above.
- d. The item "Landscaping" shall include preparation, seeding, fertilizing, and mulching.
- e. Hydromulch (w/seed) may be used with the Engineer's approval.

15. Topsoil, Salvaged

- a. RURAL shall meet DOT section 625

16. Force Main (FM)

- a. FM shall be rated for 200 psi.
- b. FM shall meet WI Standard Spec's for Sewer & Water

Pikes Bay Sanitary District #1 (PBSD)
Apple Hill Road Sanitary Extension 2020 Project

TECHNICAL SPECIFICATIONS

B. REFERENCE SPECIFICATIONS

The following documents are included and made part of the project requirements by this reference:

- 1) Standard Specifications for Sewer and Water Construction in Wisconsin Sixth Edition, with Addenda.
- 2) WI DOT Standard Specifications for Road and Bridge Construction 2020 edition.
- 3) WI DNR Construction Site Best Management Practices, and Technical Specifications.
- 4) WI Administrative Code
- 5) Wisconsin State Law
- 6) AASHTO Policy on Geometric Design of Highways & Streets, 2002 (and subsequent updates)
- 7) US DOT Manual on Uniform Traffic Control Devices, Millennium Edition

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Apple Hill Road Sanitary Extension 2020 Project

TECHNICAL SPECIFICATIONS

C. STANDARDS

ASTM D 2487	-	Classification of Soils for Engineering Purposes
ASTM D 2922	-	Nuclear Methods Density Testing
ASTM D 3017	-	Soil Testing Moisture Content
ASTM D 1557	-	Soil Testing Moisture-Density
ASTM D 698	-	Soil Testing Moisture-Density
ASTM D 2321	-	Underground Flexible Sewer Pipe
ASTM D 1785	-	PVC Pipe, Schedule 40, 80, 120
ASTM C 94	-	Ready-Mixed Concrete
ASTM D 3261/ D 2657	-	HDPE 3408 Force main Fittings / Joints, fused
ASTM F 714	-	HDPE 3408 Force main
ASTM D 2241 / AWWA C-900	-	PVC Force main
ASTM D 3034	-	PVC Sewer Pipe/Fittings
ASTM C 923	-	Manhole Connections
ASTM F 477	-	Gaskets
ASTM F 679	-	PVC Sewer Pipe/Fittings
ASTM F 789	-	PVC Sewer Pipe/Fittings
ASTM D 2241	-	PVC (SDR-PR)
ASTM D 2564	-	PVC Solvent weld Joints
ASTM D 3212	-	PVC Joints

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ASTM C 443, C 990, C 923, C 425 -	Sanitary Manholes, Joints
AWWA C-900 C-905 -	PVC Water Pipe
ANSI/AWWA C 153/A 21.53 - C 116 / A 21.18	Ductile-Iron and Gray-Iron Fittings, 3 in. Through 48 in., for Water and Other Liquids.
ANSI/AWWA C 111/A 21.11 - C 110	Rubber-Gasket Joints for Ductile-Iron and Gray-Iron Pressure Pipe and Fittings.
ANSI/AWWA C 151 / A 21.51 - C150 / A 21.50	Ductile-Iron Pipe, Centrifugally Cast, for Water or Other Liquids.
ASTM C1116 -	Fibrous Reinforcing for Concrete
ANSI B 16.1 / B 16.5 -	Mechanical Joints
AWWA C-800 / ASTM B-62 -	Corp. Stops & Curb Stops
ASTM A 48 Cl. 20 -	Cast Iron Service Boxes
AWWA C 500 / C 502 -	Gate Valves / Fore Hydrants
AWWA C 105 / ANSI A 21.5 -	Poly. Wrap
AWWA C 901 / ASTM D 2737 -	Water Tubing

ANSI American National Standards Institute
1430 Broadway
New York, NY 10018

ASTM American Society for Testing and Materials
1916 Race Street
Philadelphia, PA 19103

EJCDC Engineers' Joint Contract Documents Committee
American Consulting Engineers Council
1015 15th Street, N.W.
Washington, DC 20005

NEMA National Electrical Manufacturers' Association
2101 "L" Street, N.W.
Washington, DC 20037

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Apple Hill Road Sanitary Extension 2020 Project

TECHNICAL SPECIFICATIONS

D. DETAILS

1. General (also see plans)
2. WI DOT Standard Specifications
3. WI - Standard Spec's. for Sewer and Water 6th Edition

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Pikes Bay Sanitary District #1 (PBSD) Apple Hill Road Sanitary Extension 2020 Project

TECHNICAL SPECIFICATIONS

E. PERMITS

1. This Project is to be funded by **Pikes Bay Sanitary District #1 (PBSD)**
2. Coordination with Bayfield County, Town of Bayfield, & WI DNR, as required..

Specific permits follow this page, if issued by regulatory agencies.

Pikes Bay Sanitary District #1 (PBSD)
Apple Hill Road Sanitary Extension 2020 Project
TECHNICAL SPECIFICATIONS

F. MANHOLES

1. Manholes

- a. O-ring gaskets required for joints.
- b. E-Z stick mastic required for chimney joints.
- c. A minimum of one 2" polyethylene adjusting ring is required for sanitary manholes and one 2" concrete for storm manholes and inlets (maximum 12" of rings).
- d. Inverts shall be grouted.
- e. Integral pipe water stop boots are required at all pipe openings.
- f. Manholes shall be precast concrete, 4' diameter.
- g. Chimney, seals shall be included (see Spec. details)
- h. Must use manufacturer approved sealant between rings.

2. Manhole Castings

- a. Casting shall be equal to Neenah R 1550 (see detail)
- b. Concealed pick-holes
- c. Non-rocking
- d. Machined Fit

3. Price for bid item "manholes" shall include castings and covers.

4. Existing manholes:

- a. Modification of the existing manholes shall include excavation and coring of the walls.
- b. Backfill shall include material and placement as incidentals.
- c. The backfill shall be placed in 12" compacted lifts. Compaction methods shall result in a uniform 90% of modified proctor density throughout.

5. Inlets

- a. Inlets shall be 2' x 3' precast concrete.
- b. Casting shall be R-3246 with Type L covers.
- c. Adjusting rings to be grouted on inside and outside. (or sealed per manufacturers recommendations)
- d. Pipe openings shall be grouted.
- e. Fabric wraps shall be placed on outside of rings.

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Apple Hill Road Sanitary Extension 2020 Project

TECHNICAL SPECIFICATIONS

H. SANITARY SEWER

1. Gravity Sanitary sewer shall be SDR 35 PVC pipe, with push-on joints. HDPE sewer pipe to be accepted with Engineer's Approval prior to Bidding, only.
2. Force Main sewer to be HDPE (200 psi) fused joint pipe. Fittings to be factory manufactured.
3. Sanitary sewers shall have 6" in-line wyes. Wye locations to be marked with 4' – 2"x4" AND 4' - #4 rebar
4. All sanitary sewers with less than 6.0 feet of cover shall be insulated (12" above pipe) with 2" x 4' x 8' polystyrene boards.
5. The sanitary service shall be a 6" wye attached to the mainline sewer. The building service shall not enter directly into the manhole. Refer to Dept. SPS Chap. 382-385 WI Administrative Plumbing Code.
6. Precast concrete 4' diameter manholes shall be used for the gravity sanitary sewer. MH's to be 5' or 6' for FM Projects. Chimney/frame seals and pipe/manhole seals (A-lok, Kor-N-Seal, or equal) shall be used. Costs are incidental to the manhole bid item.
7. Roadway patches shall utilize in-kind repairs with partial depth saw cuts. Saw cuts shall be made after trench backfill and base repair are complete.
8. Polyethylene adjusting rings shall be used. (See Details Tech. Spec.) Butyl mastic shall be used for sealing rings. Concrete rings acceptable with Engineers approval.
9. The Contractor will be responsible for confined space entry safety and adherence to OSHA regulations.
10. Casting shall be Neenah R-1550 or equal.
11. All manhole frames shall be set to finished grade during initial construction. Temporary asphalt wedges shall be placed when the surface course placement is delayed thru the winter. This cost is incidental to the asphalt item.
12. Trenches shall be backfilled with native materials.
13. A 12" sand lift shall be placed immediately below the planned CABC, above all trenches.