U.S. DEPARTMENT OF HEALTH & HUMAN SERVICES
PUBLIC HEALTH SERVICE, INDIAN HEALTH SERVICE
OFFICE OF ENVIRONMENTAL HEALTH & ENGINEERING
DIVISION OF SANITATION FACILITIES CONSTRUCTION
PORTLAND AREA OFFICE
SPOKANE DISTRICT OFFICE, SPOKANE, WASHINGTON

BID DOCUMENTS

OCTOBER 2026

Community Sewer Service and Connection for SR 2427

Nez Perce Tribe
Nez Perce Reservation
Kamiah, ID

IHS Project No. PO-23-D13

Prepared by:

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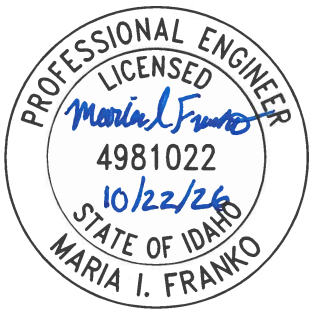


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NEZ PERCE TRIBE

COMMUNITY SEWER SERVICE LINE FOR SR 2427
KAMIAH, IDAHO
IHS PROJECT PO-23-D13

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BID SCHEDULE

Community Sewer Service and Connection
Nez Perce Tribe
PO-23-D13

Bids will be considered non-responsive if they do not conform to the bid schedule provided in the solicitation to bid.

SCHEDULE A - SERVICE CONNECTION TO COMMUNITY SEWER

SALES TAX SHALL BE INCORPORATED INTO EACH LINE ITEM AS APPROPRIATE. LINE ITEMS CONSISTING ONLY OF SALES TAX SHALL NOT BE APPROVED

ITEM	DESCRIPTION	EST QTY	UNIT	PROPOSED UNIT PRICE	ESTIMATED TOTAL PRICE
	SR 2427				
1.	Mobilization	1	LS		
2.	Sewer Service Connection Fee, 4" Service, Pineridge Water & Sewer District	1	LS		
3.	Sewer Tap & Saddle	1	LS		
4.	Sewer Service Line, 4", PVC SDR 35 Solid Sewer Pipe	110	LF		
5.	Two-Way Cleanout	1	EA		
6.	Roadway Repair	36	SF		

Subtotal Schedule A _____

TERO Fee (3.5% of Subtotal if Subtotal is $15,000 or more) _____

Schedule A - Bid Total (Subtotal plus TERO FEE) _____

_____ _____
Signature of Offeror Date

_____
Position and Company

NOTE TO OFFERORS:

THE CONTRACTOR SHALL BE PAID BY THE JOB FOR THE REQUIRED WORK SPECIFIED TO CONSTRUCT COMPLETE AND OPERATIONAL COMMUNITY WATER AND SEWER SERVICE LINES.



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SECTION 01100
SUMMARY OF WORK

PART 1 – GENERAL

1.1 SUMMARY

A. The work to be performed under this contract shall consist of furnishing the following to perform the work outlined in these specifications and as indicated by Project Drawings:
   1. Tools
   2. Equipment
   3. Materials
   4. Labor
   5. Supplies
   6. Manufactured articles
   7. All transportation to complete the work
   8. Temporary facilities
   9. Locate Services

B. Location of Work: 2189 Hill Street
   Kamiah, Idaho County, Idaho
   Nez Perce Reservation

C. Incidentals Items: All work, materials, and services not expressly listed as being provided by others or not expressly called for in the contract but necessary for the completion of the work in good faith, shall be furnished, installed, and performed by the contractor.

1.2 WORK REQUIRED

A. Furnish all labor, materials, equipment, and supervision necessary to construct the following facilities as described by these specifications and drawings. All work, materials, and services not expressly listed as being provided by others or that are called for in the contract or necessary to provide a complete and operational system shall be furnished, installed, and performed by the Contractor.
   1. Coordinate with:
      a. Pine Ridge Water and Sewer District to determine requirements for connecting to sanitary sewer main and pay sewer service connection fee.

b. Okle Welch with Idaho County Road Department at 208-926-4471 regarding work within Hill Street right-of-way. The contractor is responsible for obtaining required permits.
c. City of Kamiah to determine requirements for working within city limits and obtain required permits.

2. Connect to Pine Ridge Water and Sewer District sanitary sewer main on the east side of Hill Street and install new 4-inch SDR 35 PVC sewer pipe from the main to the residence. Install a two-way cleanout adjacent to the residence.
   a. All construction shall conform to the Idaho Standards for Public Works Construction (ISPWC), 2025 edition, unless otherwise specified by the Indian Health Service in the Statement of Work or Bid Schedule or by Pineridge Water and Sewer District requirements.
   b. All constructed facilities shall be located either within the existing Idaho County Hill Street ROW / easement or on the homeowner's property.
   c. Hill Street pavement section patching shall be 2-inches of cold mix asphalt over 6-inches of base course. Gradation, compaction, traffic control and all other road construction elements shall meet the most current Idaho Transportation Department standards.
   d. Closeout submittal: As-built drawing of facilities installed on and within 10 feet of homeowner's property must be submitted prior to final payment.

B. Work sites are identified in the attached site plan.

C. The materials and construction methods specified herein are minimum requirements. Where the applicable codes and ordinances require more stringent materials or execution methods, they shall apply.

1.3 SITE CONDITIONS

A. Utilities
   1. Buried utilities shown on the site plan indicate what the Contractor may encounter, they are NOT FOR LOCATION plans or PURPOSES. Locations, material, and sizes of any utilities shown are approximate and not meant as a complete representation. Contractor must obtain exact locations of utilities using state "Utility Locate" hotlines and 811. Contractor should contact all other utility owners not covered by the state "Utility Locate" hotlines.
   2. Protect existing utilities during construction.
   3. Immediately notify Tribal Point of Contact, Project Engineer, and the utility owner of any damaged utilities.
   4. Any and all damage that results from work under this contract shall be promptly repaired at the expense of the Contractor.

B. State of Idaho
   1. All applicable state laws and ordinances are required to be followed, including but not limited to:
      a. Idaho Administrative Code (IDAPA)
      b. Idaho State Plumbing Code
      c. Idaho Statutes
   2. The Contractor must, where applicable, have work performed by permitted and/or licensed businesses and employees.

C. Permits
   1. All required permits are the responsibility of the Contractor.

1.4 SAFETY

A. Follow OSHA safety guidelines at all times.

B. Examples of required safety practices include, but are not limited to:
   1. Personal protective equipment worn on the job site, such as head protection, eye protection, hearing protection, hand protection, protective clothing, high-visibility clothing, foot protection, and fall protection.
   2. Trench shoring and/or other practices required to ensure safety to workers in trenches.
   3. Barricades, covers, or other adequate methods of preventing passerby access to unattended excavations.

1.5 DISTURBED AREAS

A. All areas that are disturbed by the Contractor are to be returned to their original condition or better. This includes, but is not limited to:
   1. Sidewalks
   2. Roadways
   3. Driveways
   4. Fencing
   5. Landscaping
   6. Grass
   7. Vegetation

1.6 CLOSEOUT

A. Coordinate with Tribal Point of Contact and Project Engineer to establish date and time for Final Inspection. Final Inspection should include inspection of all installed facilities. All deficiencies will need to be completed before full payment is made.

B. All submittals and as-built drawings of systems specified must be received in a correct and complete manner before final payment can be made.

1.7 ADDITIONAL INFORMATION

A. For information regarding the technical aspects of the project, contact the Project Engineer:

Maria Franko, PE
Senior Environmental Engineer
Indian Health Service
528 E Spokane Falls Blvd, Ste 302
Spokane, WA 99202
227-276-8210
maria.franko@ihs.gov

B. For information regarding contracting information, contact the Tribal Coordinator for this project:

Quincy Ellenwood
SRBA Project Coordinator
PO Box 365
Lapwai, ID 83540
208-621-4771
quincye@nezperce.org

C. All project activities shall comply with all Tribal regulations related to the completion of the work including the acquisition of necessary permits and the payment of Tribal taxes.

D. Utility Contacts:

Pine Ridge Water and Sewer District
Misty Perry
316 Locust Road
Kamiah, ID 83536
208-935-2646
prwsdinfo@gmail.com

AVISTA Utilities
800-227-9187

END OF SECTION

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SECTION 01220
PRICE AND PAYMENT

PART 1 – GENERAL

1.1 SUMMARY

A. Work covered by this section includes method of measurement and basis of payment for all divisions included.

B. Payment for the various items of the Bid Schedules, as further specified herein, shall include all compensation to be received by the Contractor for furnishing all tools, equipment, materials, labor, supplies, manufactured articles, transportation, and temporary facilities required to complete the work, including incidentals.

C. Respective prices and payment shall constitute full compensation for all work completed including incidentals.

D. All items described in these specifications that do not have a pay item associated with them shall be considered incidental to the bid.

E. All items not expressly listed as being provided by others that are necessary for the completion of work shall be furnished and installed by the Contractor.

1.2 ESTIMATED QUANTITIES

A. All quantities stipulated in the bid schedule or other contract documents are approximate and are to be used:
   1. as a basis for estimating the probable cost of the work, and
   2. for the purpose of comparing the bids submitted.

B. The Contractor shall be paid for actual quantities installed based on the quantities measured in the field. The actual amounts of work completed and materials furnished may differ from estimated quantities. The Contractor shall make no claim for damages, anticipated profits, or otherwise, on account of differences between the estimated amounts and the actual amount of work performed and materials furnished.

C. At no time shall the Contractor exceed the agreed upon total cost without prior approval from the Contracting Officer.

1.3 SURVEY AND MEASUREMENTS

A. All quantity measurements shall be the responsibility of the Contractor and will be verified by the Project Engineer.

B. All measurements and subsequent payments will be based on completed and accepted work performed in strict accordance with the drawings, specifications, and other contract documents.

PART 2 – PRODUCTS

2.1 GENERAL

A. Payment shall be full compensation to complete the work items in good faith, including incidental work.

B. In addition to those things listed under each item, the unit price bid shall be full compensation for all of the following:
   1. General requirements in Division 01, but not limited to the following:
      a. Submittals
      b. As-built drawings
   2. Specific requirements in Division 02, including but not limited to the following (unless otherwise expressly defined as a line item in the bid schedule):
      a. Erosion control
      b. Clearing and grubbing
      c. Removal and replacement of obstructions
      d. Associated trenching, excavation and backfill, including the removal of any nuisance water, bedding, haunching, and compaction.
      e. Disposal of any excess material
      f. Traffic control
      g. Rough grading
      h. Finish work, where called for, including finish grading, topsoiling, and landscaping
      i. Site restoration

2.2 BID ITEMS

A. Schedule A: Community Sewer Service and Connection
   1. Mobilization:
      a. Measurement: By the lump sum

b. Basis for Payment: Includes mobilization and demobilization of all equipment, materials, and personnel; compensation for furnishing bonds and insurance, and payment of applicable taxes, duties, and permits.

2. Sewer Service Connection Fee, 4-Inch Service, Pineridge Water & Sewer District:
   a. Measurement: By the lump sum
   b. Basis for Payment: Includes payment of Pineridge Water & Sewer District sewer service connection fee and any necessary coordination.

3. Sewer Tap and Saddle:
   a. Measurement: By the lump sum
   b. Basis for Payment: Includes furnishing and installation of saddle, tapping existing sewer main, all required appurtenances, pipe connections, labor, and associated excavation, trenching, backfill, and compaction.

4. Sewer Service Line, 4-inch, PVC SDR 35 Solid Sewer Pipe:
   a. Measurement: By the linear foot installed.
   b. Basis for Payment: Includes furnishing and installation of solid sewer pipe, fittings, all required appurtenances, pipe connections, and associated excavation, trenching, bedding, and backfill.

5. Two-Way Cleanout:
   a. Measurement: By each installed.
   b. Basis for Payment: Includes furnishing and installation of two-way cleanout, fittings, all required appurtenances, pipe connections, and associated excavation, trenching, and backfill.

6. Roadway Repair:
   c. Measurement: By the square foot repaired.
   d. Basis for Payment: Includes compaction of excavated materials to a minimum of 95% maximum density; furnishing, placement and compaction of crushed surfacing top course and cold mix asphalt as required by ITD.

END OF SECTION

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SECTION 01310
PROJECT MANAGEMENT AND COORDINATION

PART 1 – GENERAL

1.1 SUMMARY

A. This section includes the pre-construction conference, construction scheduling, contract time, and coordination requirements. The Project Engineer may choose to waive these requirements. If waived, the Project Engineer may reinstitute these requirements at any time during the project as deemed necessary.

B. Costs associated with project management and coordination are incidental to the contract work and are included in the contract unit and lump sum costs.

1.2 PRE-CONSTRUCTION CONFERENCE AND PROGRESS MEETINGS

A. Prior to beginning construction but following contract award, the Contractor, Subcontractors, and other interested parties must participate in a Pre-Construction Conference. This meeting may be in person or may be conducted by teleconference.

B. Periodically throughout the contract performance period, the Contractor and Subcontractors shall participate in project progress meetings. These meetings shall be held as often as the parties determine is necessary, but will be at least once every week.

C. Representatives from the following shall attend the meeting:
   1. Prime Contractor
   2. Subcontractors
   3. Contracting Officer (CO)
   4. Contracting Officer's Representative (COR)
   5. Project Engineer and Construction Control Inspector
   6. Tribal Coordinator

D. The Project Engineer shall arrange a date that is mutually acceptable to all parties planning to attend.

E. The Contractor is responsible for notifying subcontractors of meeting time and date.

F. Meeting Minutes:
   1. Meeting Minutes will be recorded, typed up in a memorandum and distributed to all attendees by the Project Engineer.
   2. Any attendee may question or challenge the content of the meeting minutes in writing to the Project Engineer prior to the next project meeting. If the meeting minutes are unchallenged, they will be accepted as an accurate representation of the meeting discussions and decisions.

1.3 SUBMITTALS

A. Construction schedule

B. Construction Company name and license number

C. Name and contact information for project superintendent

1.4 CONSTRUCTION SCHEDULE

A. The Contractor shall provide the Project Engineer and Tribal Coordinator with a written preliminary construction schedule containing start and completion dates of the major items at the preconstruction meeting.

B. The Contractor shall notify the Project Engineer three full working days in advance of starting any construction phase.

C. The Contractor shall communicate major changes to the schedule to the Project Engineer in writing.

1.5 CONTRACT TIME

A. The Contractor shall not work on Saturdays, Sundays, or federal holidays unless written approval from the Contracting Officer is obtained in advance.

B. The Contractor shall request approval a minimum of 24 hours in advance of Saturdays and 96 hours in advance of Sundays or federal holidays.

C. The Contractor shall perform work between the hours of 7:00 am and 5:00 pm local time or as otherwise established with the Project Engineer and Tribal representative

1.6 WEEKLY ACTIVITY SCHEDULE

A. The Contractor shall provide the Project Engineer with a written weekly activity schedule (email is acceptable) indicating planned activities, locations, and approximate schedules.

B. The Contractor shall note the planned visits by manufacturer's representatives, testing firms, or other site visitors that may be of significance to the Project Engineer.

C. The Contractor shall provide the weekly activity schedule to the Project Engineer by noon on the last day of the workweek for activities during the following week.

1.7 COORDINATION WITH OTHER CONTRACTORS/UTILITIES

A. Coordinate work with other Contractors (i.e. roads, buildings, etc) in the area as necessary to complete the work specified.

B. Coordinate work with local utilities (i.e. water and sewer, electrical, cable, telephone, etc.). Note: Not all buried utilities may be shown on the project drawings. The Contractor is responsible for marking utilities prior to construction.

END OF SECTION

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SECTION 01330
SUBMITTAL PROCEDURES AND REQUIREMENTS

PART 1 – GENERAL

1.1 SUMMARY

A. This section includes information on submittal procedures and general submittal requirements.

B. Materials requiring submittal are listed in the appropriate specification section.

1.2 SUBMITTAL PROCEDURES

A. Submit submittals in digital form or by print form (two copies) to the Project Engineer.

B. Identify each cut sheet or shop drawing with the following information:
   1. Contract number
   2. Supplier
   3. Specification section, plan sheet, or detail drawing number to which the submittal pertains

C. Submit the following information, as applicable, in accordance with the submittal requirements of each section:
   1. Manufacturer's cut sheets indicating compliance with references and standards (e.g., applicable ASTM, AWWA standards)
   2. Laboratory results
   3. Dimensional drawings or shop drawings
   4. Other specific information required by the particular specification

D. Variations / Substitutions from contract documents or products specified:
   1. Bring all submitted variations / substitutions to the attention of the Project Engineer.
   2. Variations / substitutions not brought to the Project Engineer's attention in writing and that conflict with the contract documents do not relieve the Contractor from the requirements of the contract documents.

E. Revisions and Resubmittals
   1. Revise and resubmit submittals as required and identify all changes made since previous submittal.
   2. Project Engineer obligations for resubmittals:
      a. The Project Engineer will review the original submittal and one resubmittal for each item requiring submittal.
      b. Subsequent resubmittals will be at the Contractor's expense.
   3. Incomplete submittals or rejected submittals that result in the need for the Contractor to resubmit cannot be grounds for a contract time extension or adjustment to contract price unless the Project Engineer did not meet their obligations.

F. Submittal time requirements:
   1. The Contractor shall provide all submittals to the Project Engineer within 14 days after receipt of the Notice to Proceed.
   2. The Contractor shall allow 10 days from receipt by the Project Engineer for review and approval or rejection.
   3. For each material re-submittal required, the Contractor shall allow an additional 7 days from date of receipt by the Project Engineer for review and approval or rejection.
   4. Repeated resubmittals resulting from "Rejected" or "Incomplete" submittals shall not be grounds for a contract time extension.
   5. Lack of response by the Project Engineer does not constitute approval.

G. The Contractor shall distribute copies of approved submittals to concerned parties (i.e., suppliers, subcontractors, etc.).

H. Approval required before installation:
   1. Approval of submittals must be provided by the Project Engineer prior to installation of materials.
   2. Materials installed without written submittal approval will be at the Contractor's risk and may require removal at no expense to the Owner.

1.3 DEFINITIONS

A. Approved: Deemed to be acceptable for use in accomplishing the requirements of the plans and specifications, but does not extend to the means, methods, or procedures of construction (except where specific means, methods, or procedures are specifically required by the contract documents) and does not imply approval of the system or construction in which the submitted item is a part.

B. Conditionally Approved: Deemed to be acceptable for use in accomplishing the requirements of the plans and specifications if the conditions noted in the submittal approval letter are met. The approval does not extend to the means, methods, or procedures of construction (except where specific means, methods, or procedures are specifically required by the contract documents) and does not imply approval of the system or construction in which the submitted item is a part.

C. Not Approved: Not approved for the use for which it was submitted.

D. Incomplete: Information is insufficient to ascertain acceptability.

END OF SECTION

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SECTION 01420
REFERENCES

PART 1 - GENERAL

1.1 SUMMARY

A. This section includes a list of organizations, associations or appropriate agencies with jurisdiction that have references, standards, laws or regulations cited in these specifications.

B. Use latest revision of all references, standards, laws or regulations.

1.2 LIST OF ORGANIZATIONS, ASSOCIATIONS & AGENCIES

A. National Standards Organizations & Associations

American Association of State Highway and Transportation Officials (AASHTO)
444 North Capital Street NW, Suite 249
Washington DC, 20001
(202) 624-5800
www.aashto.org

American Concrete Institute (ACI)
ACI International
PO Box 9094
Farmington Hills, Michigan 48333-9094
(810) 848-3700
www.aci-int.org

American Society for Testing and Materials (ASTM)
100 bar Harbor Drive
West Conshohocken, Pa 19428-2959
(610) 832-9585
www.astm.org

American Water Works Association AWWA
6666 West Quincy Avenue
Denver, CO 80235
(303) 794-7711
www.awwa.org

National Electric Code (NEC)
National Fire and Protection Association
1 Batterymarch Park
Quincy, MA 02269-9959
1 888 632-2633
www.nec.com

National Electrical Manufacturer's Association NEMA
1300 North 17th Street
Rosslyn, VA 22209
(703) 841-3200
www.nema.org

Underwriters' Laboratories, Inc. UL
333 Pfingston Road
Northbrook, IL 60062
(847) 272-8800
www.ul.com

B. Federal Agencies

Environmental Protection Agency (EPA)
U.S. EPA Region 10
1200 6th Avenue
Seattle, WA 98101
(206) 553-1200
http://www.epa.gov/region10

Occupational Health and Safety Administration 1111 Third Avenue, Suite 715
Seattle, Washington 98101-3212
(206) 553-5930
(206) 553-6499 FAX
www.osha.gov

C. State Agencies

Idaho Transportation Department
Engineering Publications
PO Box 7129
Boise, ID 83707-1129
208-334-8000
http://www.itd.idaho.gov

Idaho Department of Environmental Quality
1410 N. Hilton St.
Boise, ID 83706
208-373-0502
http://www.deq.idaho.gov

END OF SECTION

SECTION 01430
QUALITY CONTROL

PART 1 - GENERAL

1.1 SUMMARY

A. This section includes prerequisites and procedures to assure the quality of construction.

B. Related work – all work under the contract.

1.2 SUBMITTAL

A. Warranties

1.3 CONTRACTORS QUALIFICATIONS

A. Work shall be performed by a registered contractor in the state where the project is proposed and for the type and magnitude of construction being performed.

B. Work shall be installed under the direction of personnel licensed in the state where the project is proposed and where licensing of the trade is regulated by the state including, but not limited to, plumbing, well drilling, septic system installation, HVAC, and electrical work.

1.4 CONTROL OF INSTALLATION

A. Review materials for acceptability when delivered to the site.

B. Store and handle materials to prevent damage, vandalism, and theft.

C. Review materials, services, and workmanship to ensure that work is performed in accordance with the specifications.

D. Comply fully with manufacturers' instructions.

E. Should manufacturers' instructions conflict with contract documents, request clarification from Project Engineer before proceeding with any project activities.

F. Correct defective work to the satisfaction of the Project Engineer.

1.5 SAMPLES

A. When requested by the Project Engineer, supply samples of materials proposed for use.

1.6 WARRANTY

A. Provide a minimum one (1) year warranty for all materials and labor, covering defects in the materials or deficiencies resulting from contractor installation.

B. Provide additional warranties as required by specific sections.

END OF SECTION

SECTION 01770
CLOSEOUT PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

A. This section includes information on closeout procedures and final cleaning.

B. Related work – all work under the contract.

1.2 CLOSEOUT PROCEDURES

A. Preliminary Inspection:
   1. Coordinate with the Project Engineer at least five days in advance to set a time for the preliminary inspection.
   2. A preliminary punch list will be provided.
   3. The preliminary punch list is not considered a complete or final list of deficiencies, and does not relieve the Contractor from completion of the contract in accordance with the contract documents.

B. Substantial Completion Process:
   1. Provide the Project Engineer certification that preliminary punch list is complete and that facilities are ready for beneficial use by the Owner.
   2. If the Project Engineer concurs, the Project Engineer will document a warranty date for substantially complete facilities.

C. Final Inspection:
   1. Submit written certification that work is complete in accordance with contract documents and ready for final inspection at least ten (10) calendar days prior to final inspection.
   2. Perform and coordinate the final inspection with the Project Engineer, representatives of the owner and other funding partners (i.e. funding agencies) involved in the project.
   3. Final Punch List: Remaining deficiencies will be listed, in a written letter, from the Project Engineer.
   4. Provide warranties and record documents (e.g. as-built drawings) to Project Engineer within ten (10) days of final inspection.

D. Final Completion: Final completion will be established once the final punch list deficiencies are remedied, record drawings have been submitted, and applicable General and Contracting Requirements are met.

1.3 FINAL CLEANING

A. Complete final clean-up prior to final inspection.

B. Remove waste and surplus materials, rubbish, and construction facilities from the site.

END OF SECTION

SECTION 01780
CLOSEOUT SUBMITTALS

PART 1 - GENERAL

1.1 SUMMARY

A. This section describes the requirements for closeout submittals including, record drawings, warranty information, and general operation and maintenance information.

B. Related Sections
   Section 01430 - Quality Control

1.2 SUBMITTALS

A. Record Drawings

1.3 DELIVERY

A. Provide all closeout submittals meeting these requirements and any specific requirements of each section.

B. All closeout submittals must be received in a correct and complete manner before final payment shall be made.

1.3 DEFINITIONS

A. Record Drawing: A drawing showing the actual installation of facilities, showing changes from the plans, and showing detail enough that future persons can readily locate all objects.

B. Ties: Measurements from permanent easily located objects to an installed object.

PART 2 – EXECUTION

2.1 RECORD DRAWINGS

A. Provide record data in one of the following manners:
   1. On a set of project drawings, neatly draw tie measurements and changes.
   2. On separate 8½ X 11 sheets, neatly draw site sketches, structure sketches, etc., indicating the necessary information.

B. Provide three (3) swing tie measurements from permanent structures to all buried utility objects installed under the contract that may need to be located in the future, including, but not limited to:
   1. Gate valves
   2. Corporation stops
   3. Curb stops
   4. Water main fittings
   5. Couplings to existing water systems
   6. Cleanouts
   7. Sewer wyes and tees
   8. Utility crossings
   9. Septic tank manholes and access covers
   10. Corners of drainfields

C. Provide offset measurements for buried utilities (e.g. water main) installed parallel to roads.

D. Provide revised elevation data for all items that have elevations shown on the plan drawings, including, but not limited to, the following:
   1. Manhole inverts (inlet and outlet)
   2. Manhole rims
   3. Lift station invert
   4. Lift station top
   5. Lift station pipe penetrations
   6. Float elevations
   7. Septic tank elevations
   8. Elevations of pipe entering and leaving structures

3.2 WARRANTIES

A. Submit all warranty information regarding the materials installed.

B. Minimum warranty information is listed in Section 01430 Quality Control. Specific warranties may be required for each Section of specifications.

3.3 OPERATION AND MAINTENANCE INFORMATION

A. Submit all operation and maintenance information as included in the packaging from the manufacturer regarding the materials installed.

END OF SECTION

SECTION 02222
UNDERGROUND UTILITY CONFLICTS

PART 1 - GENERAL

1.1 SUMMARY

A. This section includes materials and procedures for protecting and repairing existing underground utilities.

B. Related Sections
   1. Section 02340 Clearing and Grubbing
   2. Section 02340 Excavation, Trenching, and Backfill
   3. Section 02350 Grading

1.2 REFERENCES – Not Used

1.3 SUBMITTALS – Not Used

1.4 ACCEPTANCE – Not Used

PART 2 - PRODUCTS

2.1 REPLACEMENT IN KIND

A. Except as indicated or as specifically authorized by the Project Engineer, reconstruct utilities with new material of the same size, type, and quality as that removed.

B. The Contractor shall supply all materials, including, but not limited to, steel beams and bracing, support straps, sheeting and shoring, timbers, and all other items necessary to protect existing underground utilities.

PART 3 - EXECUTION

3.1 GENERAL

A. Replace in kind street improvements, such as curbs and gutters, fences, signs, paved surfaces, etcetera, that are cut, removed, damaged, or otherwise disturbed by the construction.

B. Where utilities are parallel to or cross the pipeline trench but do not conflict with the permanent work to be constructed, follow the procedures given below and as indicated on the Drawings. Notify the utility owner 48 hours in advance of the construction crossing and coordinate the construction schedule with the utility owner's requirements. For utility crossing not shown on the Drawings, coordinate with the utility owner and the Project Engineer.

C. Determine the true location and depth of utilities and service connections which may be affected by or affect the work. Determine the type, material, and condition of these utilities. In order to provide sufficient lead time to resolve unforeseen conflicts, order materials and take appropriate measures to ensure that there is no delay in the work. Expose utilities in advance of the pipeline construction by potholing a minimum of 250 feet ahead of pipe laying.

3.2 PROCEDURES

A. Protect in Place: Protect utilities in place, unless abandoned, and maintain the utility in service, unless otherwise specified.

B. Cut and Plug Ends: Cut abandoned utility lines and plug the ends with concrete plug. Pour a concrete lug completely around the plugged end of the abandoned utility line such that the line is encapsulated with a minimum of 6 inches of concrete on all sides. Dispose of the cut pipe as unsuitable material.

C. Remove and Reconstruct: Where necessary or as required by the Project Engineer, remove the utility and, after passage, reconstruct it with new materials. Provide temporary service for the disconnected utility.

3.3 COMPACTION

A. Utilities Protected in Place: Backfill and compact under and around the utility so that no voids are left. Where utilities are concrete encased, use sand slurry for backfill around utility.

B. Sand Slurry: Sand slurry consisting of one sack (94 pounds) of Portland cement per cubic yard of sand and sufficient moisture for workability may be required for backfill to aid in reducing compaction difficulties. Submit specific methods and procedures for review by the Project Engineer prior to construction.

3.4 ADJACENT PARALLEL UTILITIES

A. Protect existing parallel utilities from any disturbances and repair the lines and associated appurtenances if they are damaged in any way. All costs incurred for protection of utilities or costs incurred due to the presence of the lines, whether or not they lie within the new construction, shall be borne in full by the Contractor.

END OF SECTION

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SECTION 02230
CLEARING AND GRUBBING

PART 1 – GENERAL

1.1 SUMMARY

A. This section covers clearing and grubbing within the proposed areas of construction.

B. Related Sections
   1. Section 02340 Excavation, Trenching, and Backfill
   2. Section 02350 Grading

1.2 REFERENCES – Not Used

1.3 SUBMITTALS – Not Used

1.4 ACCEPTANCE – Not Used

PART 2 – PRODUCTS – NOT USED

PART 3 – EXECUTION

3.1 CLEARING AND GRUBBING

A. Obtain necessary permits from Tribe or other governing agencies prior to cutting any trees or brush.

B. Remove and dispose of all trees, stumps, brush, debris, and all other obstructions as needed to complete construction as specified.

C. If possible, within right-of-way and property lines, extend clearing and grubbing a minimum of 10 feet beyond all proposed structures unless otherwise directed by the Engineer.

D. The contractor shall haul the grubbed material away from the site. The contractor shall not burn, bury, and/or leave materials in construction areas unless approved by the Project Engineer and the Tribe.

E. Grub deep enough to remove all stumps, roots, buried logs, and other vegetative material.

F. Old growth stumps may be encountered within clearing and grubbing area. No additional payment will be made for clearing, grubbing, and removal of old growth stumps.

3.2 DISPOSAL METHODS

A. Disposal Method #1: The Contractor may elect to haul woody vegetative material to a waste site obtained by the Contractor or at a site explicitly identified by the Contract Documents.

B. Disposal Method #2: Chipping
   1. Chip into pieces no larger than 6-square inches and ½" thickness.
   2. Spread chipped wood evenly across the site.

END OF SECTION

SECTION 02340
EXCAVATION, TRENCHING, AND BACKFILL

PART 1 - GENERAL

1.1 SUMMARY

A. This section includes excavation, trenching, and backfill necessary for the construction of the facilities as indicated on the plans including, but not limited to: water mains and service lines, sewer mains and service lines, concrete manholes, septic tanks, and other structures.

B. Related Sections
   1. Section 02230 Clearing and Grubbing
   2. Section 02350 Grading

1.2 REFERENCES

A. Manual on Uniform Traffic Control Devices (MUTCD) – FHWA Current Addition.

B. ASTM D698 – Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort

C. ASTM D2321 – Standard Practice for Underground installation of Flexible Thermoplastic Pipe for Sewer and Other Gravity-Flow Applications.

D. ASTM D2487 – Standard Practice for Classification of Soils for Engineering Purposes (Unified Soil Classification System).

E. Occupational Safety and Health Administration - OSHA 1910 and 1926

F. Roadway Design Manual - Idaho Transportation Department Roadway Design Manual

G. All applicable Tribal, City, County, State, and Federal Specifications must be met in addition to the requirements of this Standard. In the case of conflict, the more rigid Specification or Standard shall apply.

1.3 SUBMITTALS

A. When requested by the Project Engineer, submit the result of standard proctors, including proctor curve, for each soil type encountered and used on the job.

B. Submit all compaction test results in writing within five (5) days of being performed.

C. Polystyrene Insulation.

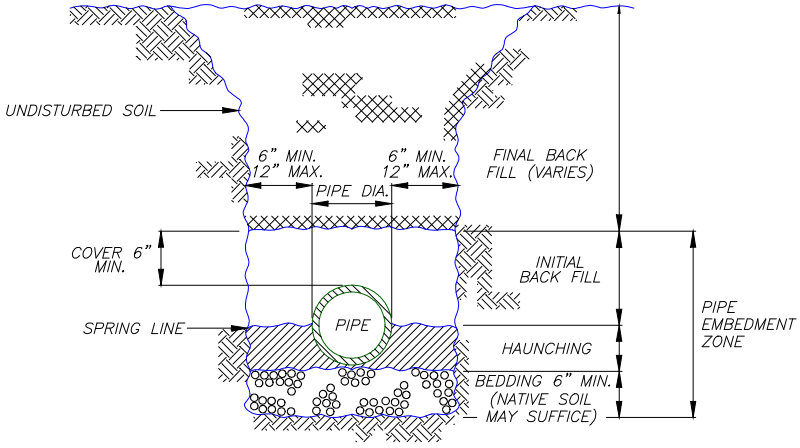
1.4 ACCEPTANCE

A. Compaction testing qualifications: Tests must be performed by a firm or professional regularly engaged in soil testing for engineering purposes. The individual on site shall be certified to operate nuclear density equipment.

B. Locations: Provide compaction test results to Project Engineer.

1.5 DEFINITIONS

A. Bedding, Haunching, and Initial Backfill zones as defined herein and on the standard thermoplastic pipe trench detailed drawing below.



THERMOPLASTIC PIPE TRENCH DETAIL

B. Soil Materials as summarized in the table below and defined in ASTM D2321 and ASTM D2487

Description and Comparison of Soil Material Classifications

ASTM D2321		*ASTM D2487*	
Class	*Type*	*USCS Group Symbol*	*Description*
IA	Manufactured aggregates: ¼ to 1 ½ inch open graded, clean.	** None*	Closest to "Poorly graded gravel (GP)"
IB	Manufactured aggregates: ¼ to 1 ½ inch dense graded, clean.	** None*	Closest to "Poorly graded gravel with sand (GP)"
II	Coarse sands and gravels with maximum particle size of 1 ½ inch, clean.	GW	Well-graded gravels and gravel-sand mixtures; little or no fines.
		GP	Poorly graded gravels and gravel sand mixtures; little or no fines.
		SW	Well-graded sands and gravelly sands; little or no fines.
		SP	Poorly graded sands and gravelly sands; little or no fines
	Coarse sands and gravels with maximum particle size of 1 ½ inch, borderline clean.	GW-GC SP-SM Etc.	Sands and gravels which are borderline between clean and with fines
III	Fine sand and clayey gravels.	GM	Silty gravels, gravel-sand-silt mixtures.
		GC	Clayey gravels, gravel-sand-clay mixtures
		SM	Silty sands, sand-silt mixtures
		SC	Clayey sands, sand-clay mixtures
IV	Fine grained soils (inorganic)	ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands, silts with slight plasticity.
		CL	Inorganic clays of low to medium plasticity, gravely clays, sandy clays, silty clays, lean clays.
		MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts.
		CH	Inorganic clays of high plasticity, fat clays.
V	Organic soils	OL	Organic silts and organic silty clays of low plasticity.
		OH	Organic clays of medium to high plasticity, organic silts.
		PT	Peat and other high organic soils.

* USCS system is limited to naturally occurring soils. Manufactured aggregates not covered.

PART 2 – PRODUCTS

2.1 BEDDING, HAUNCHING, AND INITIAL BACKFILL MATERIAL

A. Class I, Class II or Class III, utilized in accordance with restrictions described in Part 3 – Execution

2.2 FINAL BACKFILL MATERIAL

A. General:
   1. Free from soil chunks larger than 4-inches in dimension
   2. Free from stones or rocks larger than 4-inches in dimension
   3. Free from organic materials
   4. Free from frost chunks

B. Import final backfill for wet conditions: Use Class 5 soil that meets the general requirements listed above (Article 2.2, Paragraph A of this specification).

PART 3 - EXECUTION

3.1 GENERAL

A. Obtain all permits from appropriate agencies.

B. Trenching and excavation work shall conform to recommended safety standards such as OSHA 1910 and 1926.

C. Provide adequate signs, barricades, fences, and amber lights, and take all necessary precautions to provide for the safety of the public in all construction areas and to protect the work.
   1. Placement of construction signs and barricades shall conform to the “Manual on Uniform Traffic Control Devices.”
   2. Protect barricades and obstructions at night by amber signal lights that burn from sunset to sunrise. Barriers shall also be of substantial construction, painted white or with reflective paint to increase their visibility at night.
   3. Perform work without obstruction to traffic or inconvenience to the general public and the residents in the vicinity of the work.

3.2 EXCAVATION

A. Remove trees and stumps from excavation and site.

B. Remove and stockpile existing topsoil.

C. Install facilities as staked unless otherwise approved by Project Engineer.

D. Maintain surface drainage away from trenching or excavation.

E. Remove unsuitable foundation materials from excavation as shown on the plans or as authorized by the Project Engineer.

F. Maintain a minimum 1-foot clearance between outer surface of structure being installed and wall of excavation.

3.3 TRENCHING

A. Bottom width: No less than 12 inches or more than 24 inches wider than the outside diameter of the pipe.

B. Depth: Provide minimum cover as specified, or depths shown on plans.

C. Length of open trench:
   1. Unless authorized by the Project Engineer in writing, the length of trench excavation in advance of pipe being laid shall not exceed 200-feet during active construction
   2. All trenches must be backfilled during non-work hours, or alternately, up to 20-feet of trench can be left open during non-work hours if the trench is completely barricaded and fenced and approved by the Project Engineer.
   3. If open trenches in excess of this specification result in the wetting of moisture-sensitive stockpiled materials, such that the moisture content makes it impossible to meet compaction requirements, the Contractor shall provide imported material that complies with these specifications and haul away the wet materials at no expense to the project.

3.4 BEDDING

A. If existing soil cannot provide uniform, stable bearing support, over-excavate 6 inches below bottom of pipe or structure and provide bedding material.

B. Utilize Class I, II or III materials as appropriate for bedding as listed in Table below.

Use of Soils and Aggregate for Bedding

	Class IA	*Class IB*	*Class II*	*Class III*
General	Excellent pipe support. Excellent drainage.	Excellent pipe support. Good drainage. Minimizes migration of adjacent material.	Good pipe support. Fair drainage.	Reasonable pipe support. Poor drainage
Compaction	Not required	Not required	Required 90% of Standard Proctor.	Required 90% of Standard Proctor.
Wet Conditions (below current or future water table). Rock Cuts	Acceptable. Must use same material for Haunching.	Acceptable. Must use same material for Haunching.	Acceptable. Clean groups only suitable for drainage blanket.	Not- Acceptable
Dry Conditions	Acceptable	Acceptable	Acceptable	Acceptable

3.5 HAUNCHING AND INITIAL BACKFILL

A. General
1. Provide complete and uniform bearing and support for the pipe, including allowance for bell holes, or structure.
2. Work material under and around the pipe to ensure full pipe support.
3. Prevent movement of the pipe during placement of material.
4. Avoid contact between the pipe and mechanical compaction equipment.

B. Utilize Class I, II, or III materials as appropriate for haunching and initial backfill as listed in Table below. No frozen materials or frozen clods.

Use of Soils and Aggregate for Haunching and Initial Backfill

	Class IA		*Class II*	*Class III*
General	Excellent pipe support. Excellent drainage. Install to a minimum of 6" above the pipe crown.	Excellent pipe support. Good drainage. Minimizes migration of adjacent material. Install to a minimum of 6" above the pipe crown.	Good pipe support. Fair drainage. Install and compact to a minimum of 6" above the pipe crown.	Reasonable pipe support. Poor drainage. Install and compact to a minimum of 6" above the pipe crown.
Compaction	Not required	Not required	Required 85% of Standard Proctor. 6 inch maximum lifts.	Required 90% of Standard Proctor. 6 inch maximum lifts.
Wet Conditions (below current or future water table). Rock Cuts	Acceptable. Must use same material for Bedding. Extend Haunching to the top crown of the pipe.	Acceptable. Must use same material for Bedding. Extend Haunching to the top crown of the pipe.	Acceptable. Clean groups only suitable for drainage.	Not- Acceptable
Dry Conditions	Acceptable	Acceptable	Acceptable	Acceptable

3.6 FINAL BACKFILL

A. Backfill remainder of excavation with native material, free from large clods, large stones, organic material or frost chunks.

B. Compact in 12-inch lifts to a density not less than the density of the surrounding undisturbed soil.
   1. Compact with a mechanical tamper to a density not less than 90% of the maximum dry density, determined by ASTM D698.
   2. Provide 4 feet minimum cover over the top of the pipe before utilization of hydro-hammer compaction equipment.
   3. Provide 3 feet minimum of backfill over the pipe before wheel loading the trench.
   4.

C. Backfill and compact around manholes, valve boxes, and other appurtenances in 12-inch lifts. Compact with a mechanical tamper to a density not less than 90% of the maximum dry density, determined by ASTM D698.

D. Backfill around septic tanks in 18-inch lifts.

E. Compact in a manner that will not produce undue strain on the tank.

F. Compaction may be accomplished with the use of water, provided the material is thoroughly wetted from the bottom up, and the tank is filled with water to prevent floating.

G. Repair any trenches improperly backfilled or where settlement occurs, then refill and compact.

H. Restore surface to the required grade and compaction. Conform to Section 02350 Grading for rough grading, finish grading, and site surface drainage.

I. Remove all surplus backfill materials to a location approved by the Engineer.

3.7 REMOVAL OF NUISANCE WATER

A. Remove nuisance water entering the trenches. Nuisance water that can be removed through the use of sump or trash pumps is not considered dewatering.

B. Keep trenches free from water until the facilities are in place, sealed against the entrance of water, and backfill has been placed and compacted above the water level.

3.8 LOCATE EXISTING UTILITIES

A. Field locate all existing underground utilities.
   1. Utilize state “Request a Locate” or 811 hotlines.
   2. Contact all other utility owners not covered by the state “dig safe” hotlines.

3.9 UTILITY CONFLICTS

A. Protect existing utilities from damage during excavation and backfilling operations.

B. Provide temporary support for existing water, gas, telephone, power, or other utility services that cross the trench until backfilling of trench is complete
   1. Compact backfill to 95% of Standard Proctor Density under disturbed utilities.
   2. Repair or replace any damaged existing utilities, at no additional cost to the project.

C. Water and sewer main crossing and parallel installation
   1. Maintain a 10-foot horizontal separation (O.D. to O.D.) for parallel mains.
   2. Upon approval by the Engineer, water and sewer mains may be installed closer than 10 feet, provided all of the following conditions;
      a. Vertical separation is 18 inches (O.D. to O.D.)
      b. Water main is above the sewer
      c. Separate trenches are maintained.
   3. Maintain a minimum 18-inch vertical separation (O.D. to O.D.) for crossing mains. Lay pipe with joints equidistant from the point of crossing.
   4. If it is impossible to meet any of the above separation distances and deviations, one of the following methods shall be adhered to.
      a. Sewer main shall be constructed to water main pressure pipe standards, and successfully pass a 150-psi pressure test prior to backfilling.
      b. Either the water main or the sewer main may be encased in a watertight carrier pipe that extends 10 feet on both sides of the crossing. The carrier pipe shall be of materials approved by the regulatory agency for use in water main construction.

D. Water and sewer service crossing and parallel installation
   1. Maintain a 30-inch horizontal separation from water and sewer services.
   2. Maintain a 12-inch vertical separation for crossing water and sewer services.
   3. Water service line splices or joints will not be permitted within 10 feet of a sewer line crossing.

3.10 MOVING FENCES AND MINOR STRUCTURES

A. Remove and reset culverts, drainage pipes or other minor structures that fall within the alignment of the new construction, to their original location and grade.

B. Visit the project site and determine actual conditions with regard to the existence of old car bodies, abandoned houses, fences, driveways, trees, stumps, brush, sidewalks, approaches, and other miscellaneous obstacles to construction. Unless specifically referenced in a bid item, no separate payment will be made for the removal or replacement of these items.

3.11 RECORDS

A. Conform to as-built requirements in Section 01780 – Closeout Submittals.

END OF SECTION

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SECTION 02350
GRADING

PART 1 – GENERAL

1.1 SUMMARY

A. This section includes rough and finished site grading of all areas disturbed during construction.

B. Related Sections - Section 02340 Excavation, Trenching, and Backfill

1.2 REFERENCES – Not Used

1.3 ACCEPTANCE – Visual by the Project Engineer.

PART 2 – PRODUCTS – Not Used

PART 3 – EXECUTION

3.1 ROUGH GRADING

A. Grade the area in the vicinity of the excavation to prevent surface water from flowing into the excavation.

B. Maintain existing drainage.

3.2 FINISH GRADING

A. Grade site to true grades as specified on the plans after all structures and piping have been installed.

B. Grade sites for effective drainage away from structures.

C. Dress and trim all slopes.

D. Round off the tops of slopes and toes of slopes.

E. Place topsoil on all disturbed areas and reseed or sod as soon as possible in accordance with Section 02910 – Seeding.

END OF SECTION

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SECTION 02536
SANITARY SEWER SERVICE PIPING

PART 1 - GENERAL

1.1 SUMMARY

A. This section includes sewer service lines, connection to sewer mains (wyes), service cleanouts, and abandonment of existing septic tanks.

B. Related Sections
   1. Section 01330 – Submittal Procedures and Requirements
   2. Section 01430 – Quality Control
   3. Section 01770 – Closeout Procedures
   4. Section 01780 – Closeout Submittals
   5. Section 02230 - Clearing and Grubbing
   6. Section 02340 – Excavation, Trenching, and Backfill
   7. Section 02350 – Grading

1.2 REFERENCES

A. ASTM D2665 – Standard Specification for Poly(Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings

B. ASTM D3034 – Standard Specification for Type PSM Poly(Vinyl Chloride) (PVC) Sewer Pipe and Fittings

C. ASTM D3212 – Standard Specification for Joints for Drain and Sewer Plastic Pipes Using Flexible Elastomeric Seals

D. ASTM F477 – Standard Specification for Elastomeric Seals (Gaskets) for Joining Plastic Pipe

E. ASTM F1336 – Standard Specification for Poly(Vinyl Chloride) (PVC) Gasketed Sewer Fittings

1.3 SUBMITTALS

A. Sewer Service Line Pipe and Fittings

B. Sewer Wyes and Saddles

1.4 ACCEPTANCE

A. The work will not be accepted until satisfactory pipe backfilling and cleanup is complete.

B. If the work does not meet the specified requirements of this section and related sections, remove, and replace at no additional cost.

PART 2 - PRODUCTS

2.1 POLYVINYL CHLORIDE (PVC) SERVICE PIPE AND FITTINGS

A. Conform to ASTM D3034

B. Pipe Class: SDR 35

C. Bell ended joints conforming to ASTM D3212

D. Elastomeric gaskets conforming to ASTM F477

E. 4-inch nominal diameter unless otherwise indicated.

F. Each length of pipe shall be clearly marked with the following:
   1. Manufacturer
   2. Nominal Pipe Size
   3. The PVC Cell Classification
   4. Type PSM PVC Sewer Pipe
   5. ASTM Designation
   6. Pipe Class

2.2 SEWER WYES

A. Connection to New Sewers: In-line gasketed fittings conforming to ASTM F1336.

B. Connection to Existing Sewers:
   1. PVC Sewer Mains:
      a. PVC sewer saddle conforming to ASTM D3034 or ASTM 2665.
      b. Solvent weld skirt with watertight gasket branch.
      c. Two stainless steel bands and connectors for securing to the main.

d. GPK Products, Fargo, ND, or approved equal.

2. Asbestos-Cement, Cast Iron, Concrete, or Vitrified Clay Sewers:
   a. PVC conforming to ASTM D3034, sewer saddle with watertight gasket, stainless steel bands and connector for securing to the main.
   b. Equal to Sealtite wye sewer saddle manufactured by General Engineering Company.

2.3 CLEANOUTS

A. Cleanout:
   1. SDR 35 PVC riser pipe conforming to ASTM D1785.
   2. SDR 35 PVC pipe and fittings conforming to ASTM D3034.
   3. Inspection port plug shall be Sch 40 PVC and threaded if installed above ground. Plug shall be cast iron and threaded if installed below ground.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify that dimensions and elevations are as indicated on the Drawings.

B. Verify that all products are in new condition.

C. Inspect pipe and fittings for defects.

D. Remove materials from the site that are defective, damaged, used, unsound, or that otherwise do not meet the specifications

3.2 UTILITY CONFLICTS

A. Refer to Section 02222 – Underground Utility Conflicts

3.3 SEWER SERVICE LINE INSTALLATION

A. Sewer Wyes and Saddles:
   1. Connection to New PVC:
      a. Furnish and install wyes and tees at the locations indicated on the plans or by the Project Engineer.
      3. Extend Service to outside of utility easement or right of way.
      4. Install a solvent weld cap or a plug and leave in place until service line construction begins.

5. Properly reference, record, and stake wye locations to permit ready relocation, and provide information to the Project Engineer.
6. Mark service cap location with 2x4 painted green extending above ground. Remove for service connection to house.
7. Connection to Existing PVC:

a. Install saddle wyes at the locations indicated on the plans or by the Project Engineer.
b. Repair damage caused during the tapping process at no additional cost.

8. Rotate the branch or wye of the saddle no more than 45 degrees from horizontal.

B. Risers:
1. Extend riser from sanitary wye to an elevation that will allow for a service line to be laid at specified grades.
2. Install riser at an angle equal to or less than 45 degrees measured from horizontal.
3. Install riser pipe in the sewer trench.
4. Install riser pipe approximately vertically.
5. Encase the bottom of riser, wye and 1/8 bend in crushed rock or sand.
6. Extend bedding the full width of the trench as excavated and not less than 18 inches in length from either side of the center of the riser.
7. Place bedding material to a point 12 inches above centerline of the sewer main at the location of the wye.
8. Install 3/8” diameter rebar staples as shown in detail drawing.
9. No separate payment will be made for risers

C. Service Lines:
1. Furnish and install sewer service lines at the locations on the plans or as approved by the Project Engineer.
   a. Connect to the existing home sewer stub out if present underground outside the home.
   b. Cap sewer service and stake if no connection is made.
2. Follow general pipe installations requirements of Section 02340 – Excavation, Trenching, and Backfill.
3. Minimum slope for 4-inch sewer service lines is 1/4-inch per foot (2%).
4. Maximum slope for sewer service lines is ½-inch per foot (4 %), unless otherwise specified.
5. Ninety-degree bends are not allowed between the house and the sewer main.
6. Connection of Sewer Service Lines to Manholes:
   a. Connect to the existing home sewer stub out if present underground outside the home.

b. Conform to Section 03310 – Concrete Manholes concerning channel shape and radius.

D. Sewer Service Line Cleanouts:
1. Two-Way Cleanouts: Install at the locations indicated on the drawings or as approved by the Project Engineer.
2. One-Way Cleanouts:
a. Install one-way cleanouts at a spacing not to exceed 100 feet.
b. Install one-way cleanouts so that the service can be rodded or snaked in the direction of flow.
3. Install a 4-inch sewer wye in the sewer service line and connect risers of the same material from the wye to the ground surface. Attach an SDR 35 PVC adapter and threaded plug to the end of the riser.
4. The Project Engineer may specify that cleanouts be buried 3 to 6 inches below grade and be fit with a threaded cast iron plug.

3.4 EXISTING SEPTIC TANK ABANDONMENT

A. Abandon existing septic tanks and/or wet wells where approved by the Project Engineer.

B. Pump tanks prior to abandonment. Dispose the contents in accordance with state, federal, and Tribal / local requirements.

C. Remove and dispose of any interior pipes, plumbing, or pumps.

D. Remove and dispose of concrete tank cover, risers, and inspection pipes.

E. Backfill interior of the tank with suitable, incompressible soil material, in accordance with local health and utility department requirements.

G. Conform to Section 02340 - Grading.

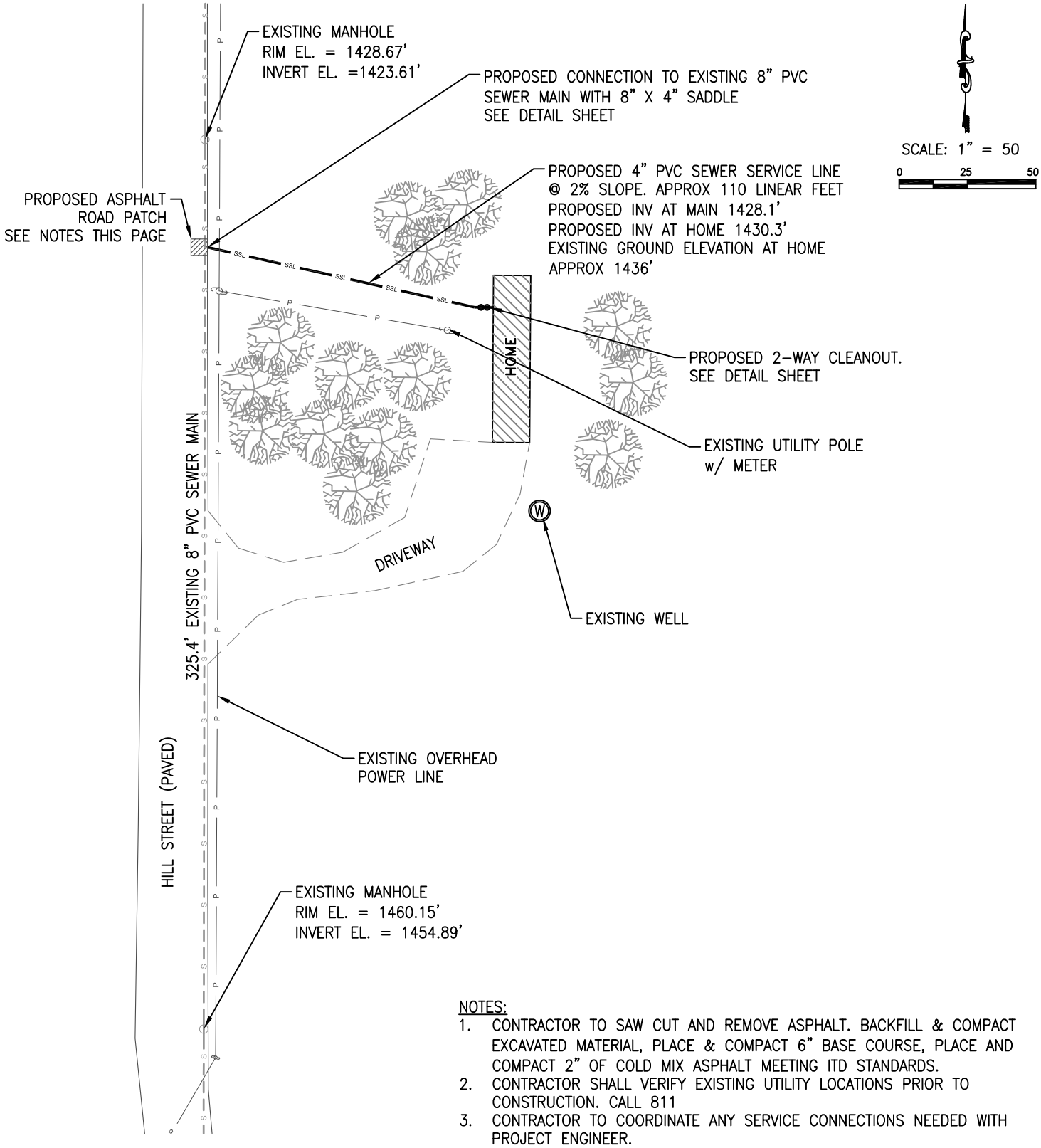
3.5 AS-BUILTS

A. Provide as-built information on each system in accordance with Section 01780. Use IHS forms if supplied by the Project Engineer.

B. Locate abandoned septic tanks on the as-built drawing.

END OF SECTION

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NOTES:

1. CONTRACTOR TO SAW CUT AND REMOVE ASPHALT. BACKFILL & COMPACT EXCAVATED MATERIAL, PLACE & COMPACT 6" BASE COURSE, PLACE AND COMPACT 2" OF COLD MIX ASPHALT MEETING ITD STANDARDS.
2. CONTRACTOR SHALL VERIFY EXISTING UTILITY LOCATIONS PRIOR TO CONSTRUCTION. CALL 811
3. CONTRACTOR TO COORDINATE ANY SERVICE CONNECTIONS NEEDED WITH PROJECT ENGINEER.

SR 2427 – INDIVIDUAL HOMESITE

2189 HILL STREET, KAMIAH, IDAHO 83536
Home Phone# (208) 935-8317

INDIAN HEALTH SERVICE
OFFICE OF ENVIRONMENTAL HEALTH & ENGINEERING

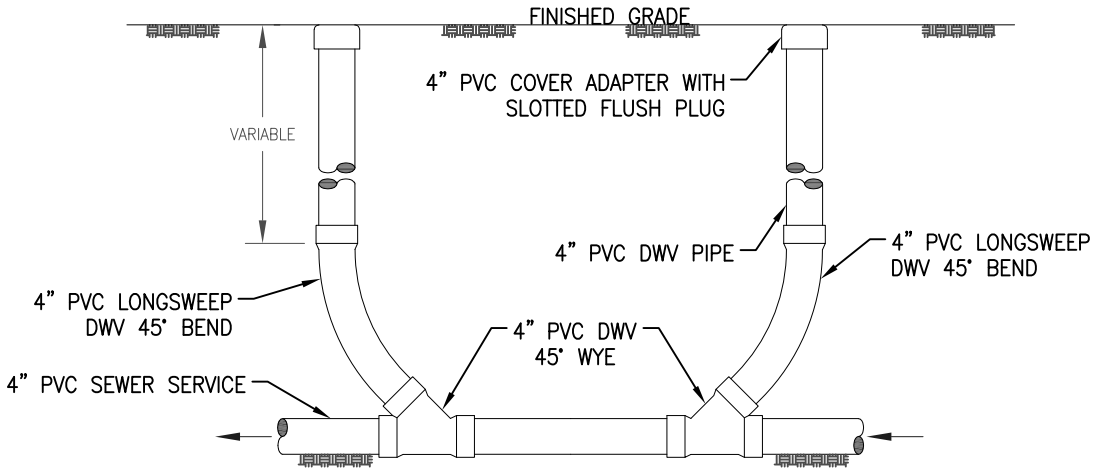
SANITATION FACILITIES CONSTRUCTION

SR 2427 – INDIVIDUAL HOMESITE
NEZ PERCE INDIAN RESERVATION
INDIVIDUAL HOMESITE COMMUNITY SEWER CONNECTION PLAN
PO-23-D13

DATE:	10/20/26	FILE NAME:	23-D13 SR2427
SCALE:	1:50	LAYOUT NAME:	SR 2427
DRAWN BY:	R K PULLIN	CHECKED BY: M FRANKO	PROJ ENG: K KENDALL

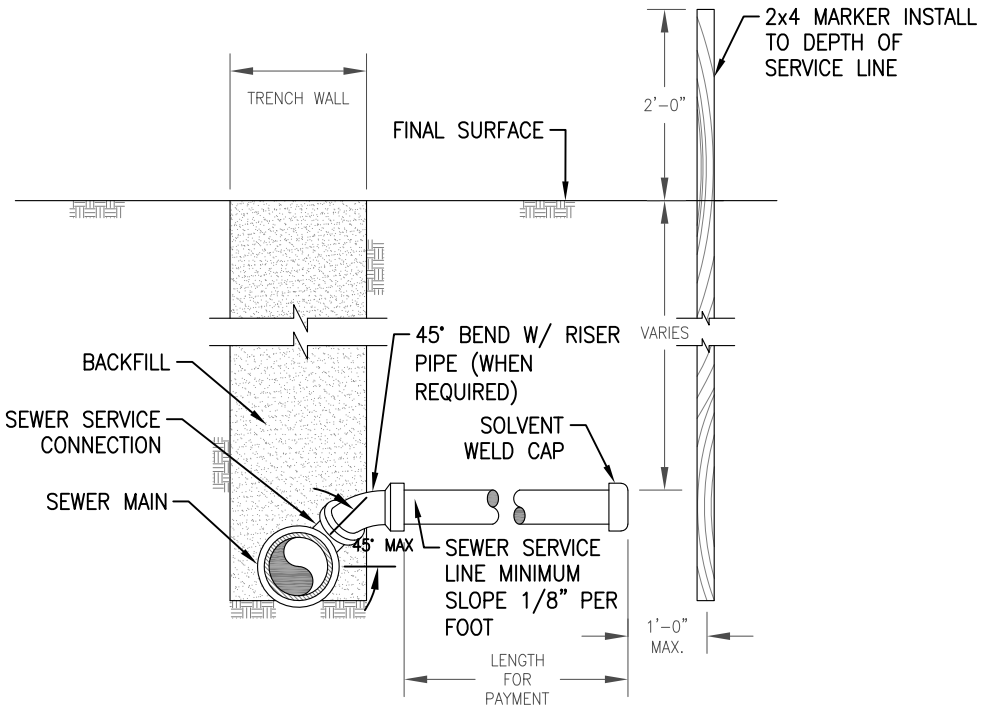


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SEWER SERVICE CLEANOUT – TWO-WAY
NOT TO SCALE

NOTE:
1. SEWER SERVICE LINES SPECIFIED IN SECTION 02536.
2. MINIMUM COVER OVER SEWER SERVICE LINE TO BE PROVIDED PER SPECIFICATIONS OR AS APPROVED BY PROJECT ENGINEER.
3. CAP END OF SEWER SERVICE LINE AND PROVIDE MARKER WHEN NO STUB OUT EXISTING AT RESIDENCE.



SEWER SERVICE LINE DETAIL
NOT TO SCALE

INDIAN HEALTH SERVICE
OFFICE OF ENVIRONMENTAL HEALTH & ENGINEERING

SANITATION FACILITIES CONSTRUCTION

SR 2427 – DETAILS

NEZ PERCE INDIAN RESERVATION
INDIVIDUAL HOMESITE COMMUNITY SEWER CONNECTION PLAN
PO-23-D13

DATE:	10/20/26	FILE NAME:	23-D13 SR2427
SCALE:	NTS	LAYOUT NAME:	SR 2427 DETAILS
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APPENDIX A

SUBMITTAL FORMS



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APPENDIX A
SUBMITTAL LOG

Specification		Submittal	Date Submitted	Date Returned	Approved	Conditionally Approved	Rejected	Incomplete	Not Applicable
Section	Part								
01220	1.2	Erosion Control Plan							
01220	1.2	Landscape Restoration Plan							
01310	1.3	Construction Schedule							
01310	1.3	Construction Company Name & License #							
01310	1.3	Name & Contact Infor for Superintendent							
01430	1.2	Warranties							
01780	1.2	Record Drawings							
02340	1.3	Standard Proctor							
02340	1.3	Compaction Test Results							
02340	1.3	Polystyrene Insulation							
02536	1.3	Sewer Service Line Pipe & Fittings							
02536	1.3	Sewer Wyes & Saddles							



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SUBMITTAL TRANSMITTAL

Project: _____ Project Number: _____

Contractor _____ Submittal Number: _____

_____ Submittal Date: _____

Contractor's Signature

	Date	Initial
Received by IHS		
Returned to Contractor		

SUBMITTALS

Item Bid Number	Item Description and Specification Reference	Type, Model Number, Manufacturer, etc.	Approved	Conditionally Approved	Rejected	Incomplete	Not Applicable

Project Engineer Signature _____ Date _____



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APPENDIX B

CONTRACT INVOICE FORM



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CONTRACT INVOICE

Community Sewer Service and Connection
Nez Perce Tribe
PO-23-D13

SCHEDULE A - SERVICE CONNECTION TO COMMUNITY SEWER

ITEM	DESCRIPTION	ACTUAL QUANTITY INSTALLED	UNIT	APPROVED UNIT PRICE	ACTUAL TOTAL PRICE
SR 2427					
1.	Mobilization		LS		
2.	Sewer Service Connection Fee, 4" Service, Pineridge Water & Sewer District		LS		
3.	Sewer Tap & Saddle		LS		
4.	Sewer Service Line, 4", PVC SDR 35 Solid Sewer Pipe		LF		
5.	Two-Way Cleanout		EA		
6.	Roadway Repair		SF		
	Subtotal Schedule A				
	TERO Fee (3.5% of Subtotal if Subtotal is $15,000 or more)				
	Schedule A - Bid Total (Subtotal plus TERO FEE)				

Signature of Offeror

Date

Position and Company