

RESOLUTION NO. _____

Request for Qualifications for a Professional Engineer Firm for the Edison Subarea UV System

WHEREAS RCW 39.80.030 requires that agencies publish in advance the agency's requirement for Professional Services: and,

WHEREAS the Planning and Development Services Department is interested in securing a Professional Engineering Firm for this project.

WHEREAS, the Planning and Development Services Department has determined the need for Engineering for this project.

NOW, THEREFORE, BE IT RESOLVED that the Board of Skagit County Commissioners hereby instructs the Clerk of the Board to issue a Request for Qualifications for an Engineering Firm for the following project:

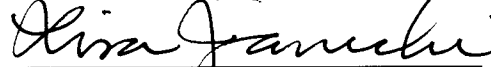
Edison Clean Water District Subarea UV Disinfection System Improvements

The closing date for the submittal of statements of qualifications will be the end of the business day, at **4:30 PM** on **TUESDAY, 04/01/2025**

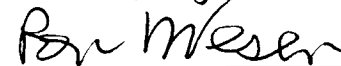
PASSED this 17 day of March, 2025.



BOARD OF COUNTY COMMISSIONERS
SKAGIT COUNTY, WASHINGTON



Lisa Janicki, Chair



Ron Wesen, Commissioner



Peter Browning, Commissioner

Attest:




Clerk of the Board

Approved as to form:



Civil Deputy Prosecuting Attorney

Approved as to Content:



Department Head

Requests for Qualifications

Skagit County

Edison Clean Water District

Wastewater UV Disinfection System Improvements

Legal Notice Request for Qualifications for Professional Services for Wastewater Treatment Improvements – Alternative 3a – Phase 1

NOTICE IS HEREBY GIVEN: that the Skagit County Planning & Development Services Department invites the submittal of written statements of qualifications from Consultants interested in providing Professional Engineering, Environmental Permitting, and related work for the following project:

Project Title: Wastewater Treatment Improvements – Phase 1

Proposal Due Date: 04/01/2025

Expected Time Period for Contract: April 2025 to April 30, 2026

Skagit County reserves the right to amend terms of this " Request for Qualifications" (RFQ), to circulate various addenda, or to withdraw the RFQ at any time.

Contract Eligibility: This procurement is open to those contractors that satisfy the minimum qualifications stated herein and that are available for work in Washington State.

Contents of the Request for Qualifications:

- 1. Introduction**
- 2. General Information for Contractors**
- 3. Proposal Contents**
- 4. Evaluation and Contract Award**
- 5. Exhibits**
 - a. A-1 Contractors Certifications**
 - b. B-1 Contractors Profile and References**
 - c. Edison Subarea Original Site Plans**
 - d. Edison Large On-Site Septic System Design**
 - e. UV Manual**

1. Introduction

1.1. Purpose and Background

Skagit County owns a small-scale wastewater treatment facility in the Town of Edison consisting of approximately 75 residential and commercial connections, individual customer on-site STEP tanks, a gravity and pumped collection system, and plant featuring recirculating gravel filtration, and UV disinfection, with an effluent discharge to two adjacent drain fields including a 5-acre drain field and an Emergency Upflow Trench. The system has been in place for approaching 30 years and is managed by a volunteer Subarea Board together with contracted maintenance, operation, and administration personnel. The Edison system operates under the Department of Ecology (ECY) State Waste Discharge Permit #ST0045515 issued pursuant to Chapter 173-216 WAC.

The County is soliciting interest from engineering firms to provide professional engineering services for the design of improvements to the Wastewater UV Disinfection System. The project is scheduled to start in 2025.

1.2. Objective/Scope of Work

The objective of this RFQ is to hire a contractor with superior Engineering and communications skills as project managers for the Wastewater UV Disinfection System upgrade.

It is anticipated that the work will be accomplished according to the following tasks but are not limited to:

- a.** Prepare a pre-design report establishing the size and configuration of the new UV system, size and channel modification, UV equipment, electrical, instrumentation and controls.
- b.** Preparation of preliminary designs and preliminary estimate of construction cost.
- c.** Preparation of Plans, Specifications, BID Documents, and final estimate of construction costs.
- d.** Assistance during bidding, including advertisement, distribution of bid documents, maintaining a plan holders list, responding to bidders' questions, preparing and distributing addenda, attending bid opening, preparing bid tabulation, verifying bidder's references, and providing a recommendation for award to the County.
- e.** Provide services during construction, including submittal review and office construction management, as requested by the County.
- f.** Assistance with documentation of Quality Assurance Project Plan (QAPP) or equivalent to meet requirements of data reporting

1.3. Minimum Qualifications

By the time of contract execution, Contractor must be registered to do business with Washington State and have a current Unified Business Identifier (UBI),

Contractor must provide firm's/team's qualifications, demonstrated experience as an Engineering Firm and design of wastewater treatment facilities. Must have experience of performing tasks listed in section 1.2 and Project Management duties. The information should be focused on similar and/or complementary projects. The roles proposed for each team member as well as their qualifications in that area shall also be identified. The firm/team members should be able to exhibit appropriate licenses and certifications for each discipline for which they will be used. Copies of licenses and certifications shall be provided upon request.

1.4. Project Description

The Objective of this phase is to upgrade and expand the aging UV system to ensure its integrity and continue to disinfect effluent to reduce fecal coliform discharge. The system experiences excessive flows due to a combination of high seasonal ground water tables, king tides, and heavy rainfall. When flows to the treatment plant exceeds the system's design and permitted limits, the treated effluent is diverted to an infiltration trench referred to as the emergency upflow trench which discharges the treated effluent into the Edison Slough. To address this seasonal situation and to comply with our ECY Discharge Permit, Skagit County contracted with an engineering firm, Gray and Osborne, to produce a Capacity Plan to identify limiting factors and develop potential solutions to improve the treatment system. The draft Capacity Plan was completed in April 2023 and submitted to the Washington State Department of Ecology for review and approval. The Plan identified six (6) alternatives ranging from direct connection to the City of Burlington's wastewater treatment plant, to various expansion and improvements to the current treatment system. The highest-ranking alternative included the rehabilitation of the existing on-site drainfield to improve drainfield capacity and upgrades to the Ultraviolet (UV) treatment component to ensure the integrity of the disinfection system, thereby continuing to eliminate fecal coliform prior to discharge. Given the proximity of the Edison system to the Edison Slough these improvements will decrease any direct impact to the Samish Bay commercial shellfish growing areas. This proposal is to begin Phase 1 of the wastewater treatment and disposal system improvements by upgrading the UV system. The 2023 Gray and Osborne Capacity Plan Assigned Rough Order of Magnitude (ROM) costs for implementing all improvements of \$1,280,000. The ROM for the UV system upgrade (construction only) was set at \$124,000, and the County has received \$250,000 in grant funds to complete both the design and construction of this phase.

2. **General Information for Contractors**

2.1. RFQ Project Administrator Contact

The RFQ Project Administrator is the sole point of contact for this procurement. All communications between the Contractor and Skagit County upon receipt of this RFQ shall be with the RFQ Project Administrator, as follows:

Name:	Erin Langley
Address:	1800 Continental Place
City, State, Zip Code:	Mount Vernon, WA 98273
Email Address:	erinl@co.skagit.wa.us

Any other communication will be considered unofficial and non-binding. Contractors are to rely on written statements issued by the RFQ Project Administrator. Communication directed to parties other than the RFQ Project Administrator may result in disqualification of the Contractor.

2.2. Estimated Schedule of Procurement Activities

RFQ Published:	3/20/2025
RFQ Advertised:	3/20/2025
Deadline for Questions:	4/1/2025
Deadline for SOQ:	4/1/2025
Review and score of SOQ:	4/1/2025
Consultant Interviews:	4/1/2025
Consultant Selection:	4/1/2025
Execute Contract:	Date of Execution
Notice to Proceed/Begin Design:	TBD
Completed Design:	TBD
Completed System:	TBD
End Contract:	4/30/2026

*Skagit County reserves the right to revise the above schedule at any time.

2.3. Submission of Proposals

Contractors are required to submit a hard copy of their Proposal including a cover letter with firm name, address, and contact information. The Proposal must be received by Skagit County no later than **4:30 PM**, Pacific Time, on **TUESDAY, 04/01/2025**. Submission must be by mail or in-person drop off at the Commissioners Administrative Building at 1800 Continental Pl, Mount Vernon, WA 98273. The submission title shall read **“Edison Subarea UV – Firm Name”**

The submittal package (cover letter plus Statement of Qualifications (SOQ)) must not exceed seven (7) single -sided, letter size pages. Exceeding this limit will result in a five (5) point deduction per additional page. References will be contacted at random. Unresponsive references will receive zero (0) points. Cost proposals shall not be submitted with the SOQ.

Late Proposals will not be accepted and will be automatically disqualified from further consideration. All Proposals and any accompanying documentation become the property of Skagit County.

The Contractor’s Proposal must respond to all of the solicitation requirements. Do not respond by referencing material presented elsewhere. The Proposal shall be considered complete and stand on its own merits. Failure to respond to any portions may result in rejection of the Proposal as non-responsive.

Include Contractor’s contact information for this RFQ with firm name, title, email, and telephone number.

The Apparent Successful Contractor will be expected to enter into a contract which is substantially the same as the RFQ. In no event is a Contractor to submit its own standard contract terms and conditions in response to this solicitation. Contractors may submit exceptions as allowed in Exhibit A-1 – Contractor’s Certification. All exceptions to the contract terms and conditions must be submitted as an attachment to Exhibit A-1 –

Contractor's Certification. Skagit County will review requested exceptions and accept or reject the same at its sole discretion.

2.3. Proprietary Information/Public Disclosure

Materials submitted in response to this competitive procurement shall become the property of Skagit County. All Proposals received shall remain confidential until Skagit County has announced an Apparent Successful Contractor; thereafter, the Proposals shall be deemed public records as defined under the Public Records Act, RCW Chapter 42.56.

2.4. Small & Diverse Businesses

Skagit County, in accordance with Washington law, encourages small and diverse businesses to compete for and participate in state procurements as contractors and as subcontractors to awarded bidders. See, e.g., RCW 39.19 (OMWBE certified businesses); RCW 43.60A.200 (WDVA certified veteran-owned businesses); and RCW 39.26.005 (Washington small businesses).

OMWBE Certification. Contractors may contact the Washington State Office of Minority and Women's Business Enterprises (OMWBE) regarding information on Minority-Owned and Women-Owned certified firms, state and federal certification programs, or to become certified. OMWBE can be reached by telephone, 866-208-1064, or through their website at OMWBE. OMWBE-Certified firms may provide their certification information on Exhibit A-2 – Contractor's Profile & References.

WDVA Certification. Contractors may contact the Washington State Department of Veterans' Affairs (WDVA) for information regarding Certified Veteran-Owned businesses or to become a Certified Veteran-Owned Business. The WDVA can be reached by telephone, (360) 725-2169, or through their website at WDVA. The qualification requirements to be a Certified Veteran-Owned Business are set forth in Exhibit A-1 – Contractor's Certification.

Washington Small Businesses. Contractors may contact OSOS about small and diverse business inclusion and qualification as a Washington Small Business. If you qualify as a Washington Small Business, identify yourself as such in WEBS. Call WEBS Customer Service at 360-902-7400. The qualification requirements to self-certify as a Washington Small Business are set forth in Exhibit A-1 – Contractor's Certification.

Americans with Disabilities Act (ADA) Information. Skagit County complies with the ADA and Section 504 of the Rehabilitation Act. Please contact Emily Derenne at emilyid@co.skagit.wa.us if you require this RFQ to be provided in an alternate format.

Build America Buy America Act (BABA)

The ***Build America Buy America Act***, enacted as part of the Infrastructure Investment and Jobs Act on November 15, 2021, established a domestic content procurement preference for all Federal financial assistance obligated for infrastructure projects after May 14, 2022. The domestic content procurement preference requires that all iron, steel, manufactured products, and construction materials used in covered infrastructure projects are produced in the United States.

2.5. Acceptance Period

Proposals must be provided between March 20, 2025, and April 1, 2025, for acceptance by Skagit County from the later of the due date for receipt of Proposals or receipt of best and final offers (if utilized). Contractor agrees that during the acceptance period it may not modify, withdraw, or cancel its Proposal.

2.6. Responsiveness

All Proposals will be reviewed by the RFQ Project Administrator to determine compliance with administrative requirements and instructions specified in this RFQ. Contractor is specifically notified that failure to comply with any part of the RFQ may result in rejection of the Proposal as non-responsive.

Skagit County also reserves the right, however at its sole discretion to wave minor administrative irregularities.

2.7. No Obligation Contract

This RFQ does not obligate the state of Washington or Skagit County to contract for services specified herein.

3. Proposal Contents

Proposals must be complete, legible, signed, and follow all instructions stated in the solicitation (including the exhibits). Unless otherwise specified in writing by Skagit County, submissions must be by mail or in-person drop off at the Commissioners Administrative Building at 1800 Continental Pl, Mount Vernon, WA 98273.

Contractors' Proposals must respond to all of the solicitation requirements. Do not respond by referencing material presented elsewhere. The Proposal shall be considered complete and stand

on its own merits. Failure to respond to any portions may result in rejection of the Proposal as non-responsive.

This section identifies the submittals that must be provided as instructed below to constitute a responsive Proposal. Proposals that do not include all of the applicable submittals identified below are considered non-responsive and will be rejected. In addition, a Contractor's failure to complete any submittal as instructed may result in the Proposal being rejected. Contractors may not provide unsolicited materials. For any supplemental materials expressly required by the Washington Office of Secretary of State (OSOS) in writing, Contractors must identify such supplemental materials with the Contractor's name.

Contractors must submit the following documents separately:

- **EXHIBIT A-1 – CONTRACTOR'S CERTIFICATION**
Complete the certification, attach any exceptions or required explanations, and submit it to the RFQ Project Manager using the following file naming convention: **ContractorName_CERTIFICATION** The certification must be complete. Where there are choices, bidders must check a box. The certification must be signed and submitted by a duly authorized representative of the Contractor.
- **EXHIBIT A-2 – CONTRACTOR'S PROFILE & REFERENCES**
Complete as instructed and submit to the RFQ Project Manager using the following file naming convention: **ContractorName_REFERENCES**
- **Statement of Qualifications (SOQ)**
No form is provided for this submittal. The Contractor proposal must include the following and demonstrate that the minimum qualifications set forth in Section 1.3 are met:
 - A. Project Management**
 - 1. Project Team Structure/Internal Controls** - Provide a description of the proposed project team structure and internal controls to be used during the course of the project. Provide an organizational chart of your firm indicating lines of authority for personnel involved in the performance of this potential contract and relationships of this staff to other programs or functions of the firm. This chart must also show lines of authority to the next senior level of management. Include who within the firm will have prime responsibility and final authority for the work.
 - 2. Staff Qualifications/Experience** – Identify staff, who will be assigned to the potential contract, indicating the responsibilities and qualifications of such personnel, and include the amount of time each will be assigned to the project. Provide resumes for the named staff which include information on the individuals' particular skills related to this project, education, experience, significant

accomplishments and any other pertinent information. Contractor must commit that staff identified in its Proposal will actually perform the assigned work. Any staff substitution must have prior approval of Skagit County.

B. Experience of the Contractor

Indicate the experience the Contractor demonstrates and the qualifications of Contractor for the performance of the potential contract. Include a list of contracts the Contractor has had during the last five years that relate to the Contractor's ability to perform the services needed under this RFQ. List contract reference numbers, contract period of performance, contact persons, telephone numbers, and fax numbers/e-mail addresses.

Submit to the RFQ Project Manager using the following file naming convention:

ContractorName_MANAGEMENT

4. Evaluation and Contract Award

4.1. Evaluation of Qualifications (100 Points)

Consideration during the evaluation of qualifications will include, but are not limited to the following:

1.	Technical qualifications and experience of the Firm (25 points)
2.	Experience with Wastewater Treatment Engineering (15 points)
3.	Project approach and cost control measures (25 points)
4.	Experience with UV Design (15 points)
5.	Proposed Timeline (15 points)
6.	Past Performances (5 points)

4.2. Proposal Selection

A Selection Committee will review, evaluate, and rank the proposals. The Selection Committee will include, at a minimum, staff from Skagit County's Planning and Development Services.

4.3. Title VI Statement

Skagit County, in accordance with the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat. 252, 42 U.S.C. 2000d to 2000d-4) and the Regulations, hereby notifies all bidders that it will affirmatively ensure that any contract entered into pursuant to this advertisement, disadvantaged business enterprises will be afforded full and fair opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award.

5. RFQ Exhibits

Exhibit A - A-1 Contractors Certifications

Exhibit B - B-1 Contractors Profile and References

Exhibit C - Edison Subarea Original Site Plans

Exhibit D - Edison Large On-Site Septic System LOSS Design

Exhibit E - UV Manual

EXHIBIT A-1 – CONTRACTOR’S CERTIFICATION

Competitive Solicitation:	RFQQ No. 25-02 issued December 2, 2024		
Contractor:	_____ Type/print full legal name of Contractor		
Contractor’s Address:	_____ Type/print Contractor’s Address		
Contractor Organization Type: Check appropriate box	Corporation:	<input type="checkbox"/> Domestic	<input type="checkbox"/> Foreign
	Limited Liability Company (LLC):	<input type="checkbox"/> Domestic	<input type="checkbox"/> Foreign
	Partnership:	<input type="checkbox"/> Domestic	<input type="checkbox"/> Foreign
	Sole Proprietorship:	<input type="checkbox"/>	
State of Formation:	_____ Type/print the state where the corporation, LLC, or partnership is formed – e.g., ‘Washington’ if domestic and the name of the state if ‘Foreign’ (i.e., not Washington)		
Doing Business Under Another Name: Check appropriate box	<p>State whether Contractor has been doing business under another name during the past five years:</p> <p><input type="checkbox"/> Contractor has NOT done business under another name <input type="checkbox"/> Contractor HAS done business under another name</p> <p>If Contractor HAS done business under another name, provide the name(s) and addresses:</p> <p>Name: _____</p> <p>Address: _____</p>		

Contractor, through the duly authorized undersigned, makes this certification as a required element of submitting a responsive Proposal. Contractor certifies, to the best of its knowledge and belief that the following are true, complete, correct, and made in good faith:

1. **UNDERSTANDING.** Contractor certifies that Contractor has read, thoroughly examined, and fully understands all of the provisions in the solicitation (including all exhibits) and the terms and conditions of the contract and any amendments or clarifications to the solicitation, and agrees to abide by the same.
2. **ACCURACY.** Contractor certifies that Contractor has carefully prepared and reviewed its Proposal and fully attests to the accuracy of the same. Contractor further understands and acknowledges that OSOS shall not be responsible for any errors or omissions on the part of Contractor in preparing its Proposal. Contractor further certifies that the facts declared herein are true and accurate. Contractor further understands and acknowledges that the continuing compliance with these statements and all requirements of the solicitation are conditions precedent to the award or continuation of the resulting contract.

3. **NO COLLUSION, ANTI-COMPETITIVE PRACTICES, OR SHARING PROPOSAL INFORMATION.** Contractor certifies that Contractor has not: (1) either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competition; (2) improperly shared information with other Contractors in connection with this solicitation; and (3) made any attempt and shall not make any attempt to induce any other person or firm to submit or not to submit a proposal for the purpose of restricting competition. If there is evidence of such communication, collusion, or anti-competitive activities among Contractors, OSOS reserves the right to disqualify such Contractors. Contractor, however, freely may join with other persons or organizations for the purpose of presenting a joint proposal.
4. **FIRM OFFER.** Contractor certifies that its Proposal pertaining to the above-referenced solicitation is a firm offer which cannot be withdrawn for a time period of sixty (60) days from and after the proposal due date specified in the solicitation. OSOS may accept such Proposal, with or without further negotiation, at any time within such period. In the event of a protest, Contractor's Proposal shall remain valid for such time period or until the protest and any related court action is resolved, whichever is later.
5. **CONFLICT OF INTEREST.** Contractor certifies that, in preparing its Proposal, Contractor has not been assisted by any current or former employee of the State of Washington whose duties relate (or did relate) to this solicitation or prospective contract and who was assisting in other than the employee's official, public capacity. Contractor further certifies that no such current or former public employee nor any member of such person's immediate family have any financial interest in the outcome of Contractor's Proposal.
6. **NO REIMBURSEMENT.** Contractor certifies that Contractor understands that the State of Washington will not reimburse Contractor for any costs incurred in the preparation of Contractor's Proposal. All proposals become the property of the State of Washington, and Contractor claims no proprietary right to the ideas, writings, items, or samples unless so stated in the Proposal.
7. **PERFORMANCE.** Contractor certifies that Contractor understands that its submittal of a Proposal and execution of this Contractor's Certification certifies Contractor's willingness to comply with the terms of the contract, if awarded such. By submitting this Proposal, Contractor hereby offers to furnish the goods and/or services solicited pursuant to this solicitation in compliance with all terms, conditions, and performance requirements contained in this solicitation and the resulting contract or, if applicable, as detailed on a Contract Issues List, if permitted, in this solicitation.
8. **INSURANCE.** Contractor certifies as follows (*must check one*):
- CONTRACTOR HAS REQUIRED INSURANCE.** Contractor has attached a current, valid certificate of insurance for each and all of the required insurance coverages as specified in the contract (note: Contractor must attach the insurance certificate).

OR

 - CONTRACTOR WILL OBTAIN REQUIRED INSURANCE.** Contractor does not have a current, valid certificate of insurance for each and all of the required insurance coverages as specified in the contract but, if designated as the Apparent Successful Contractor, Contractor will provide such a certificate of insurance, without exception of any kind, to OSOS within twenty-four (24) hours of such designation or notification by OSOS or be deemed a nonresponsive Proposal.

OR

 - CONTRACTOR DOES NOT HAVE REQUIRED INSURANCE.** As detailed on the attached

explanation (Contractor to provide), Contractor does not have a current, valid certificate of insurance for each and all of the required insurance coverages as specified in the contract and, if designated as the Apparent Successful Contractor would not be able to provide such a certificate of insurance to OSOS within twenty-four (24) hours of such designation.

9. DEBARMENT. Contractor certifies as follows (*must check one*):

NO DEBARMENT. Contractor and/or its principals are not presently nor has ever been debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from contracting with any federal, state, or local governmental entity within the United States.

OR

DEBARRED. As detailed on the attached explanation (Contractor to provide), Contractor and/or its principals presently are debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from contracting with a federal, state, or local governmental entity within the United States.

10. CRIMINAL OFFENSE. Contractor (including Contractor's officers) certifies as follows (*must check one*):

NO CRIMINAL OFFENSE. Contractor has not, within the three (3)-year period preceding the date of this solicitation, been convicted or had a civil judgment rendered against Contractor for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a governmental contract; violation of any federal or state antitrust statute; or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property. Contractor further certifies that it is not presently indicted or otherwise criminally or civilly charged by a governmental entity with commission of any of the offenses enumerated in this paragraph.

OR

CRIMINAL OFFENSE. As detailed on the attached explanation (Contractor to provide), within the three (3)-year period preceding the date of this solicitation, Contractor has been convicted or had a civil judgment rendered against Contractor for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a governmental contract; violation of any federal or state antitrust statute; or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property.

11. WAGE THEFT PREVENTION. Contractor certifies as follows (*must check one*):

NO WAGE VIOLATIONS. Contractor has NOT been determined by a final and binding citation and notice of assessment issued by the Washington Department of Labor and Industries or through a civil judgment entered by a court of limited or general jurisdiction to have willfully violated, as defined in RCW 49.48.082, any provision of RCW chapters 49.46, 49.48, or 49.52 within three (3) years prior to the date of the above-referenced solicitation date.

OR

VIOLATIONS OF WAGE LAWS. Contractor has been determined by a final and binding

citation and notice of assessment issued by the Washington Department of Labor and Industries or through a civil judgment entered by a court of limited or general jurisdiction to have willfully violated, as defined in RCW 49.48.082, a provision of RCW chapters 49.46, 49.48, or 49.52 within three (3) years prior to the date of the above-referenced solicitation date.

12. CIVIL RIGHTS. Contractor certifies as follows (*must check one*):
- COMPLIANCE WITH CIVIL RIGHTS REQUIREMENTS.* Contractor complies with all applicable requirements regarding civil rights. Such requirements prohibit discrimination against individuals based on their status as protected veterans or individuals with disabilities, and prohibit discrimination against all individuals based on their race, color, religion, sex, sexual orientation, gender identity, or national origin.
- OR
- NON-COMPLIANCE WITH CIVIL RIGHTS REQUIREMENTS.* Contractor does not comply with all applicable requirements regarding civil rights.
13. WORKERS' RIGHTS (EXECUTIVE ORDER 18-03). Contractor certifies as follows (*must check one*):
- NO MANDATORY INDIVIDUAL ARBITRATION CLAUSES AND CLASS OR COLLECTIVE ACTION WAIVERS FOR EMPLOYEES.* Contractor does NOT require its employees, as a condition of employment, to sign or agree to mandatory individual arbitration clauses or class or collective action waivers.
- OR
- MANDATORY INDIVIDUAL ARBITRATION CLAUSES AND CLASS OR COLLECTIVE ACTION WAIVERS FOR EMPLOYEES.* Contractor requires its employees, as a condition of employment, to sign or agree to mandatory individual arbitration clauses or class or collective action waivers.
14. TERMINATION FOR DEFAULT OR CAUSE. Contractor certifies as follows (*must check one*):
- NO TERMINATION FOR DEFAULT OR CAUSE.* Contractor has not, within the three (3)-year period preceding the date of this solicitation, had one (1) or more federal, state, or local governmental contracts terminated for cause or default.
- OR
- TERMINATION FOR DEFAULT OR CAUSE.* As detailed on the attached explanation (Contractor to provide), within the three (3)-year period preceding the date of this solicitation, Contractor has had one (1) or more federal, state, or local governmental contracts terminated for cause or default.
15. TAXES. Contractor certifies as follows (*must check one*):
- TAXES PAID.* Except as validly contested, Contractor is not delinquent and has paid or has arranged for payment of all taxes due to the State of Washington and has filed all required returns and reports as applicable.
- OR
- DELINQUENT TAXES.* As detailed on the attached explanation (Contractor to provide), Contractor has not paid or arranged for payment of all taxes due to the State of Washington and/or has not timely filed all required returns and reports as applicable.

16. FINANCIALLY SOLVENT. Contractor certifies as follows (*must check one*):

FINANCIALLY SOLVENT. Contractor is financially stable and solvent, has adequate cash reserves to meet all financial obligations, has not commenced bankruptcy proceedings voluntarily or otherwise, and is not subject to any judgments, liens, or encumbrances of any kind affecting title to any goods or services that are the subject of this solicitation.

OR

NOT FINANCIALLY SOLVENT. As detailed on the attached explanation (Contractor to provide), Contractor is not financially stable and solvent – i.e., Contractor does not have adequate cash reserves to meet all financial obligations, has commenced bankruptcy proceedings voluntarily or otherwise, or is subject to a judgment, lien, or encumbrance that affects title to the goods or services that are the subject of this solicitation.

17. LAWFUL REGISTRATION. Contractor, if conducting business other than as a sole proprietorship (e.g., Contractor is a corporation, limited liability company, partnership) certifies as follows (*must check one*):

CURRENT LAWFUL REGISTRATION. Contractor is in good standing in the State of Washington and the jurisdiction where Contractor is organized, including having timely filed all required annual reports.

OR

DELINQUENT REGISTRATION. As detailed on the attached explanation (Contractor to provide), Contractor currently is not in good standing in the State of Washington and/or the jurisdiction where Contractor is organized.

18. REGISTRATION WITH WASHINGTON SECRETARY OF STATE. Contractor certifies as follows (*must check one*):

CONTRACTOR IS REGISTERED WITH WASHINGTON SECRETARY OF STATE. Contractor is registered with the Washington Secretary of State, such registration is active, and Contractor has the following Unified Business Identifier (UBI) number: ____ ____ ____.

OR

CONTRACTOR WILL REGISTER WITH WASHINGTON SECRETARY OF STATE. Contractor is not registered with the Washington Secretary of State but, if designated as an Apparent Successful Contractor, Contractor will register with the Washington Secretary of State to obtain a UBI number and provide proof of such registration satisfactory to OSOS within twenty-four (24) hours of such designation or notification by OSOS or be deemed a nonresponsive Proposal.

OR

CONTRACTOR IS NOT REGISTERED WITH WASHINGTON SECRETARY OF STATE. Contractor is not registered with the Washington Secretary of State and Contractor declines to register with the Washington Secretary of State. *Note:* OSOS requires all awarded Contractors (including Washington firms and out of state firms) to be registered with the Washington Secretary of State. Contractors who are not registered will not be awarded a contract.

19. REGISTRATION WITH WASHINGTON STATE DEPARTMENT OF REVENUE. Contractor certifies as follows (*must check one*):

CONTRACTOR IS REGISTERED WITH WASHINGTON STATE DEPARTMENT OF REVENUE. Contractor is registered with the Washington State Department of Revenue, has a business license to do business in Washington, and has the following Unified Business Identifier (UBI) number: _____.
OR

CONTRACTOR WILL REGISTER WITH WASHINGTON STATE DEPARTMENT OF REVENUE. Contractor is not registered with the Washington State Department of Revenue but, if designated as an Apparent Successful Contractor, Contractor will register with the Washington State Department of Revenue for a business license and provide proof of such registration satisfactory to OSOS within twenty-four (24) hours of such designation or notification by OSOS or be deemed a nonresponsive Proposal.
OR

CONTRACTOR IS NOT REGISTERED WITH WASHINGTON STATE DEPARTMENT OF REVENUE. Contractor is not registered with the Washington State Department of Revenue and Contractor declines to register with the Washington State Department of Revenue. *Note:* OSOS requires all awarded Contractors (including Washington firms and out of state firms) to be registered with the Washington State Department of Revenue. Contractors who are not registered will not be awarded a contract.

20. SUBCONTRACTORS. Contractor certifies as follows (*must check one*):

NO SUBCONTRACTORS. If awarded a contract, Contractor will not utilize subcontractors to provide the goods and/or services subject to this solicitation.
OR

SUBCONTRACTORS. As detailed on the attached Exhibit A-2 Contractor's Profile and References, if awarded a contract, Contractor will utilize subcontractor(s) to provide the goods and/or services subject to this solicitation. In such event, Contractor further certifies that, as to the State of Washington, Contractor shall retain responsibility for its subcontractors, including, without limitation, liability for any subcontractor's acts or omissions. *Note:* Contractor must provide the precise legal name (including state of organization), business address, and federal tax identification number (TIN) for each subcontractor. *Note:* If the TIN is a SSN, do not provide the SSN.

21. WASHINGTON SMALL BUSINESS. Contractor certifies as follows (*must check one*):

WASHINGTON SMALL BUSINESS. Contractor is a Washington small business as defined in RCW 39.26.010. To qualify as a Washington Small Business, Contractor must meet three (3) requirements:

- *Location.* Contractor's principal office/place of business must be located in and identified as being in the State of Washington. A principal office or principal place of business is a firm's headquarters where business decisions are made and the location for the firm's books and records as well as the firm's senior management personnel.
- *Size.* Contractor must be owned and operated independently from

all other businesses and have either: (a) fifty (50) or fewer employees; or (b) gross revenue of less than seven million dollars (\$7,000,000) annually as reported on Contractor's federal income tax return or its return filed with the Washington State Department of Revenue over the previous three consecutive years).

- *WEBS Certification.* Contractor must have certified its Washington small business status in Washington's Electronic Business Solution (WEBS).

OR

- NOT WASHINGTON SMALL BUSINESS.* Contractor does not qualify as a Washington small business as defined in RCW 39.26.010.

22. CERTIFIED VETERAN-OWNED BUSINESS. Contractor certifies as follows (*must check one*):

- CERTIFIED VETERAN-OWNED BUSINESS.* Contractor is a certified veteran-owned business under RCW 43.60A.190. To qualify as a certified veteran-owned business, Contractor must meet four (4) requirements:

- *51% Ownership.* Contractor must be at least fifty-one percent (51%) owned and controlled by:

- (a) A veteran as defined as every person who at the time he or she seeks certification has received a discharge with an honorable characterization or received a discharge for medical reasons with an honorable record, where applicable, and who has served in at least one of the capacities listed in RCW 41.04.007;
- (b) A person who is in receipt of disability compensation or pension from the department of veterans affairs; or
- (c) An active or reserve member in any branch of the armed forces of the United States, including the national guard, coast guard, and armed forces reserves.

- *Washington Incorporation/Location.* Contractor must be either an entity that is incorporated in the state of Washington as a Washington domestic corporation or, if not incorporated, an entity whose principal place of business is located within the State of Washington.

- *WEBS Certification.* Contractor must have certified its veteran-owned business status in Washington's Electronic Business Solution (WEBS).

- *WDVA Certification.* Contractor must have provided certification documentation to the Washington Department of Veterans' Affairs (WDVA) and be certified by WDVA and listed as such on WDVA's website (WDVA – Veteran-Owned Businesses).

OR

- NOT A CERTIFIED VETERAN-OWNED BUSINESS.* Contractor does not qualify as a certified

veteran-owned business.

23. REFERENCES. Contractor certifies that the references provided to OSOS have worked with Contractor and that such individuals and firms have full permission, without any additional requirement or release, to provide such references and information to OSOS. Contractor hereby authorizes OSOS (or its agent) to contact Contractor's references and others who may have pertinent information regarding Contractor's prior experience and ability to perform the work set forth in this solicitation. Contractor hereby authorizes such individuals and firms to provide such references and release to OSOS information pertaining to the same.

Contractor further certifies that it shall provide immediate written notice to OSOS if, at any time prior to a contract award, Contractor learns that any of its certifications set forth herein were erroneous when submitted or have become erroneous by reason of changed circumstances.

I hereby certify, under penalty of perjury under the laws of the State of Washington, that the certifications herein are true and correct and that I am duly authorized to make these certifications on behalf of the Contractor listed herein.

CONTRACTOR NAME: _____
Print Name of Contractor – Print full legal entity name of the firm submitting the Bid

By: _____
Signature of Contractor's authorized person Print Name of person making certifications for Contractor

Title: _____
Title of person signing certificate Place: _____
Print city and state where signed

Date: _____

Return this Contractor's Certification to the RFQQ Coordinator at:
ivan.zavrazhnov@sos.wa.gov

EXHIBIT B-1 CONTRACTOR'S PROFILE & REFERENCES

Competitive Solicitation:	RFQQ No. 25-02 issued December 2, 2024
---------------------------	--

CONTRACTOR'S INFORMATION PROFILE	
Contractor:	_____ Type/print full legal name of Contractor
Contractor's Address:	_____ Business Name _____ Address _____ City, State, Zip Code
Contractor's Unified Business Identifier Number (UBI):	UBI No. _____
Contractor's Taxpayer Identification Number (TIN):	_____
Is your firm certified as a minority- or woman-owned business with the Washington State Office of Minority and Women's Business Enterprises (OMWBE)?	Yes <input type="checkbox"/> No <input type="checkbox"/> If yes, provide Contractor's MWBE certification no.: _____

<p>Is your firm a self-certified Washington State Small Business?</p> <p><i>Note: See Exhibit A-1 – Contractor’s Certification for criteria to qualify as a Washington State Small Business.</i></p> <p><i>Note: Regardless of size, a qualifying business must be owned and operated independently from all other businesses. In regard to size, the gross revenue thresholds, as reported on Contractor’s tax returns, are as follows:</i></p> <ul style="list-style-type: none"> ▪ Microbusiness: Annual gross revenue of less than \$1,000,000 ▪ Minibusiness: Annual gross revenue of more than \$1,000,000, but less than \$3,000,000 ▪ Small Business: Annual gross revenue of less than \$7,000,000 over each of the three prior consecutive years. 	<p style="text-align: center;">Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>If yes, provide the location for Contractor’s principal place of business:</p> <p style="text-align: center;">_____</p> <p style="text-align: center;">Street Address</p> <p style="text-align: center;">_____</p> <p style="text-align: center;">City, State, Zip Code</p> <p>If yes, what is your business size (based on annual gross revenue)?</p> <p style="text-align: right;">Microbusiness <input type="checkbox"/></p> <p style="text-align: right;">Minibusiness <input type="checkbox"/></p> <p style="text-align: right;">Small Business <input type="checkbox"/></p>
<p>Is your firm certified as a Veteran-Owned Business with the Washington State Department of Veteran Affairs?</p> <p><i>Note: See Exhibit A-1 – Contractor’s Certification for criteria to qualify as a Certified Veteran-Owned Business.</i></p>	<p style="text-align: center;">Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>If yes, provide Contractor’s WDVA certification no.:</p> <p style="text-align: center;">_____</p>
<p>CONTRACTOR’S PRIMARY POINTS OF CONTACT:</p>	<p>Authorized Representative:</p> <p>Name: _____</p> <p>Email: _____</p> <p>Phone: _____</p> <p>Contract Administrator:</p> <p>Name: _____</p> <p>Email: _____</p> <p>Phone: _____</p>

REFERENCES

Provide at least three (3) references for Contractor including company name, contact name, title, phone number, email address, and a description of the work engagement upon which the reference is based.

CONTRACTOR REFERENCES	
Company Name: Contact Name: Title: Phone: Email:	Description of Work Engagement:
Company Name: Contact Name: Title: Phone: Email:	Description of Work Engagement:
Company Name: Contact Name: Title: Phone: Email:	Description of Work Engagement:
Company Name: Contact Name: Title: Phone: Email:	Description of Work Engagement:
Company Name: Contact Name: Title: Phone: Email:	Description of Work Engagement:

SUBCONTRACTORS

Identify authorized subcontractors who will provide service on a contract resulting from this solicitation.

LEGAL NAME	SMALL, WOMEN OWNED, VETERAN OR OTHER DISADVANTAGED STATUS	POINT OF CONTACT NAME	PHONE NUMBER	EMAIL ADDRESS

Return this Contractor’s Profile & References to the RFQQ Coordinator at:
ivan.zavrazhnov@sos.wa.gov

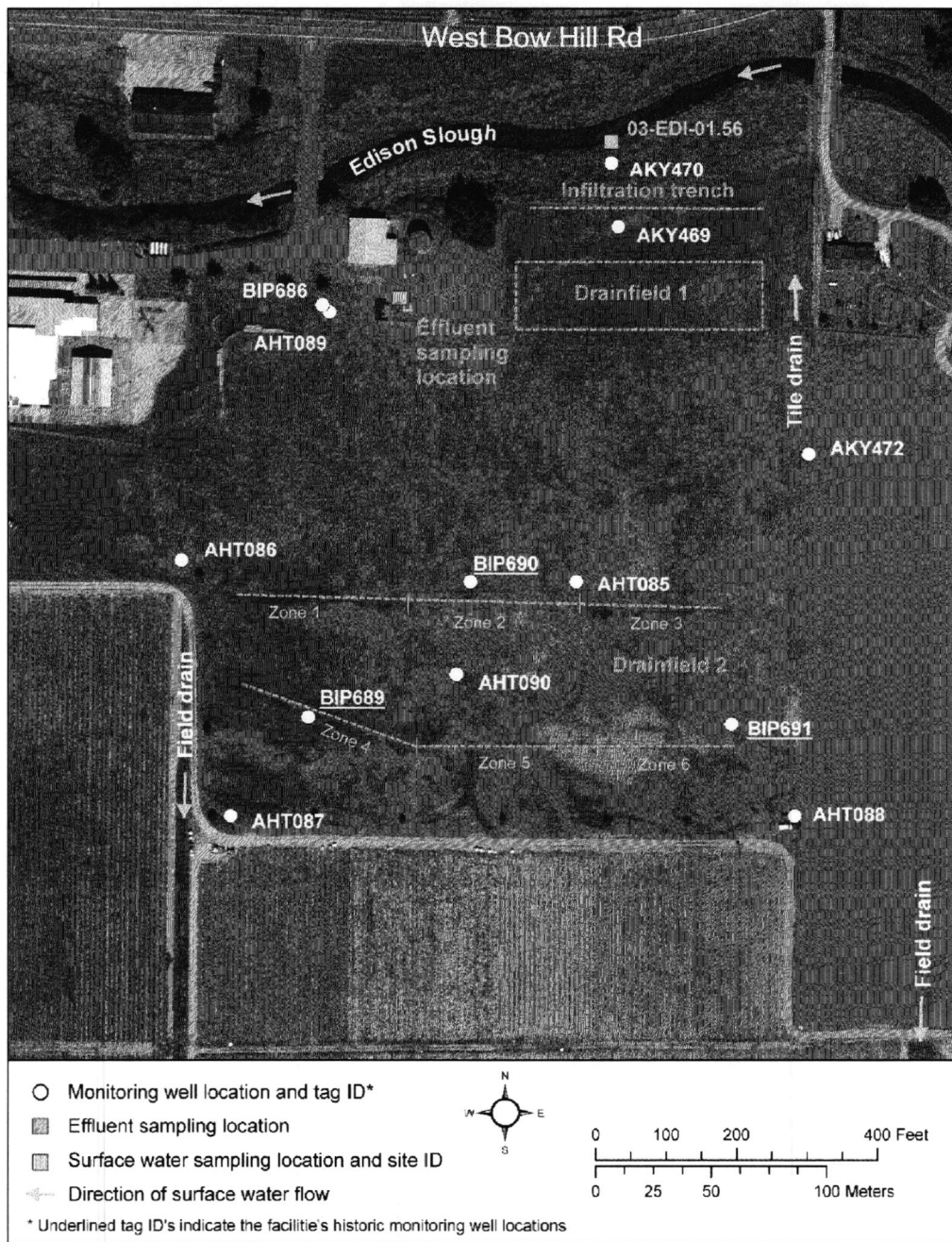


Figure 6. Monitoring well locations and surface water drainage features.

Exhibit D

SKAGIT CO. CLEAN WATER DISTRICT:
EDISON SUB-AREA
PHASE 1 SEWER IMPROVEMENTS
SKAGIT COUNTY, WASHINGTON

RECORD DRAWINGS

NO.	REVISIONS	BY	DATE
1	ADDendum #1 NEW MOUNTAIN MAP	TC	02-01-98

Wilson Engineering
CONSULTING ENGINEERS & SURVEYORS

805 DUPONT STREET
BELLINGHAM, WA 98225
(360) 733-6100
FAX: (360) 647-9061

DESIGNED BY:
TC
DRAWN BY:
TC
CHECKED BY:
MWC

Skagit Co. Clean Water District
Edison Sub-Area
PHASE I SEWER IMPROVEMENTS
COVER SHEET

DATE
April 1998
SCALE
no scale
REVISION NUMBER
94077

COVER SHEET

EDISON

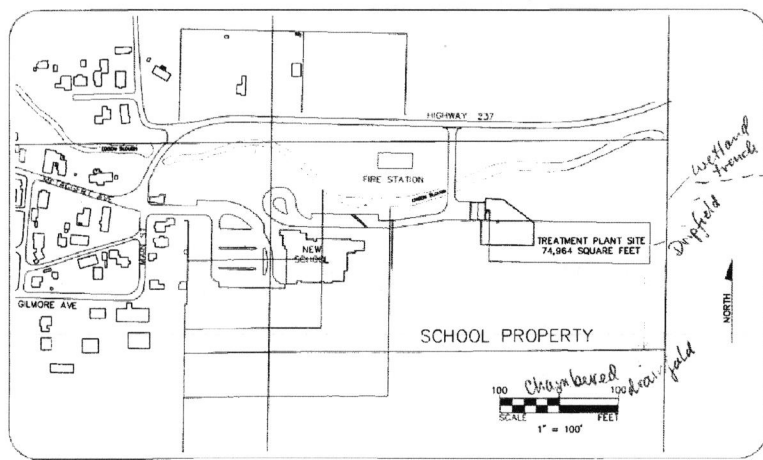
WASHINGTON

SKAGIT CO. CLEAN WATER DISTRICT: EDISON SUB-AREA PHASE 1 SEWER IMPROVEMENTS SKAGIT COUNTY, WASHINGTON

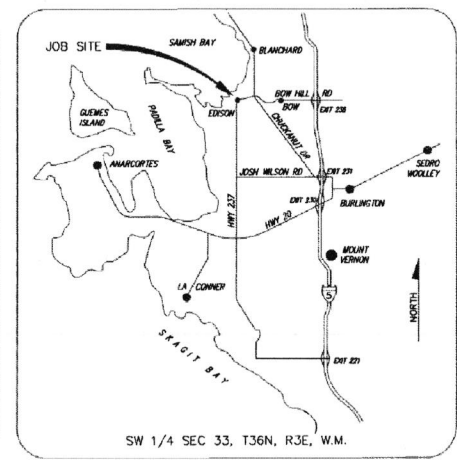
SHEET INDEX

1. COVER SHEET
2. OVERALL SITE MAP, VICINITY MAP, AND INDEX
3. HYDRAULIC PROFILE & SCHEMATIC
4. WEST SITE PLAN
5. CENTRAL SITE PLAN AND LEGEND
6. EAST SITE PLAN
7. TREATMENT PLANT SITE PLAN
8. GRAVEL FILTER CROSS SECTIONS
9. RECIRCULATION TANK ELEVATIONS
10. FILTER WALL & PUMP DETAILS
11. DISPOSAL AND RECIRCULATION PUMP DETAILS
12. DISPOSAL FIELD PLAN
13. DISPOSAL FIELD DETAILS
14. SCHOOL SEPTIC TANK & UV DETAILS
15. MISCELLANEOUS DETAILS

SEE SHEET E-1 FOR ELECTRICAL SHEET INDEX



OVERALL SITE MAP
(SCALE: 1" = 100')



VICINITY MAP
(NO SCALE)

RECORD DRAWING
Best copy and available information
obtained during construction.
Date: 01/09/04
By: M.A.N.
Checked by: H.E.S.

M:\SKAGITCO\94077-PHASE 1\RECORD DRAWINGS\COI.DWG, LAYOUT.1, 03/03/04 01:00:35 PM, 0.51, BY: M. NAGEL

NO.	REVISIONS	BY	DATE
1	ADDENDUM #, NEW VICINITY MAP	TC	05-01-98

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805 DUPONT STREET
BELLINGHAM, WA 98225
(360) 733-6100
FAX (360) 647-9061

DESIGNED BY: TC	Skagit Co. Clean Water District Edison Sub-Area	DATE April 1998	SHEET 1
DRAWN BY: TC		SCALE no scale	
CHECKED BY: MWC	OVERALL SITE MAP, VICINITY MAP, AND INDEX	JOB NUMBER RFQ# 94077	
	EDISON	WASHINGTON	

DESIGN CRITERIA

WASTEWATER DESIGN CRITERIA

DESIGN AVERAGE DAILY FLOW*	12,000 GPD
DESIGN AVERAGE PEAK FLOW	18,000 GPD
PEAK INSTANTANEOUS FLOW	50 GPM
PEAK FLOW THROUGH FUTURE CAFE PUMP STATION	42 GPM
DESIGN RESIDENTIAL POPULATION	148 PEOPLE
DESIGN SCHOOL POPULATION	500 STUDENTS
BOD LOADING (0.912 MGD X 200mg/L X 8.34)	20 LBS/DAY
TSS LOADING (0.912 MGD X 100mg/L X 8.34)	19 LBS/DAY

*ORIGINAL DESIGN FLOW WAS 24,000 GPD

RECIRCULATION TANK DESIGN CRITERIA

DESIGN BASIS	100% PEAK DAY FLOW
RECIRCULATION RATE	5 PER DAY
TANK DIMENSIONS	43'-0" x 14'-0" x 6'-3"
TANK VOLUME	78,000 GALLONS
TOTAL OPERATING	18,000 GALLONS
WATER SURFACE DEPTH	4'-0"

RECIRCULATING FILTER DESIGN CRITERIA

ORIGINAL DESIGN FLOW	24,000 GPD
WASTE LOADING @ 24,000 GPD	5 GPD PER SF
FILTER AREA	4,800 SF
FILTER DIMENSIONS	2 EA 48'-0" x 56'-0"
CURRENT DESIGN FLOW	12,000 GPD
HYDRAULIC LOADING (BOTH FILTERS)	2.5 GPD PER SF PER SF
HYDRAULIC LOADING (ONE FILTER)	5.0 GPD PER SF PER SF

FILTER PUMP DESIGN CRITERIA

DAILY DOSE VOLUME	120,000 GALLONS
DOSE SCHEDULE*	4.0 DOSES PER DAY
DOSE VOLUME	2,500 GALLONS
DOSE RATE	125 GPM
OPERATING HEAD	20 FEET

*SCHEDULE IS ADJUSTABLE

DISINFECTION DESIGN CRITERIA

PEAK INSTANTANEOUS FLOW	50 GPM
ULTRAVIOLET FLOW CAPACITY	75,000 GPD

DRIP DISPOSAL FIELD OPERATING CRITERIA

DESIGN FLOW	1,065 GPD
SOIL ABSORPTION RATE	0.04 GPD PER SF
DISPOSAL FIELD AREA	26,667 SF
DISPOSAL FIELD DIMENSIONS	72'-0" x 370'-0"
DISPOSAL LINE SPACING	2 FT O.C.
EMITTER SPACING	2 FT O.C.
NUMBER OF EMITTERS	6,660
EMITTER DISCHARGE RATE	1.13 GPM AT 15 PSI

DRIP DISPOSAL FIELD FLUSHING CRITERIA

PART OF FIELD FLUSHED DURING FLUSHING OPERATION (ONE HALF OF EAST OR WEST HALF)	25 PERCENT
FLUSH OPERATION FREQUENCY*	ONE PER MONTH
FLUSH VOLUME SET POINT	170 GALLONS
EMITTER FLUSH VELOCITY	6.5 FT PER SECOND

DISCHARGE PUMP DESIGN CRITERIA

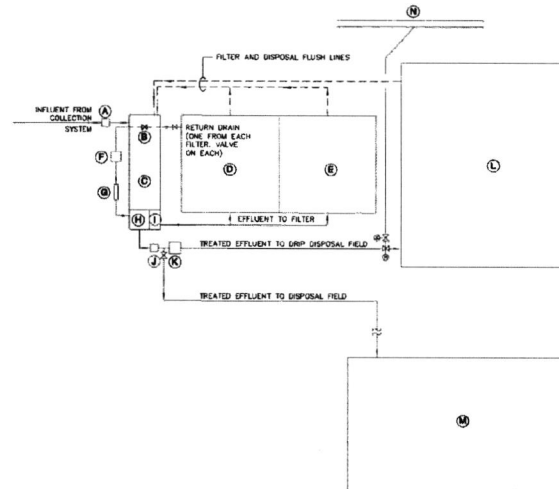
EMITTER DISCHARGE RATE	125 GPM
PUMP RATE	125 GPM
OPERATING HEAD	60 FEET
PUMP DOSE VOLUME	170 GALLONS

NOTE:

FOR EXPANDED WASTEWATER DISPOSAL FIELD DESIGN CRITERIA REFER TO RECORD DRAWINGS TITLED "WASTEWATER DISPOSAL FIELD IMPROVEMENTS"

PROCESS SCHEMATIC

NO SCALE



- (A) INFLUENT FLOW METER
- (B) RECIRCULATING BALL VALVE
- (C) RECIRCULATION TANK
- (D) GRAVEL FILTER NO. 1
- (E) GRAVEL FILTER NO. 2
- (F) SETTLING TANK
- (G) UV SYSTEM
- (H) DISPOSAL PUMP CHAMBER
- (I) RECIRCULATION PUMP CHAMBER
- (J) EFFLUENT FLOW METER
- (K) PARTICLE FILTER
- (L) DRIP DISPOSAL FIELD
- (M) EXPANDED WASTEWATER DISPOSAL FIELD
- (N) INFILTRATION TRENCHES

RECORD DRAWING

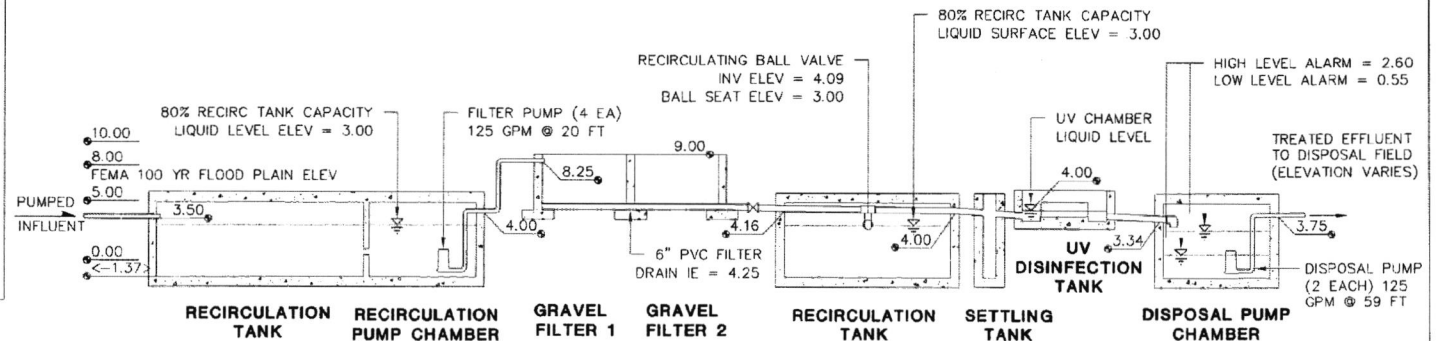
Based upon best available information
verified during construction
Date: 01/08/04
By: M.A.N.
Checked By: H.E.S.

NOTE:

FOR RECORD DRAWINGS FOR THE SETTLING TANK (F) AND EXPANDED WASTEWATER DISPOSAL FIELD (M) REFER TO THE PLOANSET "WASTEWATER DISPOSAL FIELD IMPROVEMENTS"

HYDRAULIC PROFILE

SCALE: VERTICAL 1" = 5'
NO HORIZONTAL SCALE



NOTE: ALL ELEVATIONS IN FEET (FT).

NO.	REVISIONS	BY	DATE
3	UPDATE HYDRAULIC PROFILE TO DESIGN CRITERIA	TC	01-28-97
2	ADD DISPOSAL FIELD FLUSHING CRITERIA TO DESIGN CRITERIA	TC	12-17-96
1	ADD COLUMN #1 WASTEWATER DESIGN CRITERIA AND HYDRAULIC PROFILE	TC	05-01-96

Wilson Engineering
CONSULTING ENGINEERS & SURVEYORS

805 DUPONT STREET
BELLINGHAM, WA 98225
(360) 733-6100
FAX: (360) 647-9061

DESIGNED BY:
TC
DRAWN BY:
TC
CHECKED BY:
MWC

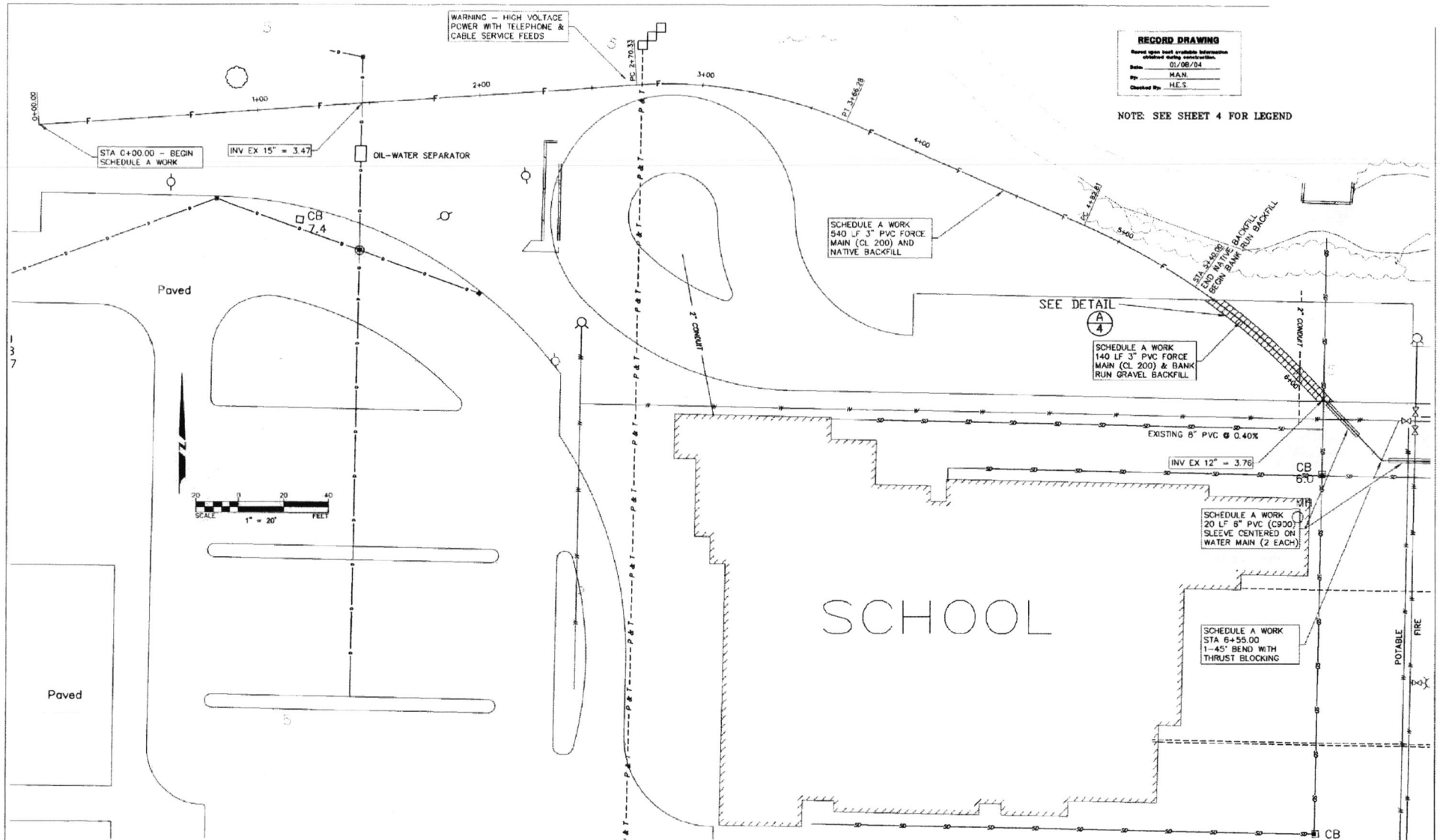
Skagit Co. Clean Water District
Edison Sub-Area
PHASE I SEWER IMPROVEMENTS
HYDRAULIC PROFILE & SCHEMATIC

DATE	SHEET
Apr 1 1996	2
SCALE	OF
NO SCALE	
JOB NUMBER	
RF01996-077	12

EDISON

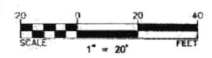
WASHINGTON

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RECORD DRAWING
 Have you had outside information checked with construction?
 Date: 01/08/04
 By: M.A.N.
 Checked By: H.E.S.

NOTE: SEE SHEET 4 FOR LEGEND



Wilson Engineering
 CONSULTING ENGINEERS & SURVEYORS

805 DUPONT STREET
 BELLINGHAM WA 98225
 13601733-6100
 FAX: 13601647-9061

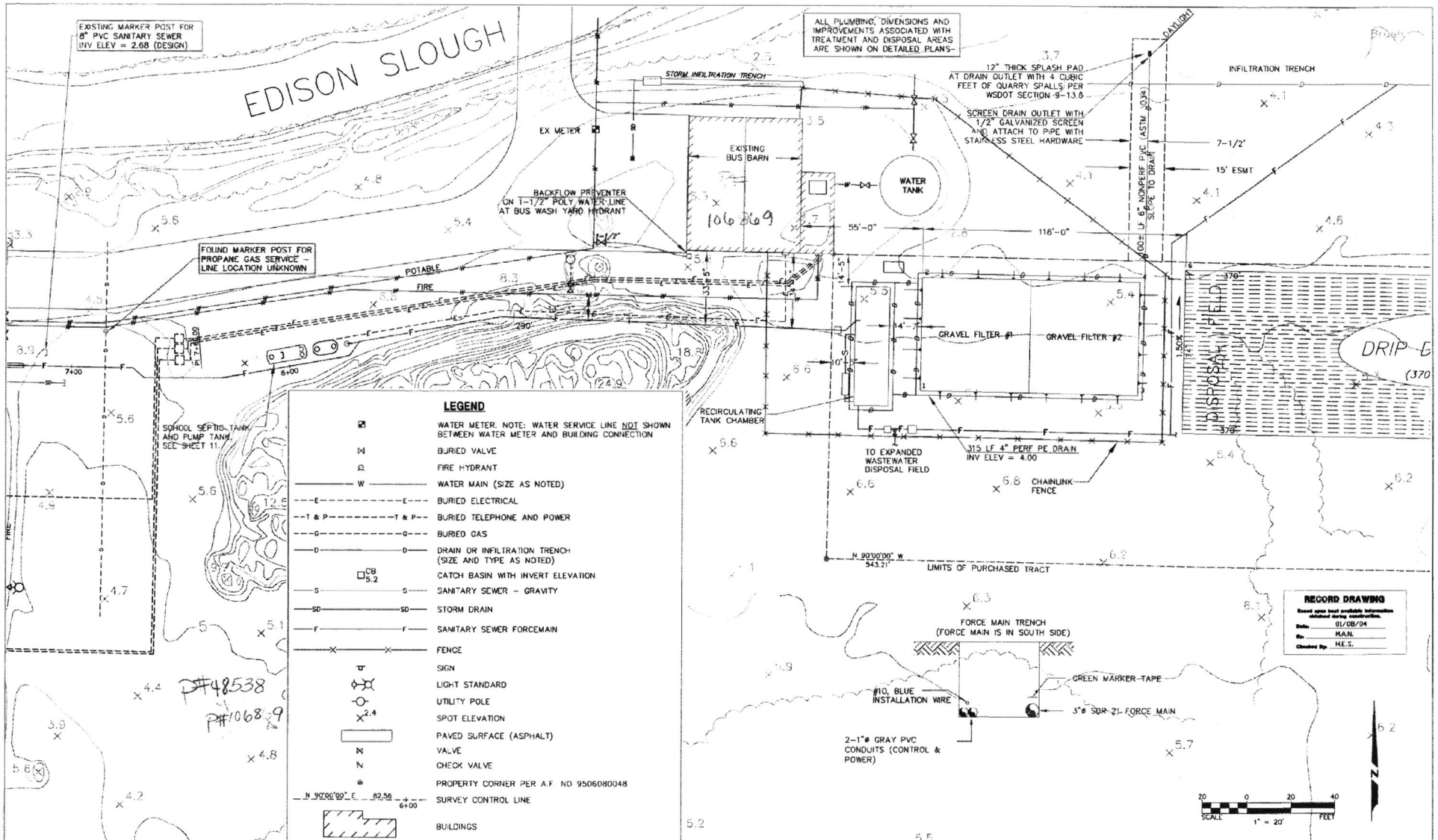
DESIGNED BY: TC
 DRAWN BY: TC
 CHECKED BY: MWC

Skagit Co. Clean Water District
 Edison Sub-Area
 PHASE I SEWER IMPROVEMENTS
 WEST SITE PLAN

DATE	Apr 9 1996	SHEET	3
SCALE	1" = 20'	OF	
JOB NUMBER	RFQ# 28077		
			12

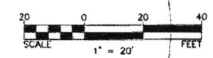
NO.	REVISIONS	BY	DATE
2	CHANGE ORDER 1, RE-ALIGN FORCE MAIN	TC	06-13-96
1	ADDENDUM #1, DELETE FORCE MAIN FROM CONTRACT (STA 5+00 TO STA 2+40)	TC	09-01-96

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LEGEND	
	WATER METER. NOTE: WATER SERVICE LINE NOT SHOWN BETWEEN WATER METER AND BUILDING CONNECTION
	BURIED VALVE
	FIRE HYDRANT
	WATER MAIN (SIZE AS NOTED)
	BURIED ELECTRICAL
	BURIED TELEPHONE AND POWER
	BURIED GAS
	DRAIN OR INFILTRATION TRENCH (SIZE AND TYPE AS NOTED)
	CATCH BASIN WITH INVERT ELEVATION
	SANITARY SEWER - GRAVITY
	STORM DRAIN
	SANITARY SEWER FORCE MAIN
	FENCE
	SIGN
	LIGHT STANDARD
	UTILITY POLE
	SPOT ELEVATION
	PAVED SURFACE (ASPHALT)
	VALVE
	CHECK VALVE
	PROPERTY CORNER PER A.F. NO 9506080048
	SURVEY CONTROL LINE
	BUILDINGS

RECORD DRAWING
 Based upon best available information obtained during construction.
 Date: 01/08/04
 By: M.A.N.
 Checked By: H.E.S.



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805 DUPONT STREET
 BELLINGHAM, WA 98225
 (360) 733-6100
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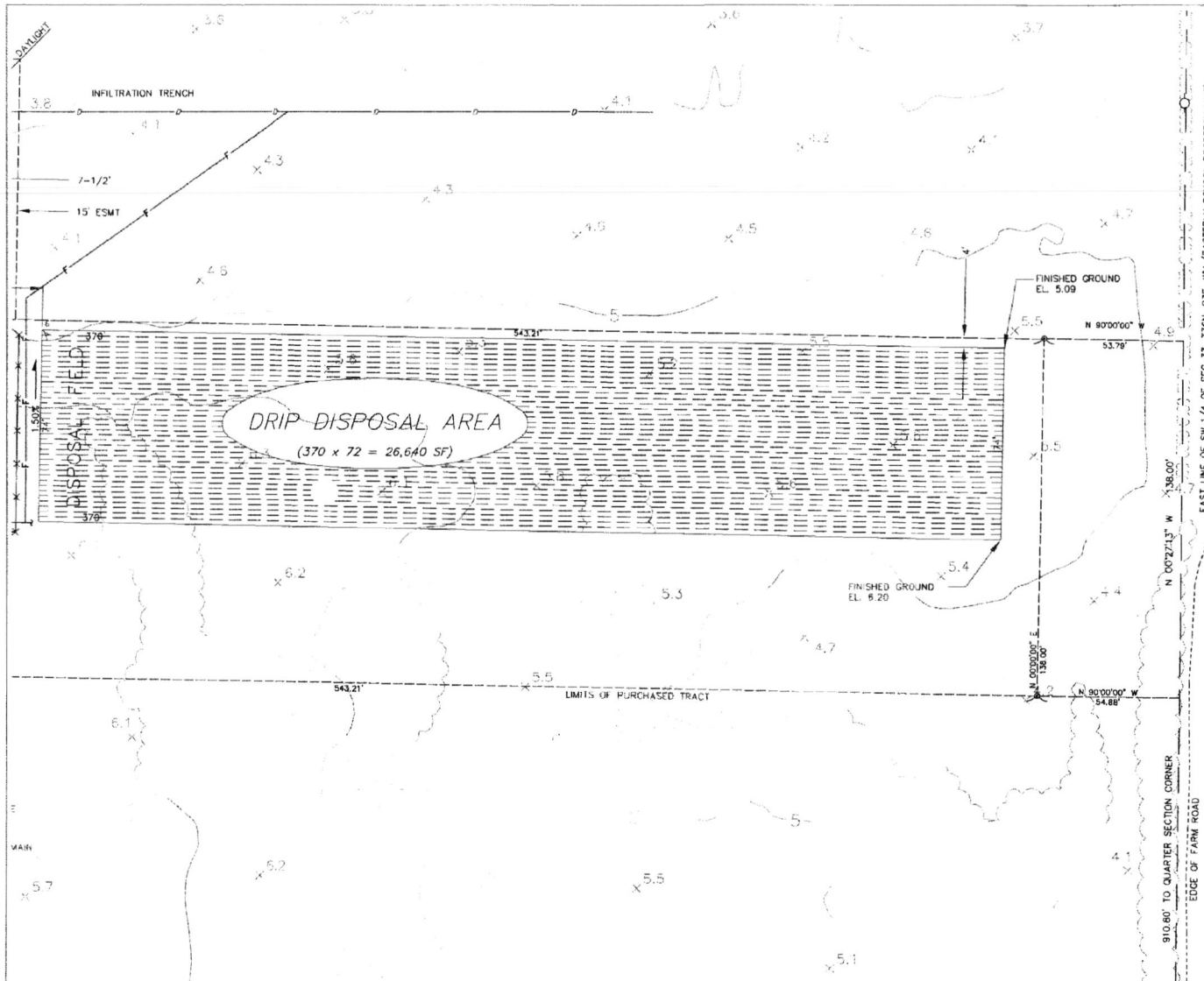
DESIGNED BY: TC
 DRAWN BY: TC
 CHECKED BY: MWC

Skagit Co. Clean Water District
 Edison Sub-Area
 PHASE I SEWER IMPROVEMENTS
 CENTRAL SITE PLAN AND LEGEND

DATE: April 1996
 SCALE: 1" = 20'
 JOB NUMBER: RFO# 1997
 SHEET: 4 OF 12

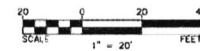
NO.	REVISIONS	BY	DATE
1	ADDendum #1. REMOVE WATER SERVICE AND RECONFIGURE DISPOSAL FIELD	TC	06-01-99

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NOTE: SEE SHEET 4 FOR LEGEND AND SHEET 10 FOR DRIP DISPOSAL FIELD PLAN

RECORD DRAWING
 Based upon best available information obtained during construction.
 Date: 01/28/04
 By: M.A.N.
 Checked By: H.E.S.



NO.	REVISIONS	BY	DATE
1	ADDENDUM #1 RECONFIGURE DISPOSAL FIELD	TC	05-01-96

Wilson Engineering
 CONSULTING ENGINEERS & SURVEYORS

805 DUPONT STREET
 BELLINGHAM, WA 98225
 (360) 733-6100
 FAX: (360) 647-9061

DESIGNED BY:
TC
 DRAWN BY:
TC
 CHECKED BY:
MWC

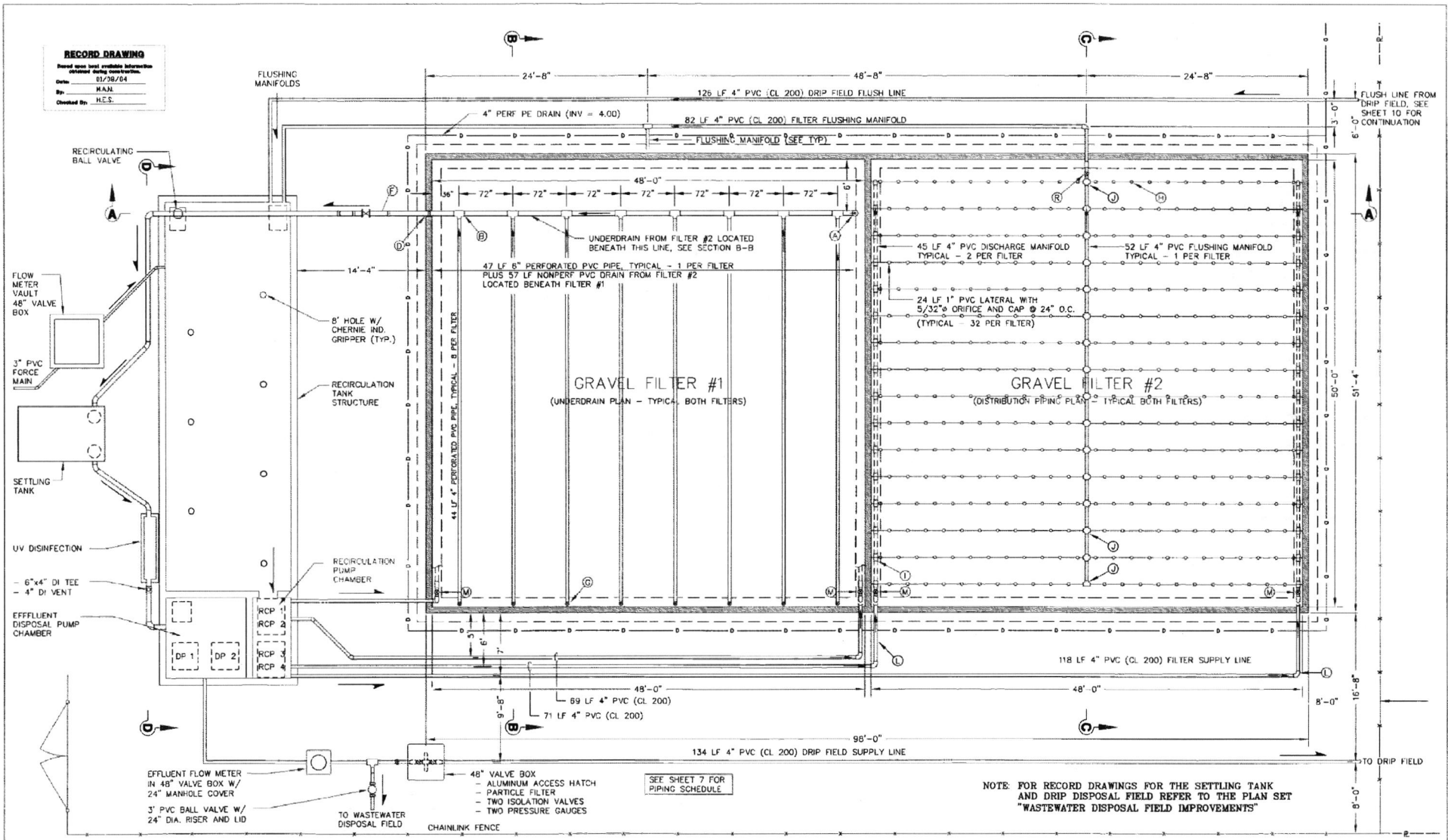
Skagit Co. Clean Water District
 Edison Sub-Area
 PHASE I SEWER IMPROVEMENTS
 EAST SITE PLAN

DATE	SHEET
April 1996	5
SCALE	OF
1" = 20'	
JOB NUMBER	
RFQ# 96-097	12

WASHINGTON

RECORD DRAWING

Revised upon final system information
 Client: Edison Sub-Area
 Date: 01/28/04
 By: H.A.N.
 Checked By: H.C.S.



NOTE: FOR RECORD DRAWINGS FOR THE SETTLING TANK AND DRIP DISPOSAL FIELD REFER TO THE PLAN SET "WASTEWATER DISPOSAL FIELD IMPROVEMENTS"

SEE SHEET 7 FOR PIPING SCHEDULE

48" VALVE BOX
 - ALUMINUM ACCESS HATCH
 - PARTICLE FILTER
 - TWO ISOLATION VALVES
 - TWO PRESSURE GAUGES

NO.	REVISIONS	BY	DATE
1	ADDENDUM #1 REMOVE FENCE AND ADD MISCELLANEOUS DIMENSIONS		

Wilson Engineering
 CONSULTING ENGINEERS & SURVEYORS

305 DUPONT STREET
 BELLINGHAM, WA 98225
 (360) 733-6100
 FAX (360) 647-9061

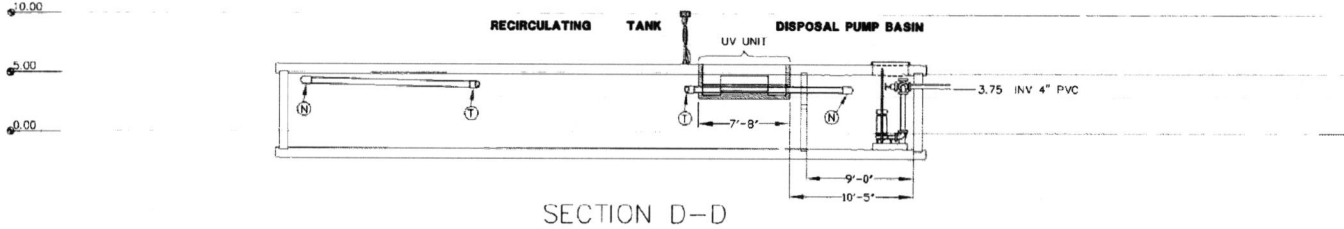
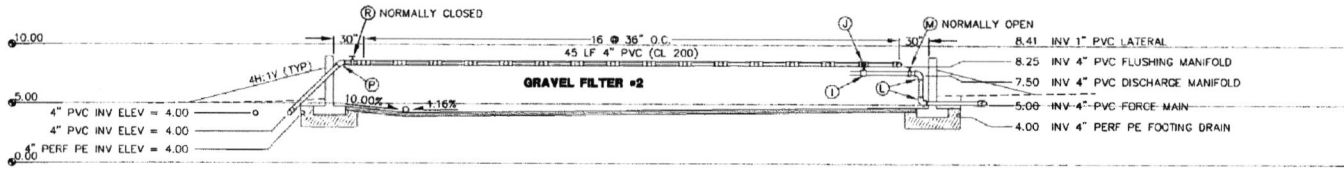
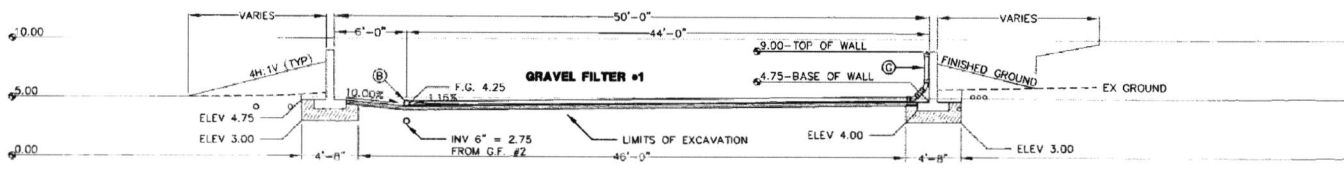
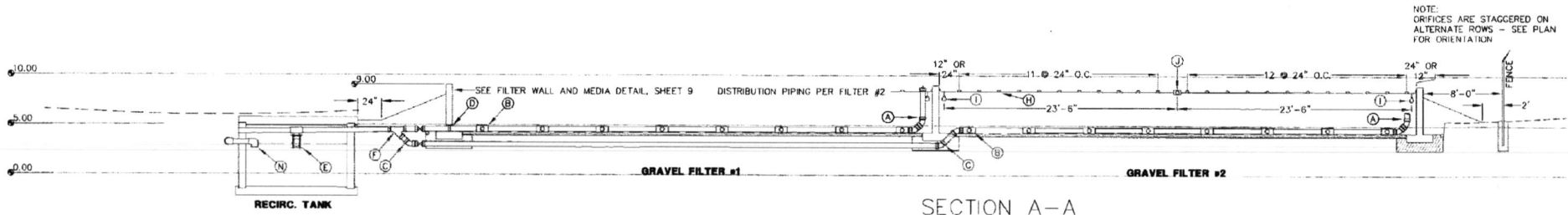
DESIGNED BY: TC
 DRAWN BY: TC
 CHECKED BY: MWC

Skagit Co. Clean Water District
 Edison Sub-Area
 PHASE I SEWER IMPROVEMENTS
 TREATMENT PLANT SITE PLAN

DATE: April 1996
 SCALE: NO SCALE
 JOB NUMBER: RFP# 0077
 SHEET 6 OF 12

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M:\SKAGIT\CONV\4077-PHASE I\RECORD DRAWINGS\CD7.DWG, LAYOUT, 05/03/04 11:35:33 AM, C.S.1, BY: M. NAGEL



NOTE:
ORIFICES ARE STAGGERED ON
ALTERNATE ROWS - SEE PLAN
FOR ORIENTATION

- Ⓐ 6" UNDERGRAIN CLEANOUT (ASTM 3034)
NOTE CLOSE TOLERANCE WITH Ⓡ AND Ⓢ
- Ⓑ 6"x 4" PVC TEE (ASTM 3034)
- Ⓒ 6" PVC 45° BEND (ASTM 3034)
- Ⓣ CAST 6" GASKETED PVC COUPLER
IN CONCRETE TO CONNECT 6" DRAIN
TO 6" PVC PIPE
- Ⓤ 6" RECIRCULATING BALL VALVE
- ⓕ 6" PVC WYE (ASTM 3034)
- ⓖ 4" UNDERDRAIN CLEANOUT (ASTM 3034)
- ⓗ ORIFICE CAP - SEE DETAIL
- ⓘ DISCHARGE MANIFOLD-LATERAL CONNECTION
- 1" PVC THREADED CAP
- 1" LONG RADIUS BEND
- 1" PVC TEE
- 4"x 1" PVC TEE
- Ⓥ FLUSHING MANIFOLD-LATERAL CONNECTION
- 4" PVC CROSS
- 4" x 1" REDUCER
- 1" PVC BALL VALVE (NORMALLY CLOSED)
- 1" PVC LATERAL
- Ⓧ 4" PVC TEE (CL 200)
- Ⓨ 4" PVC 90° EL (CL 200)
WITH THRUST BLOCKING
- Ⓩ 4" PVC GATE VALVE (SCH 40)
NORMALLY OPEN
- Ⓨ 6" PVC 90° BEND (ASTM 3034)
- Ⓩ 6" GATE VALVE WITH
REMOVABLE HANDWHEEL
- ⓐ 4" PVC 45° EL (CL 200)
- ⓑ 4" ROMAC STYLE 501 COUPLING
- ⓓ 4" PVC GATE VALVE (SCH 40)
NORMALLY CLOSED
- ⓔ 4" DI 45° EL (RESTRAINED JOINT)
- ⓕ 5" PVC 45° BEND

RECORD DRAWING
Based upon final available information
and/or field construction.

Date: 01/08/04
By: M.A.N.
Checked By: H.E.S.

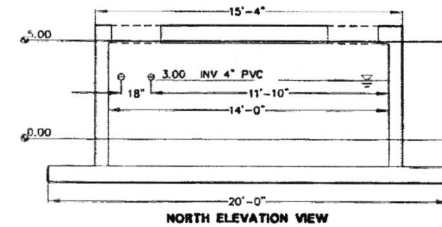
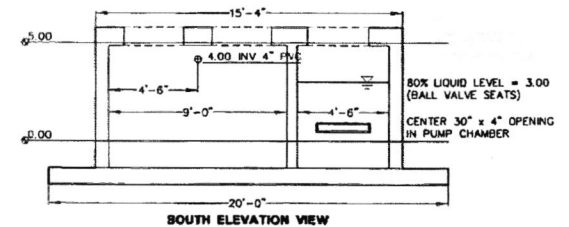
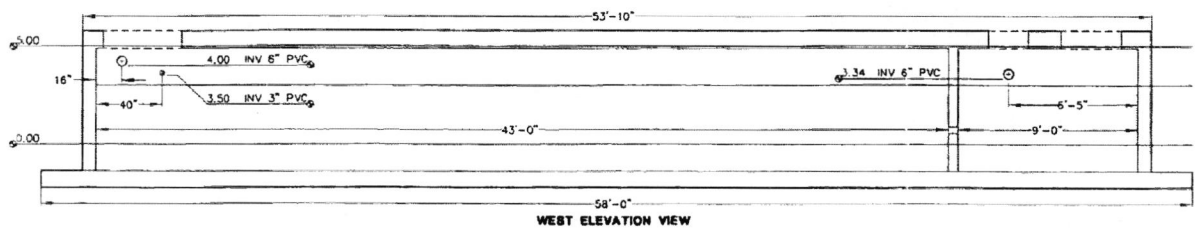
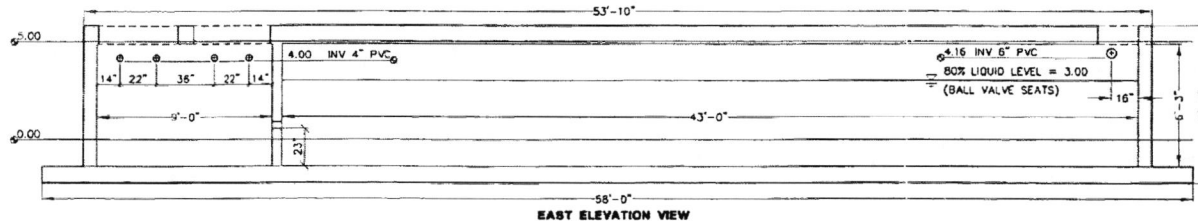
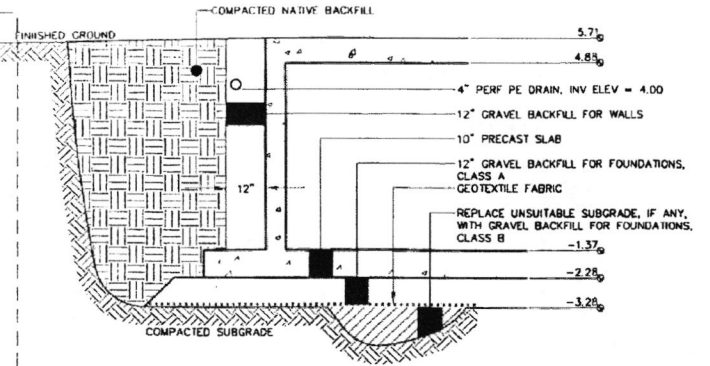
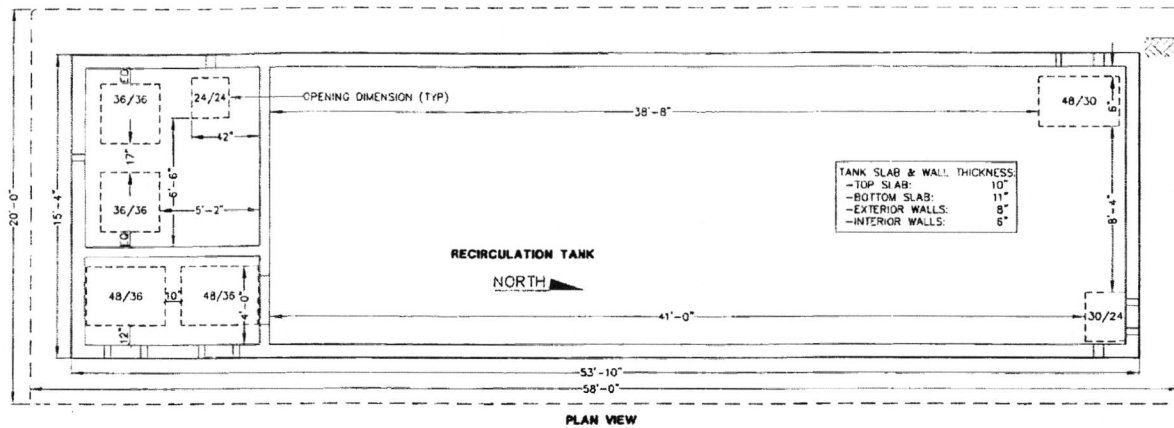
NO.	REVISIONS	BY	DATE
1	ADDENDUM #1 CHANGE TITLE	TC	05-01-98

Wilson Engineering
CONSULTING ENGINEERS & SURVEYORS

805 DUPONT STREET
BELLINGHAM, WA 98225
(360) 733-6100
FAX (360) 647-9061

DESIGNED BY: TC	Skagit Co. Clean Water District Edison Sub-Area PHASE I SEWER IMPROVEMENTS GRAVEL FILTER CROSS SECTIONS	DATE April 1998	SHEET 7	
DRAWN BY: TC		SCALE NO SCALE	OF 13	
CHECKED BY: MWC		JOB NUMBER R094277		
		EDISON	WASHINGTON	

P:\SVAC\11\CONV44077-1\PHASE 1\RECORD DRAWINGS\CDL.DWG, LAYOUT1, 03/03/04 11:35:44 AM, 0.5:1, BY: M. NAGEL



NOTES

- PIPE PENETRATIONS INTO THE TANK WALLS SHALL BE ACCORDING TO THE PLAN DETAIL.
- HATCHES SHALL ATTACH TO THE SURFACE OF THE TOP SLAB W/O BEING INTEGRALLY CAST INTO THE SLAB.

RECORD DRAWING
 Based upon field available information and/or other construction.
 Date: 01/08/04
 By: M.A.N.
 Checked By: H.E.S.

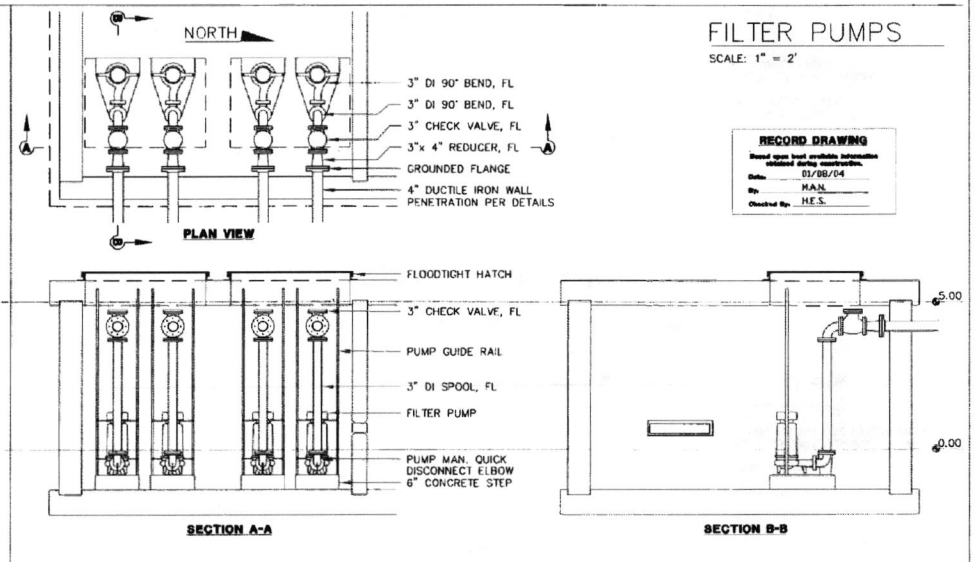
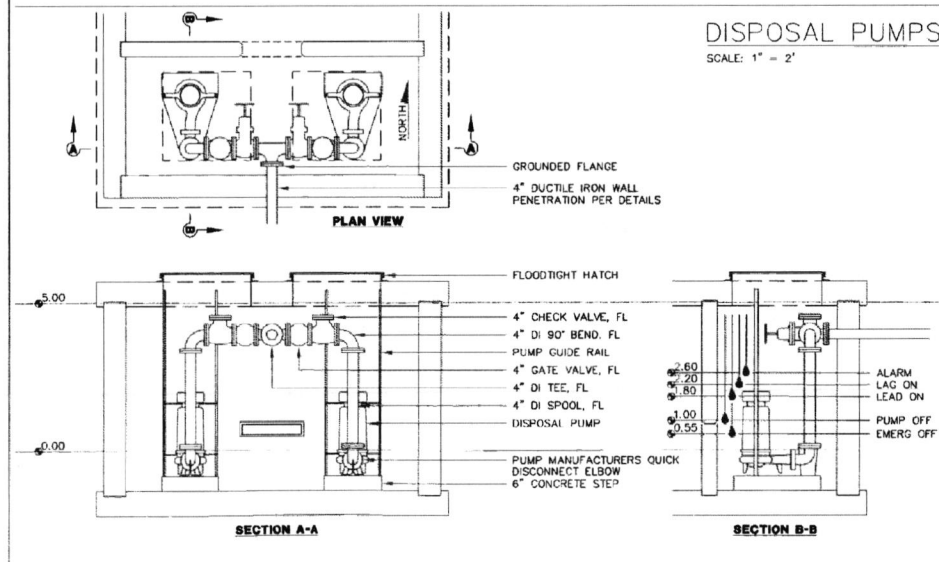
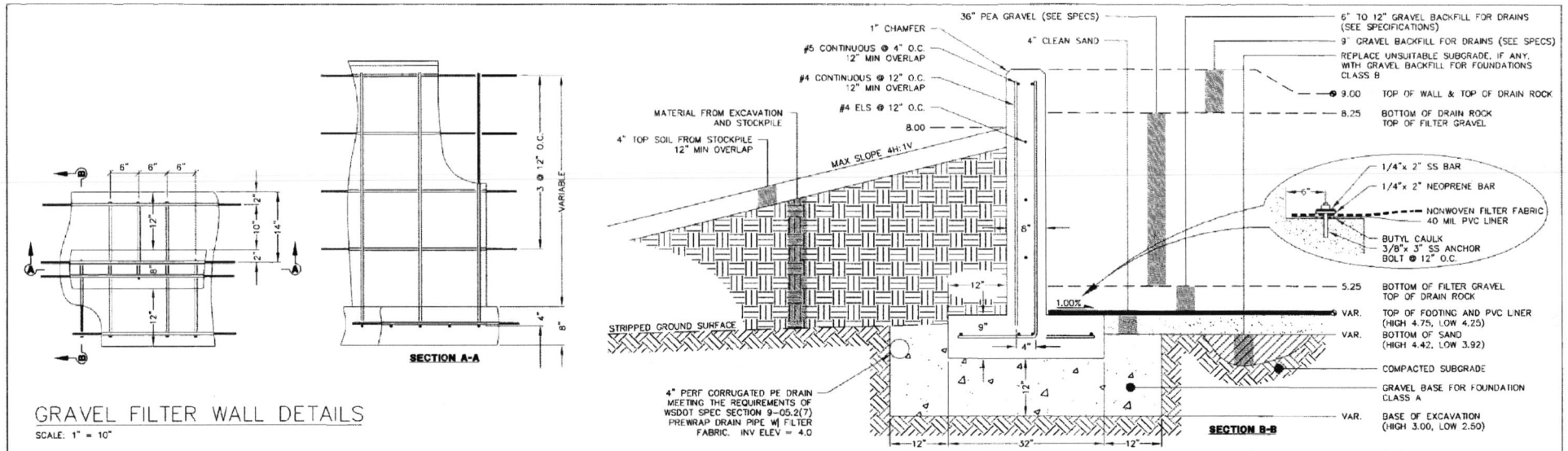
NO.	REVISIONS	BY	DATE
1	ADDITION #1 CHANGE TITLE	TC	05-28-98

Wilson Engineering
 CONSULTING ENGINEERS & SURVEYORS

805 DUPONT STREET
 BELLINGHAM, WA 98225
 (360) 733-6100
 FAX (360) 647-9061

DESIGNED BY: TC	Skagit Co. Clean Water District Edison Sub-Area PHASE I SEWER IMPROVEMENTS RECIRCULATION TANK ELEVATIONS RFP	DATE April 1998	SHEET
DRAWN BY: TC		SCALE 1" = 5'	8
CHECKED BY: MWC		JOB NUMBER 896497	OF
EDISON		WASHINGTON	12

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NO.	REVISIONS	BY	DATE
1	ADDENDUM #1 CHANGE SIZE	TC	05-01-98

Wilson Engineering
CONSULTING ENGINEERS & SURVEYORS

805 DUPONT STREET
BELLINGHAM, WA 98225
(360) 733-6100
FAX: (360) 647-9061

DESIGNED BY: TC
DRAWN BY: TC
CHECKED BY: MWC

Skagit Co. Clean Water District
Edison Sub-Area
PHASE I SEWER IMPROVEMENTS
FILTER WALL AND PUMP DETAILS

DATE	April 1996	SHEET	9
NO SCALE		OF	
JOB NUMBER	RFOP 9477		12
WASHINGTON			

DISPOSAL PUMPS NAMEPLATE DATA

PUMP #	1	2
MODEL #	S4PX750DC	S4PX750DC
SERIAL #	S28373	S28372
HP	7.5	7.5
S.F.	1.2	1.2
RPM	1750	1750
FLA	25.2	25.2
V	208	208
Ph	3	3
Hz	60	60
S.F.A.	29.5	29.5
OP. TEMP. CODE	T4	T4
DATE CODE	8-96	8-96
IMPELLER	7.50	7.50
CL. INSUL.	B	B
DESIGN	B	B
CODE	H	H

RECIRCULATION PUMPS NAMEPLATE DATA

PUMP #	1	2	3	4
MODEL #	S3HX300DC	S3HX300DC	S3HX300DC	S3HX300DC
SERIAL #	S28374	S28375	S28376	S28377
HP	3	3	3	3
S.F.	1.2	1.2	1.2	1.2
V	208	208	208	208
RPM	1750	1750	1750	1750
FLA	10.9	10.9	10.9	10.9
Ph	3	3	3	3
Hz	60	60	60	60
S.F.A.	12.8	12.8	12.8	12.8
OP. TEMP. CODE	T4	T4	T4	T4
IMPELLER	5.50	5.50	5.50	5.50
CL. INSUL.	B	B	B	B
DESIGN	B	B	B	B
CODE	J	J	J	J
BC	W	I	H	B
DATE CODE	8-96	8-96	8-96	8-96

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RECORD DRAWING
 Based upon best available information
 unless noted otherwise.
 Date: 01/08/04
 By: HAN
 Checked By: H.E.S.

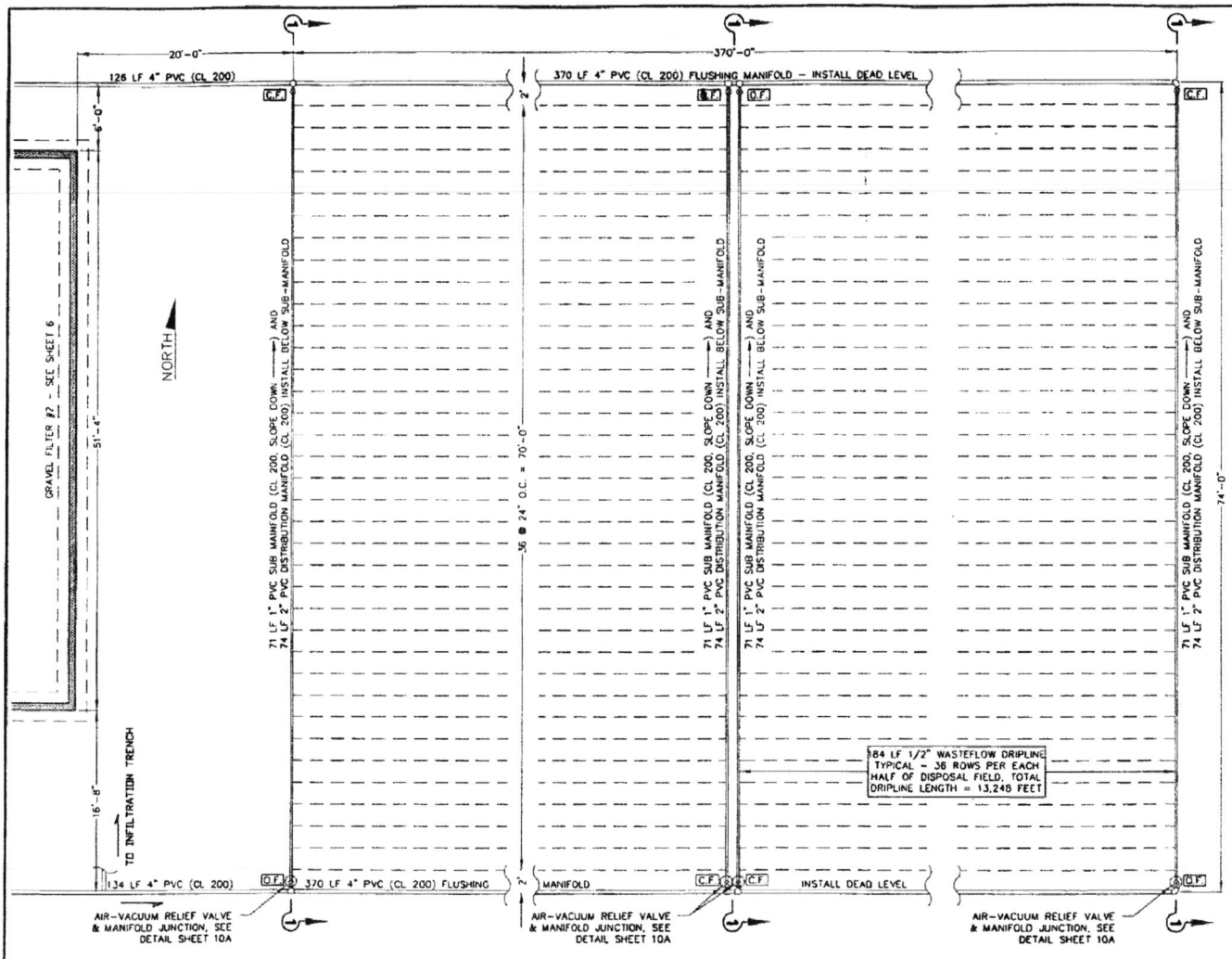
NO.	REVISIONS	BY	DATE
1	ADDENDUM #		09-09-98

Wilson Engineering
 CONSULTING ENGINEERS & SURVEYORS

805 DUPONT STREET
 BELLINGHAM, WA 98225
 (360) 733-6100
 FAX (360) 647-9061

DESIGNED BY: TC	Skagit Co. Clean Water District Edison Sub-Area PHASE I SEWER IMPROVEMENTS DISPOSAL AND RECIRCULATION PUMP DETAILS	DATE	APRIL 1996	SHEET		
DRAWN BY: TC		SCALE	NO SCALE	9A		
CHECKED BY: MWC		JOB NUMBER	1094071	OF	12	
		EDISON	WASHINGTON			

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- NOTES**
- 1) ALL MANIFOLD PIPING SIZED 2" AND UNDER SHALL BE SOLVENT WELDED CLASS 200 PVC (SUB-MANIFOLD AND DISTRIBUTION MANIFOLD)
 - 2) ALL 4" PIPE SHALL BE GASKETED CLASS 200 (FLUSHING AND SUPPLY MANIFOLD)
 - 3) ALL FITTINGS SHALL BE GLUE JOINT SCH 40
 - 4) WASTEFLOW DRIPLINES SHALL BE INSTALLED AS NEARLY LEVEL AS POSSIBLE. 1" SUB-MANIFOLD MUST BE INSTALLED AT UPHILL GRADIENT TO THE AIR-VACUUM VALVE
 - 5) ALL VALVES SHALL BE EQUIPPED WITH VALVE BOXES (UTILITY VAULT SERIES 910 OR EQUAL)
 - 6) 2" PVC BALL VALVES AND SOLENOID OPERATED VALVES SHALL REMAIN OPEN DURING NORMAL OPERATION. FOR THE FLUSH CYCLE, ALL VALVES ARE DESIGNATED EITHER **[O]** OR **[C]** FOR OPEN OR CLOSED DURING FLUSHING.
 - 7) REFER TO SHEET E-7 AND SIEMENS BUILDING 200 TECHNOLOGY DRAWING FOR ELECTRICAL DETAILS.

RECORD DRAWING

Based upon best available information obtained during construction.

Date: 01/28/04
 By: HAN
 Checked By: H.E.S.

DISPOSAL FIELD PLAN
 SCALE: 1" = 5' (FULL SCALE)

NO.	REVISIONS	BY	DATE
3	FINAL DOC COMMENTS	TC	08-13-96
2	CHANGES TO PLUMBING DETAILS	TC	07-03-96
1	ADDENDUM #1, RECONFIGURE DISPOSAL FIELD	TC	02-01-96

Wilson Engineering
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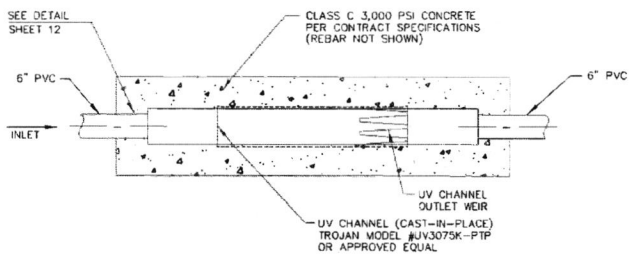
805 DUPONT STREET
 BELLINGHAM, WA 98225
 (360) 733-6100
 FAX: (360) 647-9061

DESIGNED BY: TC
 DRAWN BY: TC
 CHECKED BY: MNC

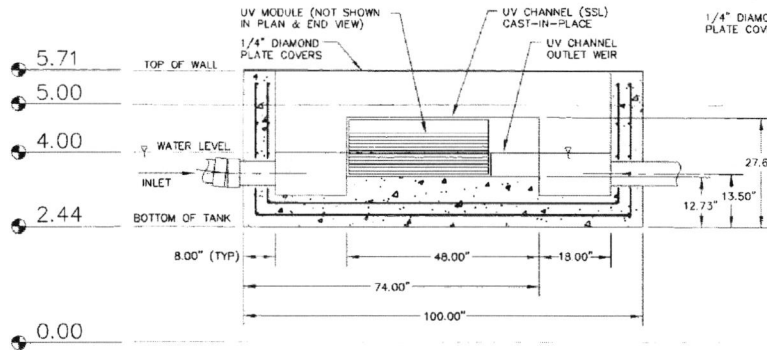
Skagit Co. Clean Water District
Edison Sub-Area
PHASE I SEWER IMPROVEMENTS
DISPOSAL FIELD DETAILS
PLAN

DATE	SHEET
April 1998	10
SCALE	NO SCALE
OF	OF
RFQ NUMBER	12
84077	

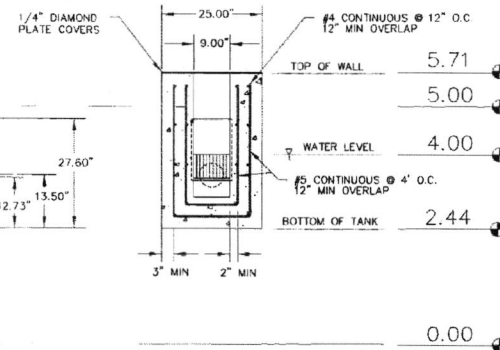
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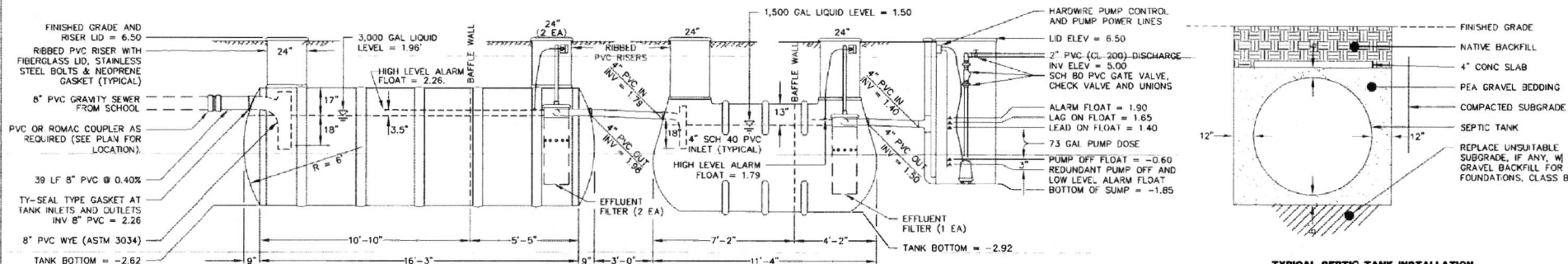
UV CHANNEL - PLAN VIEW



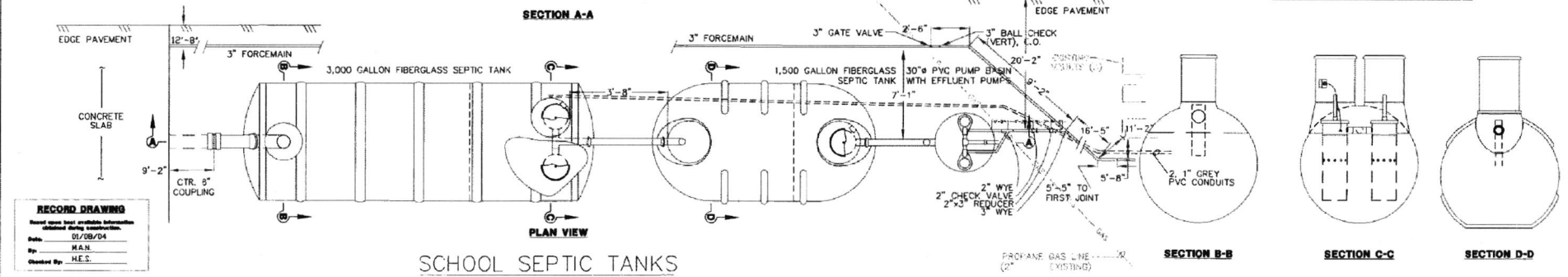
UV CHANNEL - SIDE VIEW



UV CHANNEL - END VIEW



TYPICAL SEPTIC TANK INSTALLATION

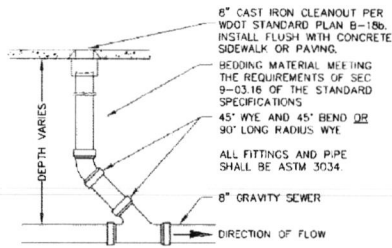


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 Date: 02/08/04
 By: M.A.N.
 Checked By: H.E.S.

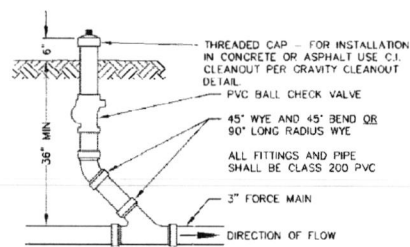
Wilson Engineering
 CONSULTING ENGINEERS & SURVEYORS

305 DUPONT STREET
 BELLINGHAM, WA 98225
 (360) 733-6100
 FAX (360) 647-9061

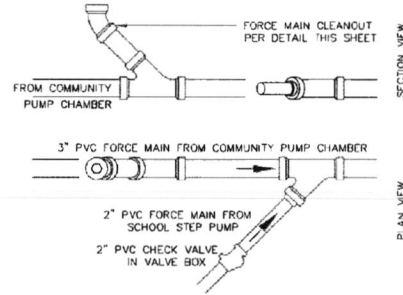
DESIGNED BY:	TC	Skagit Co. Clean Water District	DATE	April 1996	SHEET
DRAWN BY:	TC	Edison Sub-Area	SCALE	NO SCALE	11
CHECKED BY:	MNC	PHASE I SEWER IMPROVEMENTS			OF
		SCHOOL SEPTIC TANK & UV DETAILS	JOB NUMBER	RFQ# 94077	12
		EDISON	WASHINGTON		



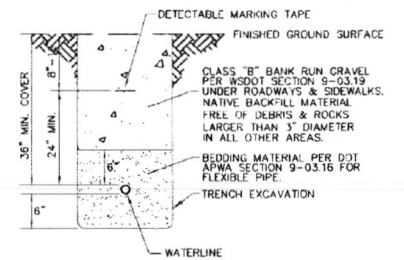
1 GRAVITY CLEANOUT



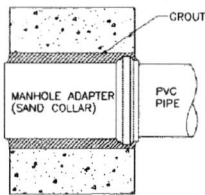
2 FORCE MAIN CLEANOUT



3 PIPE JUNCTION DETAIL

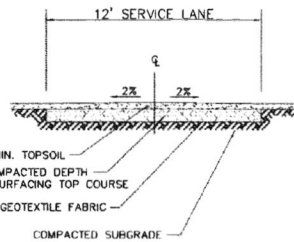


4 WATERLINE TRENCH SECTION



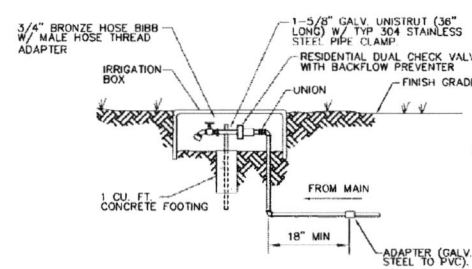
NOTE: ALL PVC INSTALLATIONS THROUGH CONCRETE WALLS OR FLOORS SHALL CONFORM TO THIS DETAIL.

5 PVC INSTALLATION THROUGH WALL OR FLOOR

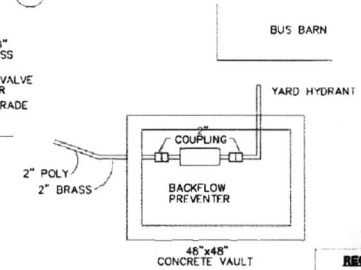


NOTE: GRADE TRANSITION FROM EDGE OF SERVICE LANE TO SURROUNDING AREAS AT A MAXIMUM SLOPE OF 1:3.

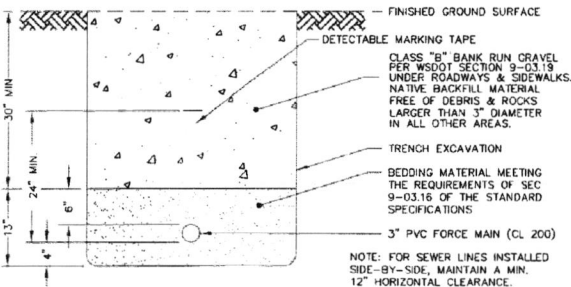
6 SERVICE LANE CROSS-SECTION



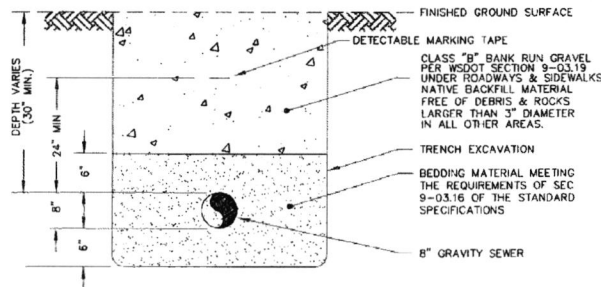
7 IRRIGATION BOX DETAIL



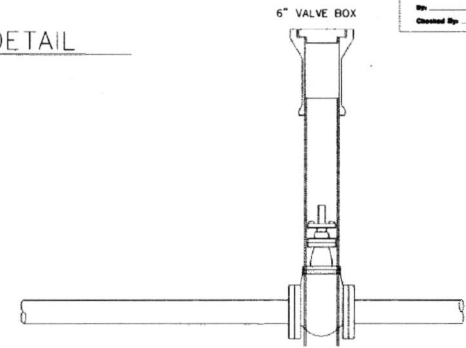
RECORD DRAWING
 Based upon last available information
 updated during construction.
 Date: 01/08/04
 By: M.A.N.
 Checked By: H.E.S.



8 FORCE MAIN TRENCH SECTION



9 GRAVITY SEWER TRENCH SECTION



10 VALVE BOX INSTALLATION

NO.	ADDENDUM #	CHANGE TITLE	IC	DATE
1			IC	05-21-96
			BY	DATE

Wilson Engineering
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805 DUPONT STREET
 BELLINGHAM, WA 98225
 (360) 733-6100
 FAX: (360) 647-9061

DESIGNED BY: TC
 DRAWN BY: TC
 CHECKED BY: MWC

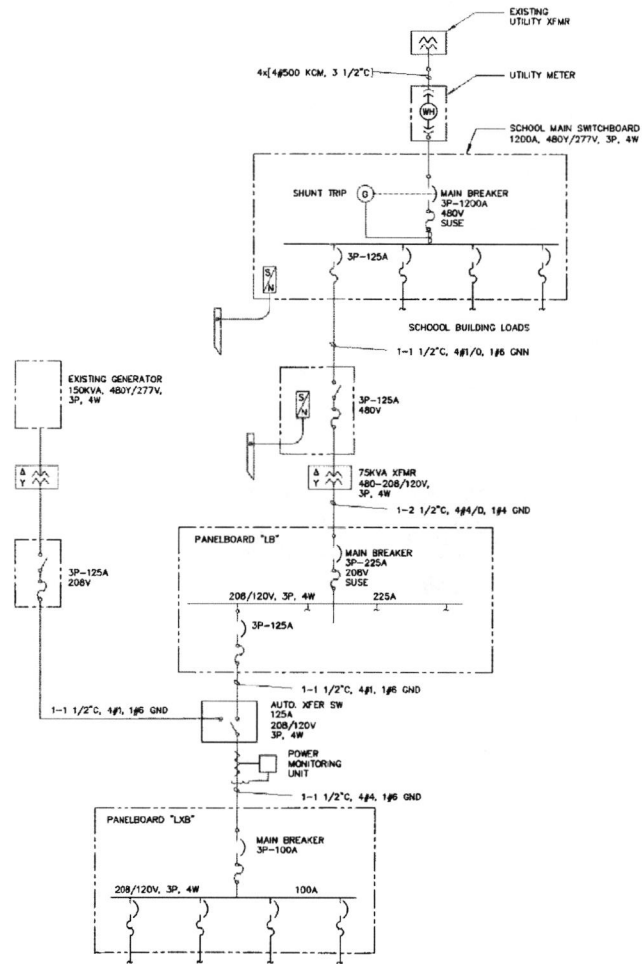
Skagit Co. Clean Water District
 Edison Sub-Area
 PHASE I SEWER IMPROVEMENTS
 MISCELLANEOUS DETAILS

EDISON

DATE	SHEET
April 1996	12
SCALE	OF
JOB NUMBER	12

RFOPage 4877
 WASHINGTON

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PHASE 1 ONE-LINE DIAGRAM
NOT TO SCALE

**ONE LINE DIAGRAM
SYMBOL SCHEDULE**

SYMBOL	DESCRIPTION
	DEVICE OR EQUIPMENT TERMINAL
	BUSSING CONNECTION
	BUS
	WIRING
	WIRING CONNECTED/SPLICED
	EQUIPMENT/DEVICE ENCLOSURE
	PLUG-IN CONNECTION
	MAGNETIC ONLY BREAKER
	THERMAL ONLY BREAKER
	THERMAL MAGNETIC BREAKER
	SWITCH
	FUSED SWITCH
	POWER TRANSFORMER
	CONTROL POWER TRANSFORMER
	CURRENT TRANSFORMER
	THERMAL OVERLOAD
	CONTACTOR
	CAPACITOR
	GROUND CONNECTION
	HAND-OFF-AUTO SWITCH
	OFF-ON SWITCH
	VOLTAGE RELAY
	TIMING RELAY
	CONTROL RELAY
	FLOAT SWITCH
	SOLENOID VALVE
	FLOW INDICATING TRANSMITTER
	LIMIT SWITCH
	TORQUE SWITCH
	CONTROL STATION
	RESET SWITCH
	VOLTAGE METER
	0-900V (SCALE/RANGE)
	WATT HOUR METER
	0-500W (SCALE/RANGE)
	GENERATOR
	SOLID NEUTRAL
	SAFETY DISCONNECT IN NEMA 4X ENCL. UNLESS OTHERWISE NOTED
	AUXILIARY CONTACT

ELECTRICAL SHEET INDEX

SHEET No.	DESCRIPTION
E-1	ELECTRICAL SHEET INDEX, ONE-LINE DIAGRAM, AND ONE-LINE DIAGRAM SYMBOL SCHEDULE
E-2	CENTRAL ELECTRICAL SITE PLAN
E-3	BUS BARN SOUTH WALL PANEL ELEVATIONS
E-4	BUS BARN FIRE PUMP ROOM NORTH AND EAST WALL PANEL ELEVATIONS
E-5	BUS BARN FIRE PUMP ROOM SOUTH AND WEST WALL PANEL ELEVATIONS
E-6	TREATMENT PLANT CONDUIT SCHEDULE
E-7	DRIP DISPOSAL FIELD CONDUIT SCHEDULE
E-8	PANELBOARD LB AND LBX SCHEDULES
E-9	RECIRCULATION PUMP ELECTRICAL PANEL SCHEMATIC
E-10	DISPOSAL PUMP ELECTRICAL PANEL SCHEMATIC (PAGE 1 OF 2)
E-10A	DISPOSAL PUMP ELECTRICAL PANEL SCHEMATIC (PAGE 2 OF 2)
E-11	DRAIN FIELD CONTROL PANEL ELEMENTARY DIAGRAM

SIEMENS'S BUILDING TECHNOLOGY DRAWING 100: GRAVEL FILTER

SIEMENS'S BUILDING TECHNOLOGY DRAWING 200: DRIP DISPOSAL AND EXPANDED DISPOSAL FIELD SCHEMATICS

SIEMENS'S BUILDING TECHNOLOGY DRAWING 830-PN-9373: CONTROL PANEL SCHEMATIC

VALLEY ELECTRIC DRAWING: EDISON ELEMENTARY SCHOOL HIGH LEVEL ALARMS AND SEWAGE CONTROL SYSTEM

RECORD DRAWING
Should open next available information obtained during construction.
Date: 01/05/04
By: M.A.N.
Checked By: H.E.S.

0 1" 2"
TWO INCHES AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY.

Gray & Osborne, Inc.
CONSULTING ENGINEERS
137 SOUTH THIRD STREET
TAMPA, FLORIDA 33601-1001 (813) 433-4833

DATE: SEPT 2003
SCALE: NOTED
DRAWN: P.M.
CHECKED: P.M.
APPROVED: K

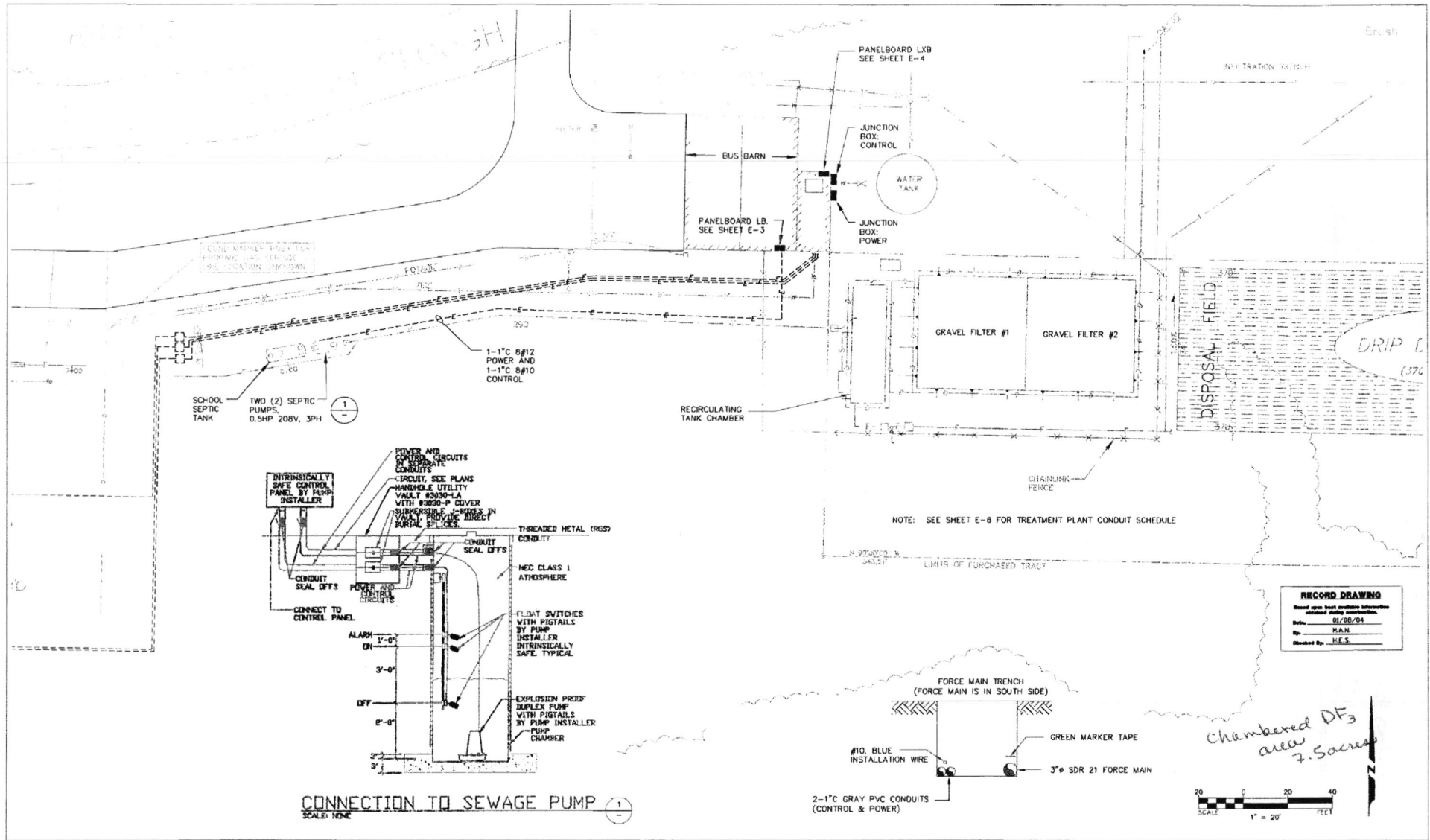
DATE APPD
REVISION

REVISION

SKAGIT CO. CLEAN WATER DISTRICT: WASHINGTON
EDISON SUBAREA
SKAGIT COUNTY
WASTEWATER TREATMENT FACILITY
ELECTRICAL SHEET INDEX, ONE-LINE DIAGRAM, AND ONE-LINE DIAGRAM SYMBOL SCHEDULE

SHEET: **E-1**
OF: **11**
JOB NO. 01410
DATE: 01/05/04
DRAWN: M.A.N.
CHECKED: H.E.S.

PLSKAGITC0191077 PHASE I RECORD DRAWING E-2 DWG. LAYOUT. 03/03/04. 2:03:45 PM. 0.51. BY: M. NUGEL



NO.	REVISIONS	BY	DATE
1	ADDENDUM #1, REMOVE WATER SERVICE AND RECONFIGURE DISPOSAL FIELD	TC	05-01-04

Wilson Engineering
CONSULTING ENGINEERS & SURVEYORS

805 DUPONT STREET
BILLINGHAM, WA 98225
(360) 733-6100
FAX: (360) 647-9061

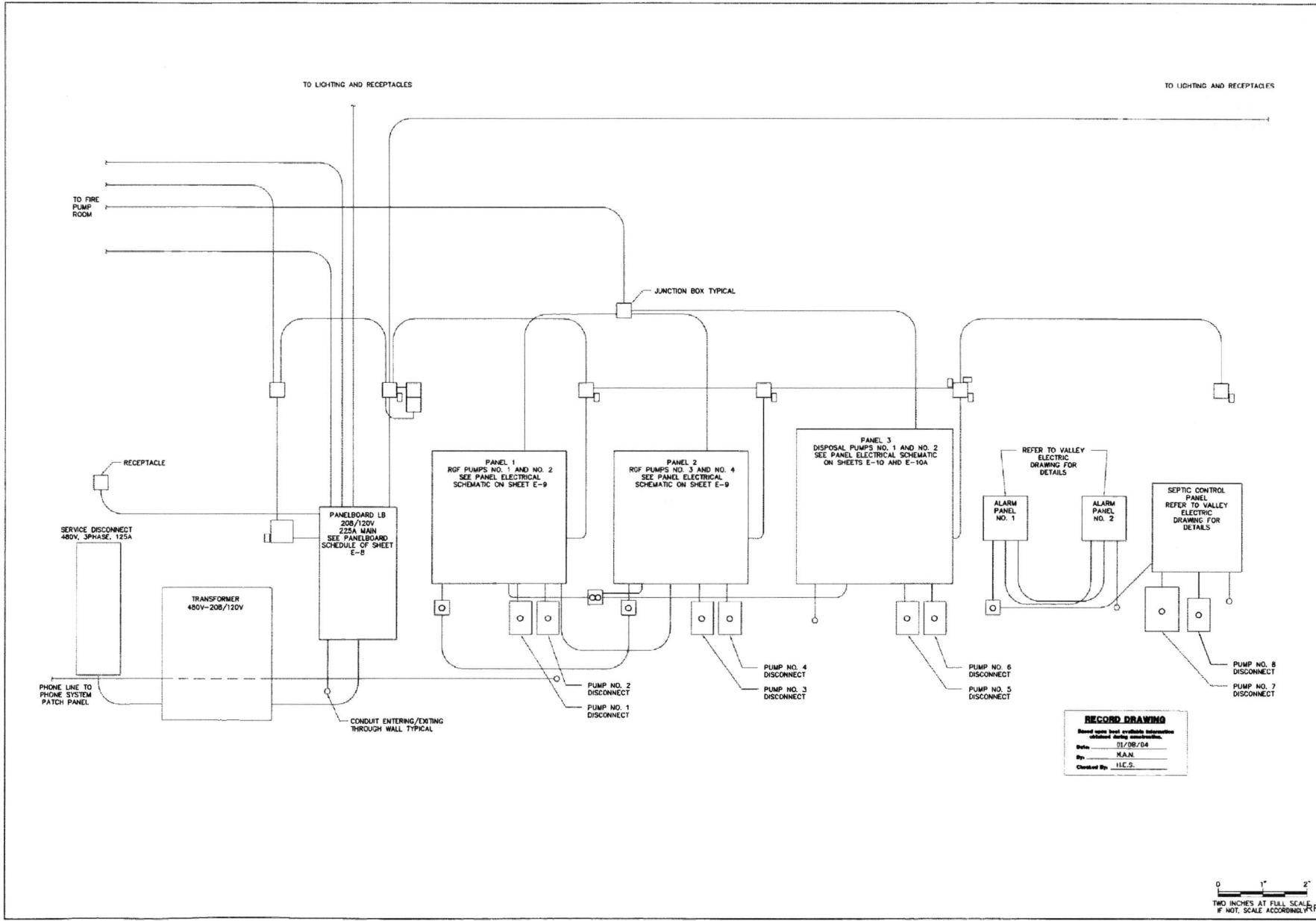


DESIGNED BY: TC
DRAWN BY: TC
CHECKED BY: MWC
EDISON

Skagit Co. Clean Water District
Edison Sub-Area
PHASE I SEWER IMPROVEMENTS
CENTRAL ELECTRICAL SITE PLAN

DATE: April 1996
SCALE: 1" = 20'
JOB NUMBER: RFP 0194077
SHEET: E-2 OF 11
WASHINGTON

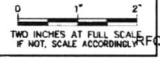
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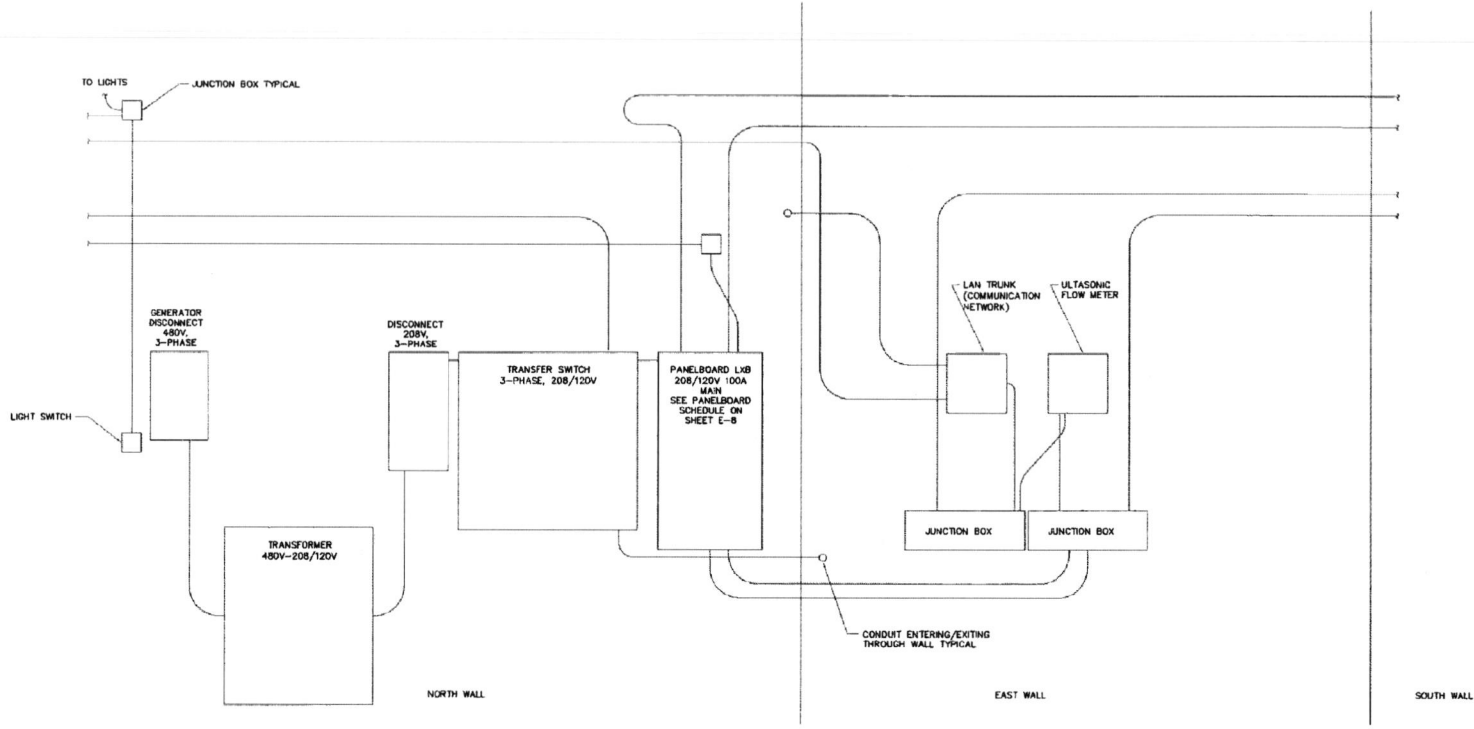
DATE: SEPT 2003	SCALE: NOTED	DESIGNED: PAM	APPROVED: X
		CHECKED: PAM	
		DATE: APR 04	
		REVISION	
		NO.	

SKAGIT CO. CLEAN WATER DISTRICT
 EDISON SUBAREA WASHINGTON
 SKAGIT COUNTY
WASTEWATER TREATMENT FACILITY
 BUS BARN SOUTH WALL PANEL ELEVATION

SHEET: E-3
OF: 11
JOB NO.: 01410
DATE: 01/08/04
DWG. NO.: E-3



P:\ASKAG\TC019\077-PHASE 1\RECORD DRAWINGS\E-4.dwg; LAYOUT, 03/03/04, 12:04:22 PM, 0.5:1, BY: M. NAGEL



RECORD DRAWING
 Based upon most available information
 obtained during construction.
 Date: 01/09/04
 By: M.A.N.
 Checked by: H.E.S.

0 1" 2"
 TWO INCHES AT FULL SCALE
 IF NOT, SCALE ACCORDINGLY

Gray & Osborne, Inc.
 CONSULTING ENGINEERS
 107 300TH AVE STREET
 YVEMA, WASHINGTON 98971 (206) 652-4033

DATE: SEPT 2003	SCALE: NOTED	DRAWN: PAM	CHECKED: PAM	APPROVED: X
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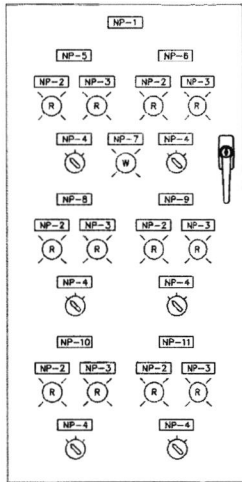
NO.	REVISION	DATE	APPD.

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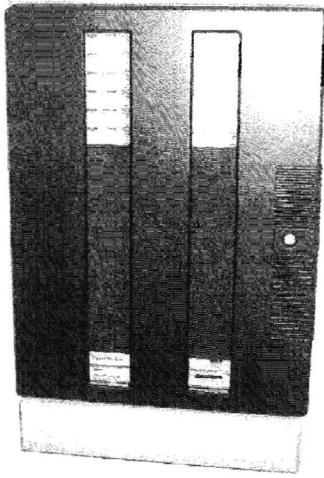
SKAGIT CO. CLEAN WATER DISTRICT:
 EDISON SUBAREA WASHINGTON
 SKAGIT COUNTY
WASTEWATER TREATMENT FACILITY
 BUS BARN FIRE PUMP ROOM NORTH AND EAST WALL PANEL ELEVATIONS

SHEET: **E-4**
 OF: **11**
 JOB NO. 07410
 SHEET 42
 E-4

M:\SKAGIT\094\077-PHASE I\RECORD DRAWINGS\E-5.DWG. LAYOUT, 03/03/04, 12:06:41 PM, 0.5:1, BY: M. NAGEL



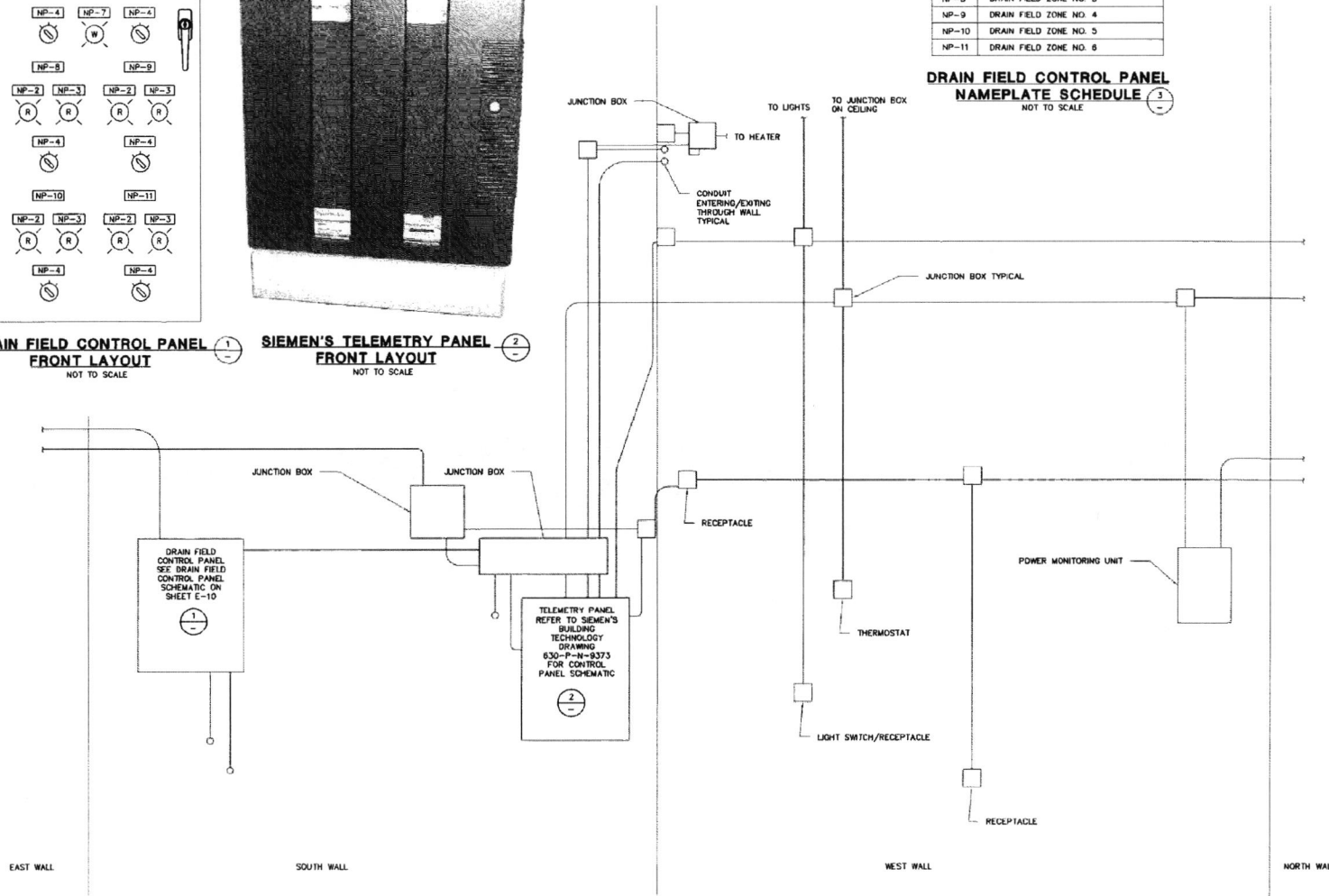
DRAIN FIELD CONTROL PANEL FRONT LAYOUT 1
NOT TO SCALE



SIEMENS TELEMETRY PANEL FRONT LAYOUT 2
NOT TO SCALE

NP-1	DRAIN FIELD CONTROL PANEL
NP-2	SOLENOID VALVE OPEN
NP-3	HIGH GROUND WATER LEVEL
NP-4	HAND OFF AUTO
NP-5	DRAIN FIELD ZONE NO. 1
NP-6	DRAIN FIELD ZONE NO. 2
NP-7	120VAC POWER
NP-8	DRAIN FIELD ZONE NO. 3
NP-9	DRAIN FIELD ZONE NO. 4
NP-10	DRAIN FIELD ZONE NO. 5
NP-11	DRAIN FIELD ZONE NO. 6

DRAIN FIELD CONTROL PANEL NAMEPLATE SCHEDULE 3
NOT TO SCALE



RECORD DRAWING
Revised upon receipt of field information unless clearly indicated otherwise.
 Date: 03/03/04
 By: M.A.N.
 Checked By: H.E.S.

0 1" 2"
 TWO INCHES AT FULL SCALE.
 IF NOT, SCALE ACCORDINGLY.

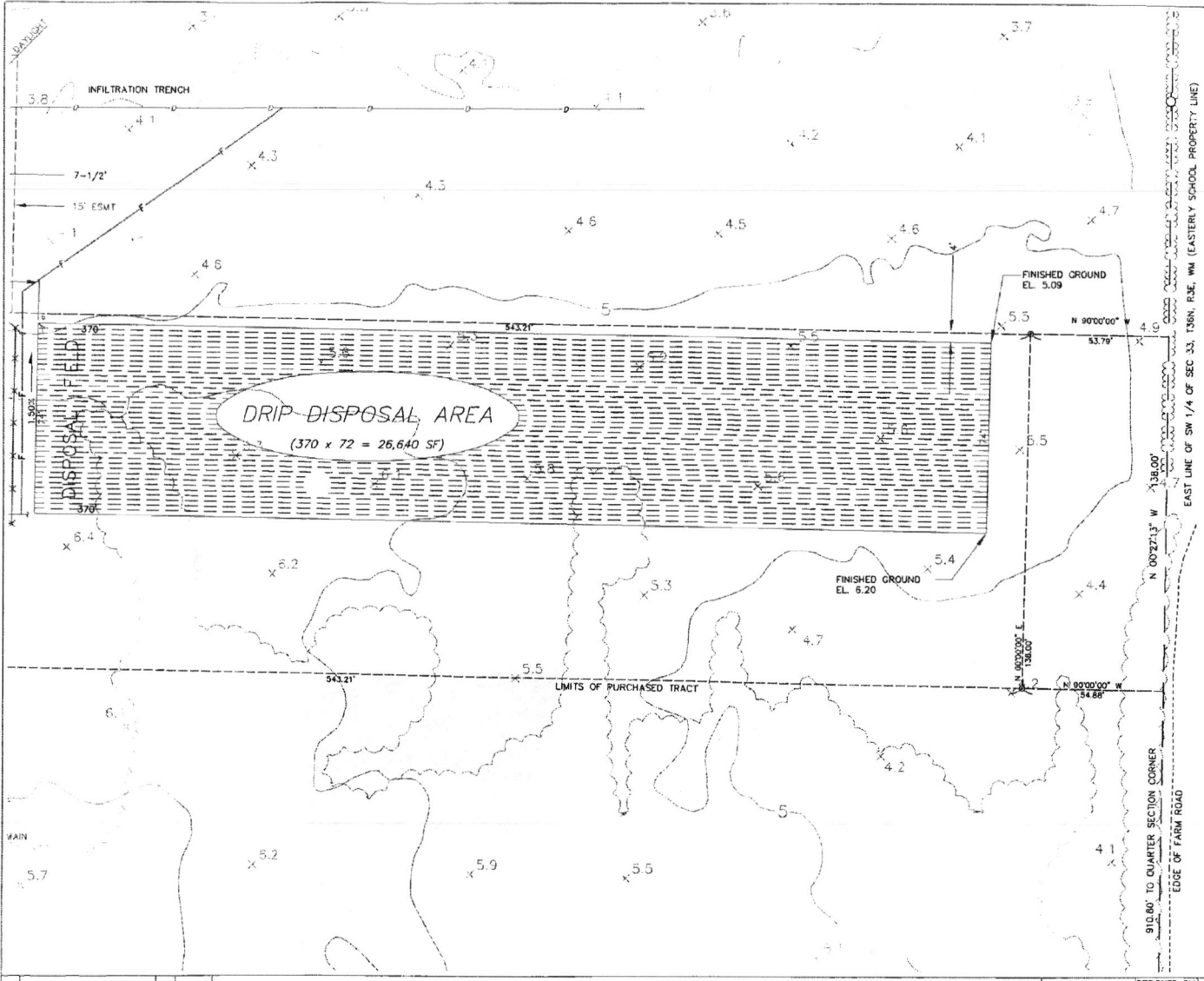


DATE: SEPT. 2003	NOTED:	DATE: APPD:
SCALE:	NOTED:	DATE: APPD:
DRAWN: P.M.	CHECKED: P.M.	REVISION:
APPROVED: X		No.

SKAGIT CO. CLEAN WATER DISTRICT: WASHINGTON
 EDISON SUBAREA
 SKAGIT COUNTY
WASTEWATER TREATMENT FACILITY
 BUS BARN FIRE PUMP ROOM SOUTH AND WEST WALL PANEL ELEVATIONS

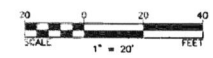
SHEET: **E-5**
 OF: **11**
 JOB NO. D1410
 DATE: 03/03/04
 DRAWN: E-5

P:\SKAGIT\69107\FPH\PHASE I\RECORD DRAWINGS\COS.DWG, LAYOUT, 03/03/04, 11:26:35 AM, 0.51 BY: M. NIBBELT
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NOTE: SEE SHEET 4 FOR LEGEND AND SHEET 10 FOR DRIP DISPOSAL FIELD PLAN

RECORD DRAWING
 Read your best available information before making construction.
 Date: 01/28/04
 By: M.A.M.
 Checked By: H.E.S.



NO.	REVISIONS	BY	DATE
1	AMENDMENT #1 RECONFIGURE DISPOSAL FIELD	TC	03-01-04

Wilson Engineering
 CONSULTING ENGINEERS & SURVEYORS

805 DUPONT STREET
 BELLINGHAM, WA 98225
 (360) 733-6100
 FAX: (360) 647-9061

DESIGNED BY: TC
 DRAWN BY: TC
 CHECKED BY: MWC

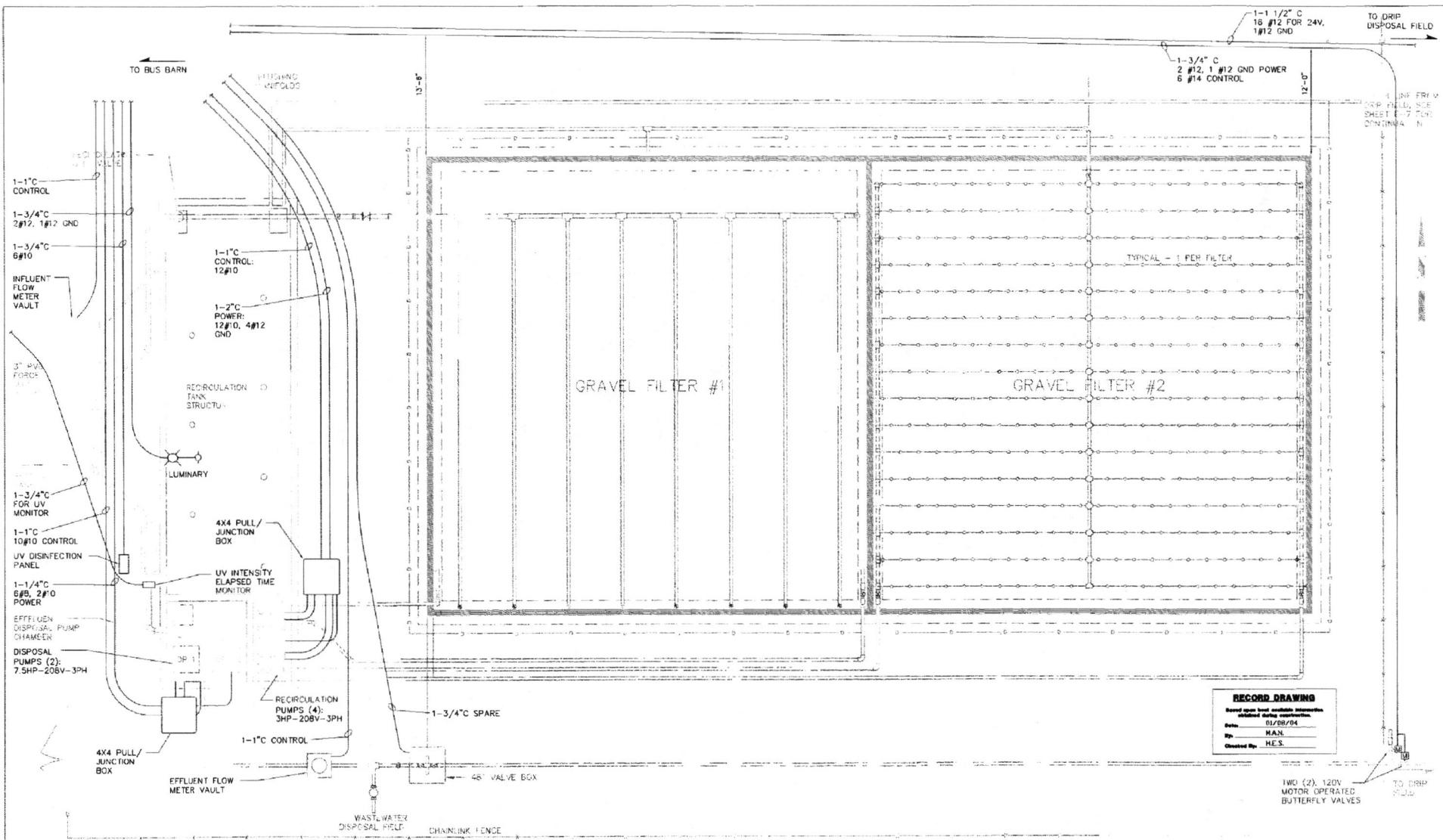
Skagit Co. Clean Water District
 Edison Sub-Area
 PHASE I SEWER IMPROVEMENTS
 EAST SITE PLAN

DATE	SHEET
April 1996	5
SCALE	OF
1" = 20'	12
JOB NUMBER	
RECD 04/27/96	

EDISON

WASHINGTON

M:\SKAGIT\CONV\077-PHASE I\RECORD DRAWINGS\E-6 DWG. LAYOUT, 03/03/04 12:06:50 PM, 0.51, BY: M. NAGEL



RECORD DRAWING
 Based upon best available information.
 Modified during operation.
 Date: 03/03/04
 By: M.N.
 Checked By: H.E.S.

NO.	REVISIONS	BY	DATE
1	ADDITIONAL FT. REMOVE FEELER AND ADD MISCELLANEOUS DIMENSIONS		

Wilson Engineering
 CONSULTING ENGINEERS & SURVEYORS

805 DUPONT STREET
 BELLINGHAM, WA 98225
 (360) 733-6100
 FAX (360) 647-9061

DESIGNED BY: TC	Skagit Co. Clean Water District Edison Sub-Area PHASE I SEWER IMPROVEMENTS TREATMENT PLANT CONDUIT SCHEDULE EDISON	DATE April 1996	SHEET
DRAWN BY: TC		SCALE NO SCALE	E-6 OF
CHECKED BY: MWC		JOB NUMBER 9497	11
		WASHINGTON	

2.5 UV DISINFECTION SYSTEM

2.5.1 UNIT PROCESS DESCRIPTION

Ultraviolet (UV) disinfection uses ultraviolet light to disinfect wastewater. UV light is defined as electromagnetic radiation having a wavelength less than that of visible light (400 nanometers) and greater than that of x-rays (100 nanometers). The low pressure mercury lamp is the principal means of generating UV light for disinfection systems. The mercury lamp is used because 85 percent of the light output is monochromatic at a wavelength of 253.7 nanometers (nm), which is within the optimum range (250 nm to 270 nm) for germicidal effects. To produce UV energy, the lamp, which contains mercury vapor, is charged by striking an electric arc. The excitation of the mercury vapor contained in the lamp results in the emission of UV light.

UV light causes a rearrangement (mutation) in the genetic code of microorganisms. Microorganisms are single-celled organisms which are made up of molecules. Deoxyribonucleic acid (DNA) and ribonucleic acid (RNA) are chain-like macromolecules that function in the storage and transfer of a cell's genetic information. Photochemical changes induced by UV radiation on the DNA of an organism primarily involve the dimerization of the two pyrimidine molecules. Dimerization occurs when two adjacent molecules form new bonds such that a double molecule is formed.

Formation of many double molecules along a DNA strand makes replication very difficult. UV light penetrating the DNA of a microorganism can also cause death in the organism.

Because only ultraviolet radiation reaches the bacteria, it is effective in altering the genetic material. However, visible and invisible particles can shield the bacteria from exposure to UV radiation.

UV transmittance is defined as the percentage of UV light at 254 nm not absorbed after passing through 1 cm of effluent sample. The percent transmittance depends on the amount and type of dissolved and suspended matter in the water. Reduced transmittance lowers the intensity of the light in the liquid, thus requiring longer exposure time in order to deliver the proper UV dose. The visual clarity of a water sample is not always a good indicator of its UV transmittance since water that is clear to visible light may absorb invisible ultraviolet wavelengths.

Effluent flow from the recirculation tank flows into the ultraviolet disinfection system. The flow passes through a 6-inch pipe and into a stainless steel channel which houses the UV lamps. The design criteria and equipment data for the UV disinfection system can be seen in Table 2.5.

TABLE 2.5

UV Disinfection System Design Criteria

Manufacturer	Trojan
Model No.	3075K-PTP
Peak Instantaneous Flow	45 gpm
Ultraviolet Flow Capacity	64,800 gpd
Total Suspended Solids	15 mg/L
Ultraviolet Transmittance @ 245.7 nm	60%
Effluent Standards (FC/100 ml, 30 day avg.)	100
No. of Lamps/Module	2
No. of Modules	3
UV Dosage @ 1 year	2.75 mW – sec/cm ²
Rated Power Requirements	263 watts

2.5.2 OPERATION AND MAINTENANCE

GENERAL

The indicators and controls for the UV disinfection system are located adjacent to the UV tank.

MAINTENANCE

The frequency of cleaning required for the UV tank will depend on the quality of effluent from the upstream processes and the chemical constituents. Fouling of the quartz sleeves occurs when charged particles adhere to their surface. As the coating builds, the UV light's intensity diminishes to where the buildup has to be removed for the system to remain effective. Cleaning should occur when there is a buildup on the quartz sleeves. The UV modules are removed from the channel and allowed to air dry. Each lamp is then wiped down with paper towels and cleaning solution (Lime-A-Way). Special care should be taken in handling the UV modules so that they are not damaged.

The effluent fecal coliform should not exceed 100/100 ml. If effluent analyses show fecal coliform counts approaching this level, the lamps should be cleaned. If cleaning does not subsequently reduce the fecal coliform count, then the lamps must be replaced.

The recommended maintenance schedule for the optimal operation of the UV system is to clean the lamps monthly and replace them annually.

START UP

The UV disinfection system can be started by closing the breakers. The operator should follow detailed start-up procedures in the manufacturers operation and maintenance manual to start the system.

SHUT DOWN

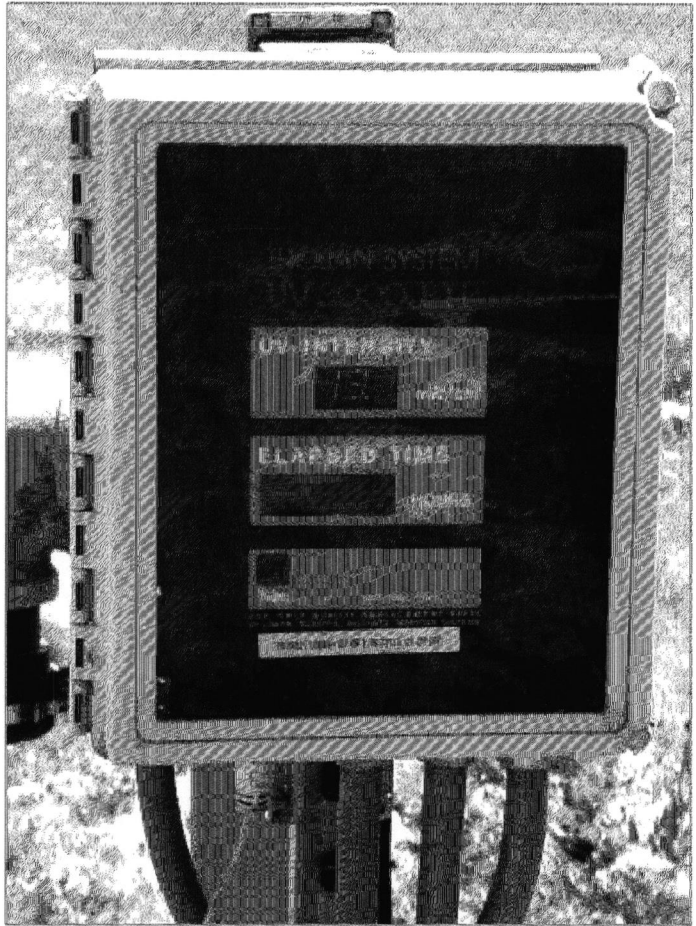
The UV disinfection system cannot be bypassed nor is there a valve in place to isolate the UV system.

OPERATIONAL PROBLEMS

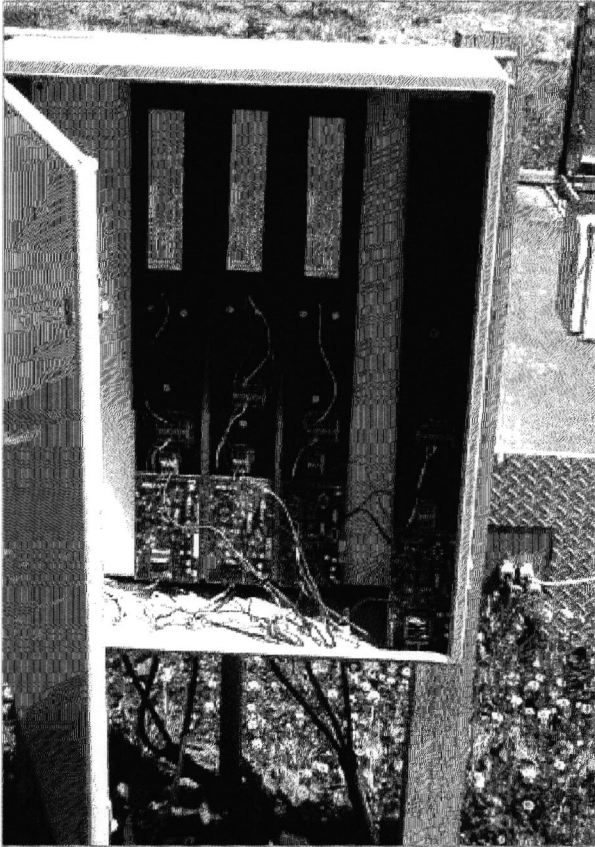
The manufacturer's manual should be consulted if operational problems occur with the ultraviolet disinfection equipment. Spare UV lamps have been provided in case one of the lamps fails or is broken.

For lamp replacement or cleaning, the individual modules must first be disabled by disconnecting the plug at the UV panel. The preferred sequence is to disable the two (2) outside modules, clean, and/or reinstall the modules. Then, repeat these steps with the middle, or third, module.

Trojan Technologies:
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Portland, Oregon 97205
Tel. (503) 223-6197
Fax (506) 223-0845
whreilly@whreilly.com



MONITORING INTERFACE



BALLAST ENCLOSURE

**SKAGIT COUNTY – EDISON
SUB-AREA**

**FIGURE 2.5
UV DISINFECTION SYSTEM**



Gray & Osborne, Inc.
CONSULTING ENGINEERS