SEWER CONNECTION PACKET

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CITY OF WASILLA

•Public Works Department•

290 East Herning Avenue • Wasilla • Alaska • 99654-7091

• Telephone 907-373-9010 • Fax 907-373-9011 •

The purpose of this packet is twofold. One is to provide the sewer customer with required information concerning City Code and two is to provide the customer with an over view of the sewer connection process.

Wasilla Municipal Code Chapter 13.08 Sewer Service System, requires that any property within 150 feet of an existing sewer main line to connect to the city sewer.

The process of obtaining a service connection by a property owner is covered in the following phases of, application, construction and final acceptance of system by the City.

APPLICATION

The applicant must provide the legal description of the property and legal property owner.

The applicant must provide a site plan and proposed use of the site. i.e. residential single family, multi-family, commercial, well radius, septic tank placement, etc.

Applicant must complete and return the enclosed sewer connection application, sewer utility service application and pay the required connection charge of $520 for a standard S.T.E.P. connection or $260 for a gravity community systems or individual connection to a gravity line governed by the city.

The property owner may be required to pay a payment in lieu of assessment if the property was not included in the original assessment district. These costs are $800 for residential. Commercials are based on $4.00 per gallon per day average daily usage as determined by City staff.

The cost of monthly service is calculated by gallons, charged at $10.32 per thousand gallons with a 0-5,000 gallon minimum charge for all service metered. Non-metered sewer only residential service with no more than 3 dwelling units is charged a flat rate of $65.61 per unit. All nonresidential facilities are required to use the metered rate. Once the onsite septic system is installed to Wasilla Standard Specifications and or receives Alaska Department of Environmental Conservation operational approval, the city will maintain all equipment from the septic tank forward, including pump controls.

The property owner is required by City Code to provide power for the system. Power will be directly feed from the main service feed, not run through an internal breaker. Prior to the pump control panel a separate disconnect box will be installed.

Septic tank maintenance is performed on a regular basis as determined by water usage, class and average daily flow. A class I service is scheduled to be pumped every 3 years depending on usage. A class II system is scheduled to be pumped every 2 years depending on usage. A class ii system that exceeds 60,000 gallons per month may be placed on an annual schedule.
The City can and does require more frequent pumping of the septic tank by the property owner due to heavy rates of solids loading.

CONSTRUCTION

The City will review the applications and make a determination to approve the design or request that the owner needs to have the system designed by a state approved engineer.

The property owner is required to obtain the services of a contractor for the installation of the onsite S.T.E.P. sewer system.

The City requires that Wasilla Standard Specifications and Alaska Department of Environmental Conservation regulations be adhered to during construction of the on-site system. Compliance with all applicable codes during installation and construction of the on-site system i.e. electrical, plumbing, safety should be followed.

The City requires that no phase of construction be covered before being inspected by city personnel.

ACCEPTANCE

City has received and reviewed proposed as-built drawings for the service connection or main extension.
City has received payment for sewer connection charges and or billed the property owner for excess costs.
Onsite systems that required engineering have received ADEC approval to operate.
Owner has executed sewer easement with City.
City has completed final inspection.
City has received final as-built, and AutoCAD drawings of a designed system.
City sends property owner letter of acceptance for maintenance of system.

If you have any questions feel free to contact Public Works at 373-9010.

John Becker
Utility Maintenance Supervisor

CITY OF WASILLA

• Public Works Department •

290 East Herning Avenue • Wasilla • Alaska • 99654-7091

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SEWER CONNECTION APPLICATION

The undersigned owner (s) of the property for which sewer service is requested agrees to abide by all the rules and regulations of the Wasilla Sewer Utility. As a condition of receiving sewer services, the applicant hereby grants to the City of Wasilla through its authorizing agents and employees access to those portions of the sewer system which, by Wasilla Municipal Code, the City is responsible to maintain. I (we) acknowledge that all components of the sewer system that are the responsibility of the City to maintain are the property of City of Wasilla, regardless of the original purchaser of the system components or of the proprietorship of the property on which the components are located. I (we) hereby warrant to the City of Wasilla that all sewer systems components are set back a minimum of 10' from structures, property lines, water lines and other utility easements. In special cases where equipment is so located that locks must be opened for access, a gate and key to the lock must be provided to an authorized agent of the City

Inspection request for _____ Date _____ Time Owner must be present.

NAME_____TELEPHONE_____
(Owner)

ADDRESS_____

SUBDIVISION_____TRACT_____BLOCK_____LOT____

PERMIT CLASS: ☐ Class I Up to 12 bedrooms or 25 people ☐ Class II More than 12 bedrooms or 25 people

Structure type: _____ Occupancy/Bedrooms: _____ Estimated Daily Flow: _____

Septic Tank size to be installed _____ or 0.75 x (No. Beds x 150) + 1125 = Tank Size _____

NOTE: Class II permits require prior approval of A.D.E.C. All Class II, commercial users, and residential structures with more than three (3) dwelling units must provide a water meter on the source of their water supply. Meters are available from the City of Wasilla. Installation is the responsibility of the owner and shall be completed before receiving sewer service.

Additional Cost due the city in addition to the connection fee:

A. Actual cost of any materials supplied by the City of Wasilla
B. Additional Inspection time witnessing the installation from tapping the main to the final inspection.
C. City employee labor - $90.00 per hour will be assessed after the first two hours have been reached.
D. 25% of A & B = Administration charge.

After installation of service, I agree to pay charges exceeding connection charge, for labor, materials, equipment rentals and overhead which will be billed to me by the City of Wasilla and payable within thirty (30) days.

Applicants Signature: _____

Connection Amount: _____DATE:_____

Date of Mainline Tap and WO # _____
(Forty Eight (48) Hour Notice)

Vault, Septic tank, Controls, & Electrical inspections WO # _____
(Twenty Four (24) Hour Notice)

S.T.E.P. Inspection WO # _____
(Twenty Four (24) Hour Notice)
SEWER System Turned ON: _____

UTILITY APPLICATION

City of Wasilla, Public Works Department
290 East Herning Avenue
Wasilla, Alaska 99654-7091
Phone 907.373.9016 Fax 907.373.9011 publicworks@ci.wasilla.ak.us

BILLING INFORMATION

Whom should the City bill (check one): **Individual** ☐ **Business** ☐ **Property Manager** ☐

****If billing business or property manager, please complete Section 1 for mailing information and complete Section 2 for the individual acting as guarantor on the account. For billing to an individual, complete only Section 2.****

Section 1

Business Name/Property Manager		
Mailing Address		
City	State	Zip code
Federal Tax ID#	Business Phone	Business Fax

Section 2

Individual Name(s)		Name Suffix
Social Security #	DOB	Drivers License# Issuing State
Mailing Address		
City	State	Zip code
Home Phone	Cell Phone	Work Phone
Email Address (optional):		

SERVICE LOCATION INFORMATION

Type of Service Requested: Water ☐ Sewer ☐ Metered ☐	Own ☐ Rent ☐
Street Address	
Subdivision/Block/Lot	
Complete ONLY if renting:	
Landlord Name	Phone
Mailing Address	
City / State / Zip code	

By signing this application I agree to abide by all rules and regulations of the City of Wasilla Sewer/Water Utility. I also certify that I am eighteen (18) years of age or older. I agree to pay all collection fees should collection efforts be necessary. I understand that I will be responsible for all charges related to services at the above service address until I notify the City of Wasilla in writing of disconnect. **RIGHT OF ACCESS:** The undersigned applicant, as a condition of receiving sewer/water services, hereby grants to the City of Wasilla, through its authorized employees or agents access to those portions of the sewer/water system which, by Municipal Code, the City is responsible to maintain. This access shall be at reasonable times for the purpose of reading meters, testing, inspecting, repairing or replacing.

_____ _____
APPLICANT(S) SIGNATURE DATE

_____ _____
REMARKS SERVICE START DATE

Requested by: Public Works
Prepared by: Public Works
Adopted: March 27, 2002
Vote: Unanimous

CITY OF WASILLA
RESOLUTION SERIAL NO. 02-10

A RESOLUTION OF THE CITY OF WASILLA REPEALING RESOLUTION SERIAL NO. 99-11 AND DETERMINING OFFSITE ASSESSMENT CHARGES FOR SEWER MAIN EXTENSION AGREEMENTS BY PRIVATE DEVELOPER.

WHEREAS, WMC 13.08.100(D) provides for payment in-lieu of offsite assessment charges to be paid by private developers desiring to extend sewer mains, and requires that such payments shall be determined by resolution of the City Council:

NOW THEREFORE BE IT RESOLVED that:

The amount of payment in-lieu of offsite assessment (PILA) within the boundary of Assessment District 83-S-1, and for areas outside or adjacent to Assessment District 83-S-1, as provided for and defined in WMC 13.08.100(D), shall be based on a net plant value of $750,000. The cost will be $4 per gallon per day with a usage factor of 200 gallons per day. Usage for Class I customers computes to a PILA of $800. Class II customers will have a PILA based on $4 per gallon per day using the estimated average daily flow approved by the City.

BE IT FURTHER RESOLVED that,

(1) At the request of the customer, the City may pro-rate the PILA over a 96-month period to be paid with the monthly sewer bill, plus five-percent annum administrative fee.

(2) This Payment is in addition to any main line extension cost, onsite construction cost or any new assessment district cost.

(3) Resolution Serial No. 99-11 is hereby repealed.

ADOPTED by the Wasilla City Council on March 27, 2002.

SARAH PALIN, Mayor

ATTEST:

KRISTIE L. SMITHERS, CMC
City Clerk

[SEAL]

CITY OF WASILLA
290 E. HERNING AVE.
WASILLA, ALASKA 99654-7091
PHONE: (907) 373-9055
FAX: (907) 373-9096

DIANNE KELLER
MAYOR

ADMINISTRATIVE POLICY NO. 03-01
REPEALS AND REPLACES ADMIN. POLICY NO. 01-03

Re: Sewer Utility—Separating irrigation or other Non-Sewer Water Use For Purposes of Sewer Billing

Non-Sewer Water Use

This policy applies only to services that use more than 5,000 gallons per month, and regardless of the amount of irrigation water used, the minimum sewer bill will be 5,000 gal per month. When a water user determines that a structure's water meter measures a significant volume of water that is not directed to the sanitary sewer, that volume of water may be exempt from sewer service charge fee if the following is accomplished;

(a) The property owner or water customer may purchase and install a second "subtractive" water meter. The installation shall be permanent and installed in a heated, non-freeze area. The plumbing of the subtractive water meter may only be directed for water use outside of the structure that does not enter the sewer system.

(b) The City water utility personnel will inspect the installed second meter and downstream plumbing. The reading of the approved second meter will be subtracted during the sewer billing process each month.

(c) The property owner or water customer will adhere to the Uniform Plumbing Code for the installation of the second water meter and insure that no cross connection occurs. Back flow prevention can be insured through the use of an atmospheric device installed on your hose bibs.

Water meter purchases, installation inspection fees and special turn-ons and turn- offs are to be charged to the customer at the regular rates.

The payback period for a typical meter installation is 30 months of irrigation or 6 years, based on a 3,000 gallons per month irrigation 5 months per year and an installation cost of $450.00.

APPROVED AS CITY OF WASILLA ADMINISTRATIVE POLICY July 14, 2003

MAYOR DIANNE M. KELLER DATE

CITY OF WASILLA
290 E. HERNING AVE.
WASILLA, ALASKA 99654-7091
PHONE: (907) 373-9055
FAX: (907) 373-9096

DIANNE KELLER
MAYOR

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APPROVED AS CITY OF WASILLA ADMINISTRATIVE POLICY July 14,2003.

Dianne M. Keller 7-14-0
MAYOR DIANNE M. KELLER DATE

CITY OF WASILLA

• Public Works Department •

290 East Herning Avenue • Wasilla • Alaska • 99654-7091

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STANDARD SPECIFICATIONS
CITY OF WASILLA SEWER UTILITY

Where not in conflict with these documents, the Alaska Department of Environmental Conservation publication "1987 Certified Installers reference Requirements for On-Site Sewer Installation Serving Single Family Dwellings" - http://dec.alaska.gov/water/wwdp/onsite/index.htm - , applies and shall be followed.

The owner or owner's representative shall, before work commences or any material is fabricated or shipped, furnish full details, shop drawings, catalog cuts, schematic (elementary) diagrams, and other descriptive matter as required to fully describe the equipment specified under this section to the City. Should any item which deviates from these Specifications be included, the deviation shall be clearly indicated and explained at the time of submittal.

All materials and workmanship are subject to inspection at any time by the City or City representatives. The owner shall correct any work or materials not in accordance with these documents or found to be deficient or defective.

INTERCEPTOR TANKS (SEPTIC TANKS) WITH EXTERNAL PUMPING VAULTS

Class I

A) Up to 8 Bedrooms

1. 3 Bedrooms 1,000 gallon liquid capacity
2. 4 Bedrooms 1,250 gallon liquid capacity
3. 5 Bedrooms 1,500 gallon liquid capacity
4. 6 Bedrooms 1,750 gallon liquid capacity
5. 7 Bedroom 2,000 gallon liquid capacity
6. 8 Bedroom 2,250 gallon liquid capacity
7. 9 – 12 Bedrooms computed by the following E.P.A. / A.D.E.C.

0.75 x (No. of Bedrooms x 150 gallons) + 1125 = septic tank size in gallons

B) Non Residential of less than 25 people and less than 2,000 gpd flow.

1. Waste/sewage flow up to 1500 gallon/day is computed as follows: Flow x 1.5 = Septic Tank Size
2. Waste/sewage flow over 1500 gallons/day is computed as follows: Flow x 0.75 + 1125 = Septic

Class II.
Size of all Class II shall be determined by A.D.E.C. Wastewater Disposal Regulations 18AAC 72 and/or as approved by A.D.E.C. http://dec.alaska.gov/commish/regulations/pdfs/18%20AAC%2072.pdf

Interceptor Tanks (Septic Tanks)

All tanks shall have a minimum of two compartments with the inlet compartments not less than two-thirds (2/3) of the total capacity of the tank. Each compartment shall have a minimum 24-inch diameter access man way and a minimum 4-inch diameter clean-out pipe extending to the ground surface. The construction of interceptor tanks shall meet the applicable State specifications for septic tanks and shall be manufactured from corrosion-resistant materials and meet water-tight specifications at adjoining seams and welds.

Tanks Sized 2,000 gallons and up are required to have oversized cleanouts as shown in Figure 440A/B and installed as shown in Figure 440C.

Steel - Minimum of 10 U.S. gauge steel protected externally and internally by an approved bituminus coating (Engard 800 or Themec). All pump basin risers must meet the same specifications as those for the tank. All surfaces must be prepared to meet the specifications of the surface coating. All welds must be continuous to assure a water-tight seal.

Polyethylene - Medium density polyethylene conforming to National Bureau of Standards, Voluntary Products Standards PS15-69. The internal pumping vault and surface riser must conform to the same standard.

Concrete - Interceptor tanks and pump vaults shall be modified pre-cast concrete tanks and shall have been designed by a registered professional engineer licensed to practice in the State of Alaska. The structural design and analysis shall be done in accordance with accepted engineering practice. Each commercial tank manufacturer shall provide the City with written certification that the interceptor tanks for use in the City of Wasilla STEP (Septic Tank Effluent Pump) System will comply with all requirements of this Specification and those of the State of Alaska.

All tanks shall be guaranteed in writing by the tank manufacturer for a period of two (2) years from the date of installation.

Structural Requirements

1. The tanks shall be designed to withstand the following anticipated loading conditions:
    a. Vertical Loads - Live load of 100 psf and a minimum of 6 feet of earth backfill
    b. Lateral Loads - Tanks shall be designed for the internal hydrostatic pressure existing when they are full of liquid. The walls shall withstand ordinary earth pressure described above including external hydrostatic pressure when the tank is empty.
    c. Walls, bottom and top of reinforced-concrete tanks shall be designed across the shortest dimension using one-way slab analysis. Stresses in each face of monolithically-constructed tanks may be determined by analyzing the tank cross-section as a continuous fixed frame.
    d. The walls and bottom slab shall be poured monolithically: alternatively, water stops may be provided.
    e. Reinforcing steel shall be ASTM A-615 Grade 60, fy = 60,000 psi. Details and placement shall be in accordance with ACI 315 and ACI 318.
    f. Concrete shall be ready mix with cement conforming to ASTM C150, Type II. The shall be cement content of not less than six (6) sacks per cubic yard, with ¾ inch maximum aggregate size, and concrete shall achieve a minimum compressive strength of 5,000 psi, in 28 days.
    g. Tanks shall be protected by applying a heavy cement base, water proof coating, Thoroseal or equal, on both inside and outside surfaces, in compliance with Council of American Building Officials (CABO), report #NRB-168; 6181
    h. Tanks sized 2,000 gallon and up are required to have oversized cleanouts as shown in Figure 440 A- B- C
    i. Individual Pump Vaults. Specific information relative to the individual pump vaults, including installation conditions, size, accessories, and other information, is shown on the drawings. The material of construction for the pump vault sump shall be the same as specified in INTERCEPTOR TANKS above. Individual pump vaults shall be manufactured to the dimensions shown on the drawings.

Bedding Material

Place a minimum of 6 inches of gravel under the interceptor tank or pump vault pad and compact to achieve maximum support and prevent future settlement of the structure. All structures are to be set level with uniform bearing on the gravel pad.

Bedding material shall be type I. Type I consists of 2" minus. A minimum of 18" of fill 12" under and 6" over shall be used around pipe.

Take extreme care in backfilling to prevent damage to the outside protective coating and interior parts. All backfill shall be placed in a manner to prevent damage to the structure. Pushing the backfill material into the excavation in such a manner as to permit free fall of the material will not be allowed. All material should be mechanically tamped or otherwise compacted to prevent settlement of the backfill. Any such damage or settlement within 1 year after the final acceptance of the interceptor tanks shall be repaired by the Contractor at no cost to the Owner. Plug and stake the tank inlet until such time as the gravity sewer service pipe is constructed.

Abandon Existing Septic Tanks, Dry Wells, and Cesspools

At the Engineer's direction, dry wells, privies, sumps, seepage pits, log cribs, cesspools, and other private on-site sewage disposal systems shall be abandoned after all new facilities are installed and connections made, and the new effluent pumping system is functioning properly, as determined by the Engineer. All existing systems requiring abandonment shall have the sewage and sludge removed and be completely filled with earth, sand, gravel, concrete, or other approved material in conformance with the Uniform Building Code, Appendix I-11, as published by the International Association of Plumbing and Mechanical Officials.

The top cover or arch over the sewage facility shall be removed before filling with the approved material. The fill material shall not extend above the level of any outlet pipe or above the top of the vertical side walls until approval of the Engineer has been obtained. At this time, the remainder of the tank shall be filled and the fill be brought up to a point of 12 inches below the adjacent ground. The final 12 inches shall be filled with topsoil or granular. Surface restoration shall be appropriate to the tank's surroundings. All the backfill shall be thoroughly compacted to prevent any subsequent settlement.

Effluent Pumps

Type 1 pumps shall be, 240-volt, single-phase, Amps not to exceed 16amps, submersible effluent-type pump capable of delivering 10 gallons per minute (gpm) at a totally dynamic head (tdh) of 72 feet at locations required by the City.
Type 2 pump shall be as stated above but must meet 10 (gpm) at 102 feet (tdh) at locations as required by the City.

Each pump shall be fitted with 20 feet of heavy-duty waterproof electrical connection cable suitable for submerged service and 10 feet of 3/8-inch polypropylene lifting rope. The pumps shall be specifically designed for pumping septic tank effluent and shall utilize corrosion-resistant materials of construction throughout, such as bronze and type 316 stainless steel components. Pumps currently approved for service are Peabody Barnes Models STEP 52, Hydromatic SKHD150&100, Myers P-102 & 100 or approved equal.

Effluent Pumps – Installation

Installation shall be in accordance with the manufacturer's instructions. Pump installations shall be checked by representatives of the manufacturer or by a qualified representative of the City prior to the start-up of the equipment. The pump controls shall be in operation the same day the unit is installed.
Prior to starting the unit, all construction debris shall be removed from the system.

Electrical

Electrical equipment required to complete the work shall conform to the applicable requirements of the National Electrical Code (NEC), National Electrical Safety Code (NESC), National Electrical Manufacturer's Association (NEMA), the State of Alaska, and the City of Wasilla.

Effluent Pump Control Panel

Distributors that have the only approved control panel for the City of Wasilla Spec are **Ferguson & Alaska Pump**

The control panel and enclosure shall have the following construction features:

Corrosion-resistant gasket metal or fiberglass enclosure, wall mounting, suitable for outdoor weatherproof installations. The enclosure front shall be attached to the enclosure box by four tamperproof screws.
Hinged panel door inside the enclosure with tamperproof fastening screws.
External flashing alarm light mounted on top of the enclosure, suitable for weatherproof installations.
External alarm horn and silence button, suitable for weatherproof installation. Horn shall be a vibrating horn with an output of 90 db minimum.

The control panel shall contain a main disconnect switch, combination motor starter(s) with motor circuit protector(s), ambient compensated overload relays and quick-trip heaters, electric alternator in duplex control panels, HAND/OFF/AUTO selector switch(es), running light(s), elapsed time meter(s), event counter(s) to register the number of pump operations, and GCIF electrical outlet 120v. The control panel shall also contain an ON/OFF/T-Stat control switch for operation of the service line heat tracing if constant - watt heat tracing is installed. If self-limiting heat tracing is installed the T-STAT position is unnecessary. Provide motor starter(s) as required by motor horsepower and phase. A terminal strip shall be provided within the control panel for interfacing all exterior wiring. The control panels shall be pre-wired and factory tested.

Level control shall be provided by intrinsically safe floats for PUMP OFF, PUMP ON, and HIGH LEVEL ALARM. Level switches shall be direct-acting, float-type mercury switches of the type designed for wet well sewage applications. Switches shall be manufactured by Consolidated Electric Company, Flygt, or equal.

Level switches shall be chain mounted. Each chain mounting shall be provided with necessary brackets and clamps to suspend the unit from the side of the tank. The chain mounting shall include a weighted chain assembly for drift-free mounting and convenient removal of the floats. Fasteners shall be provided to mount the floats to the chain.

When the HIGH LEVEL ALARM level is reached, the alarm light shall flash and the alarm horn shall sound until silenced by an external SILENCE button. The alarm light shall continue to flash until the alarm condition is removed at which time the alarm system shall reset automatically.
Two locations currently have approved UL Control Panels are Ferguson & Alaska Pump & Supply.

KITCHEN WASTE SEPTIC TANK

Plumbing of a Commercial facility or area where kitchen waste is produced is required to install a separate external septic tank as shown in Plan View Service Commercial Figure 422A. All plumbing in this area is plumbed in such a manner that all kitchen waste passes through the kitchen waste septic tank before entering the pump vault. Sizing of the kitchen waste septic tank is determined by the flow of said area using septic tank sizing criteria. Minimum size is 1000 gallons. Note that in figure 422A that both sides of the septic tank clean outs are oversized to allow for easy cleaning by the property owner and requires a secure lid fastener.
See Figure 440 C and Figure 440 D.

PRETREATMENT QUESTIONER AND GRIT COLLECTIONS

See the pretreatment questioner for any commercial facility that may be discharging anything other than domestic waste.

Grit and Grease is not allowed in the system and must be maintained on site.

CITY OF WASILLA

• Public Works Department •

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CITY OF WASILLA

PRETREATMENT WSTEWATER QUESTIONNAIRE

1. Company Name:_____

2. Facility Address:_____

3. Mailing Address:_____

_____

4. Provide a brief description of the business that is conducted at this facility:

_____

_____

_____

_____

_____

_____

5. Provide the name, title, and telephone number of the person at the facility who may be contacted to answer about this form:

   a. Name:_____
   b. Title:_____
   c. Telephone Number:_____

6. Provide the SIC code that best describes your facility:_____
   SIC codes may be found in the Standard Industrial Classification Manual as prepared by the Office of Management and Budget, Executive Office of the President, Washington, D.C. Please provide your code, if known.

7. Does your facility discharge only domestic wastewater into the city sewer? *Domestic wastewater is defined as waterborne human waste or wastewater from laundry, kitchen, sink, shower, bath, or other domestic source.*

Yes No

(If you answered YES to the above question, skip to section 11)

8. Please describe the process that results in the discharge of non-domestic wastes into the city sewer.

_____
_____
_____
_____
_____
_____.

9. List all chemicals/pollutants tat may be reasonably expected to be present in the discharge. If trade name chemicals are listed, provide a list of their significant chemical constituents.

_____
_____
_____
_____
_____.

10. Provide a description of any wastewater pretreatment methods and facilities used to reduce the chemical/pollutant concentrations of the discharge:

_____
_____
_____
_____
_____
_____.

11. After completing this form, this questionnaire must be signed by a principal officer of your business.

I have personally examined and am familiar with the information submitted in this document and attachments. Based upon my inquiry of those individuals immediately responsible for obtaining the information reported herein, I believe that the submitted information is true, accurate and complete.

Signature of Official	Printed Name	Date

CITY OF WASILLA

Public Works Department
290 East Herning Avenue
Wasilla, Alaska 99654 7091
Phone (907) 373-9010 Fax (907) 373-9011

City of Wasilla Sewer
Standard Specification NOTES

1. All material and workmanship shall conform to City of Wasilla Specifications and all applicable local, state and federal codes and standards.

2. Electrical work shall conform to City of Wasilla Specifications and National Electrical Code (as adopted and modified by State of Alaska).

3. No work shall be buried nor concealed prior to being inspected and accepted by the City of Wasilla. Contractor shall coordinate with Public Works Department regarding scheduling of inspections.

4. Septic tank size shall be in accordance with Alaska Department of Environmental Conservation (ADEC) regulations and recommendations. Engineering calculations and plans may be required for commercial facilities.

5. Ladder within the vault shall be located 90° from pressure, gravity sewer lines and electrical conduit. Ladders in vaults shall conform to the new MOA Standards for manholes.

6. All joints in vault shall be sealed with Ram-Nek and shall be grouted inside and outside to produce a smooth continuous surface.

7. Certified 95% compaction is required of all work done in roads rights of way.

MATERIALS:

1. Electrical wire shall be XHHW, individually color coded (Entire Length) per City of Wasilla Specifications. One extra pair or wire required in power conduits and float conduits.

2. Pressure service pipe shall be 2" or 1½" as specified high density polyethylene. HDPE 4710. SDR11, insulated heat traced. Un-insulated pipe may be used with the approval of the City of Wasilla and Engineer, if installed with a minimum burial depth of 12 feet or (10' + 2" extruded polystyrene insulation). Un-insulated pipe may not be used if groundwater is encountered less than 10 feet deep.

3. Gravity pipe shall be as specified by Uniform Plumbing Code and ADEC.

4. All fittings in pump vault shall be brass or stainless steel.

5. Wire nuts in J-box to be enclosed in scotch seal packs #35-70.

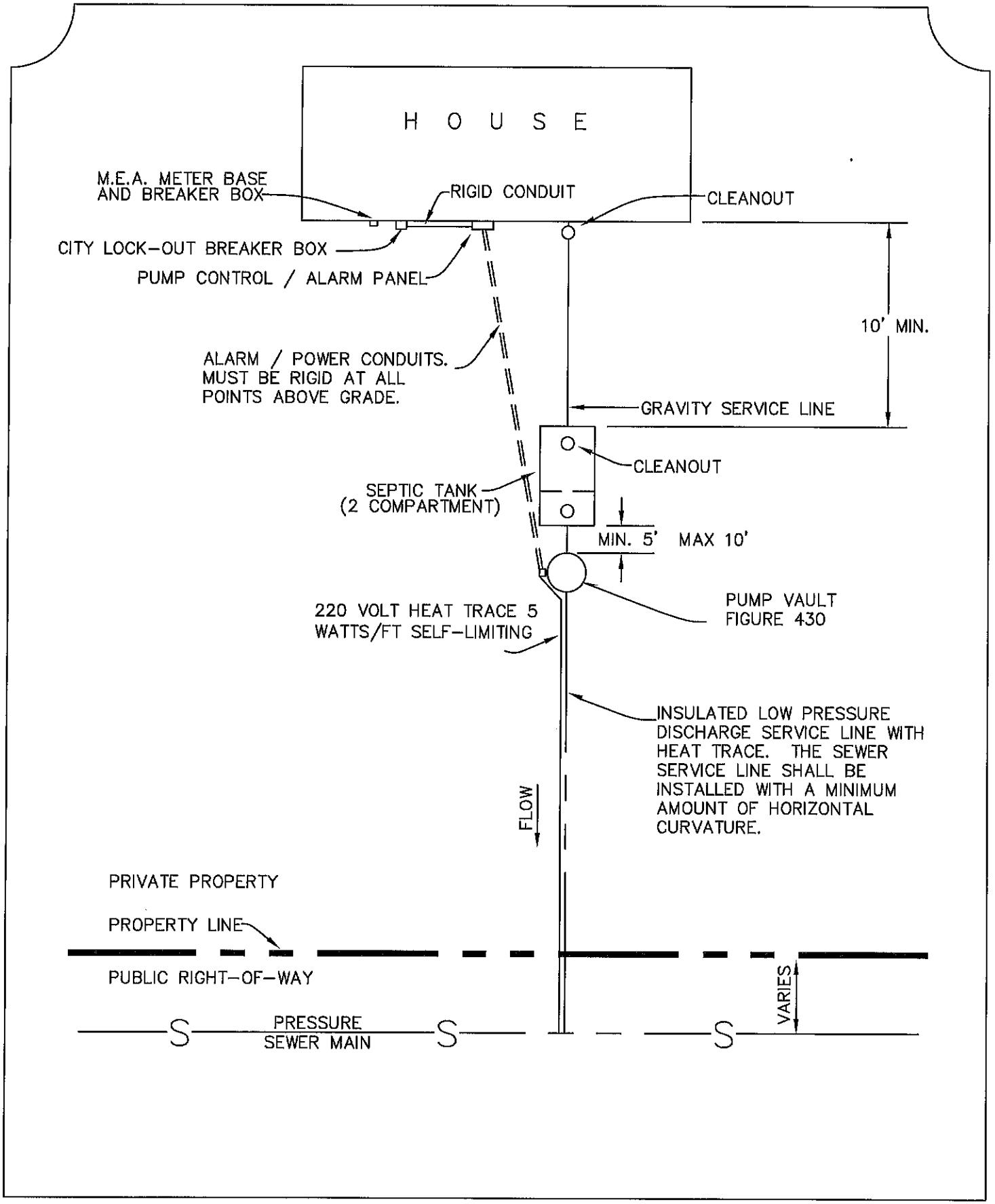
6. All conduits shall be metal.

7. Heat trace shall be 240 VAC, at 5 watts/ft. self-limiting.

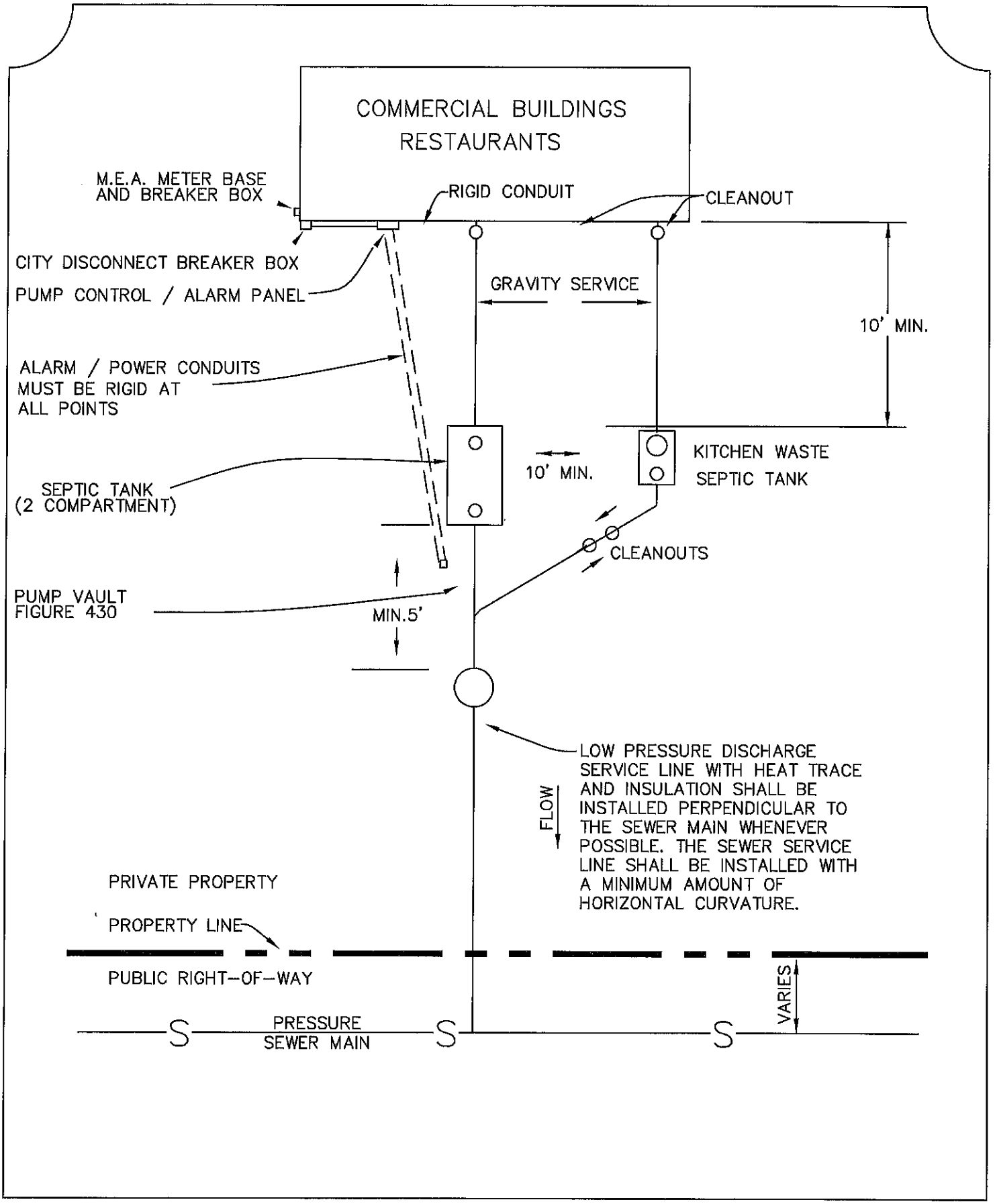
8. 3/8" rope required on each pump to extend a minimum of 4' above the manhole lid.

9. External kitchen waste septic tank required on all commercial connections discharging kitchen waste in the waste flow stream. Minimum 1,000 gallon septic tank required. Figure 440D.
See Figure 422 A, Figure 440 C and Figure 440 D.

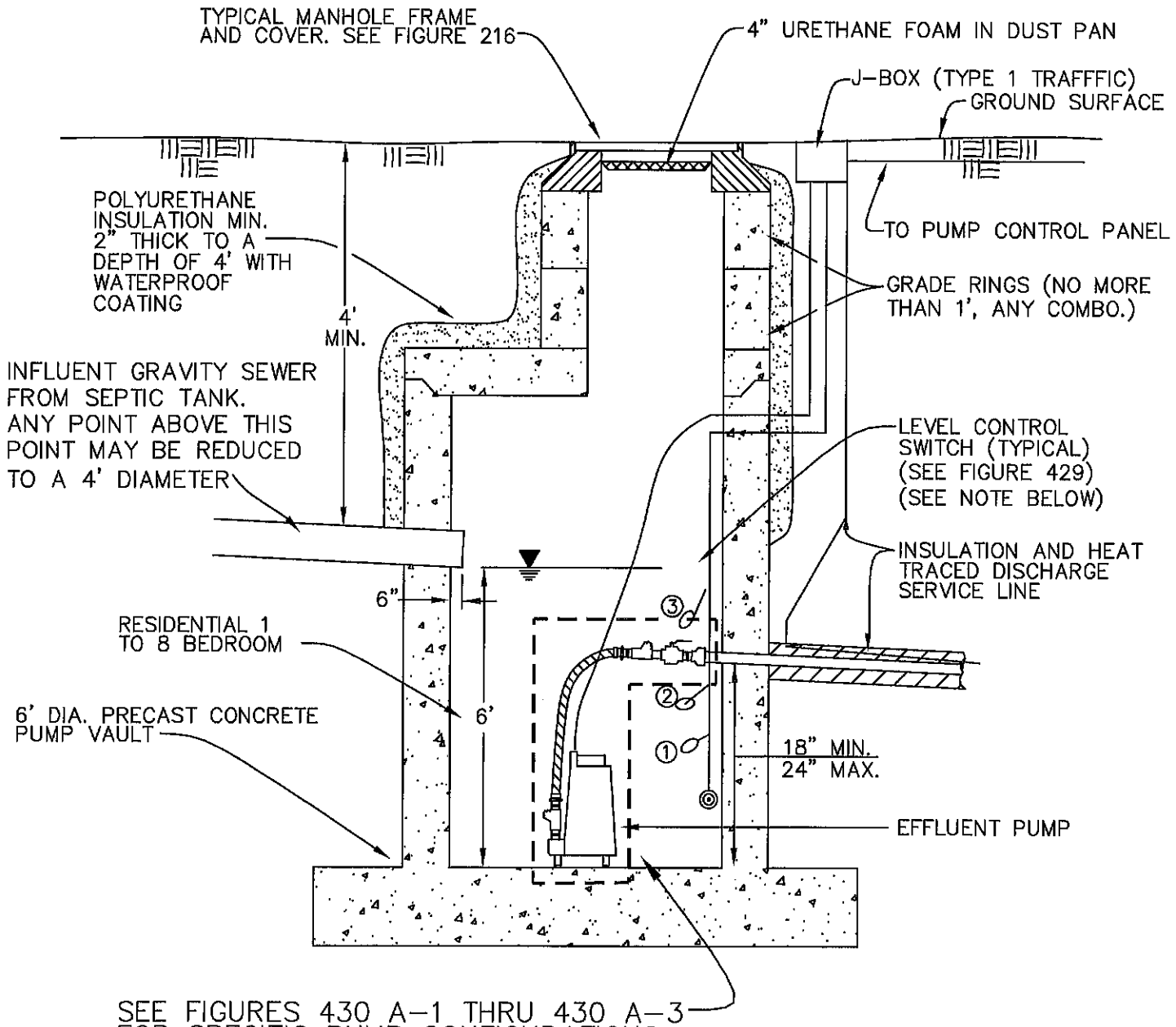
10. On any kitchen waste septic tank, both sides of the tanks clean-out shall be installed in such a manner as to provide man access to tank opening. A minimum of a 25" opening is required from top of the tank to grade. See Figure 440A /B/C/D



DATE: 10/25/06	CITY OF WASILLA	PLAN VIEW SERVICE CONNECTION (RESIDENTIAL)	SCALE: NONE	
DRAWN BY: W/W Tech II			SHEET 1 OF 1	
CHECKED BY: D P W			FIGURE: 422	

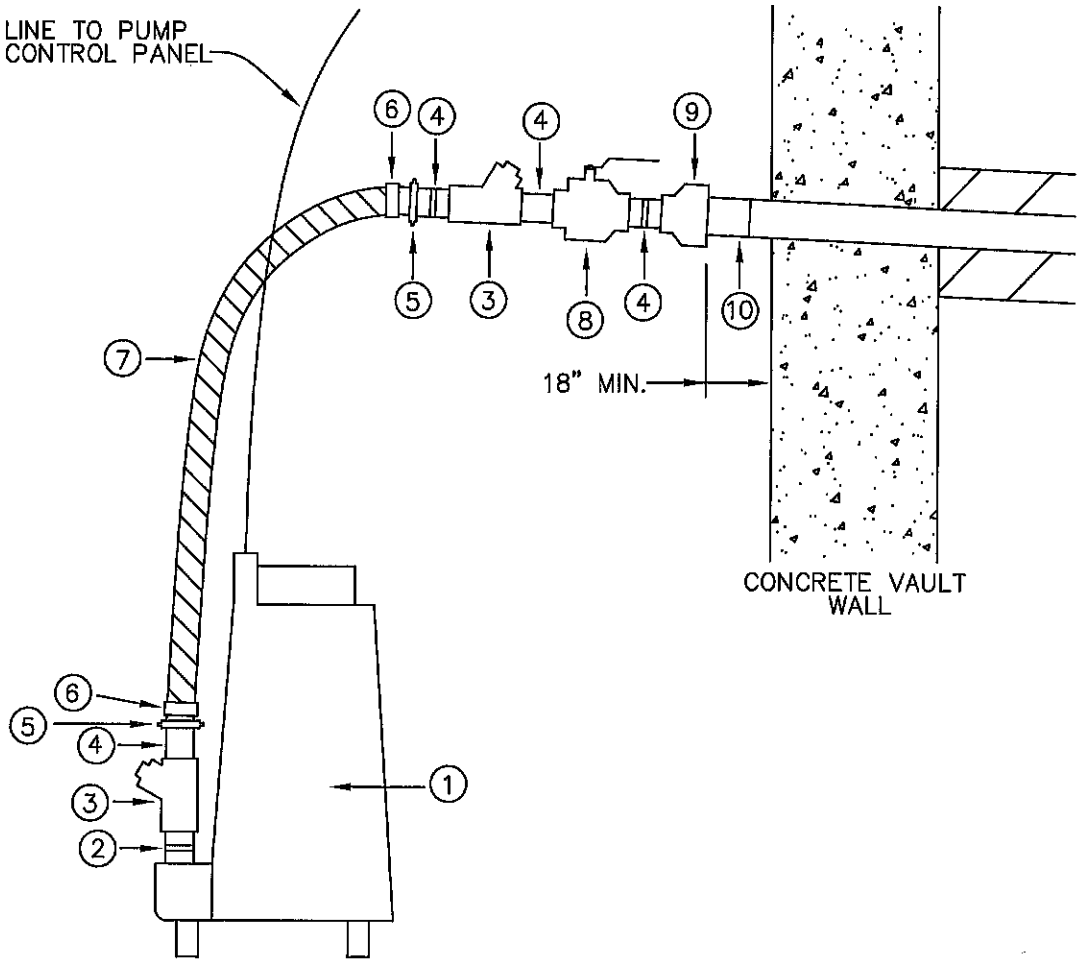


DATE: 10/3/16 DRAWN BY: W/W Tech CHECKED BY: D P W		CITY OF WASILLA	PLAN VIEW SERVICE CONNECTION (COMMERCIAL)	SCALE: NONE SHEET 1 OF 1 FIGURE: 422 A



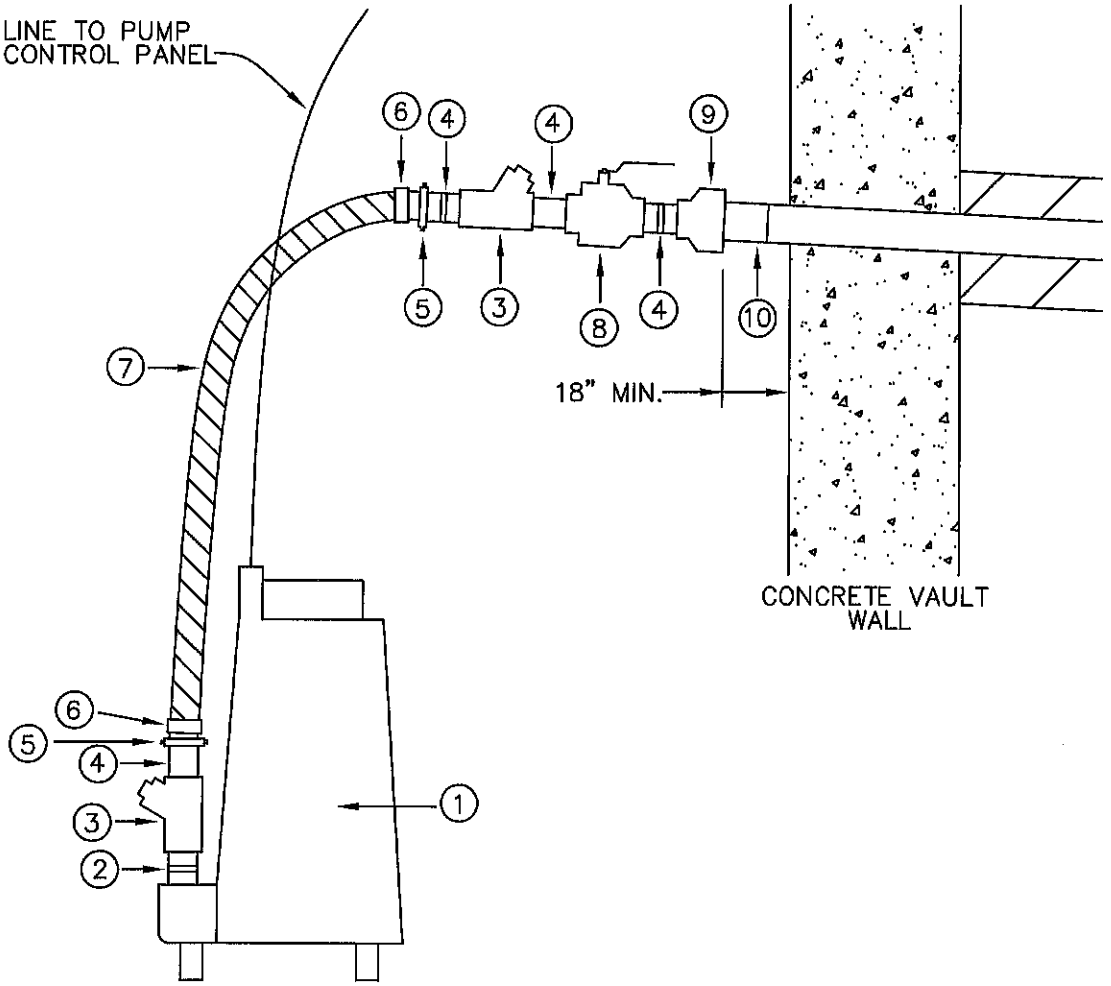
NOTE
① PUMP OFF
② PUMP ON
③ ALARM set at 24" Below Invert

DATE:	REVISED: 6/1/00	CITY OF WASILLA	SINGLE PUMP VAULT	SCALE: NONE
DRAWN BY: W/W Tech II				SHEET 1 OF 1
CHECKED BY:				FIGURE: 430 A



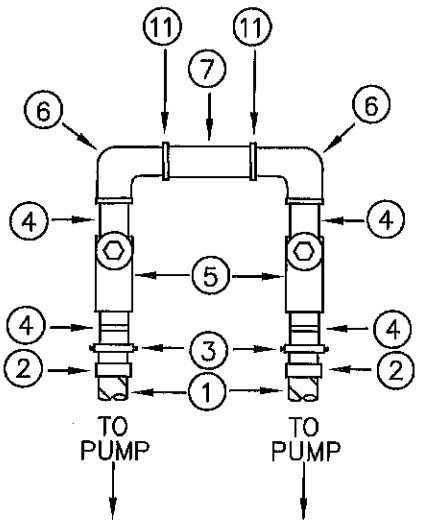
①	SUBMERSIBLE EFFLUENT PUMP–102' TDH @ 10 GPM (MEYERS P–102, 1PH, 230V)
②	1–1/2"x 6" BRASS NIPPLE w/1/4" WEEP HOLE (CENTERED)
③	1–1/2" CHECK VALVE (BRASS)–NIBCO T413Y
④	1–1/2"x 2" BRASS NIPPLE
⑤	1–1/2" BRASS FEMALE HOSE COUPLING w/I PT & RUBBER GASKET
⑥	STAINLESS STEEL BANDING w/KEEPER
⑦	1–1/2" REENFORCED HIGH PRESSURE DISCHARGE HOSE (8 feet in length)
⑧	1–1/2" BRASS BALL VALVE–NIBCO T585–70 OR RED & WHITE 1/4 TURN FULLPORT
⑨	2"x 1–1/2" BELL REDUCER (BRASS OR STAINLESS STEEL)
⑩	2" POLY CAM ADAPTER BRASS MTK HDPE OR 2" POLYMATE STAINLESS ADAPTER

DATE:	REVISED: 6/1/00	CITY OF WASILLA		SCALE: NONE
DRAWN BY: W/W Tech III			PUMP DETAIL	SHEET 1 OF 1
CHECKED BY:				FIGURE: 430 A–1

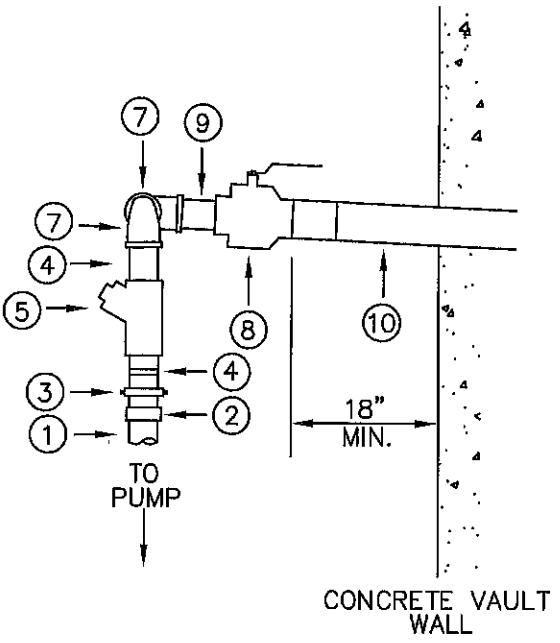


①	SUBMERSIBLE EFFLUENT PUMP– 72' THD @ 10 GPM (MYERS P–52, 1PH, 230 V)
②	1–1/2"x 6" BRASS NIPPLE w/1/4" WEEP HOLE (CENTERED)
③	1–1/2" CHECK VALVE (BRASS)–NIBCO T413Y
④	1–1/2"x 2" BRASS NIPPLE
⑤	1–1/2" BRASS FEMALE HOSE COUPLING w/I PT & RUBBER GASKET
⑥	STAINLESS STEEL BANDING w/KEEPER
⑦	1–1/2" REENFORCED HIGH PRESSURE DISCHARGE HOSE (8 feet in length)
⑧	1–1/2" BRASS BALL VALVE–NIBCO T585–70 OR RED & WHITE 1/4 TURN FULLPORT
⑨	2"x 1–1/2" BELL REDUCER (BRASS OR STAINLESS STEEL)
⑩	2" POLY CAM ADAPTER BRASS MTK HDPE OR 2" POLYMATE STAINLESS ADAPTER

DATE:	REVISED: 6/1/00	CITY OF WASILLA	PUMP DETAIL	SCALE: NONE
DRAWN BY: W/W Tech III				SHEET 1 OF 1
CHECKED BY:				FIGURE: 430 A–2



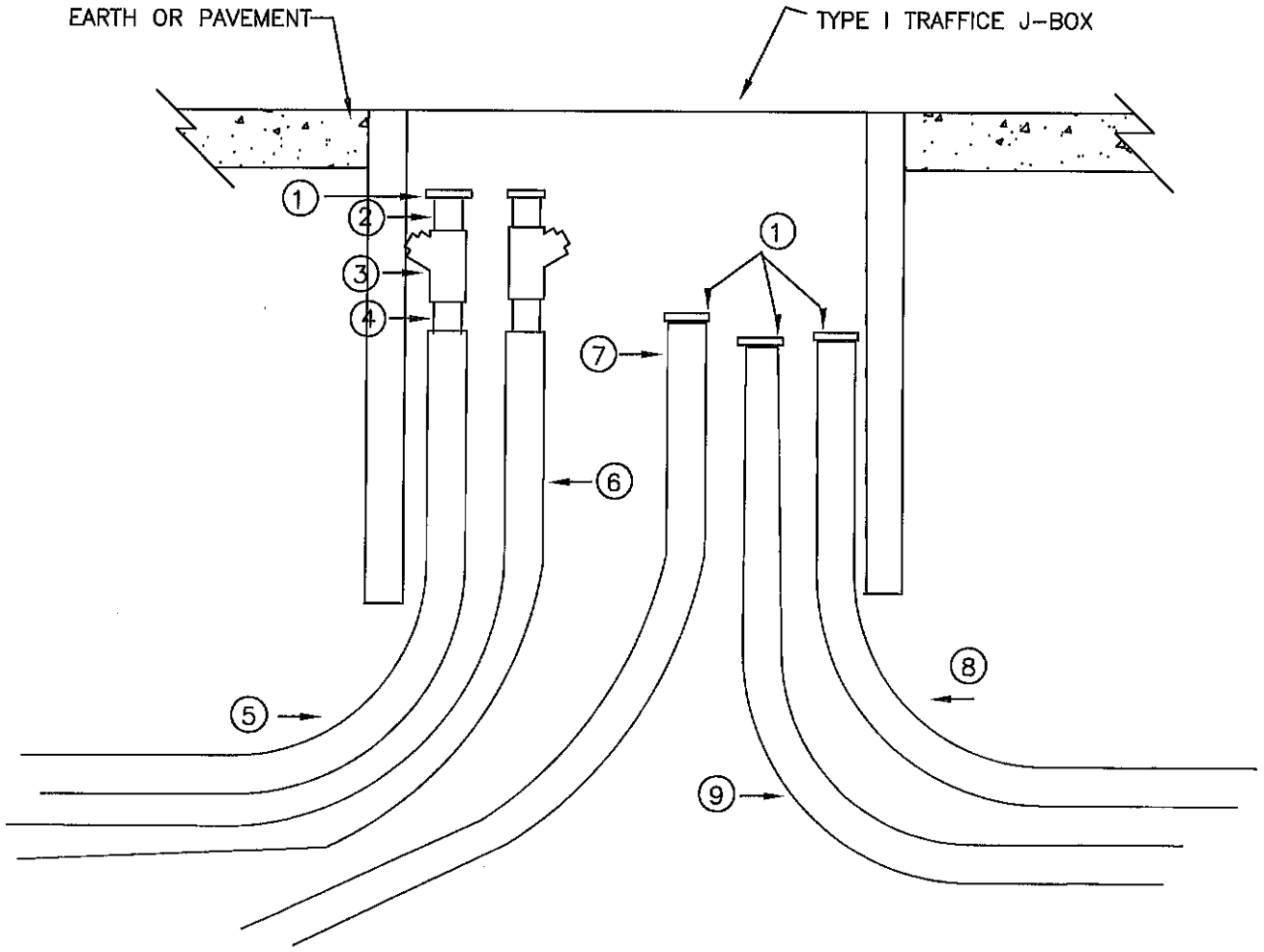
FRONT VIEW



SIDE VIEW

(1)	1–1/2" DISCHARGE HOSE–PRESSURE
(2)	STAINLESS STEEL BANDING w/KEEPER
(3)	1–1/2" BRASS FEMALE HOSE COUPLING w/I PT AND WASHER
(4)	1–1/2" CLOSE NIPPLE (BRASS)
(5)	1–1/2" CHECK VALVE (BRASS)–NIBCO T413Y, RED & WHITE
(6)	1–1/2" STREET 90° ELBOW (BRASS)
(7)	2" TEE (BRASS)
(8)	2" BRASS BALL VALVE–NIBCO T585–70
(9)	2" CLOSE NIPPLE (BRASS)
(10)	2" POLY CAM ADAPTER BRASS MTK HDPE OR 2" POLYMATE STAINLESS ADAPTER
(11)	2"x 1–1/2 BUSHING (BRASS)

DATE:	REVISED: 6/1/00	CITY OF WASILLA	DUPLEX PUMP DETAIL	SCALE: NONE
DRAWN BY: W/W Tech II				SHEET 1 OF 1
CHECKED BY:				FIGURE: 430 A–3



(1)	GROUNDING BUSHING
(2)	CLOSE NIPPLE
(3)	SEAL OFF
(4)	METAL CONDUIT 1" or 1-1/4" PER CODE
(5)	CONTROL CONDUIT TO VAULT
(6)	POWER CONDUIT TO VAULT
(7)	HEAT TRACE CONDUIT
(8)	CONTROL CONDUIT TO PANEL
(9)	POWER CONDUIT TO PANEL
◯	ALL RIDGED METAL CONDUIT

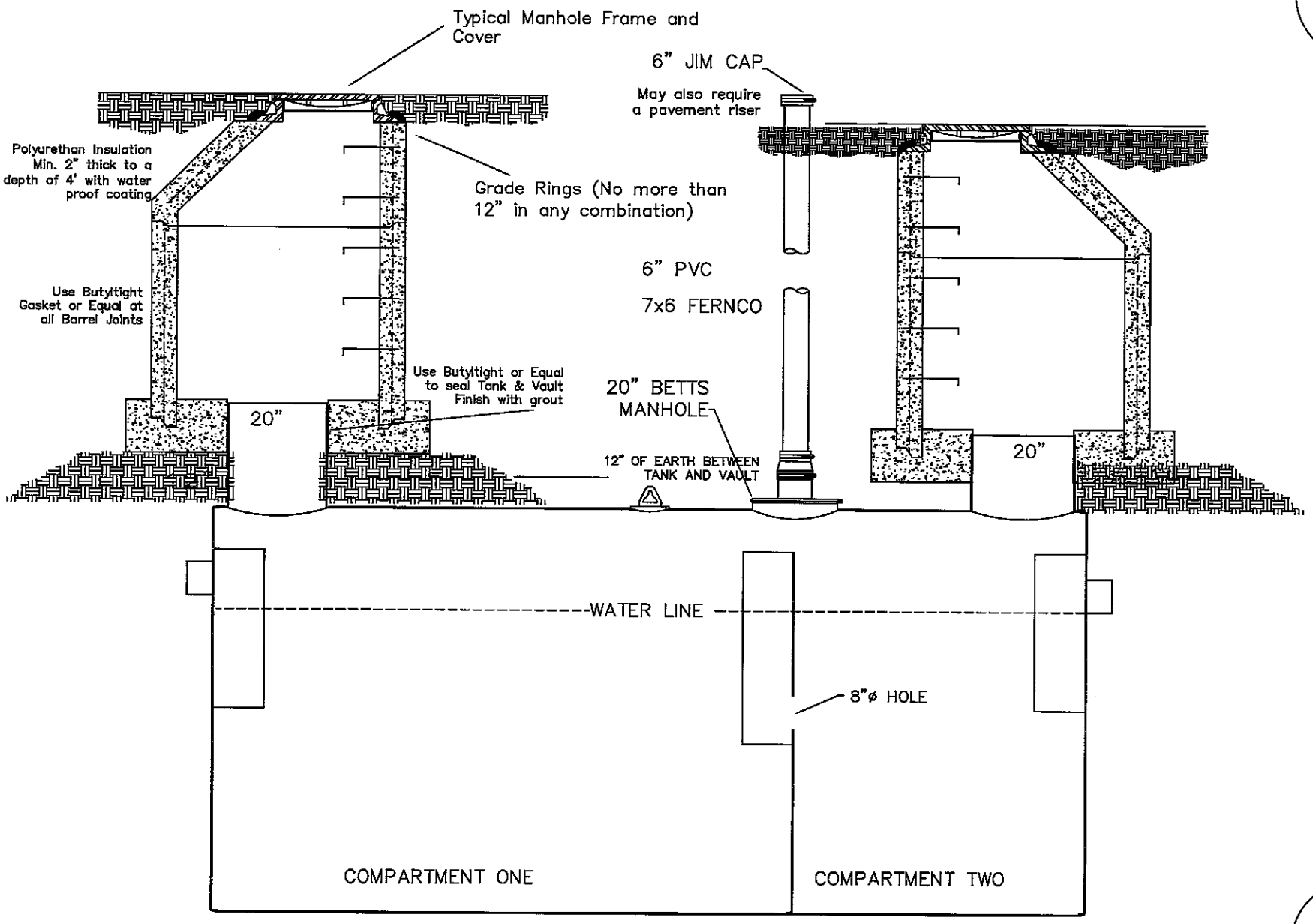
DATE:	REVISED: 5/9/03	CITY OF WASILLA	ELECTRICAL J-BOX TRAFFIC TYPE I	SCALE: NONE
DRAWN BY: W/W Tech III				SHEET 1 OF 1
CHECKED BY:				FIGURE: 431

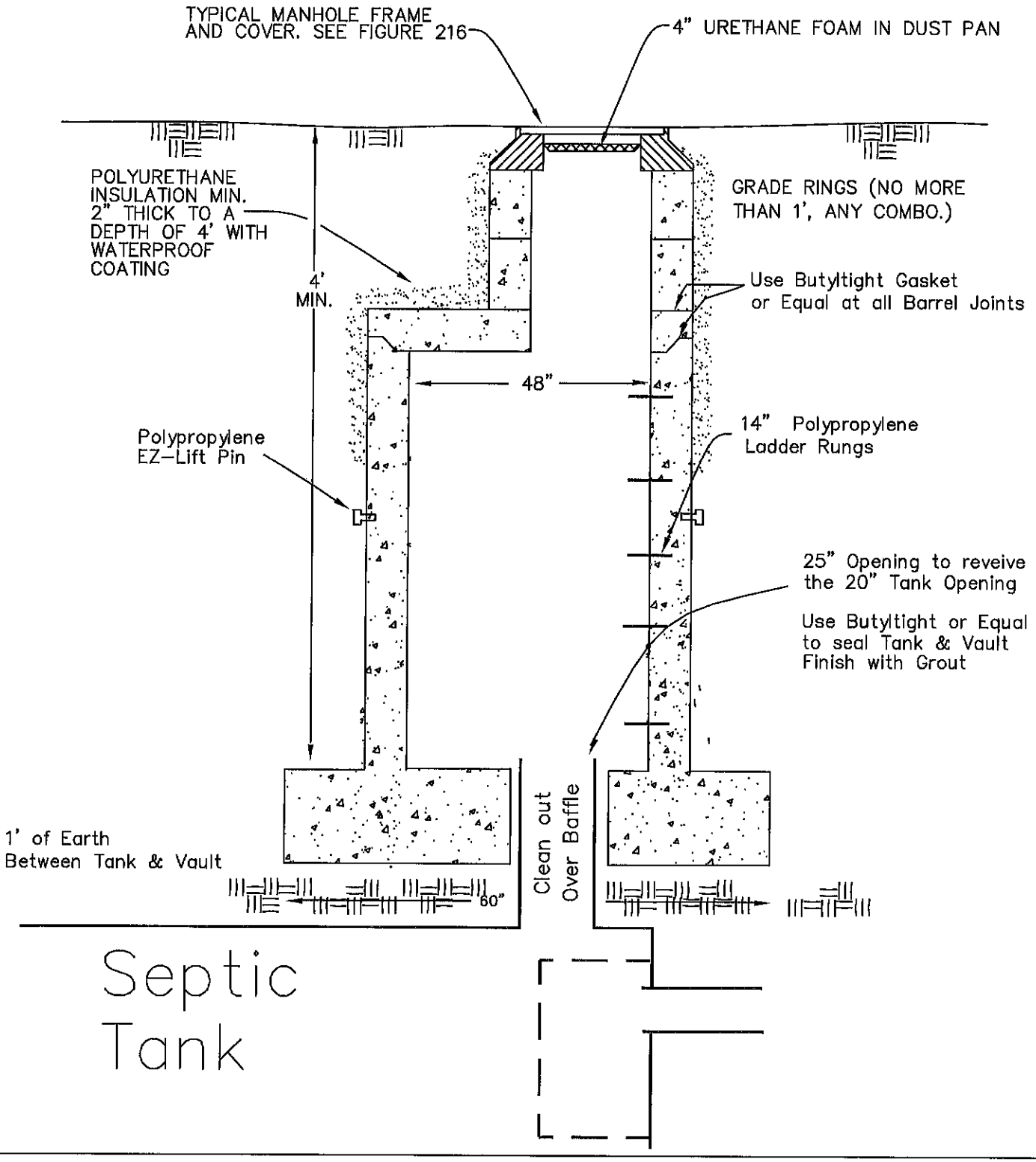
DATE: 7/1/02
DRAWN BY: W/W Tech III
CHECKED BY:
REVISED: 4/13/14

CITY OF WASILLA

2,000 GALLON AND UP SEPTIC TANK

SCALE: NONE
SHEET 1 OF 1
FIGURE: 440 A



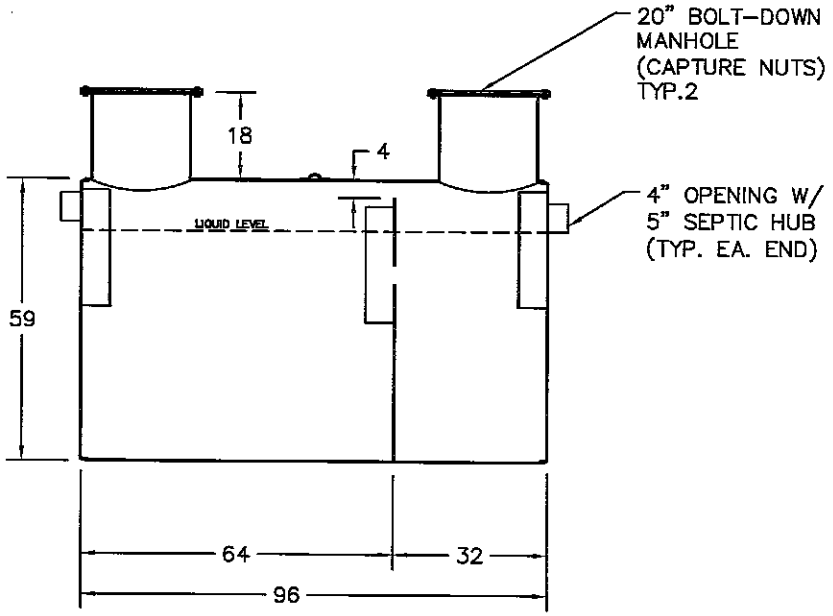


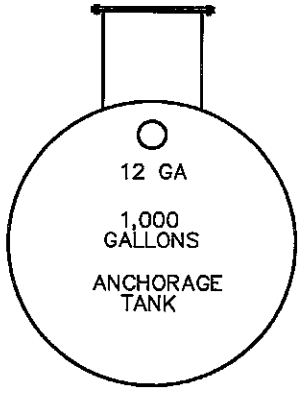
Septic Tank

DATE: 7/1/02	REVISED: 7/1/02	CITY OF WASILLA	MANHOLE OVER SEPTIC TANK	SCALE: NONE
DRAWN BY: W/WwTech II				SHEET 1 OF 1
CHECKED BY:				FIGURE: 440 C

FABRICATE TANK FROM 12 GA MATERIAL

COAT ALL SURFACES W/ TEMEMEC





END VIEW

ANCHORAGE TANK & WELDING, INC.
2700 PORCUPINE DRIVE
ANCHORAGE, ALASKA
(907) 272-3543

1,000 GALLON
KITCHEN WASTE
INTERCEPTOR
CITY OF WASILLA STANDARD

DRAWN:	TOM
DATE:	08/24/04
REVISED:	08/25/04
FILE NAME:	WASILLA--KS
JOB NO:	STANDARD
SCALE:	NTS
SHEET No. OF	1 1

SCALE: NONE
SHEET 1 OF 1
FIGURE: 440 D

KITCHEN WASTE
INTERCEPTOR

CITY OF
WASILLA

REVISED: 1/23/12

DATE:
DRAWN BY: Utility Maint.
CHECKED BY: