



UTILITY HOOKUP PERMIT

Borough Restrictions and Conditions:

- (1)** Utilities must be inspected prior to backfilling. Lines so backfilled prior to inspection shall be re-excavated for proper inspection prior to utility turn on at the permittee's expense. Inspections may be scheduled no less than 24-hours in advance by calling the Public Works Department at (907) 228-6670 or (907) 228-6664.
- (2)** Permittee shall comply with and secure all federal, state, and local regulations and gather all necessary permits, including, but not limited to, USACOE, ADEC storm water erosion control permits, ADOT permits, and or other permits appropriate to the project, copies of which shall be provided to the Borough upon request. This permit does not authorize the applicant to do any work without first obtaining permits from all other governmental agencies having jurisdiction, and shall allow all governing agencies to perform any inspections required thereto.
- (3)** The permittee shall secure utility locates from the Ketchikan Gateway Borough, City of Ketchikan, Ketchikan Public Utilities, Cable TV providers, or other such jurisdictions as may have utilities present prior to commencing work. The responsibility to secure utility locates applies even if the department did not indicate that one was needed. Utility departments must be given 48 hour notice of the required locates prior to construction, or such amount of time as may be determined necessary by the relevant agencies.
- (4)** The permittee is responsible for any damages to utilities, streets, public or private property caused by this work and agrees to repair said damages in full at their own expense.
- (5)** The permittee is responsible for routing traffic, barriers, and lights marking excavation in accordance with the latest edition of the *Manual on Uniform Traffic Control Devices* (MUTCD), and obtaining approval of all agencies prior to any work requiring a street closure, including Alaska Department of Transportation & Public Facilities approval where necessary.
- (6)** All contractors performing work under this permit must be properly licensed to perform the work, including all State of Alaska licenses.
- (7)** Minimize all clearing, brushing, tree cutting, cleaning and removing debris within the designated work area to the extent only necessary for the completion of the project.
- (8)** This permit shall be considered complete and entire: any work remaining incomplete or in a condition deemed to be hazardous may be corrected by the Ketchikan Gateway Borough Public Works Department at the permittee's expense.
- (9)** All water and sewer connections must comply with Title 13 of the Ketchikan Gateway Borough Code and all private utility lines must conform to the State Plumbing Codes.
- (10)** Gutter drains, downspouts, or storm water collection systems are prohibited from connecting to the sewer system.
- (11)** All utilities will be installed per the Borough's standard details.
- (12)** All connection fees will be paid as a condition of permit issuance.
- (13)** All piping with less than 4' burial depth is required to be insulated pipe or have insulation installed per the Borough standard details.
- (14)** All in-road work will be conducted under general conditions to Title 12 attached hereto.
- (15)** The Ketchikan Gateway Borough reserves the right to apply other permit conditions as necessary.



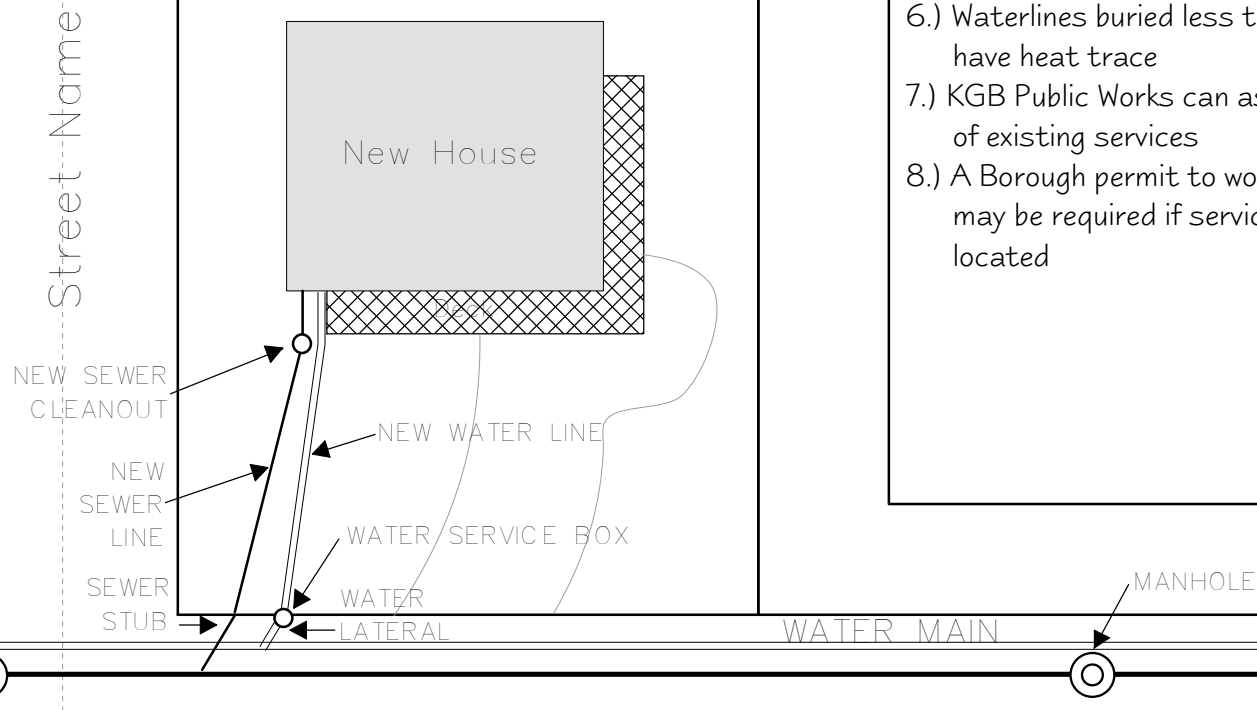
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GENERAL PERMIT CONDITIONS

Permit conditions contained herein are general in nature: specific conditions will be determined upon Borough review, and the permittee will be required to sign acceptance as a condition of issuance.

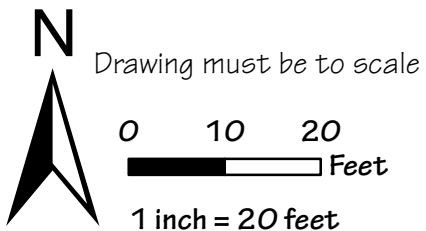
1. Chapter 12 of the Ketchikan Gateway Borough Code of Ordinances requires a permit for the utilization of a public place. The permittee, its agent or contractor, is given permission to enter upon the aforesaid Public Place from the date of issuance to the end date indicated above, subject to evaluation and amendment as determined appropriate by the Public Works Department.
2. The applicant is responsible for any damage or injury resulting from the activities permitted herein.
3. The applicant shall appear and defend the Borough from claims or suits brought due to the activities permitted herein, and shall comply with any orders of the Court. The applicant agrees that applying for this permit shall be conclusively deemed to have agreed to indemnify and hold harmless the Ketchikan Gateway Borough, its authorized agents, officers, representatives and employees from and against any and all claims, penalties, liability or loss resulting from claims or court action, whether civil, criminal, or in equity, arising directly out any act or omission of applicant, their agents, officer, representatives or employees in carrying out any or all of the work herein above mentioned or referred to in this permit.
4. The applicant shall restore and repair any areas used or damaged during the activities permitted herein at permittee's expense.
5. The applicant is responsible for maintaining the public lands in a neat, orderly fashion, and shall clean the lands following the activities permitted herein at the permittee's expense.
6. The applicant agrees to comply with all federal, state and local regulations and gather all necessary permits thereto required for the activities permitted herein. Any permits required thereto shall be provided upon request from the Borough.
7. Minimize the utilization of the public place and inconvenience to the public throughout the activities permitted herein.
8. Expansion of the permitted area or timeframe is subject to prior review and acceptance by the Public Works Department, and an amendment shall be issued.
9. The Borough reserve the right to direct changes to this permit as necessary to ensure adequate public safety.
10. The permittee is responsible for any damages to utilities, streets, public or private property or otherwise caused by this work and agrees to repair said damages in full.
11. All contractors performing work under this permit must be properly licensed to perform the work, including all State of Alaska licenses.

Sample Site Plan



Required Items

- 1.) Length and type of pipe and valve material
- 2.) Burial depth of utilities
- 3.) Minimum sewer grade of 2%
- 4.) Grinder pumps will be required for inclined sewer lines
- 5.) Grinder pump line must be 1 1/4" HDPE
- 6.) Waterlines buried less than 12" must have heat trace
- 7.) KGB Public Works can assist in locates of existing services
- 8.) A Borough permit to work in the right-of-way may be required if service boxes cannot be located



Name: _____

Property Location: _____

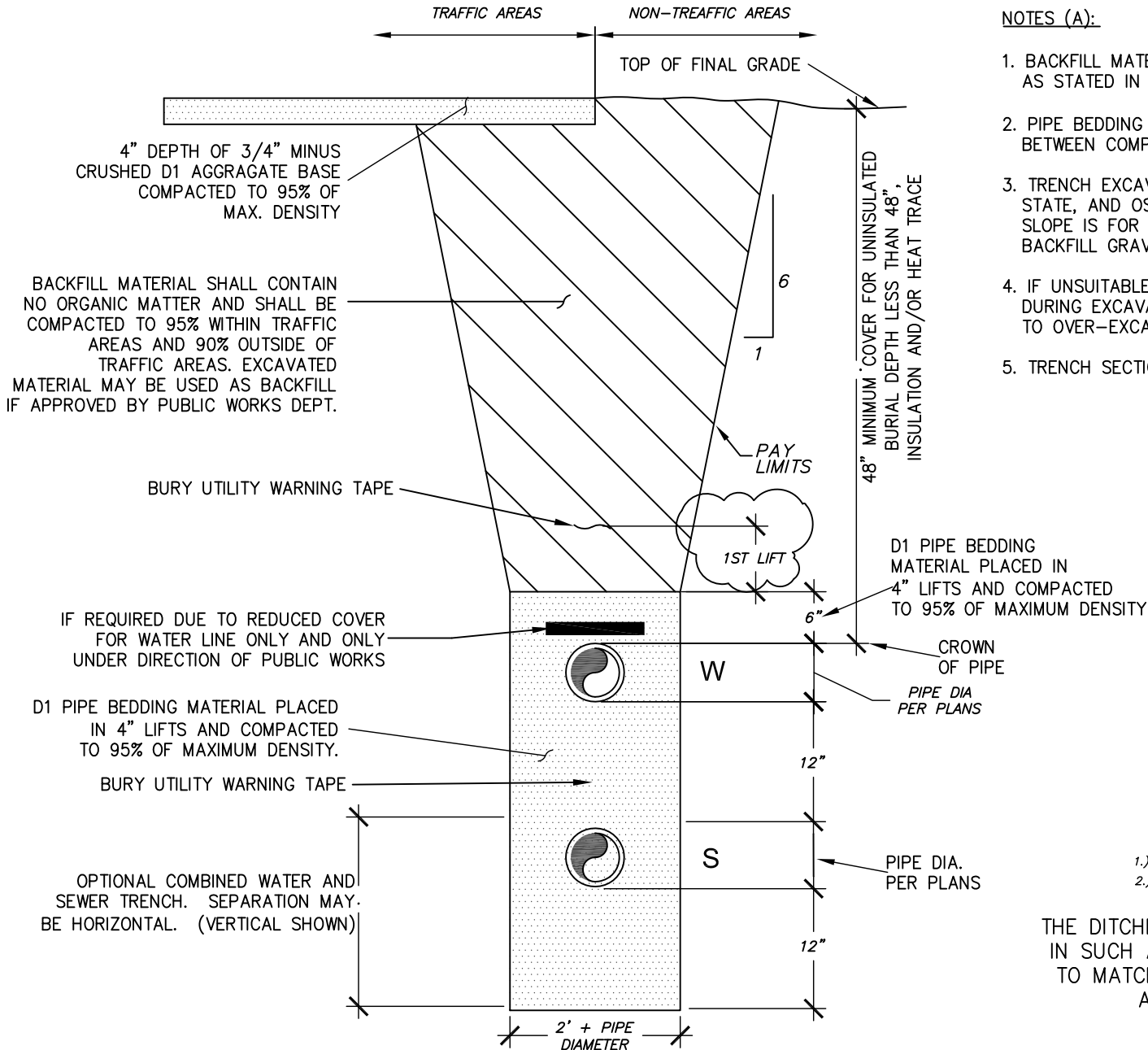
Borough Parcel Number: _____

Service Area: _____

Contact Information: _____

Date Prepared: 6/18/2012

Water, Sewer and Storm Drain Trench



NOTES (A):

1. BACKFILL MATERIAL SHALL BE PLACED IN 6" MAXIMUM LIFTS AS STATED IN SPECIFICATIONS.
2. PIPE BEDDING MATERIAL MUST BE PLACED IN 6" MAX LIFTS BETWEEN COMPACTION.
3. TRENCH EXCAVATION AND SHORING SHALL COMPLY WITH LOCAL, STATE, AND OSHA REGULATIONS AND REQUIREMENTS. INDICATED SLOPE IS FOR PAY QUANTITY DETERMINATION ONLY FOR IMPORTED BACKFILL GRAVEL AND RESURFACING REQUIREMENTS.
4. IF UNSUITABLE PIPE FOUNDATION MATERIAL IS ENCOUNTERED DURING EXCAVATION, PUBLIC WORKS MAY DIRECT THE CONTRACTOR TO OVER-EXCAVATE AND BACKFILL WITH SUITABLE MATERIAL.
5. TRENCH SECTION APPLICABLE FOR SEWER, WATER AND STORM DRAIN.

NOTES ABOUT INSULATED PIPES

1. INSULATION BOARD JOINTS SHALL BE LAPPED.
2. MINIMUM DEPTH OF COVER SHALL BE 18" UNLESS SHOWN OTHERWISE ON DRAWINGS AND PRIOR APPROVAL IS GRANTED FROM PUBLIC WORKS
3. ALL INSULATION SHALL BE DOW HI-60 EXTRUDED POLYSTYRENE (BLUE BOARD) OR OTHER APPROVED EQUAL MATERIAL.
4. 4" OF INSULATION IS EQUIVALENT TO 1' OF BURIAL

DEPTH OF COVER	INSULATION THICKNESS
4"0" OR GREATER	NONE REQUIRED
3'6" OR GREATER	2 INCHES
3'0" OR GREATER	4 INCHES

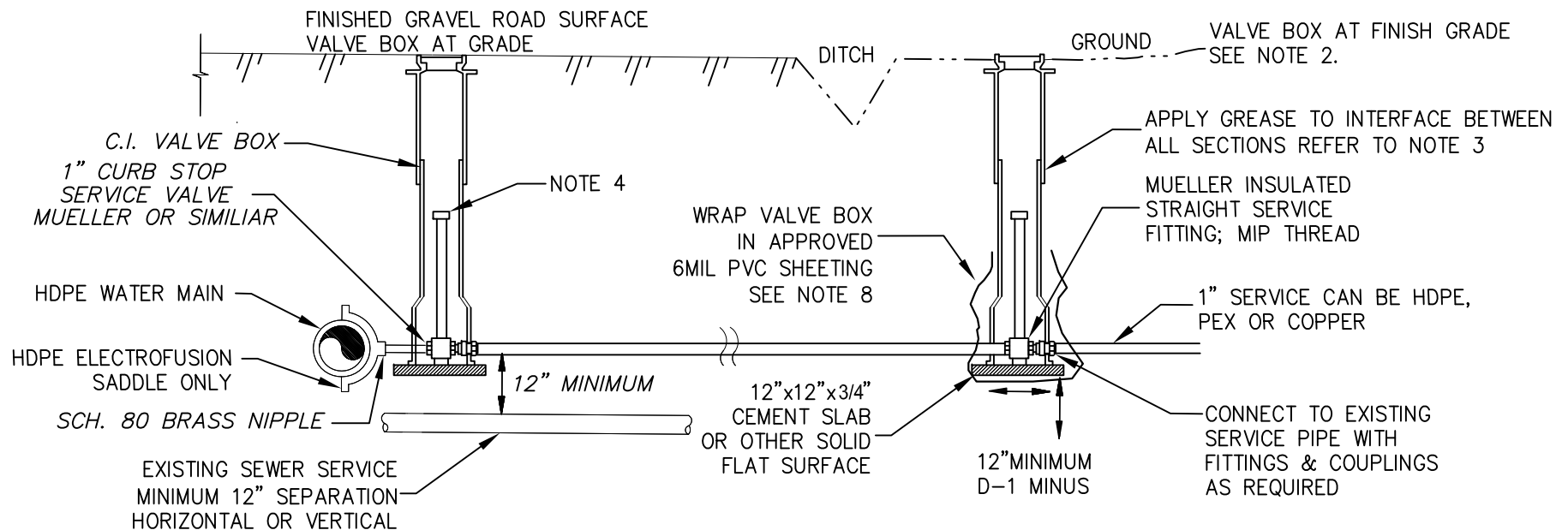
- 1.) WATERLINE BURIED LESS THAN 12" MUST HAVE HEAT TRACE
- 2.) RECOMMEND BURIAL DEPTH IS ONE FOOT BELOW AVERAGE FROST DEPTH

THE DITCHLINE, IF ONE EXISTS, SHALL BE RESHAPED IN SUCH A MANNER TO ALLOW POSITIVE DRAINAGE TO MATCH PRE-CONSTRUCTION CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.

Water Service Installation

NEW PIPE SERVICE

EXISTING SERVICE PIPE



NOTES:

1. IN ROAD OR DRIVEWAY SURFACE, TOP OF VALVE BOX LID TO BE INSTALLED 6" BELOW FINISH GRADE.
2. OUTSIDE OF ROAD PRISM, VALVE BOX LID TO BE INSTALLED AT FINISH GRADE OR ABOVE.
3. ALLOW 12" FOR RAISING VALVE BOX. GREASE THE OVERLAPPING PORTION.
4. A SERVICE VALVE ROD EXTENSION IS REQUIRED ON ALL SERVICE VALVES 6' OR MORE BELOW FINISHED GRADE.
5. EXTEND SERVICE PAST SERVICE VALVE TO EXISTING SERVICE PIPE AS REQUIRED TO ESTABLISH SERVICE OR AS INDICATED ON THE PLANS. WHERE SERVICE EXTENSION IS ABOVE GROUND, PIPE SHALL BE INSULATED WITH 2" OF FOAM INSULATION WITH PROTECTIVE COATING. (ARTIC PIPE TYPE)
6. PLACE BOARD INSULATION w/ BURIED UTILITY WARNING TAPE ABOVE AS REQUIRED.
7. 12" OF D-1 MINUS MUST SURROUND ALL VALVE BOXES
8. WRAP VALVE BOX IN APPROVED 6 MIL PVC SHEETING BEFORE BACKFILLING TO PREVENT WATER AND SILT INTRUSION.
9. WATER BOX MUST BE OF THREADED TYPE, BOX MUST BE CAST IRON MUELLER OR SIMILAR.

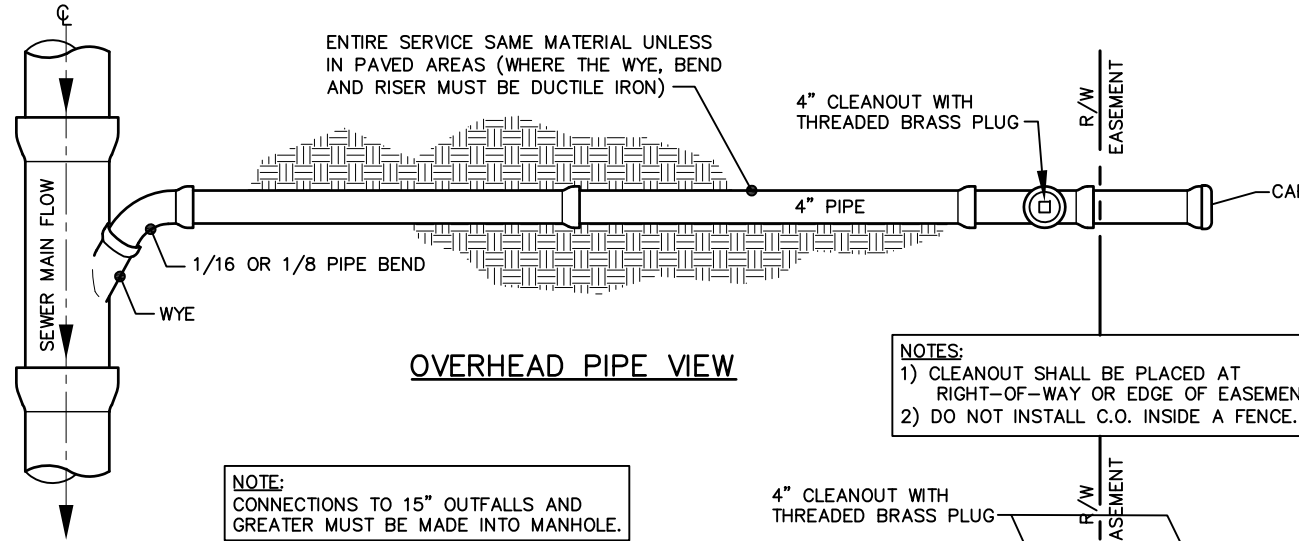
Sewer Service Connection

APPROVED MATERIALS

- 1) PIPE: CAST-IRON (ASTM A-74);
DUCTILE-IRON (AWWA C151 CLASS 50);
PVC (AWWA C900, pc 150, DR18);
ABS (ASTM D2661 min sch. 40);
HDPE (ASTM S2737, TYPE PE3408)
- 2) FITTINGS: CAST IRON FOR DUCTILE PIPE
DISSIMILAR MATERIAL MAY BE USED ONLY
IF THEY ARE STANDARD MANUFACTURED
FOR THE INTENDED APPLICATION.
- 3) ADAPTERS: CONNECTIONS BETWEEN PIPE
TYPES AND/OR SIZES SHALL BE MADE
WITH FLEXIBLE PIPE CONNECTORS SUCH
AS FERNCO OR MULTI-FITTINGS

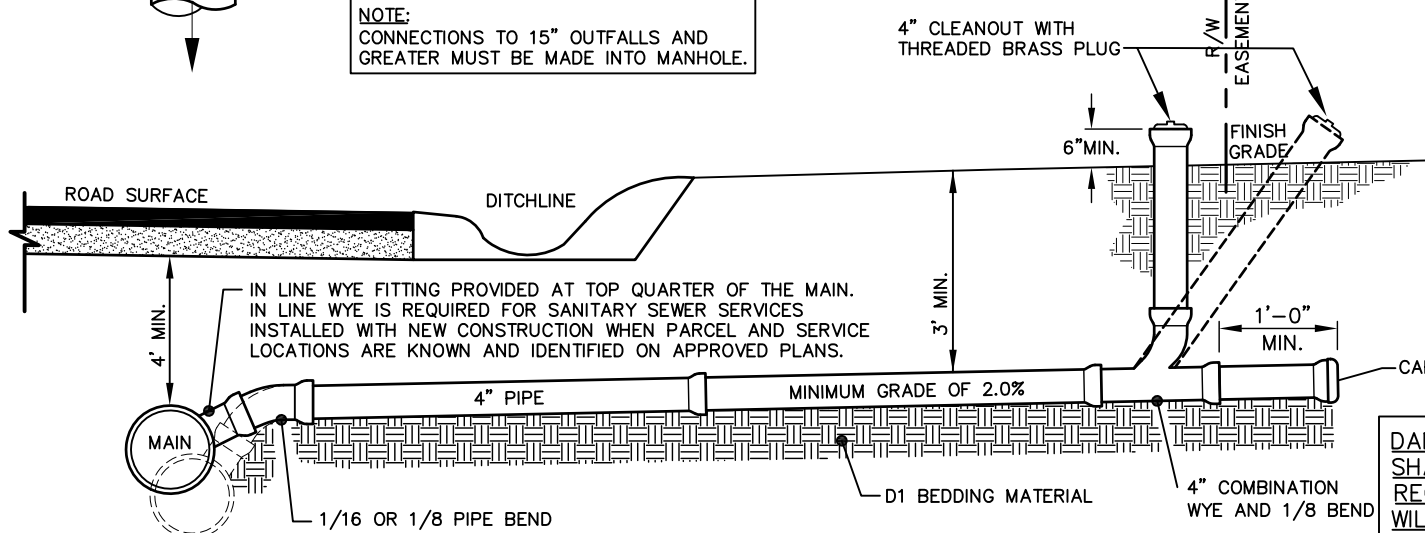
INSTALLATION REQUIREMENTS:

- 1.) GRADE SHALL BE 2% OR 2 FEET PER 100 FEET.
- 2.) MINIMUM GROUND COVER SHALL BE AT LEAST 18" ON PRIVATE PROPERTY AND
- 3.) NOT LESS THAN 36" AT THE PROPERTY LINE
- 4.) PUBLIC WORKS MAY WAIVE THESE REQUIREMENTS IF THEY CANNOT BE MET BECAUSE OF SITE LIMITATIONS
- 5.) ALL BEDDING MATERIAL SHALL BE 1" OR LESS IN SIZE
- 6.) ALL PIPE LAID IN A PUBLIC OR PRIVATE ROAD RIGHT OF WAY SHALL BE DUCTILE IRON, UNLESS PRIOR APPROVAL IS GIVEN BY KGB PUBLIC WORKS.
- 7.) 4" PIPE SHALL BE USED FOR SEWERS SERVING 1 OR 2 RESIDENTIAL UNITS. 6" PIPE SHALL BE USED FOR 3 TO 6 RESIDENTIAL UNITS. SEWER LINES SERVING 6 OR MORE RESIDENTIAL UNITS SHALL BE APPROVED BY PUBLIC WORKS ON A CASE BY CASE BASIS.
- 8.) MOBILE HOMES OR TRAILER HOUSES SHALL MEET THE SAME REQUIREMENTS AS A SINGLE RESIDENCE.
- 9.) A CLEAN OUT IS REQUIRED WHENEVER A COMBINATION OF A 45 DEGREE BENDS ARE USED AND IMMEDIATELY OUTSIDE THE HOUSE OR STRUCTURE.



NOTES:

- 1) CLEANOUT SHALL BE PLACED AT RIGHT-OF-WAY OR EDGE OF EASEMENT.
- 2) DO NOT INSTALL C.O. INSIDE A FENCE.

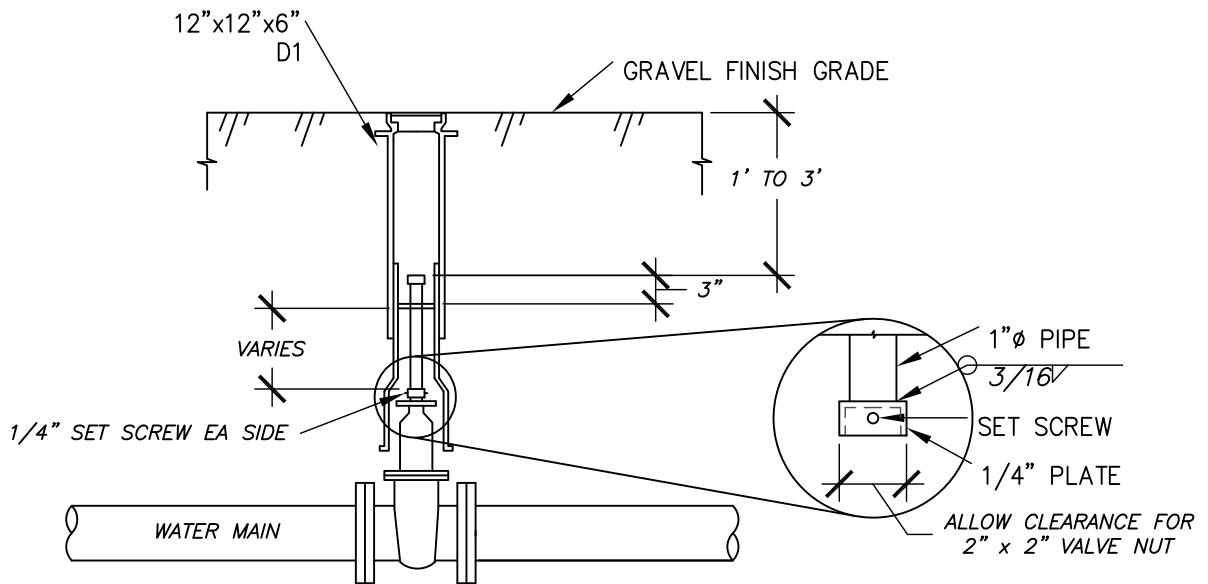


DAMAGED CAUSED TO SEWER MAINS BY ANY PERSON SHALL BE REPAIRED BY THE BOROUGH, AND A COST RECOVERY BILLING TO THE PARTY INVOLVED WILL BE WILL BE ISSUED BY THE BOROUGH. COST RECOVERY WILL INCLUDE THE COST OF MATERIALS, LABOR AND ANY OTHER COSTS ASSOCIATED WITH THE REPAIR.

6/7/2012

SECTION VIEW

Water Main Extension



NOTE: EXTENSION IS REQUIRED ON ALL VALVES WHERE OPERATING NUT IS 6 FT OR MORE BELOW FINISHED SURFACE.

NOTES:

1. NEW VALVE BOX TO ALLOW FOR 12" MINIMUM VERTICAL ADJUSTMENT
2. THREADED VALVE BOX SECTIONS ARE REQUIRED.
3. CONTRACTOR SHALL APPLY GREASE TO ALL INTERFACES BETWEEN VALVE BOX SECTIONS.
4. COMPACTION AROUND VALVE BOX INSTALLATION IS CRITICAL. CONTRACTOR SHALL EMPLOY MECHANICAL TAMPING METHODS TO ENSURE THAT MATERIAL AROUND VALVE BOX REACHES 95% OF MAXIMUM COMPACTION.
5. CONTRACTOR SHALL INSTALL A 6" MINIMUM THICKNESS OF D-1 BEDDING AROUND VALVE BOX DURING BACKFILL.
6. EXTENSION IS REQUIRED ON ALL VALVES WHERE OPERATING NUT IS 6' OR MORE BELOW FINISHED SURFACE.