...and in 1988
standards should be
looking on updated
We are making
CONSTRUCTION STANDARDS
FOR
CITY OF KENT
KING COUNTY, WASHINGTON
ORDINANCE NO. 1142
AUGUST, 1962

$2.00

See KCC 4.04
which refers to 3-1677;
Adopting "Standard
Spec for Municipal
Public Works Construction
—1969 Edn."

10/86 probably 1985—
probably need now.

HILL & INGMAN
CONSULTING ENGINEERS
SEATTLE, WASHINGTON
CONSTRUCTION STANDARDS
FOR
CITY OF KENT
KING COUNTY, WASHINGTON

ORDINANCE NO. 1142
AUGUST, 1962

AS AMENDED BY ORDINANCE NO. 1332
AS REPEALED BY ORDINANCE NO. 1775
AS AMENDED BY ORDINANCE NO. 1820

$2.00
ATTENTION: OWNER/DEVELOPER

OBTAIN THE FOLLOWING FORMS FROM PROPERTY MANAGEMENT:

1. EXTENSION AGREEMENT
2. ENGINEERING AGREEMENT
3. CASH BOND
4. PERFORMANCE BOND
5. WARRANTY AGREEMENT
6. BILL OF SALE
7. EASEMENT FORMS (WHEN APPLICABLE)
The Honorable Mayor and
Members of the City Council
City Hall
Kent, Washington

Subject: Construction Standards,
City of Kent - Ordinance #1142

Attention: Glen W. Sherwood,
City Engineer

Gentlemen:

Specifications for the above noted Construction Standards
received in this office July 24, 1963, have been reviewed
and, in accordance with Chapters .54 and .92 of the codified
Rules and Regulations of the State Board of Health and the
State Department of Health are hereby approved.

Very truly yours,

BERNARD BUCOVE, M.D., D.P.H.,
State Director of Health

cc: State Pollution Control Comm.
"King County Health Dept."
OFFICIALS OF THE CITY OF KENT.
AUGUST, 1962

MAYOR
Alex Thornton

City Council
Gertrude Dovell Carl Pozzi
Dave Durand Robert Matthews
Dave Mooney Ted Strain

Larry Woodworth

Former Members in 1962
Neil Shaffer
Phyllis Mauritsen
Arthur Hartlaub

-----------------------------

Charles Bridges
Clerk

Glen Sherwood
Engineer

Emerson Thatcher
Attorney
AN ORDINANCE OF THE CITY OF KENT CREATING AND PROVIDING CONSTRUCTION STANDARDS AND INSTRUCTIONS TO DEVELOPERS; DEFINING TERMS; PROVIDING INFORMATION ON ANNEXATION TO THE CITY, ON CONSTRUCTION FINANCING AND PROCEDURES; PROVIDING FOR CONNECTION FEES TO CITY UTILITIES SYSTEMS AND THE TIME OF PAYMENT THEREOF; PROVIDING FOR ENGINEERING REQUIREMENTS, FEES, AND TIME OF PAYMENT THEREOF; PROVIDING FOR APPLICATION FOR PERMISSION TO EXTEND CITY UTILITIES SYSTEMS, FOR ENGINEERING AGREEMENTS, FOR BONDS, EASEMENTS, BILLS OF SALE, AND GENERAL GUARANTY AND WARRANTY ON SUCH EXTENSIONS; PROVIDING GENERAL CONDITIONS FOR CONSTRUCTION BY DEVELOPERS, INCLUDING GENERAL REQUIREMENTS, SCOPE OF WORK, CONTROL OF WORK, CONTROL OF MATERIALS AND LEGAL RELATIONS AND RESPONSIBILITIES TO THE PUBLIC; PROVIDING GENERAL SPECIFICATIONS; PROVIDING STANDARD DETAILS; AND PROVIDING AN EFFECTIVE DATE.

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF KENT as follows:
PART I - INSTRUCTIONS TO DEVELOPERS

Section A - Information for Developers

1. Introduction

2. Annexation to the City
   2.1 - Petition Method
   2.2 - Election Method
   2.3 - Resolution by the City

3. Construction financing
   3.1 - Financing by Developer
   3.2 - Financing by Local Improvement District

4. Procedure
   4.1 - Preliminary
   4.2 - Before Starting Construction
   4.3 - After Construction Complete & Before City has Accepted Work
   4.4 - Before Connection to the System

Section B - Connection Fees

1. Introduction

2. Connection Fees
   2.1 - Sanitary Sewer System
   2.2 - Water System
   2.3 - Storm Sewer System
   2.4 - Street System

3. Time of Payment
   3.1 - Sanitary Sewer Connection Fees
### 3.2 - Water System Connection Fees

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PART I - INSTRUCTIONS TO DEVELOPERS

SECTION A - INFORMATION FOR DEVELOPERS

1. INTRODUCTION

The purpose of this guide is to advise developers, builders, contractors and all other interested persons as to the general requirements and construction standards of the City of Kent, King County, Washington. These general requirements and standards apply to all new developments that involve an extension or connection to the City's present sanitary sewers, storm sewers, water lines or other utilities and street improvements.

2. ANNEXATION TO THE CITY

If the property under consideration for development is located outside the existing boundaries of the City of Kent, the following procedures are required if consideration is given to annex to the City.

2.1 Petition Method

The petition by property owners method of annexation requires that the owners of not less than 10% in value, according to the assessed valuation for general taxation of the property for which annexation is petitioned, must notify the City Council of their intention to commence the proceedings. The Council, then, must set a date not later than 60 days after the filing of the request for a meeting with the initiating parties to determine whether the City will accept the proposed annexation, and whether it will require the assumption of existing city or town indebtedness. If it does not require it, this must appear in the Minutes of the Council and the Annexation Petition must be so drawn as to clearly indicate this fact. After the hearing and the determination with the respect to taxation, if the Council approves, a
petition may then be prepared and circulated, and must be signed by the owners of not less than 7½ in value, according to the assessed valuation for general taxation of the property for which the annexation is petitioned. If the petition meets all requirements, the Mayor then calls for a review by the review board. Upon receiving the review board's recommendation, the City Council then proceeds to annex the area.

2.2 Election Method

A petition for annexation of an area by election shall be submitted to the City Council. The petition shall contain the signatures of 20 per cent of the number of registered voters that voted in the last election. The Council then decides if it will accept the annexation and whether it will require the assumption of indebtedness. If acceptable by the City, the petition is filed with the County Commissioners calling for an election. Within ten days, the review board is called by the Mayor for approval. An election is then held to determine if the area should be annexed.

2.3 Resolution by the City

This method is similar to the election method, except the City Council establishes the boundaries of the annexation by a resolution. A board of review and an election are held similar to that described in Paragraph 2.2.

3. CONSTRUCTION FINANCING

It is the policy of the City of Kent that the cost of construction of all development improvements be borne by the owners.
of the property benefited. The City will provide, insofar as possible, the sewage treatment facilities, water supply and transmission system. There are two methods by which the improvements may be installed.

3.1 Financing by Developer

In this type of program, the Developer furnishes and installs the required facilities to serve the property under development. All the costs involved are paid by the Developer, and the system is constructed in accordance with the requirements of the City.

3.2 Financing by Local Improvement District

If the Developer desires, a local improvement district may be formed that will include the property to be developed. The property that is benefited by the improvement pays the entire cost of said improvement through assessments. The assessments may be paid over a period of five to ten years with interest, or be paid up in full at any time. An L. I. D. may be initiated by a petition signed by the owners, as shown by the records of the County Auditor, of property aggregating a majority either of the lineal frontage upon the improvement or of the area within the proposed Improvement district or by resolution of the City Council. After the local improvement district is formed, the City will hold hearings, call for and award construction bids, and sell bonds to finance the improvements. The cost of an L. I. D., however, may not exceed the actual value of the real property within the district, except in the case of sanitary sewage necessary for public health.

4. PROCEDURE

The following steps are necessary when planning an extension
of the City of Kent's sewer, water or street system.

4.1 Preliminary

Meet with the City Engineer to discuss the proposed improvement program.

Complete an application for Permission to Extend the City of Kent's Utility System.

Pay the engineering deposit fee, if required.

Provide the City Engineer with a final plat and topographical map of the area to be served.

4.2 Before Starting Construction

Complete the Engineering Agreement.

a. If project is designed by Developer's engineer, pay plan checking deposit, have the plans checked and pay plan checking costs less deposit.

b. If project is designed by City, pay engineering design fee less deposit.

c. Obtain State Pollution Control Commission and Health Department approval.

d. Submit performance and cash bond for approval.

e. Submit right-of-way easements or deeds for approval.

4.3 After Construction Complete and Before City has Accepted Work

Pay all engineering and inspection costs in full.

Submit Utilities bill of sale for approval.

Submit one year contractor guarantee form for approval.

4.4 Before Connection to the System

Complete Application and Sewer Permit and pay sewer connection charges.

Complete Application for Water and pay water connection charges.
SECTION B - CONNECTION FEES

1. INTRODUCTION

Utility connection fees are to be paid to the City of Kent, in accordance with the applicable ordinances and requirements in effect. The amount of these charges and time of payment are as outlined in the following description:

2. CONNECTION FEES

2.1 - Sanitary Sewer System

A connection charge for sewer in place of $70.00 per single family residential lot or $150.00 per acre is made for all property to served within the City. These charges are $125.00 per single family residential lot or $200.00 per acre for property not within the City.

A hook-up charge in lieu of assessment of $2.50 per 100 square feet is made if connection is possible to an existing sewer. This charge is made only if the property involved has not been assessed for the sewer to which it is connected.

A side sewer permit fee of $10.00 per lot is charged for each side sewer installed within the City.

2.2 - Water System

A water in place charge of $50.00 per lot or $100.00 per acre is made for all property to be served within the City. These charges are $100.00 per lot or $200.00 per acre if the property to be served is not within the City.

A water main installation charge of $2.00 per foot of lot frontage is made if connection is required to an existing water main within the City. This charge is $2.50 per foot of lot frontage if the property is not within the City.
A service connection to main charge is made of $100.00 per 3/4" water meter within the City, or $150.00 per 3/4" water main not within the City.

2.3 - Storm Sewer System
(No connection charge at present)

2.4 - Street System
(No Extension charge at present)

3. TIME OF PAYMENT

3.1 - Sanitary Sewer Connection Fees
The connection charge is payable in full at the time of making the Application and Sewer Permit for the lot or property.

The hook-up charge in lieu of assessment is payable in full at the time of making the Application and Sewer Permit.

The side sewer permit fee is payable at the time of making the Application and Sewer Permit.

3.2 - Water System Connection Fees

The water in place charge is payable in full at the time of making the Application for Water for the lot or property.

The water main installation charge is payable at the time of making the Application for Water. This charge may be deferred for payment in four quarter-annual installments, with interest at five (5) percent per annum on the unpaid balance.

The service connection to main charge is payable in full at the time of making the Application for Water.
SECTION C - ENGINEERING

1. INTRODUCTION

The engineering services required for the proposed improvements may be done by either an engineer retained by the Developer or by the City of Kent Engineering Department. All engineering work done by the City shall be paid for by the Developer.

2. ENGINEERING BY DEVELOPER

The Developer may retain an engineer to prepare design plans and specifications on street, sewer and water main extensions for submittal to the City for checking and approval. The design must be prepared by a registered professional engineer licensed to practice in the State of Washington.

The Design shall be approved by the City, and must meet all City requirements as to sheet size, title blocks, scale, and drawing standards. See Drawing No. A-1 for these standards.

The design plans and specifications, when submitted to the City Engineer, must be complete in all respects, designed in accordance with construction standards of the City, and comply with all City regulations and ordinances. Three sets of plans and specifications are to be submitted, and the City Engineer will return one set with the corrections noted thereon. After the plans have been approved, a set of reproducible tracings shall be turned in to the City for their use. The fee for checking design plans shall be in accordance with Paragraph 4.2.

It shall be the responsibility of the Developer to obtain the State Pollution Control Commission and Health Department approval after approval of the plans and specifications by the City. No construction work may be started until the plans are approved by
both the City and the State regulatory agencies.

All survey work and field staking necessary for construction of the improvements shall be done by the Developer's Engineer.

Should the proposed improvement involve a sewage pumping station, force main, water pumping station, storage reservoir or other general facility, the City must do this Engineering work, and prepare plans and specifications with the cost being paid by the Developer.

3. ENGINEERING BY THE CITY

Should the Developer desire, the engineering design work on extensions will be done by the City, and paid for by the Developer. All design work, however, on pumping stations, storage reservoirs and general facilities must be done by the City.

If the improvement is designed by the City, the approvals from the State Pollution Control Commission and Health Department will be obtained by the City.

Field staking for construction of work designed by the City will be done at the request of the Developer. The Developer, however, shall furnish the Survey Control and monument locations. The fee for field staking shall be in accordance with Paragraph 4.4.

The Inspection of all construction of improvements will be made by the City during the progress of the work. This shall apply whether the Developer's engineer or the City Engineer has designed the extensions.
4. **ENGINEERING FEES**

4.1 - Design

For all facilities designed by the City the fee shall be as follows:

a. Sanitary Sewers - $0.40 per linear foot of sewer pipe installed.

b. Storm Sewers - $0.30 per linear foot of sewer pipe installed.

c. Water Mains - $0.30 per linear foot of water pipe installed.

d. Streets, Curbs and Gutters - $1.00 per center-line foot of street constructed.

e. Sidewalks - $0.15 per foot of sidewalk constructed.

f. Pumping Stations, Storage Reservoirs, and other general facilities -- The actual number of man hours required at the rate of $10.00 per hour of engineering and $7.00 per hour of drafting.

4.2 - Plan Checking

For all facilities designed by the Developer's Engineer and submitted for checking, the cost of checking shall be computed by the actual number of man hours required at the rate of $10.00 per hour. The minimum plan checking fee is $50.00.

4.3 - Field Staking

For all field staking work required for construction the cost shall be computed by the actual number of man hours required at a rate of $7.00 per hour.

4.4 - Inspection

The inspection fee for all improvements under construction shall be computed as follows:

a. Sanitary Sewers - $0.25 per linear foot of sewer pipe installed, incl. Side Sewers.
b. Storm Sewers - $0.13 per lineal foot of sewer pipe installed, incl. catch basin piping.

c. Water Mains - $0.15 per lineal foot of water pipe installed.

d. Streets, Curbs and Gutters - $0.25 per centerline foot of street constructed.

e. Sidewalks - $0.05 per foot of sidewalk constructed.

f. Pumping Stations, Storage Reservoirs, and other General Facilities - The actual number of man hours required at the rate of $10.00 per hour of engineering and $7.00 per hour of Inspector's time.

4.5 - Combination of Projects

When all the improvements for a specific project are designed and/or inspected and adjustment in the total engineering costs will be made as follows:

a. Design - The engineering fee shall be determined by the actual number of man hours required at the rate of $10.00 per hour of engineering and $7.00 per man hour of surveying and drafting. In no case shall the total fee exceed that computed in Paragraph 4.1.

b. Inspection - The inspection fee shall be determined by the actual number of man hours required at the rate of $10.00 per hour of engineering and $7.00 per hour of inspection time. In no case shall the total fee exceed that computed in Paragraph 4.4.

5. TIME OF PAYMENT

5.1 - Design Fee

The engineering design fee in accordance with Paragraph 4.1 shall be paid in two installments. The first payment shall be a deposit of $300.00, and is due upon making application for Permission to Extend the City of Kent's Utility System. The final payment is due when the design is completed, and is computed as outlined above less the deposit amount. Should the total cost be less than the deposit, the balance will be refunded.
5.2 - Plan Checking

The plan checking fee shall be paid in two installments. The minimum $50.00 fee shall be paid at the time of submitting the plans to the City Engineer for checking. The additional plan checking cost, if any, in accordance with Paragraph 4.2, shall be paid after plans have been checked and approved.

5.3 - Field Staking

The field staking fee shall be paid monthly as the work progresses, in accordance with Paragraph 4.3.

5.4 - Inspection Fee

The inspection fee shall be paid monthly as the work progresses, in accordance with Paragraph 4.4. All engineering and inspection fees must be paid before final acceptance of the work by the City.
APPLICATION

FOR

PERMISSION TO EXTEND THE UTILITY SYSTEM

CITY OF KENT

KING COUNTY, WASHINGTON

The undersigned hereby makes application for an extension of the utility system on the following described property which is situated _______ side the corporate limits of said City, in King County, Washington, to-wit:

1. Legal Description of Property:

________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

2. Description of Improvements and Approximate Length:

| Sanitary Sewer | _________ | Lineal Feet |
| Storm Sewer    | _________ | Lineal Feet |
| Water Mains    | _________ | Lineal Feet |
| Streets, Curbs & Gutters | _________ | Lineal Feet |
| Sidewalks      | _________ | Lineal Feet |
| General Facilities | _________ |            |

3. Connection Charges:

Sewer connection and water charges are due and payable in full at time of making application for sewer permit and water service.

(SEE PAGE TWO)
4. Engineering:
   An Engineering and Inspection fee will be paid to the City of Kent in accordance with Part I, Instructions to Developers, Section C. If design work by the City is required, a deposit of $__________ is payable in full with this application.

   In consideration of the permission to extend the City of Kent's Utility System, I hereby promise and agree to conform to all Ordinances and Rules of the City of Kent, and that I hereby agree to pay all of the expense of said extension, connection charges and engineering fees as required.

OWNER: ________________________________

BY: ________________________________

ADDRESS: ________________________________

DATED: ________________________________, 19__

APPROVED: ________________________________, 19__
ENGINEERING AGREEMENT

CITY OF KENT
KING COUNTY, WASHINGTON

The undersigned hereby requests that the City of Kent, in King County, Washington, by its City Engineer, its Consulting Engineers, or both, perform the engineering and inspection work in connection with Application No. for permission to Extend the Utility System.

The undersigned does hereby agree to pay forthwith to the City of Kent for said services at the following rate schedule, to-wit:

1. Design (if designed by City)

Total charge for Engineering design will be based on the actual city costs. Said costs, which include equipment rental, shall be per the attached rates.

Less $ deposit accompanying this application

Amount due after design, but before construction:

2. Plan Checking (if designed by Developer)

Total charge for Plan Checking will be based on the actual city costs per the attached rates.

Less $50.00 minimum fee to be paid at the time of submitting plans

Amount due after approval of plans, but before construction

(SEE PAGE TWO)
3. **Field Staking**

Total charge for Field Staking will be based on the actual city costs. Said costs, which include equipment rental, shall be per the attached rates.

(Payable upon monthly billing)

4. **Construction Inspection**

Total charge for Construction Inspection will be based on the actual city costs. Said costs, which include equipment rental, shall be per the attached rates.

5. **Engineering Inspection**

Total charge for Engineering Inspection will be based on the actual city costs. Said costs, which include equipment rental, shall be per the attached rates.

Total Inspection Fee
(Payable upon monthly billing)$

OWNER: ____________________________

BY: ________________________________

ADDRESS: __________________________

DATED: ____________________, 19___

APPROVED: ________________________, 19___

-----------------------------------
CITY ENGINEER
## ESTIMATED 1977 HOURLY RATE SCHEDULE
(SUBJECT TO CHANGE)

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<td>Survey Stakes</td>
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<td>Monuments, Cases &amp; Lids</td>
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<tr>
<td>Iron Pipe, Rebar, Etc.</td>
<td>COST</td>
</tr>
</tbody>
</table>
IN WITNESS WHEREOF, the above bounden parties have executed this instrument under their several seals this ___ day of ___, the name and corporate seal of each corporate party hereto affixed, and these presents duly signed by its undersigned representative pursuant to authority of its governing body.

PRINCIPAL

BY: ________________________________

TITLE: ________________

TWO WITNESSES: ________________________________

ATTEST: (If Corporation)

BY: ________________________________

TITLE: ________________

Corporate Seal: ________________________________

SURETY

BY: ________________________________

TITLE: ________________

ADDRESS ________________________________

Corporate Seal: ________________________________

CERTIFICATE AS TO CORPORATE SEAL

I hereby certify that I am the (Assistant) Secretary of the Corporation named as Principal in the within Bond: that the Principal was ________________ of said Corporation; that I know his signature thereto is genuine, and that said Bond was duly signed, sealed, and attested for and in behalf of said Corporation by authority of its governing body.

By: ________________________________

Secretary or Assistant Secretary

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WHEREAS, the undersigned developer, as a developer, made and entered into a certain contract with a contractor, by name ___________, dated __________, 19__, for __________________________ work in connection with the developer's project in __________, County of King, State of Washington and

WHEREAS, the developer has a permit from the City of Kent to construct and install certain installations upon certain roads and rights-of-way of the City of Kent, all of which construction and installation is covered by and within the developer's contract with the contractor; and

WHEREAS, it has been agreed by the undersigned developer and the City of Kent that a corporate surety company performance bond will be required of the undersigned developer and that he also will cause to be deposited with the City of Kent the sum of Five-hundred ($500.00) Dollars in cash to insure that all work complies with the City requirements; and

WHEREAS, the City of Kent requires to be set down in writing the terms, conditions, and agreements with relation to said $500.00 cash deposit;

NOW THEREFORE, it is understood and agreed as follows:

1. That the said developer and/or his contractor has deposited with the City of Kent, $500.00, receipt whereof is hereby acknowledge by the City of Kent.

2. That if the said developer and/or his contractor shall well truly and faithfully perform all of the provisions and fulfill all of the undertakings, covenants, terms, conditions and agreements of said permit or permits issued by the City of Kent, during the period of the original contract and any extensions thereof, that may be granted by the developer, with or without notice to the City of Kent, and during the life of any guaranty required under the said contract, or by said permit or permits, and shall also well and truly perform and fulfill all of the undertakings, covenants, conditions and agreements of any and all duly authorized modifications of said contract or permit that may hereafter be made, then and in that event the said moneys deposited with the City of Kent under the terms hereof shall be released to the said developer.

3. If, however, the said developer shall fail to perform all of the undertakings, covenants, terms, and conditions and agreements of said contract and of said permit or permits issued thereon, or any extensions or modifications thereof, or if the terms of any guaranty that may be required by the terms of said contract or permit or permits shall not be met, then and in that event the City of Kent shall be and it is hereby authorized, without obligation to the said developer, to apply said money, or so much thereof as may
be necessary, to make necessary payments or to employ and pay the necessary persons and buy the necessary materials to complete the work provided for in said contract, or to make said work comply to the terms of any guaranty provided in said contract, and to the terms of said permit or permits, and upon said completion and/or the making of said work to comply with the terms of such guaranty and of such permit or permits, deliver to the developer, after deduction by the said City of necessary expenses in connection with the application of the fund to said work, the overplus, if any.

4. Nothing herein contained shall prevent the City of Kent from taking such other measure or measures as it may or might have to require that the work done under the permit issued by it comply with said permit.

IN WITNESS WHEREOF THE said developer has hereunto set his hand this ________ day of ______________, 19___.
SECTION 6

EASEMENT

THIS INSTRUMENT made this ___ day of _____, 19___, by

and between ___________________________ and ___________________________,

his wife, hereinafter call "Grantors", and CITY OF KENT, a municipal
corporation of King County, State of Washington, hereinafter called
"Grantee";

WITNESSESSETH:

That said Grantors for and in consideration of the sum of
$1.00 to them in hand paid by the said Grantee, and other valuable
consideration, receipt of which is hereby acknowledged, do by these
presents grant, bargain, sell, convey, and confirm unto the said
Grantee a right-of-way or easement for ___________________________,

with necessary appurtenances over, through, across and upon the

following described property situated in King County, Washington,

more particularly described as follows:

The said Grantee shall have the right without prior insti-
tution of suit or proceeding at law, at times as may be necessary,
to enter upon said property for the purpose of constructing,
repairing, altering or reconstructing said ___________________________, or
making any connections therewith, without incurring any legal
obligation or liability therefor; provided that such constructing,
repairing, altering or reconstructing of said ___________________________
shall be accomplished in such a manner that the private improvements
existing in this right-of-way shall not be disturbed or destroyed,
or in the event that they are disturbed or destroyed, they will be
replaced in as good a condition as they were immediately before
the property was entered upon by the Grantee.

The Grantor shall retain the right to use the surface of said
easement so long as said use does not interfere with the install-
ation and maintenance of the and so long as no
permanent buildings or structures are erected on said easement.

This easement shall be a covenant running with the land and
shall be binding on the Grantor's successors, heirs and assigns.

STATE OF WASHINGTON  
COUNTY OF KING

I, the undersigned, a notary public in and for the State of
Washington, hereby certify that on this day of , 19
personally appeared before me

known to be the individual(s) described in and who executed the
foregoing instrument and acknowledged that they signed and sealed
the same as their free and voluntary act and deed for the uses and
purposes therein mentioned.

Notary Public in and for the State of Washington
residing at .
SECTION II
BILL OF SALE
CITY OF KENT
KING COUNTY, WASHINGTON

MAIL TO:
Gerald B. McCaughan
City of Kent
P. O. Box 310
Kent, WA 98031

KNOW ALL MEN BY THESE PRESENTS, that for a valuable consideration, ___________________________, Grantor, does hereby grant, bargain, and sell to the CITY OF KENT, KING COUNTY, WASHINGTON, municipal corporation, the Grantee, the following described improvements situated in King County, Washington:

WATER MAINS

ON FROM TO SIZE

SEWER LINES

ON FROM TO SIZE

Including approximately _______ lineal feet of _______

pipe,

To have and to hold the same to the said Grantee, its successors and assigns forever.

The undersigned hereby covenants that it is the lawful owner of said property; that the same is free from all encumbrances; that all bills for labor and material have been paid; that it has the right to sell the same as aforesaid; that it will warrant and defend the same against the lawful claims and demands of all persons.
The Bill of Sale is given in consideration of the agreement of the Grantee, for itself, its successors and assigns to incorporate said utilities in its utility system and to maintain them as provided in the applicable City Ordinances.

This Bill of Sale is given and accepted pursuant to Ordinance No. ______ of the City of Kent, King County, Washington.

IN WITNESS WHEREOF, the undersigned has caused this instrument to be executed by its proper officers and its corporate seal to be affixed this ____ day of ______, 19_____.

__________________________
BY _______________________

__________________________
BY _______________________  

STATE OF WASHINGTON)  
) SS  
COUNTY OF KING  
)

On this _____ day of ______, 19___, before me, the undersigned, a Notary Public in and for the State of Washington, duly commissioned and sworn, personally appeared ______________________ and ______________________ to me known to be the ______________________ and ______________________ of ______________________ CORPORATION, THE Corporation that executed the foregoing instrument, and acknowledged the said instrument to be the free and voluntary act and deed of said corporation, for the use and
purposes therein mentioned, and on oath stated that they were authorized to execute the said instrument and that the seal affixed is the corporate seal of said corporation.

WITNESS my hand and official seal hereto affixed the day and year first above written.

Notary Public in and for the State of Washington, residing at
SECTION J

GENERAL GUARANTEE AND WARRANTY

CITY OF KENT

KING COUNTY, WASHINGTON

PROJECT:__________________________________________

For a period of One (1) year from the date of final acceptance of the work by the City of Kent, all parts of the work shall be guaranteed by the Owner to remain in perfect working order and condition except where abused or neglected by the City, and the Owner shall repair or replace, at his own expense, any work or material that may prove to be defective during the period of this guarantee. The Owner shall obtain warranties from sub-contractor and suppliers of material or equipment where such warranties are specifically required, and shall deliver copies to the City of Kent upon completion of the work.

OWNER:__________________________________________

ADDRESS:________________________________________

DATE:____________________________________________
PART II - GENERAL CONDITIONS FOR CONSTRUCTION BY DEVELOPERS
SECTION A - DEFINITIONS AND TERMS

1. CITY
The City of Kent acting through its legally constituted officials, officers, or employees.

2. ENGINEER
The City Engineer, including such assistants as are authorized to represent him.

3. CONSULTING ENGINEER
A licensed engineer or an authorized member of a licensed consulting firm or organization retained by the Owner for design and supervision of its public works.

4. INSPECTOR
The inspector or inspectors of the Owner who are placed in supervision of any part of the inspecting or engineering work with authority limited by the particular duties entrusted by the Engineer.

5. DEVELOPER
The party or lawful agent of the party having an agreement with the City granting permission to extend the utility system. This term shall also include the Developer’s contractor, subcontractor, employees, and/or agents.

6. WORK
All the work specified, indicated, shown or contemplated in the contract to construct the improvement, including all alterations, amendments or extensions thereto made by contract change order or other written orders of the Engineer.
SECTION B - GENERAL REQUIREMENTS

1. QUALIFICATION
The Developer's contractor must be qualified by experience, financing and equipment to do the work called for in the plans and specifications.

2. FAMILIARITY WITH LAWS AND ORDINANCES
The developer is assumed to be familiar with all federal, state and local laws, ordinances, and regulations, which in any manner affect those engaged or employed in the work or the materials or equipment used in the proposed construction, or which in any way affect the conduct of the work, and no plea of misunderstanding will be considered on account of ignorance thereof.

3. PERFORMANCE BOND AND CASH BOND
The developer shall, before construction is started, furnish to the City a corporate surety bond in the full amount of the contract price conditioned for the faithful performance of the contract, and a $500.00 cash bond. The surety must be authorized to do business in the State of Washington and be satisfactory to the City. The bond must be executed on a form contained herein approved by the legal representative of the City.

4. DEVELOPER'S INSURANCE
The developer shall not commence work under the contract or under any special condition until he has obtained all insurance as required under the following sub-paragraphs, and until such insurances have been approved by the City, nor shall the developer allow any contractor to commence work on his contract until all similar insurances required of the contractor have been obtained and approved.
2.1 Compensation Insurance

The developer shall take out and maintain during the life of this contract Workmen’s Compensation Insurance for all of his employees employed at the site of the project and, in case any work is sublet, the developer shall require the subcontractor similarly to provide Workmen’s Compensation Insurance for all the latter’s employees unless such employees are covered by the protection afforded by the developer. In case any class of employees engaged in hazardous work under the contract at the site of the project is not protected under Workmen’s Compensation statutes, the developer shall provide, and shall cause each subcontractor to provide compensation insurance with a private company in an amount equivalent to that provided by the Workmen’s Compensation statute for the protection of his employees not otherwise protected.

2.2 Public Liability and Property Damage Insurance

The developer shall take out and maintain during the life of the contract such Public Liability and Property Damage insurance as shall protect him and any subcontractor performing work covered by the contract from claims for personal injury, including accidental death, as well as from claims for property damages, which may arise from operations under this contract, whether such operations be by himself or by a subcontractor or by anyone directly or indirectly employed by either of them. This insurance shall name the City and Consulting Engineer as co-insured and the amounts of such insurance shall be as follows:
Public Liability insurance in an amount of not less than $100,000.00 for injuries, including accidental death, to any one person and, subject to the same limit for each person in an amount not less than $300,000.00 on account of one accident, and Property Damage insurance in an amount not less than $50,000.00.

2.3 **Indemnify Owner from Loss**

The developer hereby agrees to save the City harmless from all loss or damage occasioned to it or to any third person or property by reason of any carelessness or negligence on the part of the developer's contractor, subcontractors, agents and employees in the performance of the contract and will, after reasonable notice thereof, defend and pay the expense of defending any suit which may be commenced against the City by any third person alleging injury by reason of such carelessness or negligence, and will pay any judgment which may be obtained against the City in such suit.
SECTI ON C
SCOPE OF WORK

1. INTENT OF CONTRACT

The intent of the contract is to prescribe a complete work or improvement which the Developer undertakes to do, in full compliance with the provisions and requirements of the contract. The Developer for all or any part shall furnish all labor, materials, tools, equipment, transportation, necessary supplies and incidentals required to make each and every item complete as contemplated by the contract. Any deviation from these requirements must be stipulated in the special provisions of the specifications.

2. ADDITIONAL INSTRUCTIONS

In the event it is found that the instructions and drawings contained in the contract documents are not sufficiently clear to permit the Developer to proceed with the work, the Engineer shall, either upon his own initiative or upon the request from the Developer, furnish such additional drawings as may be necessary. When such request is made by the Developer, it must be in ample time to permit the preparation of the instructions and drawings by the Engineer before the construction of the work covered by them is undertaken. Such additional instructions and drawings shall be consistent with the contract documents and shall have the same force and effect as if contained in the contract documents.

3. WASTE SITES

The various sections of the Specifications may require three different types of waste sites which are: (1) private property abutting the improvement; (2) waste site designated on construction plans; and (3) waste sites to be provided by the Developer.
In all cases, waste sites shall be operated in such a manner as to meet safety and health requirements of state, county, and city. Sites, operations, or the result of such operations, which create a definite nuisance problem, or which result in damage to public or private properties will not be permitted. In all cases, waste sites shall be approved by the City Engineer before use.

4. **CLEANUP**

From time to time or as may be ordered by the Engineer and immediately after completion of the work, the Developer shall at his own expense clean up and remove all refuse and unused materials of any kind resulting from the work. Upon completion of the work, the Developer shall remove all his equipment and put the area of the work in a neat and clean condition and do all other cleaning required to complete the work in a workmanlike manner, ready for use and satisfactory to the Engineer.
1. **AUTHORITY OF ENGINEER**

It is understood and agreed by and between the parties hereto that the work included in the contract is to be done to the complete satisfaction of the Engineer, or his duly authorized representative, and that the decision of the Engineer as to the true meaning of the contract, plans, specifications and estimates, and as to all questions arising as to proper performance of the work shall be final.

The Engineer shall decide any and all questions which may arise as to the quality or acceptability of materials furnished and work performed and as to the rate of progress of the work, and all questions as to acceptable fulfillment and performance of the contract on the part of the Developer.

Nothing contained in this section or in the contract shall be construed as requiring the Engineer to direct the method or manner of performing any work under this contract, however, the work progress shall be open to inspection by the Engineer at all times.

2. **AUTHORITY AND DUTIES OF INSPECTORS**

The Engineer may appoint assistants to inspect all materials used and all work done. Such inspection may extend to any or all parts of the work and to the preparation or manufacture of the materials to be used. The assistants will not be authorized to revoke, alter, enlarge or relax the provisions of these specifications. An assistant is placed on the work to keep the Engineer informed as to the progress of the work and the manner in which it is being done; also to call the attention of the Developer to any infringements upon plans, or specifications,
but failure of the assistant or the Engineer to call the attention of the Developer to faulty work or infringements upon the plans or specifications shall not constitute acceptance of said work.

An assistant will be authorized to approve or accept any portion of the work or to issue instructions contrary to the plans and specifications. The assistant will have authority to reject defective material and to suspend any work that is being improperly done, subject to the final decision of the Engineer. The assistant will exercise such additional authority as may, from time to time, be especially delegated to him by the Engineer.

3. COOPERATION BY DEVELOPER

A set of approved plans, specifications and any special provisions and authorized alterations will be supplied to the Developer and these must be kept available on the job at all times. The Developer shall be present either in person or by duly authorized representatives on the site of work continually during its progress. The Developer or his representative shall receive from the Engineer all explanations and directions necessary for the satisfactory prosecution and completion of the work. The Developer shall not cause any unnecessary delay or hindrance to other contractors on adjacent work, but shall be required to cooperate with other contractors to the fullest extent.

4. CONFORMITY WITH PLANS AND SPECIFICATIONS

The work shall be done in strict conformity with the plans and specifications and to the exact lines and grades, and be according to such instructions as may be given by the Engineer. The Developer shall protect and preserve in their original position all stakes, points, or marks set for the work. Where the Engineer shall consider such
stakes, points, or marks that have been unnecessarily destroyed, he may cause the expense of replacing them to be charged to the Developer.

5. **REMOVAL OF DEFECTIVE OR UNAUTHORIZED WORK**

Defective work or materials may be condemned by the Engineer any time before the final acceptance of the work. Notice of such condemnation shall be given in writing by the Engineer. Such condemned work shall be immediately removed or disposed of to the satisfaction of the Engineer. Failure or neglect on the part of the Engineer to condemn unsatisfactory material or reject inferior workmanship will in no way release the Developer, nor shall it be construed to mean the acceptance of such work, nor shall the final acceptance bar the City from recovering damages in case fraud was practiced, or for defective work resulting from the Developer's dishonesty.

Work done contrary to or regardless of the instruction of the Engineer, work done without lines, grade and/or cross section stakes and grades shown on the plans or as given by the Engineer, or any deviation made from the plans and specifications without written authority will be considered unauthorized and at the expense of the Developer, and will not be accepted by the City. Any and all work done may be ordered removed and replaced immediately at the Developer's expense.
6. PROTECTION OF PUBLIC AND PRIVATE UTILITIES

The Developer shall support and protect by timbers or otherwise, all pipes, conduits, poles, wires or other apparatus which may be in any way affected by the work, and do everything to support, sustain, and protect the same, under, over, along or across said work. In case any of said pipes, conduits, poles, wires, or apparatus should be damaged they shall be repaired by the authorities having control of same, and the expense of such repairs shall be charged to the Developer.

The Developer shall further be responsible for any damage done to any street or other public property, or to any private property by reason of the breaking of any water pipe, sewer or gas pipe, electric conduit, or other utility by or through his negligence.

7. DAMAGE TO EXISTING IMPROVEMENTS AND UTILITIES

The Developer's work shall be confined to his premises and he shall not enter upon or place materials on other private premises except by written consent of the individual owners, and shall save harmless the City from all suits and actions of every kind and description that might result from his use of private property.

The Developer shall inform himself as to the existence and location of any underground utilities and protect the same against damage.

The Developer shall take adequate precautions to protect existing lawns, trees and shrubs outside rights of way, sidewalk, curbs, pavements, utilities, adjoining property, and structures and to avoid damage thereto, and he shall at his own expense com-
pletely repair any damage theretofore caused by his operations to the satisfaction of the Engineer.

8. **INSPECTION BY ENGINEER**

All materials by the Developer shall be subject to the inspection and approval of the Engineer at any time during the progress of the work and until final completion thereof. The materials shall be delivered by the Developer sufficiently in advance of the work to enable the Engineer to make the proper tests and inspections. As soon as materials have been tested and inspected, the Developer shall immediately remove all rejected materials from the work to such place distant therefrom as the Engineer may require, and shall arrange for replacement of rejected materials and things at his own expense. The neglect or failure on the part of the Engineer to condemn or reject inferior materials or work shall not be construed as an acceptance of the materials or work.

The Developer shall furnish, at his own expense, such labor and facilities as may be required to enable the Engineer to make a thorough inspection and culling of the materials.

9. **DEFECTIVE WORK**

The Developer, upon notification by the Engineer and within one (1) year after acceptance thereof by the City, shall remove or reconstruct, or make good without cost to the City any work which the Engineer may deem to have been defectively executed.

10. **FINAL INSPECTION**

As soon as practicable after the completion of the entire work, it will be examined thoroughly by the Engineer. The Developer will be notified when the examination is to be made so that he or his representative may be present. When the work is found
to be satisfactory, it will be accepted and such final acceptance will not be reopened after having once been made, except on evidence of collusion, fraud, or obvious error.

If the inspection reveals any defects in the works as contemplated by the specifications, such defects shall be repaired or unsatisfactory work be replaced as the Engineer may direct before final acceptance. The cost of all such repairs and replacements shall be borne by the Developer.
SECTION E
CONTROL OF MATERIALS

1. SOURCE OF SUPPLY AND QUALITY OF MATERIALS

Promptly after the approval of the contract, the Developer shall notify the Engineer of the proposed sources of supply of all materials to be furnished by him. At the option of the Engineer the source of supply of each of the materials shall be approved by the Engineer before the delivery is started. Representative preliminary samples of the character and quality prescribed shall be submitted by the Developer or producer for examination and tests by the Engineer. Only materials conforming to the requirements of the specifications and approved by the Engineer shall be used in the work. Any of the materials proposed to be used may be inspected or tested at any time during their preparation and use. If, after trial, it is found that sources of supply which have been approved do not furnish a uniform product, or if the product from any source proves unacceptable at any time, the Developer shall furnish approved material from other approved sources. No material which, after approval, has in any way become unfit for use shall be used in the work.

2. SAMPLES AND TESTS

All tests of materials furnished by the Developer shall be made by the Engineer in accordance with commonly recognized standards of national organizations, and such special methods and tests as are in use at the laboratory of the Department of Highways or as set forth in the special provisions.
Field tests of materials will also be made by the Engineer when deemed necessary and these tests shall be made in accordance with standard practices of the Department of Highways.

The Developer shall furnish without charge such samples of all materials as may be requested by the Engineer. Materials shall not be used until they have been approved by the Engineer. Samples will be secured and tested whenever necessary to determine the quality of the material.

Materials shall be delivered on the work in advance, in such quantities as to afford the Engineer an opportunity to make tests before the materials are to be used.

3. STORAGE OF MATERIALS

All materials intended for use in the work shall be stored by the Developer by means that will prevent damage from exposure to the elements, from admixture of foreign material, or from any other cause. The Engineer will refuse to accept, or to sample for testing any materials that are improperly stored.

4. DEFECTIVE MATERIALS

All materials not conforming to the requirements of these specifications will be rejected by the Engineer, and all such materials whether in place or not, shall be immediately removed from the site of the work by the Developer.
SECTION F
LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC

1. MUNICIPAL REGULATIONS AND STATE LAWS
   All municipal ordinances and regulations and laws of Washington shall be complied with in the performance of all portions of the work.

2. ACCIDENT PREVENTION
   Precaution shall be exercised at all times by the Developer for the protection of persons, employees and property. The safety provisions of applicable laws and local building and construction codes shall be observed. The operations of the Developer for the protection of persons, and for guarding against hazards of machinery and equipment, shall meet the requirements of state law and safety regulations as set out in "Safety Standards for Construction" and "General Safety Standards", published in 1957 and 1958, respectively, and furnished without charge by the Department of Labor and Industries, Olympia, Washington.

3. PROTECTION OF WORKMEN AND PROPERTY
   The Developer shall erect and maintain good and sufficient guards, barricades and signals at all unsafe places at or near the work, and shall in all cases maintain safe passageways at all road crossings, crosswalks, street intersections, and shall do all other things necessary to prevent accident or loss of any kind.
   The Developer shall protect from damage all water, sewer, gas and steam or other pipes or conduits, and all hydrants, and all other property that is likely to become displaced or damaged by the execution of the work.
4. **LABOR**

In order to perform acceptable work, the Developer shall employ workmen at all times who are skilled in their respective lines. The Developer is restricted in his selection of labor and payment therefor by certain legal requirements which must be observed for compliance with the public policy enunciated in R.C.W. 49.28. This refers to the eight hour day, payment for overtime, cancellation of contract for violations, and penalties for violations of provisions therein. The Developer should be thoroughly familiar with all provisions of this and other statutes that are subsequently noted herein before commencing work on his contract.

5. **PERMITS AND LICENSES**

The Developer shall procure all necessary permits, pay for the same, and obtain all official licenses for the construction of the work and for temporary obstructions, inclosure, opening of streets for pipes, walls, etc., arising from the construction and completion of the work described in the specifications. He shall be responsible for all violations of the law for any cause in connection with the construction of the work or caused by obstruction of the work or caused by obstructing streets, sidewalks, etc., and he shall give all requisite notices to public authorities.

6. **ROYALTIES AND PATENTS**

The Developer shall be liable for all suits brought against the City by reason of infringement of patent rights on any material machine or appliance that he may
use on the work or incorporate in the finished job, except where specifically exempted by the special provisions. Unit prices named in the proposal shall include payment of royalties, if any.

7. **USE OF PREMISES**

The Developer shall confine his apparatus, storage of materials and operation of work to the limits indicated by law, ordinances, permits or direction of the Engineer, and shall not unreasonable encumber the premises with his materials. The Developer shall comply with the Engineer's instructions regarding signs, advertisements, fires, and smoking.

8. **CONFINE OPERATIONS WITHIN RIGHTS OF WAYS AND EASEMENTS**

Property lines, limits of easements, and limits of construction permits are indicated on the plans and it shall be the Developer's responsibility to confine his construction activities within these limits. Any damage resulting to persons or property encroaching beyond these limits shall be the sole responsibility of the Developer.

9. **SAFEGUARDS**

The Developer shall provide and maintain all necessary safeguards such as watchmen, warning signs, barricades, and night lights at his own expense. Special care shall be exercised to prevent vehicles, pedestrians, and livestock from falling into open trenches or being otherwise harmed as a result of the work. The Developer shall, in all cases, hold the City harmless for any and all damages resulting from any of his operations.
10. **SANITARY PROVISIONS**

The Developer shall provide and maintain in a neat and sanitary condition such accommodations for the use of his employees as may be necessary to comply with the requirements and regulations of the State Department of Health and of other bodies or officers having jurisdiction thereover. He shall permit no public nuisance.

11. **USE AND OCCUPANCY PRIOR TO COMPLETION OF CONTRACT**

The City reserves the right to use and occupy any portion of this improvement which has been sufficiently completed, but such use and occupancy shall not be construed as an acceptance of any portion of the work, and any claims which the City may have against the Developer shall not be deemed to have been waived by such occupancy.

12. **PERSONAL LIABILITY OF PUBLIC OFFICIALS**

Neither the Engineer, any of his assistants, nor any other officer of the City shall be personally responsible for any liability arising under or growing out of the contract.
1. **CONSTRUCTION SCHEDULE**
   After award of the contract, the Developer shall immediately prepare and submit to the Engineer for approval a progress schedule for the completion of the project.

2. **SUSPENSION OF WORK**
   When, in the judgment of the Engineer, unfavorable weather makes it impractical to secure first class results, or other conditions warrant the granting of a suspense order, he shall issue to the Developer a written order to suspend work wholly or on any part of the contract. When conditions are again favorable for prosecution of the work the Engineer shall issue to the Developer a written order to resume the suspended work. Orders to suspend or resume work will not be written for intermittent shutdowns due to weather conditions unless the suspension of work is to be for an extended period of time. The Developer shall take every precaution to prevent any damage or unreasonable deterioration of the work during the time it is closed down.
   
   Suspension of the work by the Engineer shall not furnish any grounds for claims by the Developer.

3. **DEVELOPER ORGANIZATION, SUPERINTENDENCE AND EQUIPMENT**
   The Developer shall provide at all times during the progress of the work, competent and necessary superintendence. During the Developer's absence, the superintendent shall have full authority to execute the orders or directions of the Engineer without delay and to promptly supply such materials, tools, plant equipment and labor as may be required.
All work under the contract shall be performed under the continuous supervision of competent personnel thoroughly experienced in the class of work specified.

Incompetent, uncooperative, careless or negligent employees or agents shall be forthwith discharged by the Developer upon written request of the Engineer.

All machinery and equipment shall be adequate for the purpose used and shall be kept in good workable condition and be operated by experienced operators.
PART III
GENERAL SPECIFICATIONS

Note: These General Specifications are for the sole purpose of informing the Developer of City of Kent Standards. Actual Construction Specifications are to be prepared by the Developer's Engineer or the City of Kent.

SECTION A - SANITARY SEWERS

1. PIPE
   1.1 Concrete Pipe
   Plain concrete sewer pipe shall conform to ASTM Specification C-14 (Extra Strength), and reinforced concrete pipe shall conform to ASTM Specification C-76. (Type IV Min.)

   1.2 Clay Pipe
   Clay Sewer pipe shall conform to ASTM Specification C-200 (Extra Strength).

   1.3 Asbestos - Cement Pipe
   Asbestos - Cement non-pressure sewer pipe shall conform to Federal Specification SS-P331a, (Class 2400 Min.)

2. PIPE JOINTS
   Sewer pipe joints shall be rubber, and the specific brand or type of joint shall be submitted to the City Engineer for approval prior to use, and shall not be used without written approval.

3. PIPE BEDDING
   Sewer Pipe shall be bedded in accordance with Drawing C - 1.

4. MANHOLES, FRAMES, & COVERS
   Manholes, frames and covers shall be constructed in accordance with Drawings C-2-3-4 & 5.
5. **LAMPHOLES**

Lampholes shall be constructed in accordance with Drawing C-6.

6. **TESTING**

Testing of the completed sewer shall be made after at least four (4) feet of backfill has been placed, either by measurement of actual infiltration from the section of pipe tested, or by measurement of exfiltration, at the option of the City Engineer.

6.1 **Infiltration Test**

The upper end of the section of pipe shall be temporarily plugged so as to prevent any inflow. All blank wyes, and ends of side sewers shall be plugged tight. A suitable device for directing flow into a measuring can shall be installed at the lower end of the section. Water shall then be introduced into the trench, if necessary, so that the pipe is submerged in water or saturated earth along its entire length, and this condition has become constant. Flow shall then be measured by timing the filling of a container of known volume.

6.2 **Exfiltration Test**

The upper end of the section, and all wye branches and side sewers shall be tightly plugged. All branches from the manhole at the lower end of the section except the pipe section being tested shall be tightly plugged. Water shall then be introduced into the manhole so that the manhole is filled to a suitable mark on the manhole wall, and the water level shall be held at this position until the rate of addition becomes constant. Then the water level shall be permitted to fall in the manhole for a period of twenty (20) minutes. Then
the water shall be added from a container to bring the level back up to the mark, and water added shall be recorded.

6.3 Permissible Infiltration or Exfiltration

Pipe and joints shall sustain a maximum of 0.4 GPM per inch diameter per 100 feet when field tested by actual infiltration conditions. If exfiltration testing is required or necessary, the joints shall perform equally well, except that an allowance of an additional 10 per cent of gallonage shall be permitted for each additional 2 feet head over a basic lower end of the pipe section being tested.

7. LOCATION

See Drawing No. A-2 for the standard location of sewer lines within the right-of-way.
SECTION B
STORM DRAINS

1. PIPE
Concrete pipe for storm drains shall conform to ASTM Specification C-14 (Extra Strength), and reinforced concrete pipe shall conform to ASTM Specifications C-76.

2. PIPE JOINTS
Storm drain pipe joints shall be rubber, and the specific brand or type of joint shall be submitted to the City Engineer for approval prior to use, and shall not be used without written approval.

3. CATCH BASINS & INLET CASTINGS
Catch basins and inlet castings shall be constructed in accordance with Drawings C-7-8-9 & 10.

4. LOCATION & DESIGN
The storm sewer shall be located five (5) feet north or east of roadway centerline as shown on Drawing No. A-2.
The system shall be designed using the following criteria:
a. Connect catch basins to storm sewer with wyes or at manholes.
b. Curb inlets may be used providing they connect to a catch basin.
c. Maximum spacing of manholes to be 400 feet, and at changes of grade and alignment.
d. Sewers of 12 inch size or larger may be laid on a curve, as approved by the City Engineer.
1. **PIPE**
   All pipe for water mains shall be cast iron and conform to Federal Specification WW-F-421b. The class of pipe shall be a minimum of Class 150, and be cement lined "Half Thickness."

2. **FITTINGS**
   Cast iron fittings for use with cast iron pipe shall conform to class of pipe used and be cement lined "Half Thickness."

3. **GATE VALVES**
   Unless otherwise specified, all valves shall be gate valves conforming to the latest revisions to AWWA standard specifications for gate valves for Ordinary Water Works Service No. C-500. They shall be iron body, bronze mounted, double disc valves with bronze wedging device and or an o-ring stuffing box. All valves shall open counter-clockwise, and unless otherwise specified, shall be a non-rising stem type equipped with standard square stem nuts. Stem nuts shall be identical with the City's existing equipment, and all valves shall be furnished with a box, cover, and marker post.

4. **VALVE BOXES**
   Valve boxes and covers shall be cast iron of a type approved by the Engineer prior to their installation. The lengths shall be suitable for the particular depth of water line.

5. **VALVE MARKER POSTS**
   A concrete valve marker post shall be furnished and installed as directed, with each gate valve.
concrete marker post shall have a 4" minimum square section and a minimum length of 42", with beveled edges and containing at least one (1) 3/8" diameter bar of reinforcing steel. Markers shall be placed as directed by the Engineer and set so as to leave 18" exposed above grade. The exposed portion of the marker posts shall be painted with two (2) coats of white concrete paint, and then the size of the valve (for example, 6" G.V.) and the distance in feet and inches to the valve shall be stenciled with black paint on the face of the post, using a stencil which will produce letters two (2) inches high.

6. HYDRANTS
Hydrants shall conform to AWWA Specification C-502, except as herein modified. The hydrants shall be equipped with one (1) Pumper Nozzle, two (2) hose nozzles, pentagon operating nuts, have o-ring stuffing box, and open by turning counter-clockwise. Nozzles operating nuts shall be identical with the City's existing equipment. Hydrant valve diameter shall be a minimum of 4" unless otherwise specified. All nozzles shall be equipped with bronze nipples screwed into the hydrant and locked in place. Depth of clear cover over the pipe shall be three (3) feet. Suitable lugs for anchor rods shall be provided. Hydrants shall be so painted to match the City's existing hydrants. All hydrants shall be provided with an auxiliary valve and two (2) guard posts. See Drawing No. B-1 for standard details.

7. AUXILIARY VALVES
Auxiliary gate valves shall be flanged or as required by the type of pipe being used, and be as specified in Paragraph 3.
8. **FIRE HYDRANT GUARD POSTS**
Concrete fire hydrant guard posts shall be furnished and installed with fire hydrants as directed by the Engineer. The guard posts shall be made of reinforced concrete, eight (8) inches in diameter, six (6) feet long, and buried to a minimum depth of three (3) feet. Guard posts shall not be set higher than the top of the fire hydrants, they shall be plumb, and where two posts are used at a hydrant, they shall be set with their tops at the same elevation. The exposed portion of the guard posts shall be painted with two (2) coats of white concrete paint, approved by the Engineer.

9. **COVER OVER PIPELINES**
In no case shall less than thirty-six (36) inches of cover be maintained over the pipe. Local variations in ground surface shall not control, but the average depth shall be the determining factor. Water mains shall be installed so that there is a minimum of 18" cover between the bottom of existing ditches and the top of pipe.

10. **WATER WORKS TESTING**
The mains shall be filled with water and all air removed prior to starting the test. The test shall be accomplished by pumping the main up to the required pressure; stop the pump for fifteen (15) minutes, and then pump the main up to the test pressure again. The quantity of water required to restore the pressure shall be accurately determined by pumping through a positive displacement water meter with a sweep unit hand registering 1 gallon per revolution, the meter to be approved by the Engineer. Acceptability of the test will be determined by two factors: (a) The quantity of water lost from the main shall not exceed 100 gallons per
inch of diameter per mile of pipe per day. (b) There shall not be an appreciable or abrupt loss in pressure during the fifteen (15) minute test period. Gauges used in the test shall be accompanied with satisfactory certifications of accuracy from a laboratory approved by the Engineer.

Table of Allowable Water Loss per 1000 Linear Feet of Pipe in 15-Minute Test Period

<table>
<thead>
<tr>
<th>Pipe Size</th>
<th>Water Loss</th>
</tr>
</thead>
<tbody>
<tr>
<td>4&quot;</td>
<td>0.78 Gallons per 1000'</td>
</tr>
<tr>
<td>6&quot;</td>
<td>1.18 Gallons per 1000'</td>
</tr>
<tr>
<td>8&quot;</td>
<td>1.58 Gallons per 1000'</td>
</tr>
<tr>
<td>10&quot;</td>
<td>1.98 Gallons per 1000'</td>
</tr>
<tr>
<td>12&quot;</td>
<td>2.37 Gallons per 1000'</td>
</tr>
</tbody>
</table>

Prior to calling out the Engineer to witness the pressure test, the Developer shall have all equipment completely ready for operation and shall have successfully performed the test to assure himself that the pipe is in a satisfactory condition.

11. STERILIZATION

Before placing the lines in service, the Developer shall sterilize them and have a satisfactory report and approval of sterilization from the local or state health department on samples collected from representative points in the new system. (If a chlorine residual is present, the sample must not be collected in specially treated bottles.) Sterilized sample bottles and/or instructions shall be obtained by the Developer from the laboratory where the samples will be tested. The Developer shall collect all samples for the bacteriological tests under the direct supervision of the Engineer.

12. LOCATION

See Drawing No. A-2 for the standard location of water mains within the right-of-way.
1. TYPICAL SECTIONS

The following described streets cross sections are required of all streets to be developed.

1.1 Gravel Streets
Refer to Drawing No. D-1

1.2 Faved Residential Streets
Refer to Drawing No. D-1

1.3 Faved Arterial Streets
Refer to Drawing No. D-1

2. CONCRETE DRIVEWAY, SIDEWALK, CURB, & GUTTER

All concrete shall have a minimum 28-day strength of 2,500 psi, and the cement content shall be not less than 5 sacks per cubic yard.

An air-entrained admixture such as Darex AEA, Vinsol Resin, or equal shall be added to the concrete at the time of mixing in such proportions to provide an air content of not less than 3% or more than 6% with the manufacturers recommendations. Mix time shall not exceed 30 minutes or as directed by the Engineers.

The contractor shall submit to the City Engineer, for approval, his proposed concrete batch proportioning, the type and quantities of cement, aggregate, water and air-entraining agent per cubic yard. Concrete shall be subject to the approval of the City Engineer before concrete is furnished.

Refer to Drawing No. D-3 and D-4 for Construction details.

3. ASPHALTIC CONCRETE

Asphaltic concrete shall by Type I-1-B, and conform to Section 32 of State of Washington, Department of Highways Standard Specifications, except that the prime coat will not be required.
4. **SUB-BASE MATERIAL**

The sub-base material shall consist of hard, durable, well-graded sand and gravel free from clay, topsoil or debris and meeting the following requirements:

<table>
<thead>
<tr>
<th>Sieve</th>
<th>Percentage by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Passing 3&quot;</td>
<td>100%</td>
</tr>
<tr>
<td>Retained 1/4&quot;</td>
<td>40% or more</td>
</tr>
<tr>
<td>Passing 200 Mesh</td>
<td>5% or less</td>
</tr>
</tbody>
</table>

5. **BASE COURSE MATERIAL**

Base material should consist of crushed rock or crushed gravel meeting the following gradation specification. If crushed gravel, at least 75% of the sizes retained on a 1/4 inch sieve should have 2 or more fractured faces. The fines should be non-plastic and the sizes retained on a 1/4 inch sieve should have a percent wear as determined by a Los Angeles Rattler Test of not more than 40 after 500 revolutions.

<table>
<thead>
<tr>
<th>Sieve</th>
<th>Percentage by Weight Passing</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&quot;</td>
<td>100</td>
</tr>
<tr>
<td>1&quot;</td>
<td>65 to 95</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>50 to 85</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>30 to 60</td>
</tr>
<tr>
<td>10</td>
<td>5 to 30</td>
</tr>
<tr>
<td>60</td>
<td>2 to 5</td>
</tr>
<tr>
<td>200</td>
<td></td>
</tr>
</tbody>
</table>

6. **MONUMENTS**

Concrete monuments and covers shall be installed to grade just prior to paving in accordance with Drawing No. D-2.
PART V - EFFECTIVE DATE

SECTION A - EFFECTIVE DATE.

1. This ordinance shall take effect and be in force five (5) days after its passage, approval and publication as by law provided.

Alex Thornton, Mayor

Attest: Chas. Bridges

Approved as to form: Emerson B. Thatcher
City Attorney

Passed the __6th____ day of ______August_______1962
Approved the __7th____ day of ______August_______1962
Published the __15th____ day of ______August_______1962

56
PART IV
STANDARD DETAILS

INDEX

A-1 Drawing Standard
A-2 Standard Intersection
B-1 Standard Hydrant
B-2 Standard 2" Blow-Off Assembly
B-3 Offset Hydrant
B-4 Typical Service Connections
B-5 Air Release Valve Chamber
B-6.1 Fire Detector Meter Assembly (Vault for 4" Service)
B-6.2 Fire Detector Meter Assembly (Vault for 6" Service)
B-6.3 Fire Detector Meter Assembly (Vault for 8", 10" or 12" Service)
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C-2 Standard Manhole
C-3 Standard Drop Manhole
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C-5 Special Shallow Sanitary Manhole
C-6 Standard 24" Manhole Frame & Cover
C-6A Manhole Frame & Locking Cover
C-7 Standard Lamphole
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C-9 Standard Brick Catch Basin
C-10 Standard Precast Catch Basin
C-10.1 Catch Basin - Inlet Details
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C-12 Timber Mat for Unstable Foundation
C-13 Manhole Bricks & Safety Step Detail
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C-15 Trench Detail for PVC Sewer Pipe
D-1.1 Standard Street Cross Section (Arterial)
D-1.2 Standard Street Cross Section (Residential Access)
D-1.3 Standard Street Cross Section (Gravelled Road)
D-1.4 Standard Alley Cross Section
PART IV - STANDARD DETAILS
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D-2 Standard Monument Case & Cover
D-3 Standard Driveway with Parking
D-4 Combined Curb & Gutter
D-5 Wheelchair Ramp
D-6 Standard Curb Removal for Drive Return
D-7 Street Tree Planting
Utility Symbol Standards
L-1 Light Standard
L-2 Foundation Detail
Notes:
1. Concrete block will be placed on undisturbed soil.
2. Steel tie rods to be heavily coated with asphalt after installation.

CITY OF KENT
WASHINGTON
STANDARD
HYDRANT
APRIL 1962 STD. DETAIL
SCALE NONE B-1
2" Street Elbows
All fittings to be Galv.

2" Union

2" nipple - 6" long
2" Elbow

2" Corp. with 1½" top into C.I.P.

Blank plug
Steel shim plate
Concrete blocking as required.

Plan View:

23' from & Pav.

Undisturbed Soil

Unfounded, graded, oiled, or asphalt surface

6" Conc. pipe

2" Galv. cast

2" Galv. steel pipe

3' Min.

2" Iron bolted galv. & operating nut

Drill 1/2" hole

12" Galv. steel pipe

2" Galv elbow

2" Galv. nipple

Elevation View

CITY OF KENT
WASHINGTON
STANDARD 2" BLOW-OFF ASSEMBLY

DATE: 5-21-62    SCALE: NONE
NEW MAIN

EXIST. METER

NEW CURB STOP

NEW COPPER TUBE

NEW CORP. STOP

SERVICE SAME SIDE
OF STREET AS MAIN

EXIST. STEEL PIPE
UNDER STREET
NEW COUPLING

NEW COPPER TUBE
NEW CORP. STOP

SERVICE OPPOSITE SIDE
OF STREET FROM MAIN

TAPPED PLUG
WHERE REQ'D

TEE 4" MIN.

SLEEVE OR UNION

EXIST. PIPE

GATE VALVE

SERVICES 2" & LARGER

FILE NO. 8-4
CITY OF KENT
WATER DEPT.

TYPICAL SERVICE
CONNECTIONS

MILES DRAKE
CITY ENGR.

MONS ROD
WATER SUP.

DRAWN: M.D.
DATE: MAR. 1951

DRWG. NO.

KW-2
STANDARD MANHOLE RING AND COVER. SEE DETAIL IN A.P.W.A. NO. 68

EXISTING GRADE

ADJUSTING BRICK (2 COURSES MIN.)

PRECAST CONC.

MH

PEA GRAVEL

2" STR ELL

2" APCO HEAVY DUTY AIR RELEASE VALVE NO. 145C OR EQUAL

2" GALV. PIPE

2" OHIO BRASS GATE VALVE NO. 2500 OR EQUAL

2" x 3" BRASS NIPPLE

(1.) DOUBLE STRAP SADDLE SMITH BLAIR NO. 313-1888-14 OR EQUAL

SECTION

NOTE:

1. SADDLE SHALL MEET EXISTING WATER-MAIN SIZE ACCORDINGLY
VAULT FOR 4" SERVICE

PIT INFORMATION:
CONC. CONDUIT CO. U.V. "456 L.A. (OR EQUAL)
OUTSIDE DIM'S OF PIT = 4'-0" x 5'-0" x 6'-0"
DEEP WITH 3" WALL. WITH 2' SQ. MANHOLE
& HINGED COVER.
VAULT FOR 6 SERVICE

PIT INFORMATION:
CONC. CONDUIT CO. U.V. 660 L.A (OR EQUAL)
OUTSIDE DIM'S OF PIT = 4'-0" x 6'-0" x 6'-0"
DEEP WITH 3-1/2" WALL WITH 2' SQ. MH &
HINGED COVER.

LOCATION OF PUMPER ASSEM.
WHEN INSTALLED IN PIT
(GAW, PIPE & C.I. ELL)

6" O.S.BY VALVE (OR P.V. OUTSIDE OF PIT)

FIRE DETECTOR
METER
ASSEMBLY

CITY OF KENT

FIRE DETECTOR METER
ASSEMBLY

D.M.J.          | NONE          | STANDARD
D.E.W.          |   3-29-76      | DETAIL
                |               | 8-4-2
VAULT FOR 8'10", OR 12" SERVICE

PIT INFORMATION:
CONC. CONDUIT CO. U.V. 575 L.A. (OR EQUAL)
OUTSIDE DIM'S OF PIT = 4'6" X 7'-0" X 5'-2"
DEEP WITH 3" WALL, WITH 2' SQ. MH & HINGED COVER.
USE APWA PIPE BEDDING STD. PLAN NO. 62

CITY OF KENT
WASHINGTON
BEDDING
STANDARDS
JULY 1960 STD. DETAIL
REVISED 10-69 CI
USE APWA MANHOLE STD. PLAN NO. 34
OR STD. PLAN NO. 35
USE APWA CAST IRON DROP CONNECTION
STD. PLAN NO. 43

CITY OF KENT
WASHINGTON
STANDARD DROP
MANHOLE
MARCH 1960 STD. DETAIL
REVISED 10-69 C3
NOTES:
1. All joints to be grouted to make a smooth uniform finish in the manhole.
2. All concrete shall be 5-sack mix (1:2½:5) with 2" to 5" slump, 28-day compressive strength of 2000 psi.
3. Sub-base shall be 4" of 3" minus crushed rock in standard trench. 6" of 3" minus crushed rock in wet trench or soil at optimum moisture content.
4. Use this manhole for pipe 24" and over.

CITY OF KENT
WASHINGTON
STANDARD 6' DIA.
MANHOLE

APRIL 1962
STD. DETAIL
SCALE 3/8" = 1'-0"
C-4
SPECIAL SHALLOW SANITARY MANHOLE

CASTING - SEE SEC. 63-2.08
A.P.W.A. STD. SPECS.

ADJUSTMENT - SEE SEC. 63-3.10
A.P.W.A. STD. SPECS.

MODIFIED STEP - SEE A.P.W.A STD.
PLAN NO. 41.

CONCRETE - SEE SEC. 63-2.09C
A.P.W.A. STD. SPECS.

PRECAST SECTION - SEE
SEC. 63-2.09B A.P.W.A
STD. SPECS.

CHANNEL - SEE SEC. 63-3.11
A.P.W.A. STD. SPECS.
CONSTRUCT CHANNEL AND
SHELF IN FIELD.

CAST-IN-PLACE BASE - SEE
SEC. 63-3.03 A.P.W.A. STD. SPECS.
LAMPHOLE RING AND COVER

Cast iron to conform to A.S.T.M. A48-56 Class 30.
Olympia Foundry 5531 or Equal

Joints as specified in Standard Specifications

Plug sealed with joint as specified in Standard Specifications

CITY OF KENT
WASHINGTON
STANDARD
LAMPHOLE

JULY, 1960
STD. DETAIL
SCALE NONE C-6
LAMPHOLE RING & COVER

CAST IRON TO CONFORM TO A.S.T.M. A48-56
CLASS 30.
OLYMPIC FOUNDRY #5931 OR EQUAL

CEMENT CONCRETE CLASS A

JOINTS AS SPECIFIED IN
STANDARD SPECIFICATIONS

PLUG SEALED WITH JOINT AS
SPECIFIED IN STANDARD
SPECIFICATIONS

ALTERNATE: USE APWA STD PLAN#45

DIAMETER OF SEWER WYE
STATE HIGHWAY TYPE
REVERSIBLE DRAIN INLET

NOTE:
1. Olympic Foundry No. 5435
or equal. Weight 280#.
2. See C-8 or -9 for placement of casting in curbing.

CITY OF KENT
WASHINGTON
STANDARD CATCH BASIN
CASTING DETAIL
SEPT. 1960  STD. DETAIL C-8
SCALE: 1 1/2" = 1'
CITY OF KENT
WASHINGTON
STANDARD BRICK
CATCH BASIN
SEPT. 1960 STD. DETAIL
SCALE: NONE
REV 9-67

1. 4" poured conc. base to be
   5 sack mix.
2. Olympic Foundry #5435 or
   equal. Weight 280# casting
3. Ballast under 4" poured
   base to be 3/8" minus
   crushed rock 3" in depth.

TOP VIEW
BRICK COURSE LAYOUT

SIDE VIEW

FRONT VIEW
1. Ballast under catch basin to be 3/4" (-) crushed rock, minimum of 3" depth.
2. Olympic Foundry #5435 or equal weight, 280° casting
3. Alternate: use APWA std. plan no. 52

CITY OF KENT
WASHINGTON
STANDARD PRECAST
CATCH BASIN
SEPT. 1960 STD. DETAIL
SCALE: 1"=1'-0" C-10
INLET DETAIL

SECTION A-A

POURED IN PLACE CEMENT CONCRETE CURB & GUTTER.
SIDES SEWER PIPE

1. 4" (MIN. SIZE) SEWER PIPE REQUIRED ON PROPERTY
2. 2% MIN. GRADE (1-1/4" FALL. PER FOOT)
   100% MAX. GRADE (12" PER FOOT)
3. JOINTS MUST BE MADE WITH RUBBER TYPE GASKET
   APPROVED BY THE ENGINEER
4. CONSTRUCTION ON PROPERTY MAY BE DONE BY OWNER
   BUT REQUIRES A PERMIT
5. SEE GENERAL NOTES

GENERAL NOTES

LEGAL DESCRIPTION OF LOT MUST BE
PROVIDED DIMENSIONS A, B, C & D
THAT SHOW SIZE & LOCATION OF HOUSE
ON LOT MUST BE KNOWN TO OBTAIN
PERMIT

1. 1/8 BEND & TEE FOR TESTING
2. CONNECTION TO MAIN STACK
3. RUBBER COUPLING REQUIRED TO
   PIPE AT HOUSE
4. 30" MIN. DIST. FROM HOUSE
5. 18" MIN. COVER
6. REDUCER
7. 4" DIA. SIDE SEWER TO HOUSE
8. TEST TEE
9. SINGLE CONNECTIONS USE ONLY
   TEST TEES & REDUCER
10. 6" DIA. SIDE SEWER TO PROPERTY
   LINE

CIRCLED NUMBERS REFER TO
GENERAL NOTES

NOT TO SCALE C-11

CITY OF BEND
ENGINEERING DEPARTMENT
RESIDENTIAL
SIDE SEWER
CITY OF KENT
WASHINGTON

TIMBER MAT FOR
UNSTABLE FOUNDATION

MARCH 23, 1971  STD. DETAIL
SCALE NONE  C-12
CONCRETE MANHOLE BRICK DETAIL

WEIGHT - 20 #

NOTES
1. M.H. BRICK TO CONFORM TO A.S.T.M. C-139.
2. CONCRETE BRICK TO CONFORM TO A.S.T.M. C-55.
3. M.H. STEP TO BE #6 HEINFORCING BARS BENT TO FORM SAFETY STEP. RUNGS SHALL BE HOT DIP GALVANIZED AFTER BENDING.
COUPLING BAND

PIPE

#6 BAR

DRILL BAND, EXTEND BAR THROUGH, AND WELD AT BOTH ENDS INSIDE AND OUTSIDE 360° AROUND BAR.

STD. 16GA. CMP COUPLING BAND COMPLETE WITH ANGLE BARS & BOLTS.

#6 BARS

SPACING S = 4" - USE APPROPRIATE NUMBER OF BARS FOR EACH PIPE SIZE.

NOTE - ENTIRE ASSEMBLY SHALL BE HOT DIP GALVANIZED AND COATED INSIDE AND OUT WITH ASPHALT AFTER FABRICATION.

SIDE

FRONT
UNDISTURBED GROUND

MAXIMUM TRENCH WIDTH
SHALL BE AS SPECIFIED IN
SECTION 61-3.01 OF THE
STANDARD SPECIFICATIONS

M-IN-.----..:....,.. \_____·-··-·

BACKFILL

AGGREGATE BEDDING
SEE SEC.

COMPACTION
PER SEC.

COMPACTION
OF THE SPECIAL
PROVISIONS

3" MIN.

3" MIN.

6" MIN.
ARTERIAL
DESIGN VOLUME 5000-9000 VPD

SLOPE 1/2"/1'

22'10" x 10'-80" ROW
.61 CROWN

32' FOR 100' OR
OVER R.O.W. .70 CROWN

2 1/2" MINIMUM
AC PAVING

6" MINIMUM 4"-3/8 LIMUS CR

PIT RUN BALLAST AS REQUIRED

STD. CURB & GUTTER

CITY OF KENT
WASHINGTON
STANDARD STREET
CROSS SECTION
SCALE: NONE
JULY 1962 STD. DETAIL
REVISED 10-69 D.I.
CITY OF KENT
WASHINGTON

STANDARD STREET
CROSS SECTION

SCALE: NONE
JULY 1962 STD. DETAIL
REVISED 10-69 D1.3
2" A.C. PAVEMENT CLASS "B"

0.02'/FT

0.02'/FT

4" CRUSHED TOP COURSE
g(5/8" MINUS)

BANK RUN GRAVEL CLASS "B" AS REQUIRED

STANDARD ALLEY CROSS SECTION
2" BRASS DISC W/ PUNCH CROSS

CASE AND COVER DETAIL
STATE OF WASHINGTON: STANDARD

TYPICAL INSTALLATION DETAIL

MONUMENTS W/CASE & COVER TO BE PLACED AT:
1. INTERSECTIONS OF ALL STREETS.
2. AT P.T. OF CURVES WHEN FALLING IN ROADWAY
3. AT R.C. AND P.T. WHEN P.T. FALLS OUTSIDE ROADWAY
4. APPROX. MIDWAY BETWEEN STREET INTERSECTIONS.
   IF INTERVAL GREATER THAN 200'

MONUMENTS W/O CASE & COVER TO BE PLACED AT
1. CORNERS AND ANGLE POINTS ON BOUNDARIES
   OF THE SUBDIVISION IF NOT IN ROADWAY
MONUMENTS LOCATED ON SUBDIVISION BOUNDARIES
TO BE PLACED 2' ABOVE FINISH: GRADE, EXCEPT
IN ROADWAY

CITY OF KENT
WASHINGTON
STANDARD MONUMENT
CASE AND COVER

MAY, 1961
STD. DETAIL
SCALE 1 1/2" = 1'-0"
Expansion joint material shall be premoled asphaltic compound similar to Carey's Elastic Compound joint material.

1. All driveway approaches require 6" concrete.
2. Property side of walk to be on property line or to correspond to existing walk.
3. The surface shall be marked off to correspond with adjoining walk or as otherwise directed by the Engineer.
4. All concrete shall be 5 sack mix.
5. Expansion joint at back of curb not required with metal edge pour.
6. Full expansion joint every 60' unless directed by Engineer.

CITY OF KENT
WASHINGTON
STANDARD DRIVEWAY
WITH PARKING
MARCH, 1960
STD. DETAIL
SCALE 3/8" = 1'-0"
D-3
Wheelchair ramps shall be constructed in the sidewalk landings at locations specified on construction plans. Wheelchair ramps shall be measured and paid for as "Cement Concrete Sidewalk" and shall include the necessary earthwork. The depressed curb shall be measured and paid for as "Cement Concrete Curb."
TO BE PLACED
CUT SuFBC?RD WITH
CONCRETE

DRIVE WAY
WIDTH = 8 MIN
68 MAX

EXPANSION JOINT TO BE USED
W/CEM. CONC. RETURN

SLOPE 2" per foot to PL.

EXISTING
CEM. CONC. RETURN

BREAK LINE

CEM. CONC. RETURN
(OPTIONAL)

ASPH. CONC RETURN
(OPTIONAL)

SEE STD DETAIL DRAWINGS
D-3 & D-4 FOR Specs.

CITY OF KENT
WASHINGTON
STANDARD CURB
REMOVAL FOR DRIVE
RETURN

FEB 1963
SCALE: NONE

D-6
STREET TREE AS SPECIFIED.

2 - APPROVED COMMERCIAL "TRE-TIES"

2 - 2" x 2" x 8' STAKES SET AT SLIGHT ANGLE & PULL UPRIGHT

BARK MULCH AS SPECIFIED

SEE SPECS. FOR PIT SIZE

PLANTING MIXTURE AS SPECIFIED.

ROOT BALL

CURB & GUTTER

STREET TREE PLANTING

CITY OF KENT ENGINEERING DEPARTMENT

STANDARD DETAIL

FILE NO. D-7
ROUND TAPERED STEEL OR ALUMINUM POLE. OTHER TYPES REQUIRE CITY OF KENT APPROVAL.

SLOPE SHALL BE WARPED AS REQUIRED TO BE FLUSH WITH TOP OF THE SIDEWALK OR ROADWAY SLOPE.

ALL MATERIAL AND WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF KENT AND WSHD. SPECIFICATION.
ANCHOR BOLTS TO MATCH POLE MANUFACTURER SPECIFICATION

LIMIT OF PLASTIC CONDUIT WHEN USED

FACE OF POLE FOOTING

8" TILE WITH COVER OFFSET AS SHOWN TO FACILITATE ACCESS TO CLAMPS

CONDUIT SIZE AS REQUIRED

6" MIN.

5/8" X 8' OR 1/2" X 10' COPPER CLAD SOLID GROUND ROD

1' 0"

3' SQUARE OR ROUND

BOLT CIRCLE DIAMETER TO MATCH POLE MANUFACTURER SPECIFICATION

ALL MATERIAL AND WORK SHALL BE IN ACCORDANCE WITH THE CITY OF KENT STANDARDS

CITY OF KENT ENGINEERING DEPARTMENT
LIGHTING STANDARD FOUNDATION DETAIL
PART V - EFFECTIVE DATE

SECTION A - EFFECTIVE DATE

1. This ordinance shall take effect and be in force five (5) days after its passage, approval and publication as by law provided.

Alex Thornton, Mayor

Attest: Chas. Bridges

Approved as to form: Emerson B. Thatcher
City Attorney

Passed the 6th day of August 1962
Approved the 7th day of August 1962
Published the 15th day of August 1962