

Set No. _____

Specifications, Proposal,
and Contract Documents for:

NE 132ND ST / 108TH AVE NE
INTERSECTION IMPROVEMENTS
Job No. 49-20-PW



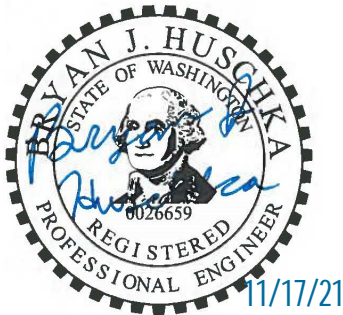
City of Kirkland
Department of Public Works
123 Fifth Avenue
Kirkland, Washington 98033

CITY OF KIRKLAND
DEPARTMENT OF PUBLIC WORKS

NE 132ND ST / 108TH AVE NE INTERSECTION IMPROVEMENTS
JOB NO. 49-20-PW

Certificate of Engineer:

The Special Provisions and drawings contained herein have been prepared by or under the direction of the undersigned, whose seal as a Professional Engineer licensed to practice in the State of Washington, is affixed below.



Bryan Huschka, P.E.
Project Manager

Approved for Construction:

Rod Steitzer, P.E.
Capital Projects Manager



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INVITATION TO BID



INVITATION TO BID

Notice is hereby given that the City of Kirkland will receive sealed bids in the office of the Purchasing Agent, City Hall, 123 Fifth Avenue, Kirkland, Washington, at 2:00 P.M., local time on December 16, 2021, for the project hereinafter referred to as:

NE 132ND ST / 108TH AVE NE INTERSECTION IMPROVEMENTS
CIP NO. TRC0940000
JOB NO. 49-20-PW

At said time all bids will be opened and publicly read aloud. Each bid shall be accompanied by a bid proposal deposit in the form of a cashier's check or a bond issued on a form acceptable to your surety made payable to the City of Kirkland for a sum of not less than five percent (5%) of the total bid amount. No bid shall be considered unless accompanied by such bid proposal deposit. Incomplete proposals and proposals received after the time stated above will not be considered. Faxed or emailed responses are not acceptable.

The work to be performed under these specifications consists of furnishing all labor, tools, materials, and equipment necessary for constructions of the **NE 132ND ST / 108TH AVE NE INTERSECTION IMPROVEMENTS**.

Specific work includes, but is not limited to, installing curb, gutter and sidewalk, landscape strip, landscaping, drainage modification, striping, traffic control, utility adjustments, signal modifications, illumination, retaining wall structure as shown in the Plans. The estimated cost for this project is in the range of \$550,000.00 to \$650,000.00 based on the base bid.

The City will not sell bid packages. Plans, specifications, and addenda may be viewed and obtained online at www.bxwa.com. Click on: "Posted Projects"; "Public Works", "City of Kirkland". The Bidders List is maintained by the Builder's Exchange of Washington, Inc. Registration for the bidder's list may be made online, by phoning (425) 258-1303, or at Builder's Exchange of Washington located at 2607 Wetmore Ave, Everett, WA.

Questions regarding this project shall be submitted in writing to Scott Gonsar via email at sgonsar@kirklandwa.gov. Questions via phone will not be accepted. Bidders shall submit questions no later than 3:00 P.M. on December 6, 2021.

The City reserves the right to reject any and all bids, and to waive any informalities in the bidding, and to make the award to the lowest, responsive, responsible bidder as best serves the interests of the City.

No bids may be withdrawn within forty-five (45) after the actual date of the bid opening.

Published: Daily Journal of Commerce – November 22, 2021: November 29, 2021

GENERAL INFORMATION, PROPOSAL, & CONTRACT



CITY OF KIRKLAND INFORMATION FOR BIDDERS

Bidders must bid on all items contained in the proposal.

The omission or deletion of any bid item will be considered non-responsive and shall be cause for rejection of the bid.

Submit your proposal on the Bid Proposal and other forms which are enclosed, or make a copy of the required forms and submit these documents.

The following forms must be executed in full with submittal of the bid:

1. BIDDER RESPONSIBILITY CRITERIA CHECKLIST

2. SUBCONTRACTOR RESPONSIBILITY CRITERIA CHECKLIST

3. PROPOSAL

The lump sum or unit prices must be shown in the spaces provided on the bid schedule.

Show total bid price in both words and figures on the Proposal.

The Proposal form must be completed in full, signed and dated.

4. BID BOND

A surety issued bid bond must be executed by the bidder and its surety company. The amount of the bid bond shall be not less than five percent (5%) of the total amount bid and may be shown in dollars or on a percentage basis. (A cashier's check payable to the City of Kirkland and issued for an amount not less than 5% of the total bid may be submitted in lieu of a bid bond.)

5. NONCOLLUSION AFFIDAVIT - Notarized

6. STATEMENT OF BIDDER'S QUALIFICATIONS

This form must be filled in and signed. The owner reserves the right to check all statements and to judge the adequacy of the bidder's qualifications.

7. SUBCONTRACTOR IDENTIFICATION LIST

This form must be completed for HVAC, plumbing, and electrical subcontractors if the estimate exceeds \$1,000,000.

The following forms are to be executed after the contract is awarded:

1. CONTRACT

This agreement is to be executed by the successful bidder.

2. PERFORMANCE AND PAYMENT BOND

To be executed by the successful bidder and its surety company.

3. CONTRACTOR'S DECLARATION OF OPTION FOR MANAGEMENT OF STATUTORY
RETAINED PERCENTAGE; RETAINED PERCENTAGE ESCROW AGREEMENT

To be executed by the successful bidder based on bidder's selection of option.

4. CERTIFICATES OF INSURANCE

To be executed by the successful bidder and by an acceptable insurance company. The City of Kirkland must be named as an additional insured.

5. STATEMENT(S) OF INTENT TO PAY PREVAILING WAGES

Affidavit certifying all employees of Contractor and Subcontractor shall be paid no less than the Prevailing Wage Rate(s) as determined by the Industrial Statistician of the Washington State Department of Labor and Industries.

SPECIAL NOTE: Prior to commencing work, the contractor and all subcontractors must have applied and paid for a City of Kirkland business license

**CITY OF KIRKLAND
BIDDER RESPONSIBILITY CRITERIA**

It is the intent of City to award a contract to the low responsible bidder. Before award, the bidder must meet the following bidder responsibility criteria to be considered a responsible bidder. The bidder may be required by the City to submit documentation demonstrating compliance with the criteria. The bidder must:

- ☐ 1. Have a current certificate of registration as a contractor in compliance with chapter 18.27 RCW, which must have been in effect at the time of bid submittal;
- ☐ 2. Have a current Washington Unified Business Identifier (UBI) number;
- ☐ 3. Have:
 - a. Industrial Insurance (workers' compensation) coverage for the bidder's employees working in Washington, as required in Title 51 RCW;
 - b. A Washington Employment Security Department number, as required in Title 50 RCW;
 - c. A Washington Department of Revenue state excise tax registration number, as required in Title 82 RCW;
- ☐ 4. Not be disqualified from bidding on any public works contract under RCW 39.06.010 or 39.12.065(3). **Meet responsibility criteria in RCW 39.04.350**
- ☐ 5. Until December 31, 2017, not have violated more than one time the off-site, prefabricated, non-standard, project specific items reporting requirements of RCW 39.04.370.
- ☐ 6. For public works projects subject to the apprenticeship utilization requirements of RCW 39.04.320, not have been found out of compliance by the Washington state apprenticeship and training council for working apprentices out of ratio, without appropriate supervision, or outside their approved work processes as outlined in their standards of apprenticeship under chapter 49.04 RCW for the one-year period immediately preceding the first date of advertising for the project.

CITY OF KIRKLAND
SUBCONTRACTOR RESPONSIBILITY CRITERIA

- ☐ A. The Contractor shall include the language of this section in each of its first tier subcontracts, and shall require each of its subcontractors to include the same language of this section in each of their subcontracts, adjusting only as necessary the terms used for the contracting parties. Upon request of the Owner, the Contractor shall promptly provide documentation to the Owner demonstrating that the subcontractor meets the subcontractor responsibility criteria below. The requirements of this section apply to all subcontractors regardless of tier.
- ☐ B. At the time of subcontract execution, the Contractor shall verify that each of its first-tier subcontractors meets the following bidder responsibility criteria:
- ☐ 1. Have a current certificate of registration in compliance with chapter 18.27 RCW, which must have been in effect at the time of subcontract bid submittal;
- ☐ 2. Have a current Washington Unified Business Identifier (UBI) number;
- ☐ 3. Have:
- a) Industrial Insurance (workers' compensation) coverage for the subcontractor's employees working in Washington, as required in Title 51 RC
 - b) A Washington Employment Security Department number, as required in Title 50 RCW;
 - c) A Washington Department of Revenue state excise tax registration number, as required in Title 82 RCW;
 - d) An electrical contractor license, if required by Chapter 19.28 RCW;
 - e) An elevator contractor license, if required by Chapter 70.87 RCW.
- ☐ 4. Not be disqualified from bidding on any public works contract under RCW 39.06.010 or 39.12.065 (3). **Meet responsibility criteria in RCW 39.04.350**
- ☐ 5. Until December 31, 2017, not have violated more than one time the off-site, prefabricated, non-standard, project specific items reporting requirements of RCW 39.04.370.
- ☐ 6. For public works projects subject to the apprenticeship utilization requirements of RCW 39.04.320, not have been found out of compliance by the Washington state apprenticeship and training council for working apprentices out of ratio, without appropriate supervision, or outside their approved work processes as outlined in their standards of apprenticeship under chapter 49.04 RCW for the one-year period immediately preceding the first date of advertising for the project.

**CITY OF KIRKLAND
BID PROPOSAL**



**NE 132ND ST / 108TH AVE NE INTERSECTION IMPROVEMENTS
JOB NO. 49-20-PW**

To: Director of Finance
City of Kirkland
123 Fifth Avenue
Kirkland, Washington 98033

The undersigned, hereinafter called the Bidder, declares that the only persons or parties interested in this proposal are those named herein; that this proposal is in all respects fair and without fraud; that it is made without collusion with any official or employee of the City of Kirkland, hereinafter called the Owner; and that the proposal is made without any connection or collusion with any person making another proposal on this contract.

The bidder further declares that it has carefully examined the contract documents for the construction of the project; that it has personally inspected the site; that it has satisfied itself as to the quantities involved, including materials and equipment and conditions of work involved, including the fact that the description of the quantities of work materials, as included herein, is brief and is intended only to indicate the general nature of the work and to identify the said quantities with the detailed requirements of the contract documents; and that this proposal is made according to the provisions and under the terms of the contract documents, which documents are hereby made a part of this proposal.

The bidder further agrees that it has exercised its own judgment regarding the interpretation of subsurface information and has utilized all data which it believes pertinent from the engineer-architect, owner, and other sources in arriving at its conclusions.

The bidder agrees to hold its bid proposal open for 45 days after the actual date of bid opening and to accept the provisions of the Instructions to Bidders regarding disposition of bid bond.

The bidder agrees that if this proposal is accepted, it will, within ten (10) calendar days after notification of acceptance, execute the contract with the Owner in the form of contract included in the contract documents, and will, at the time of execution of the contract, deliver to the Owner the Performance and Payment Bond and all Certificates of Insurance required therein, and will, to the extent of its proposals, furnish all machinery, tools, apparatus, and other means of construction and do the work in the manner, in the time, and according to the methods as specified in the contract documents and required by the engineer or other project manager designated thereunder.

The bidder further agrees, if awarded the contract, to begin work within ten (10) calendar days after the date of the execution of the contract and to complete the construction within the time specified in Section 1-08.5 of the Special Provisions.

In the event the bidder is awarded the contract and shall fail to complete the work within the time limit or extended time limit agreed upon as more particularly set forth in the contract documents, liquidated damages shall be paid to the Owner per the specifications contained in the contract documents.

The bidder further proposes to accept as full payment for the work proposed herein, the amounts computed under the provisions of the contract documents and based upon the lump sum and unit

MUST BE SUBMITTED WITH PROPOSAL

price amounts entered by the bidder for the various bid items included in the Bid Schedule. The bidder further agrees the lump sum and unit prices entered for the various bid items included in the Bid Schedule include all use taxes, overhead, profit, bond premiums, insurance premiums and all other miscellaneous and incidental expenses as well as all costs of materials, labor, tools and equipment required to perform and complete the work.

Within the three-year period immediately preceding the date of the bid solicitation for this Project, bidder has not been determined by a final and binding citation and notice of assessment issued by the department of labor and industries or through a civil judgment entered by a court of limited or general jurisdiction to have willfully violated, as defined in RCW 49.48.082, any provision of chapter 49.46, 49.48, or 49.52 RCW.

The undersigned bids and agrees to complete all construction of the **NE 132ND ST / 108TH AVE NE INTERSECTION IMPROVEMENTS; JOB NO. 49-20-PW** for the following:

Total Computed Price (*in figures*): \$ _____

Washington State Sales Tax 10.2% (*in figures*): \$not applicable

Total Bid (*in figures*): \$ _____

Total Bid (*in words*): _____

Receipt of Addenda No(s). _____ is hereby acknowledged.

I certify (or declare) under penalty of perjury under the laws of the State of Washington that the foregoing is true and correct:

CONTRACTOR (Firm Name)

Location or Place Executed: (City, State)

By

Name and title of person signing

(Indicate whether Contractor is Partnership,
Corporation, or Sole Proprietorship)

Date

Washington State Contractor's
Registration Number

Contractor's Industrial Insurance
Account Number

Employment Security Identification
Number

Uniform Business Identification
(UBI) Number

MUST BE SUBMITTED WITH PROPOSAL

Contractor's Address:

Telephone Number

Fax Number

EMAIL

**** Bid proposal to be submitted in a sealed envelope marked "Bid Enclosed" for
NE 132ND ST / 108TH AVE NE INTERSECTION IMPROVEMENTS, JOB NO. 49-20-PW.**

CITY OF KIRKLAND**BASE BID**NE 132ND ST / 108TH AVE NE INTERSECTION IMPROVEMENTS

JOB NO. 49-20-PW

Note: Unit prices for all items, all extensions, and the total amount of the bid must be shown. All entries must be typed or entered in ink.

Item No.	Item Description	Est. Qty.	Unit	Unit Price	Amount
1	Mobilization	1	LS		
2	Clearing and Grubbing	0.15	AC		
3	Removal of Structures and Obstructions	1	LS		
4	Sawcutting	725	LF		
5	Removing Cement Conc. Sidewalk	420	SY		
6	Removing Cement Conc. Curb and Gutter	680	LF		
7	Removing Asphalt Conc. Pavement	95	SY		
8	Removing Wooden Fence	315	LF		
9	Removing Chain Link Fence	6	LF		
10	Roadway Excavation Incl. Haul	195	CY		
11	Gravel Borrow Incl. Haul	105	TON		
12	Crushed Surfacing Base Course	235	TON		
13	Planing Bituminous Pavement	1695	SY		
14	HMA Cl. 3/8 In. PG 58H-22	430	TON		
15	Job Mix Compliance Price Adjustment	1	CALC	\$1.00	\$1.00
16	Compaction Price Adjustment	1	CALC	\$1.00	\$1.00
17	Shoring or Extra Excavation Class A Incl. Haul	1	LS		
18	Structural Earth Wall	750	SF		
19	Gravel Borrow for Structural Earth Wall Incl. Haul	30	CY		
20	Pedestrian Handrail	78	LF		
21	Underdrain Pipe 6 In. Diam.	36	LF		
22	Drain Pipe 6 In. Diam.	20	LF		
23	Cleanout	2	EA		
24	Catch Basin Type 1	4	EA		
25	Solid Wall PVC Storm Sewer Pipe 12 In. Diam.	179	LF		

MUST BE SUBMITTED WITH PROPOSAL

26	Corrugated Metal Pipe 12 in. Diam.	15	LF		
27	Connection to Drainage Structure	2	EA		
28	Shoring or Extra Excavation Class B	85	SF		
29	Controlled Density Fill	8	CY		
30	Plugging Existing Pipe	3	EA		
31	High Visibility Silt Fence	455	LF		
32	Inlet Protection	10	EA		
33	PSIPE Autumn Brilliance Serviceberry (2 In. Caliper)	5	EA		
34	PSIPE Vine Maple (2 In. Caliper / 7-8 Ft. Ht.)	2	EA		
35	PSIPE Green Giant Arborvitae (2 In. Caliper / 7-8 Ft. Ht.)	1	EA		
36	Seeded Lawn Installation	320	SY		
37	Topsoil Type A	123	CY		
38	Bark or Wood Chip Mulch	51	SY		
39	Root Barrier	120	LF		
40	Protection and Restoration of Property	1	EST	\$4000.00	\$4000.00
41	Cement Conc. Traffic Curb and Gutter	650	LF		
42	Cement Conc. Pedestrian Curb	35	LF		
43	Illumination System	1	LS		
44	Traffic Signal System Modification	1	LS		
45	Raised Pavement Marker Type 2	0.30	HUND		
46	Permanent Signing	1	LS		
47	Plastic Stop Line	90	LF		
48	Paint Line	2160	LF		
49	Plastic Traffic Arrow	11	EA		
50	Plastic Bicycle Lane Symbol	3	EA		
51	Plastic Crosswalk Line	620	SF		
52	Plastic Wide Lane Line	105	LF		
53	Removing Paint Line	90	LF		
54	Removing Plastic Crosswalk Line	60	SF		
55	Plastic Conflict Zone Bicycle Lane Pavement Marking	230	SF		

MUST BE SUBMITTED WITH PROPOSAL

56	Project Temporary Traffic Control	1	LS		
57	Portable Changeable Message Sign	2	EA		
58	Flaggers	480	HR		
59	Off-duty Police Officer	20	HR		
60	Record Drawings (Minimum bid \$500)	1	LS		
61	Roadway Surveying	1	LS		
62	ADA Features Surveying	1	LS		
63	SPCC Plan	1	LS		
64	Cedar Wood Fence	85	LF		
65	Adjust Valve Box	8	EA		
66	Roadside Cleanup	1	EST	8000.00	8000.00
67	Minor Changes	1	EST	10,000.00	10,000.00
68	Gravel Backfill for Drains	10	CY		
69	Cement Conc. Sidewalk	295	SY		
70	Cement Conc. Curb Ramp Parallel Type A	5	EA		
71	Detectable Warning Surface	20	SF		
72	Temporary Chain Link Fence	305	LF		

TOTAL COMPUTED PRICE: \$ _____



BID DEPOSIT

Herewith find deposit in the form of a cashier's check or certified check in the amount of \$_____ which amount is not less than five percent (5%) of the total bid.

SIGN HERE_____

BID BOND

KNOW ALL MEN BY THESE PRESENTS:

That we, _____, as Principal, and
_____, as Surety, are
held and firmly bound unto the City of Kirkland, as Obligee, in the penal sum of _____
_____ dollars, for the payment of which the
Principal and the Surety bind themselves, their heirs, executors, administrators, successors and assigns,
jointly and severally, by these presents.

The condition of this obligation is such that if the Obligee shall make any award to the Principal for

Project Name Job Number

according to the terms of the proposal or bid made by the Principal therefor, and the Principal shall duly
make and enter into a contract with the Obligee in accordance with the terms of said proposal or bid and
award and shall give bond for faithful performance thereof, with Surety or Sureties approved by the Obligee;
or if the Principal shall, in case of failure to do so, pay and forfeit to the Obligee the penal amount of the
deposit specified in the call for bids, then this obligation shall be null and void; otherwise it shall be and
remain in full force and effect and the Surety shall forthwith pay and forfeit to the Obligee, as penalty and
liquidated damages, the amount of this bond.

SIGNED, SEALED AND DATED THIS _____ DAY OF _____, 20_____.

PRINCIPAL:

SURETY:

Note: If a Bid Bond is provided, it must be accompanied by a power of attorney which appoints the
Surety's true and lawful attorney-in-fact to make, execute, seal and deliver this Bid Bond.

**CITY OF KIRKLAND
NONCOLLUSION AFFIDAVIT
NE 132ND ST / 108TH AVE NE INTERSECTION IMPROVEMENTS
JOB NO. 49-20-PW**

STATE OF WASHINGTON)
) SS
COUNTY OF KING)

The undersigned, being duly sworn, on oath deposes and says that the person(s), firm, association, partnership or corporation herein named has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with the project for which this proposal is submitted.

Firm Name

Authorized Signature

Type Name

Title

Sworn to before me, this _____ day of _____, 20__.

Notary Public in and for the State of Washington
Residing at _____
My Commission Expires _____

NOTICE TO ALL BIDDERS

To report bid rigging activities call: 1-800-424-9071

The U.S. Department of Transportation (USDOT) operates the above toll-free "hotline" Monday through Friday, 8:00 a.m. to 5:00 p.m., ET. Anyone with knowledge of possible bid rigging, bidder collusion, or other fraudulent activities should use the "hotline" to report such activities.

The "hotline" is part of USDOT's continuing effort to identify and investigate highway construction contract fraud and abuse and is operated under the direction of the USDOT Inspector General. All information will be treated confidentially and caller anonymity will be respected.

**CITY OF KIRKLAND
STATEMENT OF BIDDER'S QUALIFICATIONS**

Contractor Name: _____ Contact: _____

Business Address: _____

Business phone: _____ Fax: _____

Number of years the Contractor has been engaged in the construction business under the present firm name: _____

Describe the general character of work performed by your company: _____

List five projects of a similar nature which Contractor has completed within the last 10 years. Include contract amount and contact information for references:

Project Name	Amount	Owner/Agency	Contact	Phone	Year Completed

List major equipment anticipated to be used on this project; indicate whether Contractor-owned or to be leased from others: _____

Bank reference(s): _____

Washington State Contractor Registration No.: _____

Uniform Business Identification No.: _____

I certify that other contracts now in progress or hereafter obtained will not interfere with timely performance of the City of Kirkland project should I become the successful bidder.

Authorized Signature: _____

Print Name: _____ Title: _____

**CITY OF KIRKLAND
SUBCONTRACTOR IDENTIFICATION FOR CONTRACTS ESTIMATED TO BE
IN EXCESS OF ONE MILLION DOLLARS (\$1,000,000.00)**

RCW 39.30.060 requires the following:

"Every invitation to bid on a prime contract that is **expected** to cost one million dollars or more for the construction, alteration, or repair of any public building or public work of the state or a state agency or municipality as defined under RCW 39.04.010 ... shall require each prime contract bidder to submit as part of the bid, or within one hour after the published bid submittal time [see *note below*], the names of the subcontractors with whom the bidder, if awarded the contract, will subcontract for performance of the work of: HVAC (heating, ventilation, and air conditioning); plumbing as described in chapter 18.106 RCW; and electrical as described in chapter 19.28 RCW, or to name itself for the work. The prime contract bidder shall not list more than one subcontractor for each category of work identified, unless subcontractors vary with bid alternates, in which case the prime contract bidder must indicate which subcontractor will be used for which alternate. Failure of the prime contract bidder to submit as part of the bid the names of such subcontractors or to name itself to perform such work or the naming of two or more subcontractors to perform the same work shall render the prime contract bidder's bid non-responsive and, therefore, void."

NOTE: The City of Kirkland has elected not to allow bidders to submit the information required by RCW 39.30.060 after the published bid submittal time. A proposal will be considered irregular and will be rejected if the bidder does not provide the above list as part of its proposal when submitting its bid.

Each bidder shall submit a list of:

1. HVAC, plumbing, and electrical subcontractors; and
2. The specific items of work those subcontractors will perform on the contract; and
3. The specific items of work that will be performed by the bidder on the contract.

**CITY OF KIRKLAND
SUBCONTRACTOR IDENTIFICATION LIST**

*REQUIRED IF ESTIMATE AMOUNT EXCEEDS \$1,000,000 (*Reference RCW 39.30.060 RCW*)

Proposed Subcontractors and items of work to be performed:

Subcontractor Name: _____

Item Numbers: _____

Subcontractor Name: _____

Item Numbers: _____

Subcontractor Name: _____

Item Numbers: _____

Subcontractor Name: _____

Item Numbers: _____

- make additional pages if necessary -

Work to be performed by Prime Contractor:

Item Numbers: _____

CITY OF KIRKLAND BIDDER'S CHECKLIST

1. Have you reviewed the Bidder Responsibility and Subcontractor Responsibility Criteria?
2. Have you enclosed a bid bond or certified check with your bid? (Must be at least 5% of the total amount bid)
3. Have you entered a bid amount for all items and all schedules?
4. Do the written amounts of the proposal agree with the amounts shown in the figures?
5. Have you acknowledged receipt of addenda?
6. Has the proposal been properly completed and signed?
7. Have you completed the Statement of Bidder's Qualifications?
8. Have you completed the City of Kirkland Non-collusion Affidavit?
9. Have you completed the Subcontractor Identification List? (This is to be completed for HVAC, plumbing, and electrical subcontractors if the estimate amount exceeds \$1,000,000.)
10. Bid proposal to be submitted in a sealed envelope marked "Bid Enclosed" for:

INFORMATION ONLY

The following forms must be executed and submitted by the successful bidder within ten (10) calendar days following Notice of Award.

CITY OF KIRKLAND

PUBLIC WORKS AGREEMENT

NE 132ND ST / 108TH AVE NE INTERSECTION IMPROVEMENTS

JOB NO. **49-20-PW**

This agreement is made and entered into this _____ day of _____, 20____, by and between **CONTRACTOR NAME**, hereinafter called the "Contractor" and the City of Kirkland, hereinafter called the "Owner."

W I T N E S S E T H:

Whereas, pursuant to the invitation of the Owner extended through an officially published "Invitation to Bid," the Contractor did, in accordance therewith, file with the Owner a proposal containing an offer which was invited by said notice, and

Whereas, the Owner has heretofore determined that said offer was the lowest responsible bid submitted; now, therefore, it is agreed:

Section 1. That Contractor shall comply in every way with the requirements of those certain specifications entitled: "NE 132ND ST / 108TH AVE NE INTERSECTION IMPROVEMENTS, Job No **49-20-PW**

The further terms, conditions and covenants of the contract are set forth in the following contract documents which are hereby made a part of this agreement by actual attachment or by this reference thereto as follows:

- A. Any Invitation to Bid, as published by the Owner.
- B. Any Specifications prepared for this project by the Owner and named above by title.
- C. Any detailed Plans listed and described in said Specifications, together with those which may be issued as supplements thereof.
- D. The bid proposals submitted by the Contractor as to those items and/or alternatives accepted by the Owner.
- E. Any change orders, additions or deletions, if any, issued by the Owner.

Section 2. In consideration of faithful compliance with the terms and conditions of this agreement, whether set forth herein or incorporated by reference, the Owner shall pay to the Contractor, at the times and in the manner provided in said specifications, the total sum of _____ dollars (\$ _____) which sum is subject, however, to increase or decrease in such proportion as the quantities named in said proposal are so changed, all as in said specifications and proposal provided.

In witness whereof, said Contractor and said Owner have caused this agreement to be executed on the day and year first written above.

CONTRACTOR (Firm Name)

Signature of authorized officer

Name and title of officer (print or type)

WA Contractor's Registration Number

Industrial Insurance Account Number

Uniform Business Identification (UBI) Number

Phone Number

(For corporations, LLC's and other legal entities)

STATE OF WASHINGTON)
) SS
COUNTY OF KING)

On this day before me, the undersigned, a Notary Public in and for the State of Washington, duly commissioned and sworn, personally appeared _____, to me known to be the _____ of _____, the legal entity that executed the foregoing instrument, and acknowledged the said instrument to be the free and voluntary act and deed of said legal entity, for the uses and purposes therein set forth, and on oath stated that he/she was authorized to sign said instrument.

Given under my hand and official seal this _____ day of _____, 2_____.

Print Name: _____
NOTARY PUBLIC in and for the State of
Washington, residing _____
Commission expires: _____

(For individuals and d/b/a's)

STATE OF WASHINGTON)
) SS
COUNTY OF KING)

On this day 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 individual(s) described herein and who executed the foregoing instrument, and acknowledged that he/she/they signed the same as his/her/their free and voluntary act and deed, for the uses and purposes therein mentioned.

Given under my hand and official seal this _____ day of _____, 2_____.

Print Name: _____
NOTARY PUBLIC in and for the State of
Washington, residing _____
Commission expires: _____

CITY OF KIRKLAND

BY: _____
Beth Goldberg, Deputy City Manager



PERFORMANCE BOND

Surety to have an A.M. Best rating of A:-VII or better.

Bond No. _____

KNOW ALL PERSONS BY THESE PRESENTS, that **CONTRACTOR NAME**, as Principal, and _____, (insert name of surety), as Surety, a corporation duly organized under the laws of the State of _____, (insert Surety's state of incorporation), and authorized to do business as a surety in the State of Washington, are held and firmly bound unto the City of Kirkland (City) in the sum of _____ dollars (\$_____), lawful money of the United States of America, plus the total amount of extra orders issued by the City to the Principal pursuant to the terms of the Contract referred to in the next succeeding paragraph hereof, for the payment whereof Principal and Surety bind ourselves, and our heirs, executors, administrators, representatives, successors, and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has been awarded, and is about to enter into, a written Contract with the City for NE 132nd St. / 108th Ave. NE Intersection Improvements, Job #45-20-PW, THEREFORE, the condition of this bond is such that:

1. If the Principal shall completely and faithfully perform all of its obligations under the Contract, including any warranties required thereunder, and all modifications, amendments, additions, and alterations thereto, including modifications which increase the contract price or time for completion, with or without notice to the surety; and
2. If the Principal shall indemnify and hold the City harmless from any and all losses, liability, damages, claims, judgments, liens, costs, and fees of any type that the City may be subject to because of the failure or default of the Principal in the performance of any of the terms, conditions, or obligations of the Contract, including all modifications, amendments, additions, and alterations thereto, and any warranties required thereunder;

THEN THIS obligation shall be null and void; otherwise to remain in full force and effect. If the City shall declare Principal to be in default of the Contract, and shall so notify Surety, Surety shall, within a reasonable time which shall not exceed 14 days, except for good cause shown, notify the City in writing of the manner in which surety will satisfy its obligations under this Bond.

THEN THIS obligation shall be null and void; otherwise to remain in full force and effect. If the City shall declare Principal to be in default of the Contract, and shall so notify Surety, Surety shall, within a reasonable time which shall not exceed 14 days, except for good cause shown, notify the City in writing of the manner in which surety will satisfy its obligations under this Bond.

Nonpayment of the Bond premium will not invalidate this Bond nor shall the City be obligated for the payment thereof. The Surety hereby waives notice of any modification of the Contract or extension of time made by the City.

Signed this _____ day of _____, 2____.

Principal: _____

Surety: _____

By: _____

By: _____

Title: _____

Title: _____

Address: _____

Address: _____

City/Zip: _____

City/Zip: _____

Telephone: () _____

Telephone: () _____

Note: A power of attorney must be provided which appoints the Surety's true and lawful attorney-in-fact to make, execute, seal and deliver this performance bond.



LABOR, MATERIAL AND TAXES PAYMENT BOND

Surety to have an A.M. Best rating of A:-VII or better.

Bond No. _____

KNOW ALL PERSONS BY THESE PRESENTS, that, CONTRACTOR NAME, as Principal, and _____, (insert name of surety), as Surety, a corporation duly organized under the laws of the State of _____ (insert Surety's state of incorporation), and authorized to do business as a surety in the State of Washington, are held and firmly bound unto the City of Kirkland (City) for the use and benefit of claimants as hereinafter defined, in the sum of _____ Dollars (\$_____), lawful money of the United States of America, plus the total amount of any extra orders issued by the City, for the payment whereof Principal and Surety bind themselves, their heirs, executors, administrators, representatives, successors, and assigns, jointly and severally, firmly by these presents.

WHEREAS, Principal has been awarded, and is about to enter into, a Contract with City of Kirkland for **NE 132ND ST / 108TH AVE NE INTERSECTION IMPROVEMENTS**, Job # 49-20-PW, which contract is by this reference made a part hereof;

WHEREAS, the contract is a public works contract, subject to the provisions of RCW Titles 39 and 60;

NOW, THEREFORE, the conditions of this obligation are such that, if the Principal shall promptly make payment to all claimants as hereinafter defined, for (a) all labor and material used or reasonably required for use in the performance of the contract and (b) all taxes, increases, and penalties incurred on the above-referenced contract under Titles 50, 51, and 82 RCW which may be due, then this obligation shall be void; otherwise, it shall remain in full force and effect, subject, however, to the following conditions: A claimant is defined as and includes (a) a person claiming to have supplied labor or materials for the prosecution of the work provided for in the contract, including any person having direct contractual relationship with the contractor furnishing the bond or direct contractual relationship with any subcontractor, or an assignee of such person, (b) the state with respect to taxes incurred on the above-referenced contract under Titles 50, 51, and 82 RCW which may be due and (c) any other person or entity as allowed or required by law.

3. The Principal and Surety hereby jointly and severally agree with the City that every claimant as herein defined, who has not been paid in full prior to Final Acceptance of the project, or materials were furnished by such claimant, has an action on this bond for such sum or sums as may be justly due claimant, and may have execution thereon. The City shall not be liable for the payment of any costs or expenses of any such suit or action.

(Form continues on next page)

4. No suit or action shall be commenced hereunder by any claimant (except the state with respect to taxes, increases, and penalties incurred on the above-referenced contract under Titles 50, 51, and 82 RCW which may be due) unless the claimant has sent the written notice required under RCW Title 39 to the Principal and to the City's Purchasing Agent by registered or certified mail, or by hand delivery, no later than 30 days after Final Acceptance of the Project.

The amount of this bond shall be reduced by and to the extent of any payment or payments made in good faith hereunder, inclusive of the payment by Surety of mechanics' liens which may be filed of record against the improvement, whether or not claim for the amount of such lien be presented under and against this bond.

The Surety hereby waives notice of any modification of the contract or extension of time made by the City.

Signed this _____ day of _____, 2____

Principal: _____ Surety: _____

By: _____ By: _____

Title: _____ Title: _____

Address: _____ Address: _____

City/Zip: _____ City/Zip: _____

Telephone: () _____ Telephone: () _____

Note: A power of attorney must be provided which appoints the Surety's true and lawful attorney-in-fact to make, execute, seal and deliver this performance bond.

END OF LABOR, MATERIAL AND TAXES PAYMENT BOND FORM

**CITY OF KIRKLAND
CONTRACTOR'S DECLARATION OF OPTION FOR MANAGEMENT
OF STATUTORY RETAINED PERCENTAGE**

NE 132ND ST / 108TH AVE NE INTERSECTION IMPROVEMENTS
JOB NO. 49-20-PW

Monies reserved under provisions of Chapter 60.28 RCW, at the option of the Contractor, shall be:

Select
One

- ☐ (1) Retained in a fund by the City. No interest will be earned on the retained percentage amount under this election.
- ☐ (2) Retainage Bond
- ☐ (3) Placed in escrow with a bank or trust company by the City. When the monies reserved are to be placed in escrow, the City will issue a check representing the sum of the monies reserved payable to the bank or trust company and the Contractor jointly. Such check shall be converted into bonds and securities chosen by the Contractor and approved by the City and the bonds and securities held in escrow. (For the convenience of those Contractors choosing option (3) a City approved Form of Escrow Agreement is included on the next page and should be completed and submitted with the executed contract.)
- The Contractor in choosing option (3) agrees to assume full responsibility to pay all costs which may accrue from escrow services, brokerage charges or both, and further agrees to assume all risks in connection with the investment of the retained percentages in securities.*
- ☐ (4) Deposited by the City in an interest-bearing account at the FDIC insured bank currently providing contracted banking services to the City of Kirkland. Interest on such account shall be paid to the contractor. Any fees incurred shall be the responsibility of the contractor.

CONTRACTOR:

Signature: _____

Print or Type Name: _____

Title: _____

Date: _____

RETAINAGE BOND
RETURN THIS FORM IF RETAINAGE BOND OPTION IS SELECTED

Contract Title	_____
Contract Number	_____
Contractor Name	_____

The Undersigned, _____, existing under and by virtue of the laws of the State of Washington and authorized to do business in the State of Washington as Principal, and _____ organized and existing under the laws of the State of _____ and authorized to transact business in the State of Washington as Surety, are jointly and severally held and bound unto _____, hereinafter called Obligee, and are similarly held and bound unto the beneficiaries of the trust fund created by RCW 60.28, in the penal sum of

(\$ _____), Which is 5% of the principal's price on Contract ID _____.

WHEREAS, on the _____ day of _____, 2____, the said principal herein executed a contract with the Obligee, for the Contract specified above, Contract ID Number _____.

WHEREAS, said contract and RCW 60.28 require the Obligee to withhold from the Principal the sum of ____% from monies earned on estimates during the progress of the construction, herein after referred to as earned retained funds.

NOW WHEREAS, Principal has requested that the Obligee not retain any earned retained funds as allowed under RCW 60.28.

NOW THEREFORE, the condition of the obligation is such that the Principal and Surety are held and bound unto the beneficiaries of the trust fund created by RCW 60.28 in the penal sum of _____ percent (____%) of the final contract cost which shall include any increases due to change orders, increases in quantities of work or the addition of any new item of work. If the Principal shall use the earned retained funds, which will not be retained, for the trust fund purposes of RCW 60.28, then this obligation shall be null and void; otherwise, it shall remain in full force and effect until release is authorized in writing by the Obligee. This bond and any proceeds therefrom shall be made subject to all claims and liens and in the same manner and priority as set forth for retained percentages in RCW 60.28.

PROVIDED HOWEVER, that:

1. The liability of the surety under this bond shall not exceed 5% or 50% of the total amount earned by the Principal if no monies are retained by the Obligee on estimates during the progress of construction.
2. Any suit under this bond must be instituted within the time provided by applicable law.

Witness our hands this _____ day of _____, 2____.

SURETY

PRINCIPAL

By: _____
Name/Title

By: _____
Name/Title

OF: _____

OF: _____

Surety Name and Local Office of Agent: _____

Surety Address and Phone of Local Office and Agent: _____

CITY OF KIRKLAND
RETAINED PERCENTAGE ESCROW AGREEMENT
NE 132ND ST / 108TH AVE NE INTERSECTION IMPROVEMENTS
JOB NO. **49-20-PW**

Escrow No. _____

City of Kirkland
123 Fifth Avenue
Kirkland, Washington 98033

Contractor: _____

Address: _____

Project Description: _____

TO: Escrow Bank or Trust Company:

Name: _____

Address: _____

Attention: _____

The undersigned, _____, herein referred to as the Contractor, has directed the City of Kirkland to deliver to you its warrants, which shall be payable to you and the Contractor jointly. Such warrants are to be held and disposed of by you in accordance with the following instructions and upon the terms and conditions hereinafter set forth.

INSTRUCTIONS

1. Warrants or checks made payable to you and the Contractor jointly upon delivery to you shall be endorsed by you and forwarded for collection. The moneys will then be used by you to purchase, as directed by the Contractor, bonds or other securities chosen by the Contractor and approved by the City of Kirkland. Attached is a list of such bonds, or other securities approved by the City of Kirkland. Other bonds or securities, except stocks, may be selected by the Contractor, subject to the express written approval of the City of Kirkland. Purchase of such bonds or other securities shall be in a form which shall allow you alone to reconvert such bonds or other securities into money if you are required to do so at the direction of the City of Kirkland and Contractor.
2. When and as interest on the securities held by you pursuant to this agreement accrues and is paid, you shall collect such interest and forward it to the Contractor at its address designated below unless otherwise directed by the Contractor.
3. You are not authorized to deliver to the Contractor all or any part of the securities held by you pursuant to this agreement (or any moneys derived from the sale of such securities, or the

negotiation of the City of Kirkland's warrants) except in accordance with written instructions from the City of Kirkland. Compliance with such instructions shall relieve you of any further liability related thereto. The estimated completion date on the contract underlying this Escrow Agreement is _____.

4. The Contractor agrees to pay you as compensation for your services hereunder as follows:

Payment of all fees shall be the sole responsibility of the Contractor and shall not be deducted from any property placed with you pursuant to this agreement until and unless the City of Kirkland directs the release to the Contractor of the securities and moneys held hereunder whereupon you shall be granted a first lien upon such property released and shall be entitled to reimburse yourself from such property for the entire amount of your fees as provided for hereinabove. In the event that you are made a party to any litigation with respect to the property held by you hereunder, or in the event that the conditions of this escrow are not promptly fulfilled or that you are required to render any service not provided for in these instructions, or that there is any assignment of the interests of this escrow or any modification hereof, you shall be entitled to reasonable compensation for such extraordinary services from the Contractor and reimbursement from the Contractor for all costs and expenses, including attorney's fees occasioned by such default, delay, controversy, or litigation.

5. This agreement shall not be binding until executed by the Contractor and the City of Kirkland and accepted by you.
6. This instrument contains the entire agreement between you, the Contractor and the City of Kirkland, with respect to this escrow and you are not a part nor bound by any instrument or agreement other than this; you shall not be required to take notice of any default or any other matter nor be bound by nor required to give notice or demand, nor required to take any action whatever, except as herein expressly provided; you shall not be liable for any loss or damage not caused by your own negligence or willful misconduct.
7. The foregoing provisions shall be binding upon the assigns, successors, personal representatives, and heirs of the parties hereto.
8. The Contractor's Federal Income Tax Identification number is _____.

** Please note: Written release will be issued by the Director of Finance & Administration. For further information, contact the Purchasing Agent at (425) 587-3123.

The undersigned have read and hereby approve the instructions as given above governing the administration of this escrow and do hereby execute this agreement on this ____ day of _____, 2____.

CONTRACTOR:

CITY OF KIRKLAND:

By: _____
Signature

By: _____
Signature

Print or Type Name

Print or Type Name

Title

Title

Address: _____

123 Fifth Avenue
Kirkland, Washington 98033

The above escrow instructions received and accepted this ____ day of _____, 2____.

ESCROW BANK OR TRUST CO:

By: _____
Authorized Signature

Print or Type Name

Title

Securities Authorized by City of Kirkland (select one):

1. Bills, certificates, notes or bonds of the United States;
2. Other obligations of the United States or its agencies;
3. Obligations of any corporation wholly-owned by the government of the United States;
4. Indebtedness of the Federal National Mortgage Association; and
5. Time deposits in commercial banks.

RETURN THIS SIGNED AGREEMENT TO:

City of Kirkland
Attn: Purchasing Agent
123 Fifth Avenue
Kirkland, Washington 98033

CITY OF KIRKLAND RETAINAGE RELEASE REQUIREMENTS

DOCUMENTS REQUIRED TO BE ON FILE PRIOR TO RELEASE OF RETAINAGE

1. Intent to Pay Prevailing Wage (Contractor must generation including for subcontractors)

Department of Labor/Industries
Employment Standards Division
General Administration Building
Olympia, Washington 98504
(360) 956-5335

2. Notice of Completion of Public Works Contract (City generates)

Department of Revenue
Excise Tax Division
Olympia, Washington 98504

3. Affidavit of Wages Paid (Contractor must generate including for subcontractors)

Department of Labor/Industries

4. Certificate of Release - State Excise Tax by Public Works Contractor (Letter from State to City)

Department of Revenue
Department of Labor and Industries
Employment Security Department

Receipt for Payment in full or Release of Lien signed by Lien Claimant and filed with City
(Responsibility of Contractor to obtain)

Claims against retainage or Payment Bond filed with City by any
such subcontractor, workman, or material supplier.

Current insurance certificate through retainage release (Contractor generates)

Produce final invoice for retainage if bond is not selected (Contractor generates)

SPECIAL PROVISIONS

Supplement to

2021

WSDOT Standard
Specifications

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SPECIAL PROVISIONS

The work on this project shall be accomplished in accordance with the Standard Specifications for Road, Bridge and Municipal Construction, 2021 edition, as issued by the Washington State Department of Transportation (WSDOT) and the American Public Works Association (APWA), Washington State Chapter (hereafter "Standard Specifications"). The Standard Specifications, as modified or supplemented by these Special Provisions, all of which are made a part of the Contract Documents, shall govern all of the Work.

These Special Provisions supersede any conflicting provisions of the Standard Specifications.

The accompanying Plans and these Specifications and any Addenda thereto, show and describe the location and type of work to be performed under the **NE 132nd St and 108th Ave NE Intersection Improvements**.

These Special Provisions are made up of both General Special Provisions (GSPs) from various sources, which may have project-specific fill-ins; and project-specific Special Provisions. Each Provision supplements, modifies, or replaces the comparable Standard Specification, or is a new Provision. The deletion, amendment, alteration, or addition to any subsection or portion of the Standard Specifications is meant to pertain only to that particular portion of the section, and in no way should it be interpreted that the balance of the section does not apply.

The titles of headings of the Sections and subsections herein are intended for convenience or reference and shall not be considered as having any bearing on their interpretation.

Several types of Special Provisions are included in this contract and are differentiated as follows:

General Special Provisions (GSPs) are similar to Standard Specifications in that they typically apply to many public works projects. These can include:

- **Local Agency/APWA Approved GSPs** are modifications to the Standard Specifications prepared by the APWA Division 1 subcommittee, which is comprised of representatives of local agencies throughout the State of Washington. These GSPs are generally used throughout the state. APWA GSPs replace what was formerly referred to as "Division 1-99 APWA Supplement" in previous editions of the Standard Specifications for Road, Bridge and Municipal Construction. Denoted as: **(date APWA GSP)**
- **City of Kirkland GSPs** are modifications to the Standard Specifications prepared by the City of Kirkland Public Works Department, and commonly applicable to City of Kirkland projects. Denoted as: **(date COK GSP)**
- **WSDOT GSPs** are modifications to the Standard Specifications. Denoted as: **(date)**

Project-Specific Special Provisions normally appear only in the contract for which they were developed. Denoted as: **(*****)**

Also incorporated into the Contract Documents by reference are:

- Manual on Uniform Traffic Control Devices for Streets and Highways, currently adopted edition, with Washington State modifications, if any
- Standard Plans for Road, Bridge and Municipal Construction, WSDOT/APWA, current edition
- City of Kirkland Public Works Department Pre-Approved Plans and Policies, current year edition.

Contractor shall obtain copies of these publications, at Contractor's own expense.

Division 1
General Requirements

DESCRIPTION OF WORK

(March 13, 1995)

The work to be performed under this contract shall include improvements of the NE 132nd Street/ 108 Ave NE Intersection Improvements Project. This project will widen 132nd Street from approximately 200 feet east of 109th Avenue to 108th Avenue. This work will consist of adding a 5' wide bike lane and right turn lanes westbound to 108th and 109th Avenues. Installing curb, gutter and sidewalk, landscape strip, landscaping, drainage modifications, striping, traffic control, utility adjustments, signal modifications, illumination, retaining wall structure and other work, all in accordance with these Contract Provisions, the attached Contract Plans, and the Standard Specifications.

1-01 DEFINITIONS AND TERMS

1-01.3 Definitions

(January 4, 2016 APWA GSP)

Delete the heading **Completion Dates** and the three paragraphs that follow it, and replace them with the following:

Dates

Bid Opening Date

The date on which the Contracting Agency publicly opens and reads the Bids.

Award Date

The date of the formal decision of the Contracting Agency to accept the lowest responsible and responsive Bidder for the Work.

Contract Execution Date

The date the Contracting Agency officially binds the Agency to the Contract.

Notice to Proceed Date

The date stated in the Notice to Proceed on which the Contract time begins.

Substantial Completion Date

The day the Engineer determines the Contracting Agency has full and unrestricted use and benefit of the facilities, both from the operational and safety standpoint, any remaining traffic disruptions will be rare and brief, and only minor incidental work, replacement of temporary substitute facilities, plant establishment periods, or correction or repair remains for the Physical Completion of the total Contract.

Physical Completion Date

The day all of the Work is physically completed on the project. All documentation required by the Contract and required by law does not necessarily need to be furnished by the Contractor by this date.

Completion Date

The day all the Work specified in the Contract is completed and all the obligations of the Contractor under the contract are fulfilled by the Contractor. All documentation required by the Contract and required by law must be furnished by the Contractor before establishment of this date.

Final Acceptance Date

The date on which the Contracting Agency accepts the Work as complete.

Supplement this Section with the following:

All references in the Standard Specifications, or WSDOT General Special Provisions, to the terms "Department of Transportation", "Washington State Transportation Commission", "Commission", "Secretary of Transportation", "Secretary", "Headquarters", and "State Treasurer" shall be revised to read "Contracting Agency".

All references to the terms "State" or "state" shall be revised to read "Contracting Agency" unless the reference is to an administrative agency of the State of Washington, a State statute or regulation, or the context reasonably indicates otherwise.

All references to "State Materials Laboratory" shall be revised to read "Contracting Agency designated location".

All references to "final contract voucher certification" shall be interpreted to mean the Contracting Agency form(s) by which final payment is authorized, and final completion and acceptance granted.

Additive

A supplemental unit of work or group of bid items, identified separately in the Bid Proposal, which may, at the discretion of the Contracting Agency, be awarded in addition to the base bid.

Alternate

One of two or more units of work or groups of bid items, identified separately in the Bid Proposal, from which the Contracting Agency may make a choice between different methods or material of construction for performing the same work.

Business Day

A business day is any day from Monday through Friday except holidays as listed in Section 1-08.5.

Contract Bond

The definition in the Standard Specifications for "Contract Bond" applies to whatever bond form(s) are required by the Contract Documents, which may be a combination of a Payment Bond and a Performance Bond.

Contract Documents

See definition for "Contract".

Contract Time

The period of time established by the terms and conditions of the Contract within which the Work must be physically completed.

Notice of Award

The written notice from the Contracting Agency to the successful Bidder signifying the Contracting Agency's acceptance of the Bid Proposal.

1 **Notice to Proceed**
2 The written notice from the Contracting Agency or Engineer to the Contractor authorizing
3 and directing the Contractor to proceed with the Work and establishing the date on which
4 the Contract time begins.

5
6 **Traffic**
7 Both vehicular and non-vehicular traffic, such as pedestrians, bicyclists, wheelchairs, and
8 equestrian traffic.
9

10 **1-02 BID PROCEDURES AND CONDITIONS**

11
12 **1-02.1 Prequalification of Bidders**

13
14 Delete this section and replace it with the following:

15
16 **1-02.1 Qualifications of Bidder**
17 *(January 24, 2011 APWA GSP)*
18

19 Before award of a public works contract, a bidder must meet at least the minimum
20 qualifications of RCW 39.04.350(1) to be considered a responsible bidder and qualified to
21 be awarded a public works project.
22

23 **1-02.2 Plans and Specifications**
24 *(June 27, 2011 APWA GSP)*
25

26 Delete this section and replace it with the following:

27
28 Information as to where Bid Documents can be obtained or reviewed can be found in the
29 Call for Bids (Advertisement for Bids) for the work.
30

31 After award of the contract, plans and specifications will be issued to the Contractor at no
32 cost as detailed below:
33

To Prime Contractor	No. of Sets	Basis of Distribution
Reduced plans (11" x 17")	2	Furnished automatically upon award.
Contract Provisions	1	Furnished automatically upon award.
Large plans (e.g., 22" x 34")	1	Furnished only upon request.

34
35 Additional plans and Contract Provisions may be obtained by the Contractor from the
36 source stated in the Call for Bids, at the Contractor's own expense.
37

38 **1-02.4 Examination of Plans, Specifications, and Site of Work**

39
40 **1-02.4(1) General**
41 *(June 24, 2021 APWA GSP Option B)*

The first sentence of the seventh paragraph, beginning with “Any prospective Bidder desiring...”, is revised to read:

Any prospective Bidder desiring an explanation or interpretation of the Bid Documents, shall request the explanation or interpretation in writing by close of business eight (8) business days preceding the bid opening to allow a written reply to reach all prospective Bidders before the submission of their Bids.

1-02.5 Proposal Forms
(July 31, 2017 APWA GSP)

Delete this section and replace it with the following:

The Proposal Form will identify the project and its location and describe the work. It will also list estimated quantities, units of measurement, the items of work, and the materials to be furnished at the unit bid prices. The bidder shall complete spaces on the proposal form that call for, but are not limited to, unit prices; extensions; summations; the total bid amount; signatures; date; and, where applicable, retail sales taxes and acknowledgment of addenda; the bidder's name, address, telephone number, and signature; the bidder's UDBE/DBE/M/WBE commitment, if applicable; a State of Washington Contractor's Registration Number; and a Business License Number, if applicable. Bids shall be completed by typing or shall be printed in ink by hand, preferably in black ink. The required certifications are included as part of the Proposal Form.

The Contracting Agency reserves the right to arrange the proposal forms with alternates and additives, if such be to the advantage of the Contracting Agency. The bidder shall bid on all alternates and additives set forth in the Proposal Form unless otherwise specified.

1-02.6 Preparation of Proposal
(December 10, 2020 APWA GSP, Option B)

Supplement the second paragraph with the following:

4. If a minimum bid amount has been established for any item, the unit or lump sum price must equal or exceed the minimum amount stated.
5. Any correction to a bid made by interlineation, alteration, or erasure, shall be initialed by the signer of the bid.

Delete the last two paragraphs, and replace them with the following:

The Bidder shall submit with their Bid a completed Contractor Certification Wage Law Compliance form, provided by the Contracting Agency. Failure to return this certification as part of the Bid Proposal package will make this Bid Nonresponsive and ineligible for Award. A Contractor Certification of Wage Law Compliance form is included in the Proposal Forms.

The Bidder shall make no stipulation on the Bid Form, nor qualify the bid in any manner.

1 A bid by a corporation shall be executed in the corporate name, by the president or a
2 vice president (or other corporate officer accompanied by evidence of authority to sign).

3
4 A bid by a partnership shall be executed in the partnership name, and signed by a
5 partner. A copy of the partnership agreement shall be submitted with the Bid Form if any
6 UDBE requirements are to be satisfied through such an agreement.

7
8 A bid by a joint venture shall be executed in the joint venture name and signed by a
9 member of the joint venture. A copy of the joint venture agreement shall be submitted
10 with the Bid Form if any UDBE requirements are to be satisfied through such an
11 agreement.

12
13 **1-02.7 Bid Deposit**
14 *(March 8, 2013 APWA GSP)*

15
16 Supplement this section with the following:

17
18 Bid bonds shall contain the following:

- 19 1. Contracting Agency-assigned number for the project;
- 20 2. Name of the project;
- 21 3. The Contracting Agency named as obligee;
- 22 4. The amount of the bid bond stated either as a dollar figure or as a percentage which
23 represents five percent of the maximum bid amount that could be awarded;
- 24 5. Signature of the bidder's officer empowered to sign official statements. The signature
25 of the person authorized to submit the bid should agree with the signature on the
26 bond, and the title of the person must accompany the said signature;
- 27 6. The signature of the surety's officer empowered to sign the bond and the power of
28 attorney.

29
30 If so stated in the Contract Provisions, bidder must use the bond form included in the
31 Contract Provisions.

32
33 If so stated in the Contract Provisions, cash will not be accepted for a bid deposit.

34
35 **1-02.9 Delivery of Proposal**

36
37 *(*****)*

38 Delete this section and replace it with the following:

39
40 Each Proposal shall be submitted in a sealed envelope, with the Project Name and
41 Project Number as stated in the Call for Bids clearly marked on the outside of the
42 envelope, or as otherwise required in the Bid Documents, to ensure proper handling and
43 delivery.

44
45 To be considered responsive on a FHWA-funded project, the Bidder may be required to
46 submit the following items, as required by Section 1-02.6:

- 47
48 • DBE Written Confirmation Document from each DBE firm listed on the Bidder's
49 completed DBE Utilization Certification (WSDOT 272-056);

- Good Faith Effort (GFE) Documentation
- DBE Bid Item Breakdown (WSDOT 272-054)
- DBE Trucking Credit Form (WSDOT 272-058)

These documents, if applicable, shall be received either with the Bid Proposal or as a Supplement to the Bid. The documents shall be received **no later than 48 hours** (not including Saturdays, Sundays and Holidays) after the time for delivery of the Bid Proposal.

If submitted after the Bid Proposal is due, the document(s) shall be submitted as follows:

1. By facsimile to the following FAX number 425-587-3844 or
2. By e-mail to the following e-mail address: sgonsar@gmail.com

All other information required to be submitted with the Bid Proposal must be submitted with the Bid Proposal itself, at the time stated in the Call for Bids.

Proposals that are received as required will be publicly opened and read as specified in Section 1-02.12. The Contracting Agency will not open or consider any Bid Proposal that is received after the time specified in the Call for Bids for receipt of Bid Proposals, or received in a location other than that specified in the Call for Bids. The Contracting Agency will not open or consider any "Supplemental Information" (DBE confirmations or GFE documentation) that is received after the time specified above, or received in a location other than that specified above.

If an emergency or unanticipated event interrupts normal work processes of the Contracting Agency so that Proposals cannot be received at the office designated for receipt of bids as specified in Section 1-02.12 the time specified for receipt of the Proposal will be deemed to be extended to the same time of day specified in the solicitation on the first work day on which the normal work processes of the Contracting Agency resume.

1-02.13 Irregular Proposals

(October 1, 2020 APWA GSP)

Delete this section and replace it with the following:

1. A Proposal will be considered irregular and will be rejected if:
 - a. The Bidder is not prequalified when so required;
 - b. The authorized Proposal form furnished by the Contracting Agency is not used or is altered;
 - c. The completed Proposal form contains any unauthorized additions, deletions, alternate Bids, or conditions;
 - d. The Bidder adds provisions reserving the right to reject or accept the award, or enter into the Contract;
 - e. A price per unit cannot be determined from the Bid Proposal;
 - f. The Proposal form is not properly executed;
 - g. The Bidder fails to submit or properly complete a Subcontractor list, if applicable, as required in Section 1-02.6;
 - h. The Bidder fails to submit or properly complete a Disadvantaged Business Enterprise Certification, if applicable, as required in Section 1-02.6;

- 1 i. The Bidder fails to submit written confirmation from each DBE firm listed on
2 the Bidder's completed DBE Utilization Certification that they are in
3 agreement with the bidder's DBE participation commitment, if applicable, as
4 required in Section 1-02.6, or if the written confirmation that is submitted fails
5 to meet the requirements of the Special Provisions;
6 j. The Bidder fails to submit DBE Good Faith Effort documentation, if applicable,
7 as required in Section 1-02.6, or if the documentation that is submitted fails to
8 demonstrate that a Good Faith Effort to meet the Condition of Award was
9 made;
10 k. The Bidder fails to submit a DBE Bid Item Breakdown form, if applicable, as
11 required in Section 1-02.6, or if the documentation that is submitted fails to
12 meet the requirements of the Special Provisions;
13 l. The Bidder fails to submit DBE Trucking Credit Forms, if applicable, as
14 required in Section 1-02.6, or if the documentation that is submitted fails to
15 meet the requirements of the Special Provisions;
16 m. The Bid Proposal does not constitute a definite and unqualified offer to meet
17 the material terms of the Bid invitation; or
18 n. More than one Proposal is submitted for the same project from a Bidder
19 under the same or different names.
20
21 2. A Proposal may be considered irregular and may be rejected if:
22 a. The Proposal does not include a unit price for every Bid item;
23 b. Any of the unit prices are excessively unbalanced (either above or below the
24 amount of a reasonable Bid) to the potential detriment of the Contracting
25 Agency;
26 c. Receipt of Addenda is not acknowledged;
27 d. A member of a joint venture or partnership and the joint venture or
28 partnership submit Proposals for the same project (in such an instance, both
29 Bids may be rejected); or
30 e. If Proposal form entries are not made in ink.
31

32 **1-02.14 Disqualification of Bidders**

33 *(May 17, 2018 APWA GSP, Option A)*
34

35 Delete this section and replace it with the following:
36

37 A Bidder will be deemed not responsible if the Bidder does not meet the mandatory bidder
38 responsibility criteria in RCW 39.04.350(1), as amended.
39

40 The Contracting Agency will verify that the Bidder meets the mandatory bidder
41 responsibility criteria in RCW 39.04.350(1). To assess bidder responsibility, the
42 Contracting Agency reserves the right to request documentation as needed from the
43 Bidder and third parties concerning the Bidder's compliance with the mandatory bidder
44 responsibility criteria.
45

46 If the Contracting Agency determines the Bidder does not meet the mandatory bidder
47 responsibility criteria in RCW 39.04.350(1) and is therefore not a responsible Bidder, the
48 Contracting Agency shall notify the Bidder in writing, with the reasons for its determination.
49 If the Bidder disagrees with this determination, it may appeal the determination within two
50 (2) business days of the Contracting Agency's determination by presenting its appeal and
51 any additional information to the Contracting Agency. The Contracting Agency will

consider the appeal and any additional information before issuing its final determination. If the final determination affirms that the Bidder is not responsible, the Contracting Agency will not execute a contract with any other Bidder until at least two business days after the Bidder determined to be not responsible has received the Contracting Agency's final determination.

1-02.15 Pre Award Information (August 14, 2013 APWA GSP)

Revise this section to read:

Before awarding any contract, the Contracting Agency may require one or more of these items or actions of the apparent lowest responsible bidder:

1. A complete statement of the origin, composition, and manufacture of any or all materials to be used,
2. Samples of these materials for quality and fitness tests,
3. A progress schedule (in a form the Contracting Agency requires) showing the order of and time required for the various phases of the work,
4. A breakdown of costs assigned to any bid item,
5. Attendance at a conference with the Engineer or representatives of the Engineer,
6. Obtain, and furnish a copy of, a business license to do business in the city or county where the work is located.
7. Any other information or action taken that is deemed necessary to ensure that the bidder is the lowest responsible bidder.

1-03 AWARD AND EXECUTION OF CONTRACT

1-03.1 Consideration of Bids (January 23, 2006 APWA GSP)

Revise the first paragraph to read:

After opening and reading proposals, the Contracting Agency will check them for correctness of extensions of the prices per unit and the total price. If a discrepancy exists between the price per unit and the extended amount of any bid item, the price per unit will control. If a minimum bid amount has been established for any item and the bidder's unit or lump sum price is less than the minimum specified amount, the Contracting Agency will unilaterally revise the unit or lump sum price, to the minimum specified amount and recalculate the extension. The total of extensions, corrected where necessary, including sales taxes where applicable and such additives and/or alternates as selected by the Contracting Agency, will be used by the Contracting Agency for award purposes and to fix the Awarded Contract Price amount and the amount of the contract bond.

1-03.3 Execution of Contract (October 1, 2005 APWA GSP)

Revise this section to read:

Copies of the Contract Provisions, including the unsigned Form of Contract, will be available for signature by the successful bidder on the first business day following award.

1 The number of copies to be executed by the Contractor will be determined by the
2 Contracting Agency.

3
4 Within 7 calendar days after the award date, the successful bidder shall return the signed
5 Contracting Agency-prepared contract, an insurance certification as required by Section
6 1-07.18, and a satisfactory bond as required by law and Section 1-03.4. Before
7 execution of the contract by the Contracting Agency, the successful bidder shall provide
8 any pre-award information the Contracting Agency may require under Section 1-02.15.
9

10 Until the Contracting Agency executes a contract, no proposal shall bind the Contracting
11 Agency nor shall any work begin within the project limits or within Contracting Agency-
12 furnished sites. The Contractor shall bear all risks for any work begun outside such areas
13 and for any materials ordered before the contract is executed by the Contracting Agency.
14

15 If the bidder experiences circumstances beyond their control that prevents return of the
16 contract documents within the calendar days after the award date stated above, the
17 Contracting Agency may grant up to a maximum of 10 additional calendar days for return
18 of the documents, provided the Contracting Agency deems the circumstances warrant it.
19
20

21 **1-03.4 Contract Bond**

22 *(July 23, 2015 APWA GSP)*
23

24 Delete the first paragraph and replace it with the following:
25

26 The successful bidder shall provide executed payment and performance bond(s) for the
27 full contract amount. The bond may be a combined payment and performance bond; or
28 be separate payment and performance bonds. In the case of separate payment and
29 performance bonds, each shall be for the full contract amount. The bond(s) shall:

- 30 1. Be on Contracting Agency-furnished form(s);
- 31 2. Be signed by an approved surety (or sureties) that:
 - 32 a. Is registered with the Washington State Insurance Commissioner, and
 - 33 b. Appears on the current Authorized Insurance List in the State of Washington
34 published by the Office of the Insurance Commissioner,
- 35 3. Guarantee that the Contractor will perform and comply with all obligations, duties,
36 and conditions under the Contract, including but not limited to the duty and obligation
37 to indemnify, defend, and protect the Contracting Agency against all losses and
38 claims related directly or indirectly from any failure:
 - 39 a. Of the Contractor (or any of the employees, subcontractors, or lower tier
40 subcontractors of the Contractor) to faithfully perform and comply with all contract
41 obligations, conditions, and duties, or
 - 42 b. Of the Contractor (or the subcontractors or lower tier subcontractors of the
43 Contractor) to pay all laborers, mechanics, subcontractors, lower tier
44 subcontractors, material person, or any other person who provides supplies or
45 provisions for carrying out the work;
- 46 4. Be conditioned upon the payment of taxes, increases, and penalties incurred on the
47 project under titles 50, 51, and 82 RCW; and
- 48 5. Be accompanied by a power of attorney for the Surety's officer empowered to sign
49 the bond; and

- 1 6. Be signed by an officer of the Contractor empowered to sign official statements (sole
2 proprietor or partner). If the Contractor is a corporation, the bond(s) must be signed
3 by the president or vice president, unless accompanied by written proof of the
4 authority of the individual signing the bond(s) to bind the corporation (i.e., corporate
5 resolution, power of attorney, or a letter to such effect signed by the president or vice
6 president).
7

8 **1-03.7 Judicial Review**

9 *(November 30, 2018 APWA GSP)*

10
11 Revise this section to read:

12
13 Any decision made by the Contracting Agency regarding the Award and execution of the
14 Contract or Bid rejection shall be conclusive subject to the scope of judicial review
15 permitted under Washington Law. Such review, if any, shall be timely filed in the Superior
16 Court of the county where the Contracting Agency headquarters is located, provided that
17 where an action is asserted against a county, RCW 36.01.050 shall control venue and
18 jurisdiction.
19

20 **1-04 SCOPE OF THE WORK**

21
22 **(January 1, 2016 COK GSP)**

23 **1-04.1 Intent of the Contract**

24 Section 1-04.1 is supplemented with the following:

25 All materials, tools, labor, and guarantees thereof of required to complete the work shall
26 be furnished and supplied in accordance with the Plans, these Special Provisions, the
27 Standard Specifications, and City of Kirkland Pre-Approved (Standard) Plans and
28 Policies. The Contractor shall include all costs of doing this work within the contract bid
29 item prices.

30 **(May 30, 2019 APWA GSP)**

31 **1-04.4(1) Minor Changes**

32 Delete the first paragraph and replace it with the following:

33
34 Payments or credits for changes amounting to **\$10,000.00** or less may be made under the
35 Bid item "Minor Change". At the discretion of the Contracting Agency, this procedure for
36 Minor Changes may be used in lieu of the more formal procedure as outlined in Section 1-
37 04.4, Changes. All "Minor Change" work will be within the scope of the Contract Work and
38 will not change Contract Time.

39
40 **1-04.2 Coordination of Contract Documents, Plans, Special Provisions,**
41 **Specifications, and Addenda**

42 *(December 10, 2020 APWA GSP)*

43 Revise the second paragraph to read:

44
45 Any inconsistency in the parts of the contract shall be resolved by following this order of
46 precedence (e.g., 1 presiding over 2, 2 over 3, 3 over 4, and so forth):

- 47 1. Addenda,

- 1 2. Proposal Form,
- 2 3. Special Provisions,
- 3 4. Contract Plans,
- 4 5. Standard Specifications,
- 5 6. Contracting Agency's Standard Plans or Details (if any), and
- 6 7. WSDOT Standard Plans for Road, Bridge, and Municipal Construction.

7

8 **1-04.4 Changes**

9

10 Section 1-04.4 is supplemented with the following:

11

12 (*****)

13 Change Orders will be transmitted electronically to the Contractor for signature. The
14 Contractor shall apply all signatures electronically using the software required by the
15 Contracting Agency. Within 21 days of execution of the Contract, the Contractor shall
16 submit a Type 1 Working Drawing consisting of the names, email addresses, and text-
17 message capable phone numbers for the authorized change order signers and shall
18 bear the name, phone number and email of the officer providing this authorization.
19 Delegation of authority to sign Change Orders shall be by the officer authorized to sign
20 the Contract in accordance with Section 1-02.1.

21

22 **(July 23, 2015 APWA GSP, Option A)**

23 **1-04.6 Variation in Estimated Quantities**

24

25 Revise the first paragraph to read:

26

27 Payment to the Contractor will be made only for the actual quantities of Work performed
28 and accepted in conformance with the Contract. When the accepted quantity of Work
29 performed under a unit item varies from the original Proposal quantity, payment will be at
30 the unit Contract price for all Work unless the total accepted quantity of any Contract item,
31 adjusted to exclude added or deleted amounts included in change orders accepted by both
32 parties, increases or decreases by more than 25 percent from the original Proposal
33 quantity, and if the total extended bid price for that item at time of award is equal to or
34 greater than \$20,000. In that case, payment for contract work may be adjusted as
35 described herein.

36

36 (*****)

37 **1-04.11 Final Cleanup**

38

39 Section 1-04.11 is deleted in its entirety and replaced with the following:

40 The Contractor shall perform final cleanup as provided in this Section. The Engineer will
41 not establish the Physical Completion Date until this is done. All public and private
42 property the Contractor occupied to do the Work, including but not limited to the Street
43 Right of Way, material sites, borrow and waste sites, and construction staging area shall
44 be left neat and presentable. Immediately after completion of the Work, the Contractor
45 shall cleanup and remove all refuse and unused materials of any kind resulting from the
46 Work. Failure to do the final cleanup may result in the final cleanup being done by the
47 Owner and the cost thereof charged to the Contractor and deducted from the
Contractor's final progress estimate.

- 1 The Contractor shall:
- 2 1. Remove all rubbish, surplus materials, discarded materials, falsework, piling,
3 camp buildings, temporary structures, equipment, and debris;
 - 4 2. Remove from the Project, all unneeded, oversized rock left from grading,
5 surfacing, or paving unless the Contract specifies otherwise or the Engineer
6 approves otherwise;
 - 7 3. On all concrete and asphalt pavement work, flush the pavement clean and remove
8 the wash water and debris;
 - 9 4. Sweep and flush structure decks and remove wash water and debris;
 - 10 5. Clean out from all open culverts and drains, inlets, catch basins, manholes and
11 water main valve chambers, within the limits of the Project Site, all dirt and debris
12 of any kind that is the result of the Contractor's operations;
 - 13 6. Level and fine grade all excavated material not used for backfill where the Contract
14 requires;
 - 15 7. Fine grade all slopes;
 - 16 8. Upon completion of grading and cleanup operations at any privately-owned site
17 for which a written agreement between the Contractor and property owner is
18 required, the Contractor shall obtain and furnish to the Engineer a written release
19 from all damages, duly executed by the property owner, stating that the restoration
20 of the property has been satisfactorily accomplished.;
- 21 All costs associated with cleanup shall be incidental to the Work and shall be included
22 in the various Bid items in the Bid, and shall be at no additional cost to the Owner.

23 **(January 27, 2021 COK GSP)**

24 Add new Section 1-04.12.

25

26 **1-04.12 Water, Electrical Power, Telecommunications, and Sanitary Sewer**
27 **Requirements**

28 Except where specifically indicated otherwise in the Contract Documents, the
29 Contractor shall make all necessary arrangements and bear all costs as incidental
30 to the Contract for permits, temporary hook-ups, usage fees, and decommissioning
31 of temporary services for all water, electrical power, telecommunications, and/or
32 sanitary sewer services necessary for performance of the Work.

33 **1-05 Control of Work**

34

35 **(January 27, 2021 COK GSP)**

36 **1-05.1 Authority of the Engineer**

37 Section 1-05.1 is supplemented with the following:

38 When directed by the Engineer for purposes such as (but not limited to) maintaining
39 unrestricted public access and use outside the Work area, maintaining an appropriate
40 construction site appearance, and/or allowing full access to the Work by the Engineer
41 or other City personnel, the Contractor shall cleanup and remove debris, refuse, and
42 discarded materials of any kind resulting from the Work to meet those purposes. These
43 activities shall be incidental to the bid items associated with the Work that generated the
44 debris, refuse, and discarded materials. Failure to do so may result in cleanup done by

1 the Owner and the cost thereof charged to the Contractor by either deducting from the
2 next Progress Payment to the Contractor or direct billing from the City.

3 **1-05.4 Conformity With And Deviations From Plans And Stakes**

4

5 Section 1-05.4 is supplemented with the following:

6

7 **(*****)**

8 ***Contractor Surveying - Roadway***

9 The Contracting Agency has provided primary survey control in the Plans.

10

11 The Contractor shall be responsible for setting, maintaining, and resetting all alignment
12 stakes, slope stakes, and grades necessary for the construction of the roadbed, drainage,
13 surfacing, paving, channelization and pavement marking, illumination and signals,
14 guardrails and barriers, and signing. Except for the survey control data to be furnished
15 by the Contracting Agency, calculations, surveying, and measuring required for setting
16 and maintaining the necessary lines and grades shall be the Contractor's responsibility.

17

18 The Contractor shall inform the Engineer when monuments are discovered that were not
19 identified in the Plans and construction activity may disturb or damage the monuments.
20 All monuments noted on the plans "DO NOT DISTURB" shall be protected throughout the
21 length of the project or be replaced at the Contractors expense.

22

23 Detailed survey records shall be maintained, including a description of the work
24 performed on each shift, the methods utilized, and the control points used. The record
25 shall be adequate to allow the survey to be reproduced. A copy of each day's record shall
26 be provided to the Engineer within three working days after the end of the shift.

27

28 The meaning of words and terms used in this provision shall be as listed in "Definitions of
29 Surveying and Associated Terms" current edition, published by the American Congress
30 on Surveying and Mapping and the American Society of Civil Engineers.

31

32 The survey work shall include but not be limited to the following:

33

34 1. Verify the primary horizontal and vertical control furnished by the Contracting
35 Agency, and expand into secondary control by adding stakes and hubs as well
36 as additional survey control needed for the project. Provide descriptions of
37 secondary control to the Contracting Agency. The description shall include
38 coordinates and elevations of all secondary control points.

39

40 2. Establish, the centerlines of all alignments, by placing hubs, stakes, or marks on
41 centerline or on offsets to centerline at all curve points (PCs, PTs, and PIs) and
42 at points on the alignments spaced no further than 50 feet.

43

44 3. **Establish existing road right-of-way by placing hubs or stakes along the**
45 **right-of-way at all curve points (PCs, and PTs) and at points along the**
46 **right-of-way spaced no further than 50' apart.**

47

48 4. Establish clearing limits, placing stakes at all angle points and at intermediate
49 points not more than 50 feet apart. The clearing and grubbing limits shall be 5

- 1 feet beyond the toe of a fill and 10 feet beyond the top of a cut unless otherwise
2 shown in the Plans.
3
- 4 5. Establish grading limits, placing slope stakes at centerline increments not more
5 than 50 feet apart. Establish offset reference to all slope stakes. If Global
6 Positioning Satellite (GPS) Machine Controls are used to provide grade control,
7 then slope stakes may be omitted at the discretion of the Contractor
8
- 9 6. Establish the horizontal and vertical location of all drainage features, placing
10 offset stakes to all drainage structures and to pipes at a horizontal interval not
11 greater than 25 feet.
12
- 13 7. Establish roadbed and surfacing elevations by placing stakes at the top of
14 subgrade and at the top of each course of surfacing. Subgrade and surfacing
15 stakes shall be set at horizontal intervals not greater than 50 feet in tangent
16 sections, 25 feet in curve sections with a radius less than 300 feet, and at 10-
17 foot intervals in intersection radii with a radius less than 10 feet. Transversely,
18 stakes shall be placed at all locations where the roadway slope changes and at
19 additional points such that the transverse spacing of stakes is not more than 12
20 feet. If GPS Machine Controls are used to provide grade control, then roadbed
21 and surfacing stakes may be omitted at the discretion of the Contractor.
22
- 23 8. Establish intermediate elevation benchmarks as needed to check work
24 throughout the project.
25
- 26 9. Provide references for paving pins at 25-foot intervals or provide simultaneous
27 surveying to establish location and elevation of paving pins as they are being
28 placed.
29
- 30 10. For all other types of construction included in this provision, (including but not
31 limited to channelization and pavement marking, illumination and signals,
32 guardrails and barriers, and signing) provide staking and layout as necessary to
33 adequately locate, construct, and check the specific construction activity.
34
- 35 11. Contractor shall determine if changes are needed to the profiles or roadway
36 sections shown in the Contract Plans in order to achieve proper smoothness
37 and drainage where matching into existing features, such as a smooth transition
38 from new pavement to existing pavement. The Contractor shall submit these
39 changes to the Engineer for review and approval 10 days prior to the beginning
40 of work.
41
- 42 The Contractor shall provide the Contracting Agency copies of any calculations and
43 staking data when requested by the Engineer.
44
- 45 The Contractor shall ensure a surveying accuracy within the following tolerances:
46

1		<u>Vertical</u>	<u>Horizontal</u>
2	Slope stakes	±0.10 feet	±0.10 feet
3	Subgrade grade stakes set		
4	0.04 feet below grade	±0.01 feet	±0.5 feet
5			(parallel to alignment)
6			±0.1 feet
7			(normal to alignment)
8			
9	Stationing on roadway	N/A	±0.1 feet
10	Alignment on roadway	N/A	±0.04 feet
11	Alignment on right-of-way	N/A	±0.04 feet
12	Surfacing grade stakes	±0.01 feet	±0.5 feet
13			(parallel to alignment)
14			±0.1 feet
15			(normal to alignment)
16			
17	Roadway paving pins for		
18	surfacing or paving	±0.01 feet	±0.2 feet
19			(parallel to alignment)
20			±0.1 feet
21			(normal to alignment)

22
23 The Contracting Agency may spot-check the Contractor's surveying. These spot-checks
24 will not change the requirements for normal checking by the Contractor.

25
26 When staking roadway alignment and stationing, the Contractor shall perform
27 independent checks from different secondary control to ensure that the points staked are
28 within the specified survey accuracy tolerances.

29
30 The Contractor shall calculate coordinates for the alignment. The Contracting Agency will
31 verify these coordinates prior to issuing approval to the Contractor for commencing with
32 the work. The Contracting Agency will require up to seven calendar days from the date
33 the data is received.

34
35 Contract work to be performed using contractor-provided stakes shall not begin until the
36 stakes are approved by the Contracting Agency. Such approval shall not relieve the
37 Contractor of responsibility for the accuracy of the stakes.

38
39 Stakes shall be marked in accordance with Standard Plan A10.10. When stakes are
40 needed that are not described in the Plans, then those stakes shall be marked, at no
41 additional cost to the Contracting Agency as ordered by the Engineer.

42 **Payment**

43
44 Payment will be made for the following bid item when included in the proposal:

45
46 "Roadway Surveying", lump sum.

47
48 The lump sum contract price for "Roadway Surveying" shall be full pay for all labor,
49 equipment, materials, and supervision utilized to perform the Work specified, including
50 any resurveying, checking, correction of errors, replacement of missing or damaged
51 stakes, and coordination efforts.

1
2
3 **(April 2, 2018)**

4 **Contractor Surveying – ADA Features**

5 **ADA Feature Staking Requirements**

6 The Contractor shall be responsible for setting, maintaining, and resetting all
7 alignment stakes, and grades necessary for the construction of the ADA features.
8 Calculations, surveying, and measuring required for setting and maintaining the
9 necessary lines and grades shall be the Contractor's responsibility. The Contractor
10 shall build the ADA features within the specifications in the Standard Plans and
11 contract documents.
12

13 **ADA Feature As-Built Measurements**

14 The Contractor shall be responsible for providing electronic As-Built records of all
15 ADA feature improvements completed in the Contract.
16

17 The survey work shall include but not be limited to completing the measurements,
18 recording the required measurements and completing other data fill-ins found on the
19 ADA Measurement Forms, and transmitting the electronic Forms to the Engineer.
20 The ADA Measurement Forms are found at the following website location:
21

22 <http://www.wsdot.wa.gov/Design/ADAGuidance.htm>
23

24 In the instance where an ADA Feature does not meet accessibility requirements, all
25 work to replace non-conforming work and then to measure, record the as-built
26 measurements, and transmit the electronic Forms to the Engineer shall be completed
27 at no additional cost to the Contracting Agency, as ordered by the Engineer.
28

29 **Payment**

30 Payment will be made for the following bid item that is included in the Proposal:
31

32 "ADA Features Surveying", lump sum.
33

34 The unit Contract price per lump sum for "ADA Features Surveying" shall be full pay for
35 all the Work as specified.
36

37 **1-05.7 Removal of Defective and Unauthorized Work**

38 *(October 1, 2005 APWA GSP)*
39

40 Supplement this section with the following:
41

42 If the Contractor fails to remedy defective or unauthorized work within the time specified
43 in a written notice from the Engineer, or fails to perform any part of the work required by
44 the Contract Documents, the Engineer may correct and remedy such work as may be
45 identified in the written notice, with Contracting Agency forces or by such other means as
46 the Contracting Agency may deem necessary.
47

48 If the Contractor fails to comply with a written order to remedy what the Engineer
49 determines to be an emergency situation, the Engineer may have the defective and
50 unauthorized work corrected immediately, have the rejected work removed and replaced,
51 or have work the Contractor refuses to perform completed by using Contracting Agency

1 or other forces. An emergency situation is any situation when, in the opinion of the
2 Engineer, a delay in its remedy could be potentially unsafe, or might cause serious risk
3 of loss or damage to the public.
4
5 Direct or indirect costs incurred by the Contracting Agency attributable to correcting and
6 remedying defective or unauthorized work, or work the Contractor failed or refused to
7 perform, shall be paid by the Contractor. Payment will be deducted by the Engineer from
8 monies due, or to become due, the Contractor. Such direct and indirect costs shall
9 include in particular, but without limitation, compensation for additional professional
10 services required, and costs for repair and replacement of work of others destroyed or
11 damaged by correction, removal, or replacement of the Contractor's unauthorized work.
12
13 No adjustment in contract time or compensation will be allowed because of the delay in
14 the performance of the work attributable to the exercise of the Contracting Agency's
15 rights provided by this Section.
16
17 The rights exercised under the provisions of this section shall not diminish the
18 Contracting Agency's right to pursue any other avenue for additional remedy or damages
19 with respect to the Contractor's failure to perform the work as required.
20
21 **(January 1, 2020 COK GSP)**
22 **1-05.9 Equipment**
23 The following new paragraph is inserted between the second and third paragraphs:
24 Use of equipment with metal tracks will not be permitted on concrete or asphalt
25 surfaces unless otherwise authorized by the Engineer.
26
27 **(January 1, 2020 COK GSP)**
28 **1-05.10 Guarantees**
29 Section 1-05.10 is supplemented as follows:
30 Guarantees and maintenance bonds shall be in accordance with City of Kirkland, State of
31 Washington, Public Works Performance and Payment Bond forms and requirements. The
32 performance bond shall be in the full amount of contract. The Contractor guarantees all items
33 of material, equipment, and workmanship against mechanical, structural, or other defects for
34 which the Contractor is responsible that may develop or become evident within a period of
35 one year from and after acceptance of the work by the Owner. This guarantee shall be
36 understood to require prompt remedy of defects upon written notification to the Contractor. If
37 the Owner determines the defect requires immediate repair, the Owner may, without further
38 notice to the Contractor, make the necessary corrections, the cost of which shall be borne by
39 the Contractor. To support the above guarantee, the Contractor's performance bond shall
40 remain in full force and effect for one year following the acceptance of the project by the Owner.
41
42 **1-05.11 Final Inspection**
43
44 Delete this section and replace it with the following:
45
46 **1-05.11 Final Inspections and Operational Testing**
47 *(October 1, 2005 APWA GSP)*
48

1 **1-05.11(1) Substantial Completion Date**

2
3 When the Contractor considers the work to be substantially complete, the Contractor
4 shall so notify the Engineer and request the Engineer establish the Substantial
5 Completion Date. The Contractor's request shall list the specific items of work that
6 remain to be completed in order to reach physical completion. The Engineer will
7 schedule an inspection of the work with the Contractor to determine the status of
8 completion. The Engineer may also establish the Substantial Completion Date
9 unilaterally.

10
11 If, after this inspection, the Engineer concurs with the Contractor that the work is
12 substantially complete and ready for its intended use, the Engineer, by written notice to
13 the Contractor, will set the Substantial Completion Date. If, after this inspection the
14 Engineer does not consider the work substantially complete and ready for its intended
15 use, the Engineer will, by written notice, so notify the Contractor giving the reasons
16 therefor.

17
18 Upon receipt of written notice concurring in or denying substantial completion, whichever
19 is applicable, the Contractor shall pursue vigorously, diligently and without unauthorized
20 interruption, the work necessary to reach Substantial and Physical Completion. The
21 Contractor shall provide the Engineer with a revised schedule indicating when the
22 Contractor expects to reach substantial and physical completion of the work.

23
24 The above process shall be repeated until the Engineer establishes the Substantial
25 Completion Date and the Contractor considers the work physically complete and ready for
26 final inspection.

27
28 **1-05.11(2) Final Inspection and Physical Completion Date**

29
30 When the Contractor considers the work physically complete and ready for final
31 inspection, the Contractor by written notice, shall request the Engineer to schedule a
32 final inspection. The Engineer will set a date for final inspection. The Engineer and the
33 Contractor will then make a final inspection and the Engineer will notify the Contractor in
34 writing of all particulars in which the final inspection reveals the work incomplete or
35 unacceptable. The Contractor shall immediately take such corrective measures as are
36 necessary to remedy the listed deficiencies. Corrective work shall be pursued vigorously,
37 diligently, and without interruption until physical completion of the listed deficiencies. This
38 process will continue until the Engineer is satisfied the listed deficiencies have been
39 corrected.

40
41 If action to correct the listed deficiencies is not initiated within 7 days after receipt of the
42 written notice listing the deficiencies, the Engineer may, upon written notice to the
43 Contractor, take whatever steps are necessary to correct those deficiencies pursuant to
44 Section 1-05.7.

45 The Contractor will not be allowed an extension of contract time because of a delay in
46 the performance of the work attributable to the exercise of the Engineer's right
47 hereunder.

48
49 Upon correction of all deficiencies, the Engineer will notify the Contractor and the
50 Contracting Agency, in writing, of the date upon which the work was considered physically
51 complete. That date shall constitute the Physical Completion Date of the contract, but shall

not imply acceptance of the work or that all the obligations of the Contractor under the contract have been fulfilled.

1-05.11(3) Operational Testing

It is the intent of the Contracting Agency to have at the Physical Completion Date a complete and operable system. Therefore when the work involves the installation of machinery or other mechanical equipment; street lighting, electrical distribution or signal systems; irrigation systems; buildings; or other similar work it may be desirable for the Engineer to have the Contractor operate and test the work for a period of time after final inspection but prior to the physical completion date. Whenever items of work are listed in the Contract Provisions for operational testing they shall be fully tested under operating conditions for the time period specified to ensure their acceptability prior to the Physical Completion Date. During and following the test period, the Contractor shall correct any items of workmanship, materials, or equipment which prove faulty, or that are not in first class operating condition. Equipment, electrical controls, meters, or other devices and equipment to be tested during this period shall be tested under the observation of the Engineer, so that the Engineer may determine their suitability for the purpose for which they were installed. The Physical Completion Date cannot be established until testing and corrections have been completed to the satisfaction of the Engineer.

The costs for power, gas, labor, material, supplies, and everything else needed to successfully complete operational testing, shall be included in the unit contract prices related to the system being tested, unless specifically set forth otherwise in the proposal.

Operational and test periods, when required by the Engineer, shall not affect a manufacturer's guaranties or warranties furnished under the terms of the contract.

1-05.13 Superintendents, Labor and Equipment of Contractor *(August 14, 2013 APWA GSP)*

Delete the sixth and seventh paragraphs of this section.

1-05.14 Cooperation With Other Contractors

Section 1-05.14 is supplemented with the following:

(March 13, 1995)

Other Contracts Or Other Work

It is anticipated that the following work adjacent to or within the limits of this project will be performed by others during the course of this project and will require coordination of the work:

Ziply – Relocation of utility poles along north side of Ne 132nd St with project limits. As well as east and west of projects limits.

1 **1-05.15 Method of Serving Notices**

2 *(March 25, 2009 APWA GSP)*

3 Revise the second paragraph to read:

4
5 All correspondence from the Contractor shall be directed to the Project Engineer. All
6 correspondence from the Contractor constituting any notification, notice of protest, notice
7 of dispute, or other correspondence constituting notification required to be furnished
8 under the Contract, must be in paper format, hand delivered or sent via mail delivery
9 service to the Project Engineer's office. Electronic copies such as e-mails or
10 electronically delivered copies of correspondence will not constitute such notice and will
11 not comply with the requirements of the Contract.

12
13 Add the following new section:

14
15 **1-05.16 Water and Power**

16 *(October 1, 2005 APWA GSP)*

17
18 The Contractor shall make necessary arrangements, and shall bear the costs for power
19 and water necessary for the performance of the work, unless the contract includes power
20 and water as a pay item.

21
22 Add the following new section:

23
24 **1-05.18 Record Drawings**

25 *(March 8, 2013 APWA GSP)*

26 The Contractor shall maintain one set of full size plans for Record Drawings, updated
27 with clear and accurate red-lined field revisions on a daily basis, and within 2 business
28 days after receipt of information that a change in Work has occurred. The Contractor
29 shall not conceal any work until the required information is recorded.

30
31 This Record Drawing set shall be used for this purpose alone, shall be kept separate
32 from other Plan sheets, and shall be clearly marked as Record Drawings. These Record
33 Drawings shall be kept on site at the Contractor's field office, and shall be available for
34 review by the Contracting Agency at all times. The Contractor shall bring the Record
35 Drawings to each progress meeting for review.

36
37 The preparation and upkeep of the Record Drawings is to be the assigned responsibility
38 of a single, experienced, and qualified individual. The quality of the Record Drawings, in
39 terms of accuracy, clarity, and completeness, is to be adequate to allow the Contracting
40 Agency to modify the computer-aided drafting (CAD) Contract Drawings to produce a
41 complete set of Record Drawings for the Contracting Agency without further investigative
42 effort by the Contracting Agency.

43
44 The Record Drawing markups shall document all changes in the Work, both concealed
45 and visible. Items that must be shown on the markups include but are not limited to:

- 46
47
 - Actual dimensions, arrangement, and materials used when different than shown in
 - 48 the Plans.
 - 49 • Changes made by Change Order or Field Order.
 - 50 • Changes made by the Contractor.

- 1 • Accurate locations of storm sewer, sanitary sewer, water mains and other water
2 appurtenances, structures, conduits, light standards, vaults, width of roadways,
3 sidewalks, landscaping areas, building footprints, channelization and pavement
4 markings, etc. Include pipe invert elevations, top of castings (manholes, inlets,
5 etc.).
6
7 If the Contract calls for the Contracting Agency to do all surveying and staking, the
8 Contracting Agency will provide the elevations at the tolerances the Contracting Agency
9 requires for the Record Drawings.
10
11 When the Contract calls for the Contractor to do the surveying/staking, the applicable
12 tolerance limits include, but are not limited to the following:

	Vertical	Horizontal
As-built sanitary & storm invert and grate elevations	± 0.01 foot	± 0.01 foot
As-built monumentation	± 0.001 foot	± 0.001 foot
As-built waterlines, inverts, valves, hydrants	± 0.10 foot	± 0.10 foot
As-built ponds/swales/water features	± 0.10 foot	± 0.10 foot
As-built buildings (fin. Floor elev.)	± 0.01 foot	± 0.10 foot
As-built gas lines, power, TV, Tel, Com	± 0.10 foot	± 0.10 foot
As-built signs, signals, etc.	N/A	± 0.10 foot

13
14 Making Entries on the Record Drawings:

- 15
- 16 • Use erasable colored pencil (not ink) for all markings on the Record Drawings,
17 conforming to the following color code:
 - 18 • Additions - Red
 - 19 • Deletions - Green
 - 20 • Comments - Blue
 - 21 • Dimensions- Graphite
 - 22 • Provide the applicable reference for all entries, such as the change order number,
23 the request for information (RFI) number, or the approved shop drawing number.
 - 24 • Date all entries.
 - 25 • Clearly identify all items in the entry with notes similar to those in the Contract
26 Drawings (such as pipe symbols, centerline elevations, materials, pipe joint
27 abbreviations, etc.).

28
29 The Contractor shall certify on the Record Drawings that said drawings are an accurate
30 depiction of built conditions, and in conformance with the requirements detailed above.
31 The Contractor shall submit final Record Drawings to the Contracting Agency.
32 Contracting Agency acceptance of the Record Drawings is one of the requirements for
33 achieving Physical Completion.

34
35 Payment will be made for the following bid item:
36

Record Drawings (Minimum Bid \$500)	Lump Sum
--	----------

- 1
2 Payment for this item will be made on a prorated monthly basis for work completed in
3 accordance with this section up to 75% of the lump sum bid. The final 25% of the lump
4 sum item will be paid upon submittal and approval of the completed Record Drawings set
5 prepared in conformance with these Special Provisions.
6
7 A minimum bid amount has been entered in the Bid Proposal for this item. The
8 Contractor must bid at least that amount.
9
10 Add the following new section:
11
12 **(*****)**
13 **1-05.19 Daily Construction Report**
14 The Contractor and Subcontractors shall maintain daily, a Daily Construction Report of
15 the Work. The Diary must be kept and maintained by Contractor's designated project
16 superintendent(s). Entries must be made on a daily basis and must accurately represent
17 all of the project activities on each day. Contractor shall provide signed copies of diary
18 sheets from the previous week to Engineer at each Weekly Coordination Meeting.
19 Every single diary sheet/page must have:
20 • Project name & number;
21 • Consecutive numbering of pages, and
22 • Typed or printed name, signature, and date of the person making the entry.
23
24 At a minimum the diary shall, for each day, have a separate entry detailing each of the
25 following:
26 1. Day and date.
27 2. Weather conditions, including changes throughout the day.
28 3. Complete description of work accomplished during the day, with adequate references
29 to the Plans and Contract Provisions so the reader can easily and accurately identify
30 said work on the Plans. Identify location/description of photographs or videos taken that
31 day.
32 4. Each and every changed condition, dispute or potential dispute, incident, accident, or
33 occurrence of any nature whatsoever which might affect Contractor, Contracting
34 Agency, or any third party in any manner. This shall be provided on a separate page for
35 other information.
36 5. List all materials received and stored on- or off-site by Contractor that day for future
37 installation, including the manner of storage and protection of the same.
38 6. List materials installed that day.
39 7. List all Subcontractors working on-site that day.
40 8. List the number of Contractor's employees working during each day, by category of
41 employment.

- 1 9. List Contractor's equipment on the site that day; showing which were in use, and
2 which idle.
- 3 10. Notations to explain inspections, testing, stake-out, and all other services
4 furnished by Contracting Agency or other party during the day.
- 5 11. Verify the daily (including non-work days) inspection and maintenance of
6 traffic control devices and condition of the traveled roadway surfaces.
- 7 12. Any other information that serves to give an accurate and complete record of
8 the nature, quantity, and quality of Contractor's progress on each day.
- 9 13. Add; Officials and visitors onsite
- 10 14. Change Orders
- 11 15. Occurrence of testing, staking or special inspections
- 12 It is expressly agreed between Contractor and Contracting Agency that the Daily Diary
13 maintained by Contractor shall be the "Contractor's Book of Original Entry" for the
14 documentation of any potential claims or disputes that might arise during this Contract.
15 Failure of Contractor to maintain this Diary in the manner described above will constitute
16 a waiver of any such claims or disputes by Contractor.
- 17 Preparation of the Daily Diary by the contractor shall be incidental to the unit prices for
18 applicable bid items. No separate payment shall be made for preparation and maintaining
19 the Daily Diary.
- 20 Engineer or the Engineer's representative on the job site will also complete a Daily
21 Construction Report.

22 **1-06 CONTROL OF MATERIALS**

23

24 **(January 1, 2016 COK GSP)**

25 **1-06.1 Approval of Materials Prior to Use**

26 Section 1-06.1 is supplemented as follows:

27 Approval of a Material source shall not mean acceptance of the Material. The Material
28 shall meet the requirements of the Contract.

29 **1-06.6 Recycled Materials**

30 *(January 4, 2016 APWA GSP)*

31

32 Delete this section, including its subsections, and replace it with the following:

33

34 The Contractor shall make their best effort to utilize recycled materials in the construction
35 of the project. Approval of such material use shall be as detailed elsewhere in the
36 Standard Specifications.

37

38 Prior to Physical Completion the Contractor shall report the quantity of recycled materials
39 that were utilized in the construction of the project for each of the items listed in Section
40 9-03.21. The report shall include hot mix asphalt, recycled concrete aggregate, recycled
41 glass, steel furnace slag and other recycled materials (e.g. utilization of on-site material
42 and aggregates from concrete returned to the supplier). The Contractor's report shall be
43 provided on DOT form 350-075 Recycled Materials Reporting.

1
2 **1-07 Legal Relations and Responsibilities to the Public**
3

4 **1-07.1 Laws to be Observed**

5 Section 1-07.1 is supplemented with the following:
6

7 **(January 1, 2016 COK GSP)**

8 The Contractor shall at all times eliminate noise to the maximum practicable extent. Air
9 compressing plants shall be equipped with silencers, and the exhaust of all gasoline
10 motors or other power equipment shall be provided with mufflers. Special care shall be
11 used to avoid noise or other nuisances, and the Contractor shall strictly observe all
12 federal, state, and local regulations concerning noise.

13 The Contractor shall make an effort to reduce carbon emissions by turning off engines
14 on construction equipment not in active use, and on trucks that are idling while waiting
15 to load or unload material for five minutes or more.

16 **Compliance with Laws**

17 The Contractor shall comply with the requirements of all other City ordinances, state
18 statutes, laws, and regulations, whether or not stated herein, which are specifically
19 applicable to the public improvements and work to be performed.

20 The Contractor shall be subject to City of Kirkland Code enforcement, as required by
21 Kirkland Municipal Code (KMC) Chapter 1.12. The Contractor shall fully comply with
22 and satisfy all fines and costs assessed by code enforcement(s) prior to the Completion
23 Date, unless otherwise authorized by the City of Kirkland in writing.

24 **(October 1, 2005 APWA GSP)**
25

26 In cases of conflict between different safety regulations, the more stringent regulation
27 shall apply.
28

29 The Washington State Department of Labor and Industries shall be the sole and
30 paramount administrative agency responsible for the administration of the provisions of
31 the Washington Industrial Safety and Health Act of 1973 (WISHA).
32

33 The Contractor shall maintain at the project site office, or other well known place at the
34 project site, all articles necessary for providing first aid to the injured. The Contractor
35 shall establish, publish, and make known to all employees, procedures for ensuring
36 immediate removal to a hospital, or doctor's care, persons, including employees, who
37 may have been injured on the project site. Employees should not be permitted to work
38 on the project site before the Contractor has established and made known procedures
39 for removal of injured persons to a hospital or a doctor's care.
40

41 The Contractor shall have sole responsibility for the safety, efficiency, and adequacy of
42 the Contractor's plant, appliances, and methods, and for any damage or injury resulting
43 from their failure, or improper maintenance, use, or operation. The Contractor shall be
44 solely and completely responsible for the conditions of the project site, including safety
45 for all persons and property in the performance of the work. This requirement shall apply
46 continuously, and not be limited to normal working hours. The required or implied duty of

1 the Engineer to conduct construction review of the Contractor's performance does not,
2 and shall not, be intended to include review and adequacy of the Contractor's safety
3 measures in, on, or near the project site.
4

5 **(January 1, 2016 COK GSP)**

6 Supplement this section with the following:

7 **Contractor's Safety Responsibilities**

8 These construction documents and the joint and several phases of construction hereby
9 contemplated are to be governed at all times by applicable provisions of the federal
10 law(s), including but not limited to the latest amendments of the following:

11 Williams-Steiger Occupational Safety and Health Act of 1980, Public Law 91-596.

12 Part 1910 - Occupational Safety and Health Standards, Chapter XVII of Title 29, Code
13 of Federal Regulations.

14 This project, the Contractor and its subcontractors, shall, at all times, be governed by
15 Chapter XIII of Title 29, Code of Federal Regulations, Part 1518 - Safety and Health
16 Regulations for Construction (35 CFR 75), as amended to date.

17 To implement the program, and to provide safe and healthful working conditions for all
18 persons, the construction superintendent or his/her designated safety officer shall
19 conduct general project safety meetings at the site at least once each month during the
20 course of construction.

21 The Contractor and all subcontractors shall immediately report all accidents, injuries,
22 and health hazards to the Owner, in writing. This shall not obviate any mandatory
23 reporting under the provisions of the Occupational Safety and Health Act of 1970. This
24 program shall become a part of the contract documents and the contract between the
25 Owner and the Contractor, and all subcontractors, as though fully written therein.

26 Where the location of the work is in proximity to overhead wires and power lines, the
27 Contractor shall coordinate all work with the utility and shall provide for such measures
28 as may be necessary for the protection of the workers.

29 **(May 13, 2020 COK GSP)**

30 Supplement this section with the following:

31
32 In response to the COVID-19 pandemic and the workplace requirements implemented
33 by the State of Washington for construction projects during the pandemic, the Contractor
34 shall prepare a project-specific COVID-19 health and safety plan (CHSP) in
35 conformance with Section 1-07.4(2) as amended by this Contract's Special Provisions.

36 **1-07.2 State Taxes**

37

38 Delete this section, including its sub-sections, in its entirety and replace it with the following:

39

40 **1-07.2 State Sales Tax**

41 *(June 27, 2011 APWA GSP)*

42

1 The Washington State Department of Revenue has issued special rules on the State
2 sales tax. Sections 1-07.2(1) through 1-07.2(3) are meant to clarify those rules. The
3 Contractor should contact the Washington State Department of Revenue for answers to
4 questions in this area. The Contracting Agency will not adjust its payment if the
5 Contractor bases a bid on a misunderstood tax liability.
6

7 The Contractor shall include all Contractor-paid taxes in the unit bid prices or other
8 contract amounts. In some cases, however, state retail sales tax will not be included.
9 Section 1-07.2(2) describes this exception.
10

11 The Contracting Agency will pay the retained percentage (or release the Contract Bond if
12 a FHWA-funded Project) only if the Contractor has obtained from the Washington State
13 Department of Revenue a certificate showing that all contract-related taxes have been
14 paid (RCW 60.28.051). The Contracting Agency may deduct from its payments to the
15 Contractor any amount the Contractor may owe the Washington State Department of
16 Revenue, whether the amount owed relates to this contract or not. Any amount so
17 deducted will be paid into the proper State fund.
18

19 **1-07.2(1) State Sales Tax — Rule 171**

20

21 WAC 458-20-171, and its related rules, apply to building, repairing, or improving streets,
22 roads, etc., which are owned by a municipal corporation, or political subdivision of the
23 state, or by the United States, and which are used primarily for foot or vehicular traffic.
24 This includes storm or combined sewer systems within and included as a part of the
25 street or road drainage system and power lines when such are part of the roadway
26 lighting system. For work performed in such cases, the Contractor shall include
27 Washington State Retail Sales Taxes in the various unit bid item prices, or other contract
28 amounts, including those that the Contractor pays on the purchase of the materials,
29 equipment, or supplies used or consumed in doing the work.
30

31 **1-07.2(2) State Sales Tax — Rule 170**

32

33 WAC 458-20-170, and its related rules, apply to the constructing and repairing of new or
34 existing buildings, or other structures, upon real property. This includes, but is not
35 limited to, the construction of streets, roads, highways, etc., owned by the state of
36 Washington; water mains and their appurtenances; sanitary sewers and sewage
37 disposal systems unless such sewers and disposal systems are within, and a part of, a
38 street or road drainage system; telephone, telegraph, electrical power distribution lines,
39 or other conduits or lines in or above streets or roads, unless such power lines become a
40 part of a street or road lighting system; and installing or attaching of any article of
41 tangible personal property in or to real property, whether or not such personal property
42 becomes a part of the realty by virtue of installation.
43

44 For work performed in such cases, the Contractor shall collect from the Contracting
45 Agency, retail sales tax on the full contract price. The Contracting Agency will
46 automatically add this sales tax to each payment to the Contractor. For this reason, the
47 Contractor shall not include the retail sales tax in the unit bid item prices, or in any other
48 contract amount subject to Rule 170, with the following exception.
49

50 Exception: The Contracting Agency will not add in sales tax for a payment the Contractor
51 or a subcontractor makes on the purchase or rental of tools, machinery, equipment, or

1 consumable supplies not integrated into the project. Such sales taxes shall be included
2 in the unit bid item prices or in any other contract amount.
3
4 **1-07.2(3) Services**
5
6 The Contractor shall not collect retail sales tax from the Contracting Agency on any
7 contract wholly for professional or other services (as defined in Washington State
8 Department of Revenue Rules 138 and 244).
9
10 **1-07.4 Sanitation**
11
12 **(February 2, 2021 COK GSP)**
13 **1-07.4(2) Health Hazards**
14
15 Supplement this section with the following:
16
17 **COVID-19 Health and Safety Plan (CHSP)**
18 Supplement this section with the following:
19
20 The Contractor shall prepare a project specific COVID-19 health and safety plan
21 (CHSP). The CHSP shall be prepared and submitted as a Type 2 Working Drawing
22 prior to beginning physical Work. The CHSP shall be based on the most current
23 State and Federal requirements. If the State or Federal requirements are revised,
24 the CHSP shall be updated as necessary to conform to the current requirements.
25
26 The Contractor shall update and resubmit the CHSP as the work progresses and
27 new activities appear on the look ahead schedule required under Section 1-08.3(2)D.
28 If the conditions change on the project, or a particular activity, the Contractor shall
29 update and resubmit the CHSP. Work on any activity shall cease if conditions prevent
30 full compliance with the CHSP.
31
32 The CHSP shall address the health and safety of all people associated with the
33 project including State workers in the field, Contractor personnel, consultants, project
34 staff, subcontractors, suppliers and anyone on the project site, staging areas, or
35 yards.
36
37 All labor, materials, and equipment needed to prepare and implement the CHSP shall
38 be incidental to other bid items and shall not be the basis for additional compensation
39 to the Contractor. This includes but, is not limited to, a site supervisor to implement
40 the plan, worker daily temperature checks and other required monitoring and
41 documentation, means and methods to achieve safe distancing between workers,
42 labor adjustments in response to workers unable to work on-site, providing masks
43 and handwashing stations, etc.
44
45 **1-07.6 Permits and Licenses**
46
47 **(January 1, 2021 COK GSP)**
48 **1-07.6(2) Permits for Off-site Staging and Storage Areas**
49 Add new Section 1-07.6(2)

The Contracting Agency has not obtained any City of Kirkland Temporary Use Permits for temporary use(s) of off-site areas or properties in the City of Kirkland for the purposes of staging, materials storage, and/or any other Contractor-desired temporary uses during the Work. A City of Kirkland Temporary Use Permit must be obtained by the Contractor for temporary use for the Work of any off-site areas or properties not located in a City of Kirkland right-of-way (ROW). This requirement is in addition to any permissions and/or agreements reached between the Contractor and the property owner(s) as required in Section 1-07.24.

"Off-site" will be taken to mean any area not designated as part of the Work in the Plans or other Contract Documents.

A City of Kirkland Temporary Use Permit is not required for additional use of areas located in a City of Kirkland right-of-way (ROW) and not indicated in the Plans or other Contract Documents. However, the Contractor shall not occupy additional City of Kirkland ROW not shown as part of the Work without advance written approval by the Engineer. Contractor shall photograph and/or video document the existing conditions of ROW used. Any damage or degradation of the existing conditions in these areas shall be repaired and/or replaced by the Contractor at no additional cost to the City of Kirkland.

Contractor shall apply for a City of Kirkland Temporary Use Permit from the City of Kirkland Planning and Building Department through <http://mybuildingpermit.com>. Contractor shall also notify the Engineer when the Temporary Use Permit application has been submitted.

Unless otherwise indicated in the Contract Documents or by the Engineer in writing, no claims for equitable adjustment of Contract Time will be allowed requesting additional time required for the Contractor to obtain a City of Kirkland Temporary Use Permit for temporary use of any off-site area or property not designated as part of the Work area in the Plans.

1-07.7 Load Limits

Section 1-07.7 is supplemented with the following:

(March 13, 1995)

If the sources of materials provided by the Contractor necessitates hauling over roads other than State Highways, the Contractor shall, at the Contractor's expense, make all arrangements for the use of the haul routes.

(October 1, 2020 APWA GSP, Option A)

1-07.11 Requirements for Nondiscrimination

Supplement this section with the following:

Disadvantaged Business Enterprise Participation

The Disadvantaged Business Enterprise (DBE) requirements of 49 CFR Part 26 and USDOT's official interpretations (i.e., Questions & Answers) apply to this Contract. As such, the requirements of this Contract are to make affirmative efforts to solicit DBEs, provide information on who submitted a Bid or quote and to report DBE participation monthly as described elsewhere in these Contract Provisions. No preference will be

1 included in the evaluation of Bids/Proposals, no minimum level of DBE participation shall
2 be required as a Condition of Award and Bids/Proposals may not be rejected or
3 considered non-responsive on that basis.
4

5 **DBE Abbreviations and Definitions**

6 **Broker** – A business firm that provides a bona fide service, such as professional,
7 technical, consultant or managerial services and assistance in the procurement
8 of essential personnel, facilities, equipment, materials, or supplies required for
9 the performance of the Contract, or, persons/companies who arrange or
10 expedite transactions.
11

12 **Certified Business Description** – Specific descriptions of work the DBE is
13 certified to perform, as identified in the Certified Firm Directory, under the Vendor
14 Information page.
15

16 **Certified Firm Directory** – A database of all Minority, Women, and
17 Disadvantaged Business Enterprises. The on-line Directory is available to
18 Contractors for their use in identifying and soliciting interest from DBE firms. The
19 database is located under the Firm Certification section of the Diversity
20 Management and Compliance System web page at:
21 <https://omwbe.diversitycompliance.com>.
22

23 **Commercially Useful Function (CUF)**

24 49 CFR 26.55(c)(1) defines commercially useful function as: “A DBE performs a
25 commercially useful function when it is responsible for execution of the work of
26 the contract and is carrying out its responsibilities by actually performing,
27 managing, and supervising the work involved. To perform a commercially useful
28 function, the DBE must also be responsible, with respect to materials and
29 supplies used on the contract, for negotiating price, determining quality and
30 quantity, ordering the material, and installing (where applicable) and paying for
31 the material itself. To determine whether a DBE is performing a commercially
32 useful function, you must evaluate the amount of work subcontracted, industry
33 practices, whether the amount the firm is to be paid under the contract is
34 commensurate with the work it is actually performing and the DBE credit claimed
35 for its performance of the work, and other relevant factors.”
36

37 **Contract** – For this Special Provision only, this definition supplements Section
38 1-01.3. 49 CFR 26.5 defines contract as: “... a legally binding relationship
39 obligating a seller to furnish supplies or services (including, but not limited to,
40 construction and professional services) and the buyer to pay for them. For
41 purposes of this part, a lease is considered to be a contract.”
42

43 **Disadvantaged Business Enterprise (DBE)** – A business firm certified by the
44 Washington State Office of Minority and Women’s Business Enterprises, as
45 meeting the criteria outlined in 49 CFR 26 regarding DBE certification.
46

47 **Force Account Work** – Work measured and paid in accordance with Section 1-
48 09.6.
49

50 **Manufacturer (DBE)** – A DBE firm that operates or maintains a factory or
51 establishment that produces on the premises the materials, supplies, articles, or

1 equipment required under the Contract. A DBE Manufacturer shall produce
2 finished goods or products from raw or unfinished material or purchase and
3 substantially alters goods and materials to make them suitable for construction
4 use before reselling them.

5
6 **Regular Dealer (DBE)** – A DBE firm that owns, operates, or maintains a store,
7 warehouse, or other establishment in which the materials or supplies required
8 for the performance of a Contract are bought, kept in stock, and regularly sold
9 to the public in the usual course of business. To be a Regular Dealer, the DBE
10 firm must be an established regular business that engages in as its principal
11 business and in its own name the purchase and sale of the products in question.
12 A Regular Dealer in such items as steel, cement, gravel, stone, and petroleum
13 products need not own, operate or maintain a place of business if it both owns
14 and operates distribution equipment for the products. Any supplementing of
15 regular dealers' own distribution equipment shall be by long-term formal lease
16 agreements and not on an ad-hoc basis. Brokers, packagers, manufacturers'
17 representatives, or other persons who arrange or expedite transactions shall not
18 be regarded as Regular Dealers within the meaning of this definition.

19
20 **DBE Goals**

21 No DBE goals have been assigned as part of this Contract.

22
23 **Affirmative Efforts to Solicit DBE Participation**

24 The Contractor shall not discriminate on the grounds of race, color, sex, national
25 origin, age, or disability in the selection and retention of subcontractors, including
26 procurement of materials and leases of equipment. DBE firms shall have an equal
27 opportunity to compete for subcontracts in which the Contractor enters into pursuant
28 to this Contract.

29
30 Contractors are encouraged to:

- 31
32 1. Advertise opportunities for Subcontractors or suppliers in a timely and
33 reasonably designed manner to provide notice of the opportunity to DBEs
34 capable of performing the Work. All advertisements should include a
35 Contract Provision encouraging participation by DBE firms. This may be
36 accomplished through general advertisements (e.g. newspapers, journals,
37 etc.) or by soliciting Bids/Proposals directly from DBEs.
38
39 2. Establish delivery schedules that encourage participation by DBEs and
40 other small businesses.
41
42 3. Participate with a DBE as a joint venture.

43
44 **DBE Eligibility/Selection of DBEs for Reporting Purposes Only**

45 Contractor may take credit for DBEs utilized on this Contract only if the firm is certified
46 for the Work being performed, and the firm performs a commercially useful function
47 (CUF).

48
49 Absent a mandatory goal, all DBE participation that is attained on this project will be
50 considered as "race neutral" participation and shall be reported as such.
51

1 **Crediting DBE Participation**

2 All DBE Subcontractors shall be certified before the subcontract on which they are
3 participating is executed.
4

5 Be advised that although a firm is listed in the directory, there are cases where the
6 listed firm is in a temporary suspension status. The Contractor shall review the
7 OMWBE Suspended DBE Firms list. A DBE firm that is included on this list may not
8 enter into new contracts that count towards participation.
9

10 DBE participation is only credited upon payment to the DBE.

11
12 The following are some definitions of what may be counted as DBE participation.
13

14 **DBE Prime Contractor**

15 Only take credit for that portion of the total dollar value of the Contract equal to
16 the distinct, clearly defined portion of the Work that the DBE Prime Contractor
17 performs with its own forces and is certified to perform.
18

19 **DBE Subcontractor**

20 Only take credit for that portion of the total dollar value of the subcontract equal
21 to the distinct, clearly defined portion of the Work that the DBE performs with its
22 own forces. The value of work performed by the DBE includes the cost of
23 supplies and materials purchased by the DBE and equipment leased by the
24 DBE, for its work on the contract. Supplies, materials or equipment obtained by
25 a DBE that are not utilized or incorporated in the contract work by the DBE will
26 not be eligible for DBE credit.
27

28 The supplies, materials, and equipment purchased or leased from the
29 Contractor or its affiliate, including any Contractor's resources available to DBE
30 subcontractors at no cost, shall not be credited.
31

32 DBE credit will not be given in instances where the equipment lease includes
33 the operator. The DBE is expected to operate the equipment used in the
34 performance of its work under the contract with its own forces. Situations where
35 equipment is leased and used by the DBE, but payment is deducted from the
36 Contractor's payment to the DBE is not allowed.
37

38 If a DBE subcontracts a portion of the Work of its contract to another firm, the
39 value of the subcontracted Work may be credited only if the DBE's Lower-Tier
40 Subcontractor is also a DBE. Work subcontracted to a non-DBE shall not be
41 credited.
42

43 Count expenditures toward race/gender-neutral participation only if the DBE is
44 performing a CUF on the contract.
45

46 **DBE Subcontract and Lower Tier Subcontract Documents**

47 There must be a subcontract agreement that complies with 49 CFR Part 26 and
48 fully describes the distinct elements of Work committed to be performed by the
49 DBE. The subcontract agreement shall incorporate requirements of the primary
50 Contract. Subcontract agreements of all tiers, including lease agreements shall
51 be readily available at the project site for the Engineer review.

1
2 **DBE Service Provider**

3 The value of fees or commissions charged by a DBE Broker, a DBE behaving in
4 a manner of a Broker, or another service provider for providing a bona fide
5 service, such as professional, technical, consultant, managerial services, or for
6 providing bonds or insurance specifically required for the performance of the
7 contract will only be credited as DBE participation, if the fee/commission is
8 determined by the Contracting Agency to be reasonable and the firm has
9 performed a CUF.

10
11 **Temporary Traffic Control**

12 If the DBE firm is being utilized in the capacity of only "Flagging", the DBE firm
13 must provide a Traffic Control Supervisor (TCS) and flagger, which are under
14 the direct control of the DBE. The DBE firm shall also provide all flagging
15 equipment (e.g. paddles, hard hats, and vests).

16
17 If the DBE firm is being utilized in the capacity of "Traffic Control Services", the
18 DBE firm must provide a TCS, flaggers, and traffic control items (e.g., cones,
19 barrels, signs, etc.) and be in total control of all items in implementing the traffic
20 control for the project. In addition, if the DBE firm utilizes the Contractor's
21 equipment, such as Transportable Attenuators and Portable Changeable
22 Message Signs (PCMS) no DBE credit can be taken for supplying and operating
23 the items.

24
25 **Trucking**

26 DBE trucking firm participation may only be credited as DBE participation for the
27 value of the hauling services, not for the materials being hauled unless the
28 trucking firm is also certified as a supplier. In situations where the DBE's work
29 is priced per ton, the value of the hauling service must be calculated separately
30 from the value of the materials in order to determine DBE credit for hauling.

31
32 The DBE trucking firm must own and operate at least one licensed, insured and
33 operational truck on the contract. The truck must be of the type that is necessary
34 to perform the hauling duties required under the contract. The DBE receives
35 credit for the value of the transportation services it provides on the Contract
36 using trucks it owns or leases, licenses, insures, and operates with drivers it
37 employs.

38
39 The DBE may lease additional trucks from another DBE firm. The Work that a
40 DBE trucking firm performs with trucks it leases from other certified DBE trucking
41 firms qualify for 100% DBE credit

42
43 The trucking Work subcontracted to any non-DBE trucking firm will not receive
44 credit for Work done on the project. The DBE may lease trucks from a non-DBE
45 truck leasing company, but can only receive credit as DBE participation if the
46 DBE uses its own employees as drivers.

47
48 DBE credit for a truck broker is limited to the fee/commission that the DBE
49 receives for arranging transportation services.
50

Truck registration and lease agreements shall be readily available at the project site for the Engineer review.

DBE Manufacturer and DBE Regular Dealer

One hundred percent (100%) of the cost of the manufactured product obtained from a DBE Manufacturer can count as DBE participation.

Sixty percent (60%) of the cost of materials or supplies purchased from a DBE Regular Dealer may be credited as DBE participation. If the role of the DBE Regular Dealer is determined to be that of a pass-through, then no DBE credit will be given for its services. If the role of the DBE Regular Dealer is determined to be that of a Broker, then DBE credit shall be limited to the fee or commission it receives for its services. Regular Dealer status and the amount of credit is determined on a Contract-by-Contract basis.

Regular Dealer DBE firms must be approved before being used on a project. The WSDOT Approved Regular Dealer list published on WSDOT's Office of Equal Opportunity (OEO) web site must include the specific project for which approval is being requested. The Regular Dealer must submit the Regular Dealer Status Request form a minimum of five days prior to being utilized on the specific project.

Purchase of materials or supplies from a DBE which is neither a manufacturer nor a regular dealer, (i.e. Broker) only the fees or commissions charged for assistance in the procurement of the materials and supplies, or fees or transportation charges for the delivery of materials or supplies required on a job site, can count as DBE participation provided the fees are not excessive as compared with fees customarily allowed for similar services. Documentation will be required to support the fee/commission charged by the DBE. The cost of the materials and supplies themselves cannot be counted toward as DBE participation.

Note: Requests to be listed as a Regular Dealer will only be processed if the requesting firm is a material supplier certified by the Office of Minority and Women's Business Enterprises in a NAICS code that falls within the 42XXXX NAICS Wholesale code section.

Procedures Between Award and Execution

After Award and prior to Execution, the Contractor shall provide the additional information described below. Failure to comply shall result in the forfeiture of the Bidder's Proposal bond or deposit.

1. A list of all firms who submitted a bid or quote in attempt to participate in this project whether they were successful or not. Include the business name and mailing address.

Note: The firms identified by the Contractor may be contacted by the Contracting Agency to solicit general information as follows: age of the firm and average of its gross annual receipts over the past three-years.

Procedures After Execution

Commercially Useful Function (CUF)

The Contractor may only take credit for the payments made for Work performed by a DBE that is determined to be performing a CUF. Payment must be commensurate with the work actually performed by the DBE. This applies to all DBEs performing Work on a project, whether or not the DBEs are COA, if the Contractor wants to receive credit for their participation. The Engineer will conduct CUF reviews to ascertain whether DBEs are performing a CUF. A DBE performs a CUF when it is carrying out its responsibilities of its contract by actually performing, managing, and supervising the Work involved. The DBE must be responsible for negotiating price; determining quality and quantity; ordering the material, installing (where applicable); and paying for the material itself. If a DBE does not perform "all" of these functions on a furnish-and-install contract, it has not performed a CUF and the cost of materials cannot be counted toward DBE COA Goal. Leasing of equipment from a leasing company is allowed. However, leasing/purchasing equipment from the Contractor is not allowed. Lease agreements shall be readily available for review by the Engineer.

In order for a DBE traffic control company to be considered to be performing a CUF, the DBE must be in control of its work inclusive of supervision. The DBE shall employ a Traffic Control Supervisor who is directly involved in the management and supervision of the traffic control employees and services.

The DBE does not perform a CUF if its role is limited to that of an extra participant in a transaction, contract, or project through which the funds are passed in order to obtain the appearance of DBE participation.

The following are some of the factors that the Engineer will use in determining whether a DBE trucking company is performing a CUF:

- The DBE shall be responsible for the management and supervision of the entire trucking operation for which it is responsible on the Contract. The owner demonstrates business related knowledge, shows up on site and is determined to be actively running the business.
- The DBE shall with its own workforce, operate at least one fully licensed, insured, and operational truck used on the Contract. The drivers of the trucks owned and leased by the DBE must be exclusively employed by the DBE and reflected on the DBE's payroll.
- Lease agreements for trucks shall indicate that the DBE has exclusive use of and control over the truck(s). This does not preclude the leased truck from working for others provided it is with the consent of the DBE and the lease provides the DBE absolute priority for use of the leased truck.
- Leased trucks shall display the name and identification number of the DBE.

1 **Joint Checking**

2 A joint check is a check between a Subcontractor and the Contractor to the
3 supplier of materials/supplies. The check is issued by the Contractor as payer
4 to the Subcontractor and the material supplier jointly for items to be incorporated
5 into the project. The DBE must release the check to the supplier, while the
6 Contractor acts solely as the guarantor.
7

8 A joint check agreement must be approved by the Engineer and requested by
9 the DBE involved using the DBE Joint Check Request Form (form # 272-053)
10 prior to its use. The form must accompany the DBE Joint Check Agreement
11 between the parties involved, including the conditions of the arrangement and
12 expected use of the joint checks.
13

14 The approval to use joint checks and the use will be closely monitored by the
15 Engineer. To receive DBE credit for performing a CUF with respect to obtaining
16 materials and supplies, a DBE must “be responsible for negotiating price,
17 determining quality and quantity, ordering the material and installing and paying
18 for the material itself.” The Contractor shall submit DBE Joint Check Request
19 Form for the Engineer approval prior to using a joint check.
20

21 Material costs paid by the Contractor directly to the material supplier is not
22 allowed. If proper procedures are not followed or the Engineer determines that
23 the arrangement results in lack of independence for the DBE involved, no DBE
24 credit will be given for the DBE’s participation as it relates to the material cost.
25

26 **Prompt Payment**

27 Prompt payment to all subcontractors shall be in accordance with Section 1-
28 08.1. Prompt Payment requirements apply to progress payments as well as
29 return of retainage.
30

31 **Reporting**

32 The Contractor and all subcontractors/suppliers/service providers that utilize
33 DBEs to perform work on the project, shall maintain appropriate records that will
34 enable the Engineer to verify DBE participation throughout the life of the project.
35

36 Refer to Section 1-08.1 for additional reporting requirements associated with this
37 Contract.
38

39 **Decertification**

40 When a DBE is “decertified” from the DBE program during the course of the
41 Contract, the participation of that DBE shall continue to count as DBE
42 participation as long as the subcontract with the DBE was executed prior to the
43 decertification notice. The Contractor is obligated to substitute when a DBE does
44 not have an executed subcontract agreement at the time of decertification.
45

46 **Consequences of Non-Compliance**

47 Each contract with a Contractor (and each subcontract the Contractor signs with
48 a Subcontractor) must include the following assurance clause:
49

50 The Contractor, subrecipient, or Subcontractor shall not discriminate on the
51 basis of race, color, national origin, or sex in the performance of this contract.

1 The Contractor shall carry out applicable requirements of 49 CFR Part 26 in the
2 award and administration of DOT-assisted contracts. Failure by the Contractor
3 to carry out these requirements is a material breach of this contract, which may
4 result in the termination of this contract or such other remedy as the recipient
5 deems appropriate, which may include, but is not limited to:

- 6
- 7 (1) Withholding monthly progress payments;
- 8
- 9 (2) Assessing sanctions;
- 10
- 11 (3) Liquidated damages; and/or
- 12
- 13 (4) Disqualifying the Contractor from future bidding as non-responsible.
- 14

15 **Payment**

16 Compensation for all costs involved with complying with the conditions of this
17 Specification and any other associated DBE requirements is included in
18 payment for the associated Contract items of Work, except otherwise provided
19 in the Specifications.

20

21 **(January 1, 2016 COK GSP)**

22 **1-07.14 Responsibility for Damage**

23 Section 1-07.14 is supplemented with the following:

24 The Contractor further agrees that it is waiving immunity under Industrial Insurance Law
25 Title 51 RCW for any claims brought against the City by its employees. In the event
26 Contractor fails, after receipt of timely notice from the City, to appear, defend, or pay as
27 required by the first paragraph of this section, then in that event and in that event only,
28 the City may in its sole discretion, deduct from the progress payments to the Contractor
29 and pay any amount sufficient to pay any claim, of which the City may have knowledge
30 and regardless of the informalities of notice of such claim, arising out of the performance
31 of this contract, provided the City has theretofore given notice of receipt of such claim to
32 the Contractor and the Contractor has failed to act thereon.

33 **1-07.15 Temporary Water Pollution/Erosion Control**

34 **(January 10, 2019 COK GSP)**

35 **1-07.15(1) Spill Prevention, Control, and Countermeasures Plan**

36 Add the following paragraph under the second paragraph of this section:

37 In the event the Contractor uses an SPCC Plan template that either follows the WSDOT
38 SPCC Plan Template or contains the same or similar content and/or format, the following
39 changes shall be required:

- 40 1. Replace all references to "WSDOT" as either the Contracting Agency or project
41 owner with "City of Kirkland", except where indicated in this Section.
- 42 2. Add into all Spill Reporting and related section(s): "The City of Kirkland Spill
43 Response Hotline at (425) 587-3900 shall be the first point of contact in the event
44 of a spill. Notification to the City of Kirkland Spill Response Hotline shall precede
45 the spill notifications to federal and state agencies."

- 1 3. Delete all references to the "WSDOT Environmental Compliance Assurance
2 Procedure" (ECAP) in the SPCC.
3
- 4 Supplement the following referenced SPCC Plan Element Requirements in this Section as
5 follows:
6
- 7 For SPCC Plan Element Requirement Number 2, add the following: "The City of Kirkland Spill
8 Response Hotline at (425) 587-3900 shall be the first point of contact in the event of a spill."
9
- 10 For SPCC Plan Element Requirement Number 8, add the following: "As part of Contractor
11 spill response procedure, the Contractor shall contact the City of Kirkland Spill Response
12 Hotline at (425) 587-3900 to report the spill regardless of whether or not the Contractor has
13 fully contained, controlled, and/or cleaned up the spill."
14
- 15 **1-07.16 Protection and Restoration of Property**
16
- 17 ***1-07.16(1) Private/Public Property***
18
- 19 Section 1-07.16(1) is supplemented with the following:
20
- 21 (*****)
22 The Contractor shall not use private property for construction staging without the
23 written consent of the property owner. The Contractor shall submit written consent to
24 the City prior to occupation of private property. Contractor shall remove and restore
25 private property within 48 hours of notification by the Engineer. Contractor is
26 responsible for any costs incurred outside of the approved work area. Road right-of-
27 way including easements may not be used for construction staging unless prior
28 approval from the City has been granted.
29
- 30 ***1-07.16(2) Vegetation Protection and Restoration***
31
- 32 Section 1-07.16(2) is supplemented with the following:
33
- 34 (August 2, 2010)
35 Vegetation and soil protection zones for trees shall extend out from the trunk to a
36 distance of 1 foot radius for each inch of trunk diameter at breast height.
37
- 38 Vegetation and soil protection zones for shrubs shall extend out from the stems at
39 ground level to twice the radius of the shrub.
40
- 41 Vegetation and soil protection zones for herbaceous vegetation shall extend to
42 encompass the diameter of the plant as measured from the outer edge of the plant.
43
- 44 **(January 1, 2016 COK GSP)**
- 45 ***1-07.16(3) Fences, Mailboxes, Incidentals***
- 46 Section 1-07.16(3) is supplemented with the following:
- 47 **U.S. Postal Service Collection Boxes, Mail Receptacles, and other Structures:** U.S.
48 Postal Service collection box and other Structures requiring temporary relocation to

1 accommodate construction, the Contractor shall contact the Kirkland Postmaster at least
2 5 Working Days in advance for coordination. Only the U.S. Post Office will move Postal
3 Service-owned property.

4 **1-07.17 Utilities and Similar Facilities**

5
6 Section 1-07.17 is supplemented with the following:
7

8 (April 2, 2007)

9 Locations and dimensions shown in the Plans for existing facilities are in accordance with
10 available information obtained without uncovering, measuring, or other verification.

11
12 Public and private utilities, or their Contractors, will furnish all work necessary to adjust,
13 relocate, replace, or construct their facilities unless otherwise provided for in the Plans or
14 these Special Provisions. Such adjustment, relocation, replacement, or construction will
15 be done during the prosecution of the work for this project. It is anticipated that utility
16 adjustment, relocation, replacement or construction within the project limits will be
17 completed as follows:

- 18
- 19 3. Ziplly Fiber will be relocating their utility poles on the north side of NE 132nd Street after
20 the Contractor clears and grubs the site, removes fences and sheds and installs the
21 temporary chain link fence. Other utilities on the poles will relocate their facilities once
22 the new poles are installed.
 - 23 4. NorthShore Utility District will relocate one water meter within the project limits during
24 construction.
 - 25 5. Contractor shall contact NorthShore Utility District for new water valve boxes when
26 the plans callout to adjust valve box to grade.
- 27

28 The Contractor shall attend a mandatory utility preconstruction meeting with the Engineer,
29 all affected Subcontractors, and all utility owners and their Contractors prior to beginning
30 onsite work.

31
32 **(January 1, 2016 COK GSP)**

33 Locations and dimensions shown in the Plans for existing facilities are in accordance
34 with available information obtained without uncovering, measuring, or other verification.

35 The Contractor is alerted to the existence of Chapter 19.122 RCW, a law relating to
36 underground utilities. Any cost to the Contractor incurred as a result of this law shall be
37 at the Contractor's expense.

38 No excavation shall begin until all known facilities in the vicinity of the excavation area
39 have been located and marked.

40 The Contractor shall give advance notice to all utility companies involved where work is
41 to take place and in all other respects comply with the provisions of Chapter 19.122
42 RCW. Notice shall include, but not be limited to, the following utility companies:

- 43 1. Water, sewer, storm, streets – minimum two working days in advance
- 44 2. Power (Electric and Natural Gas) – minimum 48 hours in advance
- 45 3. Telephone – minimum 30 days in advance
- 46 4. Natural Gas – minimum 48 hours in advance

- 1 5. Cable Television – minimum 48 hours in advance
- 2 6. Transit – minimum 21 days in advance

3

4 The following is a list of some utilities serving the Kirkland area. This is not intended or
5 represented to be a complete list and is provided for the Contractor's convenience.

Utility	Agency/Company	Address	Contact	Phone
Water/Sewer	City of Kirkland	123 Fifth Avenue Kirkland, WA 98033	Josh Pantzke	(425) 587-3900
Storm Drainage	City of Kirkland	123 Fifth Avenue Kirkland, WA 98033	Josh Pantzke	(425) 587-3900
Water / Sewer (North area of Kirkland)	Northshore Utility District	6380 NE 185th St Kenmore, WA 98028	George Matote Kelly Nesbitt	(425) 398-4400 (425) 521-3750
Street	City of Kirkland	123 Fifth Avenue Kirkland, WA 98033	Nathen Hower	(425) 587-3900
Natural Gas	Puget Sound Energy	P.O. Box 97034 EST-11W Bellevue, WA 98009- 9734	Patty Miller	(206) 305-7950
Electric	Puget Sound Energy	35131 SE Center St Snoqualmie, WA 98065	Fremont Aguinaldo	(425) 223-0936
Telephone/ FIOS	Ziply Fiber	P.O. Box 1127 Everett, WA 98206	Jay Schwab	(425) 263-4019
FIOS	Zayo	22651 83 rd Ave. S. Kent, WA 98032	Jason Accuradi	(971) 344-0530
Cable Television	Comcast	1525 - 75th St SW, Suite 200 Everett, WA 98203	Joe Fordon	(425) 263-5348
Network	Verizon/MCI	11311 NE 120 th St Kirkland, WA 98034	Brad Landis Scott Christenson	(425) 201-0901 (425) 471-1079
School District Transportation	Lake Washington School District	15212 NE 95th St Redmond, WA 98052	Jeff Miles	(425) 936-1120
Transit	King County METRO	MS SVQ-TR-0100 1270 6th Ave S Seattle, WA 98134	David Freeman	(206) 477-1140 (206) 477-0438
Water (Northeast area of Kirkland)	Woodinville Water District	17238 NE Woodinville Duvall Road, Woodinville, WA 98072	Ken McDowell	(425) 487-4104
Olympic Pipeline	BP		Kenneth Metcalf Joseph Stone	(425) 981-2575 (425) 981-2506

6

7 Note that most utility companies may be contacted for locations through the "One Call"
8 system, 1-800-424-5555. In the event of a gas emergency, call 911 and then the PSE
9 hotline at 1-888-225-5773 (1-888-CALL-PSE).

10 The Contractor shall coordinate the work with these utilities and shall notify the Engineer
11 in advance of any conflicts affecting the work schedule. The utility companies shall
12 witness or perform all shutdowns, connections or disconnections.

1 Wherever in the course of the construction operation it becomes necessary to cause an
2 outage of utilities, it shall be the Contractor's responsibility to notify the affected users
3 not less than twenty-four (24) hours in advance of the creation of such outage. The
4 Contractor shall make reasonable effort to minimize the duration of outages.

5 The Contractor shall be responsible for any breakage of utilities or services resulting
6 from its operations and shall hold the City and its agents harmless from any claims
7 resulting from disruption of, or damage to, same.

8 **Other Notifications**

9 Service Area Turn Off: All service area turn off notices must be distributed to affected
10 parties two working days in advance of any scheduled shut off. City to provide door
11 hangers and affected service area map. The contractor shall fill in all required
12 information prior to hanging door hanger.

13 Entry onto Private Property: Each property owner shall be given two working days
14 advance Written Notice prior to entry by the Contractor.

15 Loop Detection Systems: Where an excavation is to take place through a signal loop
16 detector system, the Contractor shall provide at least five (5) Working Days advance
17 notice to the City Signal Shop at (425) 587-3920 to coordinate temporary signal wire
18 disconnect and installation of temporary signal detection equipment.

19 Survey Monuments: When proposed pavement removal is close to existing survey
20 monumentation, or proposed pavement removal includes existing survey
21 monumentation, the Contractor shall provide a minimum 4 Working Days advance notice
22 to the Engineer to allow survey crews to tie the monument out and reset the monument
23 after pavement installation

24
25 (*****)

26 It shall be the Contractor's responsibility to coordinate with all utility companies. If the
27 Contractor is adjusting utility company's facilities where shown in the plans the Contractor
28 shall notify the affected Utility Company prior to doing the work.

29
30 **(January 1, 2016 COK GSP)**

31 **1-07.17(2) Utility Construction, Removal or Relocation by Others**

32 Section 1-07.17(2) is supplemented with the following:

33 Under no circumstances will discrepancies in location or incompleteness in description
34 of existing utilities or improvements, whether they are visible from the surface, buried,
35 or otherwise obscured, be considered as a basis for additional compensation to the
36 Contractor.

37 (*****)

38 **1-07.17(3) Interruption of Service**

39
40 Whenever in the course of the construction operation it becomes necessary to cause an
41 outage of utilities, it shall be Contractor's responsibility to coordinate with the utility
42 company to minimize outages and provide a notice of outages a minimum of 72 hours
43 prior to the outage. Contractor shall make reasonable effort to minimize the duration of

1 outages, and shall estimate the length of time service will be interrupted and so notify the
2 users. In the case of any utility outage that has exceeded or will exceed four hours, user
3 contact shall again be made.
4

5 Locations and dimensions for existing buried facilities are not shown in the plans and it
6 is the Contractor's responsibility to locate these utilities prior to any excavation work.
7

8 **1-07.18 Public Liability and Property Damage Insurance**

9

10 Delete this section in its entirety, and replace it with the following:
11

12 **1-07.18 Insurance**

13 *(January 4, 2016 APWA GSP)*
14

15 **1-07.18(1) General Requirements**

- 16 A. The Contractor shall procure and maintain the insurance described in all subsections of
17 section 1-07.18 of these Special Provisions, from insurers with a current A. M. Best
18 rating of not less than A-: VII and licensed to do business in the State of Washington.
19 The Contracting Agency reserves the right to approve or reject the insurance provided,
20 based on the insurer's financial condition.
21
- 22 B. The Contractor shall keep this insurance in force without interruption from the
23 commencement of the Contractor's Work through the term of the Contract and for thirty
24 (30) days after the Physical Completion date, unless otherwise indicated below.
25
- 26 C. If any insurance policy is written on a claims made form, its retroactive date, and that of
27 all subsequent renewals, shall be no later than the effective date of this Contract. The
28 policy shall state that coverage is claims made, and state the retroactive date. Claims-
29 made form coverage shall be maintained by the Contractor for a minimum of 36 months
30 following the Completion Date or earlier termination of this Contract, and the Contractor
31 shall annually provide the Contracting Agency with proof of renewal. If renewal of the
32 claims made form of coverage becomes unavailable, or economically prohibitive, the
33 Contractor shall purchase an extended reporting period ("tail") or execute another form of
34 guarantee acceptable to the Contracting Agency to assure financial responsibility for
35 liability for services performed.
36
- 37 D. The Contractor's Automobile Liability, Commercial General Liability and Excess or
38 Umbrella Liability insurance policies shall be primary and non-contributory insurance as
39 respects the Contracting Agency's insurance, self-insurance, or self-insured pool
40 coverage. Any insurance, self-insurance, or self-insured pool coverage maintained by the
41 Contracting Agency shall be excess of the Contractor's insurance and shall not contribute
42 with it.
43
- 44 E. The Contractor shall provide the Contracting Agency and all additional insureds with
45 written notice of any policy cancellation, within two business days of their receipt of such
46 notice.
47
- 48 F. The Contractor shall not begin work under the Contract until the required insurance has
49 been obtained and approved by the Contracting Agency
50
- 51 G. Failure on the part of the Contractor to maintain the insurance as required shall
52 constitute a material breach of contract, upon which the Contracting Agency may, after

1 giving five business days' notice to the Contractor to correct the breach, immediately
2 terminate the Contract or, at its discretion, procure or renew such insurance and pay any
3 and all premiums in connection therewith, with any sums so expended to be repaid to the
4 Contracting Agency on demand, or at the sole discretion of the Contracting Agency,
5 offset against funds due the Contractor from the Contracting Agency.
6

7 H. All costs for insurance shall be incidental to and included in the unit or lump sum prices
8 of the Contract and no additional payment will be made.
9

10 **1-07.18(2) Additional Insured**

11 All insurance policies, with the exception of Workers Compensation, and of Professional
12 Liability and Builder's Risk (if required by this Contract) shall name the following listed
13 entities as additional insured(s) using the forms or endorsements required herein:

- 14 ▪ the Contracting Agency and its officers, elected officials, employees, agents, and
15 volunteers
- 16 ▪ AECOM

17 The above-listed entities shall be additional insured(s) for the full available limits of liability
18 maintained by the Contractor, irrespective of whether such limits maintained by the
19 Contractor are greater than those required by this Contract, and irrespective of whether the
20 Certificate of Insurance provided by the Contractor pursuant to 1-07.18(4) describes limits
21 lower than those maintained by the Contractor.
22

23 For Commercial General Liability insurance coverage, the required additional insured
24 endorsements shall be at least as broad as ISO forms CG 20 10 10 0TM1 for ongoing
25 operations and CG 20 37 10 01 for completed operations.
26

27 **1-07.18(3) Subcontractors**

28 The Contractor shall cause each Subcontractor of every tier to provide insurance coverage
29 that complies with all applicable requirements of the Contractor-provided insurance as set
30 forth herein, except the Contractor shall have sole responsibility for determining the limits of
31 coverage required to be obtained by Subcontractors.
32

33 The Contractor shall ensure that all Subcontractors of every tier add all entities listed in
34 1-07.18(2) as additional insureds, and provide proof of such on the policies as required by
35 that section as detailed in 1-07.18(2) using an endorsement as least as broad as ISO CG 20
36 10 10 01 for ongoing operations and CG 20 37 10 01 for completed operations.
37

38 Upon request by the Contracting Agency, the Contractor shall forward to the Contracting
39 Agency evidence of insurance and copies of the additional insured endorsements of each
40 Subcontractor of every tier as required in 1-07.18(4) Verification of Coverage.
41

42 **1-07.18(4) Verification of Coverage**

43 The Contractor shall deliver to the Contracting Agency a Certificate(s) of Insurance and
44 endorsements for each policy of insurance meeting the requirements set forth herein when
45 the Contractor delivers the signed Contract for the work. Failure of Contracting Agency to
46 demand such verification of coverage with these insurance requirements or failure of
47 Contracting Agency to identify a deficiency from the insurance documentation provided shall
48 not be construed as a waiver of Contractor's obligation to maintain such insurance.
49

50 Verification of coverage shall include:

- 1 1. An ACORD certificate or a form determined by the Contracting Agency to be equivalent.
- 2 2. Copies of all endorsements naming Contracting Agency and all other entities listed in
- 3 1-07.18(2) as additional insured(s), showing the policy number. The Contractor may
- 4 submit a copy of any blanket additional insured clause from its policies instead of a
- 5 separate endorsement.
- 6 3. Any other amendatory endorsements to show the coverage required herein.
- 7 4. A notation of coverage enhancements on the Certificate of Insurance shall not satisfy
- 8 these requirements – actual endorsements must be submitted.
- 9

10 Upon request by the Contracting Agency, the Contractor shall forward to the Contracting
11 Agency a full and certified copy of the insurance policy(s). If Builders Risk insurance is
12 required on this Project, a full and certified copy of that policy is required when the
13 Contractor delivers the signed Contract for the work.

14 15 **1-07.18(5) Coverages and Limits**

16 The insurance shall provide the minimum coverages and limits set forth below. Contractor's
17 maintenance of insurance, its scope of coverage, and limits as required herein shall not be
18 construed to limit the liability of the Contractor to the coverage provided by such insurance,
19 or otherwise limit the Contracting Agency's recourse to any remedy available at law or in
20 equity.

21
22 All deductibles and self-insured retentions must be disclosed and are subject to approval by
23 the Contracting Agency. The cost of any claim payments falling within the deductible or self-
24 insured retention shall be the responsibility of the Contractor. In the event an additional
25 insured incurs a liability subject to any policy's deductibles or self-insured retention, said
26 deductibles or self-insured retention shall be the responsibility of the Contractor.

27 28 **1-07.18(5)A Commercial General Liability**

29 Commercial General Liability insurance shall be written on coverage forms at least as broad
30 as ISO occurrence form CG 00 01, including but not limited to liability arising from premises,
31 operations, stop gap liability, independent contractors, products-completed operations,
32 personal and advertising injury, and liability assumed under an insured contract. There shall
33 be no exclusion for liability arising from explosion, collapse or underground property
34 damage.

35
36 The Commercial General Liability insurance shall be endorsed to provide a per project
37 general aggregate limit, using ISO form CG 25 03 05 09 or an equivalent endorsement.

38
39 Contractor shall maintain Commercial General Liability Insurance arising out of the
40 Contractor's completed operations for at least three years following Substantial Completion
41 of the Work.

42
43 Such policy must provide the following minimum limits:

44	\$1,000,000	Each Occurrence
45	\$2,000,000	General Aggregate
46	\$2,000,000	Products & Completed Operations Aggregate
47	\$1,000,000	Personal & Advertising Injury each offence
48	\$1,000,000	Stop Gap / Employers' Liability each accident

49

1 **1-07.18(5)B Automobile Liability**
2 Automobile Liability shall cover owned, non-owned, hired, and leased vehicles; and shall be
3 written on a coverage form at least as broad as ISO form CA 00 01. If the work involves the
4 transport of pollutants, the automobile liability policy shall include MCS 90 and CA 99 48
5 endorsements.
6
7 Such policy must provide the following minimum limit:
8 \$1,000,000 Combined single limit each accident
9
10 **1-07.18(5)C Workers' Compensation**
11 The Contractor shall comply with Workers' Compensation coverage as required by the
12 Industrial Insurance laws of the State of Washington.
13
14 **1-07.18(5)D Excess or Umbrella Liability**
15 *(January 4, 2016 APWA GSP)*
16
17 The Contractor shall provide Excess or Umbrella Liability insurance with limits of not less than
18 3,000,000 million each occurrence and annual aggregate. This excess or umbrella liability
19 coverage shall be excess over and as least as broad in coverage as the Contractor's
20 Commercial General and Auto Liability insurance
21
22 All entities listed under 1-07.18(2) of these Special Provisions shall be named as additional
23 insureds on the Contractor's Excess or Umbrella Liability insurance policy.
24
25 This requirement may be satisfied instead through the Contractor's primary Commercial
26 General and Automobile Liability coverages, or any combination thereof that achieves the
27 overall required limits of insurance.
28
29 **1-07.23 Public Convenience and Safety**
30
31 Section 1-07.23 is supplemented with the following:
32 *(January 1, 2016 COK GSP)*
33 No road or street shall be closed to the public except as permitted in these plans and
34 specifications or with the approval of the Engineer and proper governmental authority.
35 Fire hydrants on or adjacent to the work shall be kept accessible to fire fighting
36 equipment at all times. Provision shall be made by the Contractor to ensure the proper
37 functioning of all gutters, sewer inlets, drainage ditches and culverts, irrigation ditches
38 and natural water courses, and storm sewer facilities throughout the project. Temporary
39 interruption of service will be allowed only with the permission of the Engineer.
40
41 The Kirkland Police Department and Kirkland Fire Department shall be notified at least
42 four (4) hours in advance of any actions by the Contractor that may affect the functions
43 of either the Police Department or Fire Department.
44
45 The Contractor shall conduct its work and take preventative measures so that dust or
46 other particulate matter in the project area shall not become objectionable to the
47 adjacent property owners or general public. Should the Owner determine the Contractor
48 is not fulfilling its obligation in this regard; the Owner reserves the right to take such
action as may be necessary to remedy the objectionable condition and to charge the
Contractor with any cost that may be incurred in such remedial action. All work shall be

1 carried on with due regard for the safety of the public. No driveway, whether public,
2 commercial, or private, may be closed without prior approval of the Owner, project
3 supervisor, or Engineer unless written authority has been given by the affected property
4 owner. The Contractor shall be responsible for notifying the affected property owners
5 24 hours in advance of scheduled interruptions to access.

6 **(January 1, 2016 COK GSP)**

7 **Pedestrian Control and Protection**

8 When the work area encroaches upon a sidewalk, walkway or crosswalk area, special
9 consideration must be given to pedestrian safety. Maximum effort must be made to
10 separate pedestrians from the work area. Protective barricades, fencing, and bridges,
11 together with warning and guidance devices and signs, shall be utilized so that the
12 passageway for pedestrians is safe and well defined. Whenever pedestrian walkways
13 are provided across excavations, they shall be provided with suitable handrails.
14 Footbridges shall be safe, strong, free of bounce and sway, have a slip resistant coating,
15 and be free of cracks, holes, and irregularities that could cause tripping. Ramps shall be
16 provided at the entrance and exit of all raised footbridges, again to prevent tripping.
17 Adequate illumination and reflectorizing shall be provided during hours of darkness. All
18 walkways shall be maintained with at least 4 feet clear width.

19 Where walks are closed by construction, an alternate walkway shall be provided,
20 preferably within the planting strip.

21 Where it is necessary to divert pedestrians into the roadway, barricading or channeling
22 devices shall be provided to separate the pedestrian walkway from the adjacent
23 vehicular traffic lane. At no time shall pedestrians be diverted into a portion of a street
24 used concurrently by moving vehicular traffic.

25 At locations where adjacent alternate walkways cannot be provided, appropriate signs
26 shall be posted at the limits of construction and in advance of the closure at the nearest
27 crosswalk or intersection to divert pedestrians across the street.

28 Physical barricades shall be installed to prevent visually impaired people from
29 inadvertently entering a closed area. Pedestrian walkways shall be wheelchair
30 accessible at all times. Pedestrian access shall be maintained to all properties adjacent
31 to the construction site.

32 ***1-07.23(1) Construction Under Traffic***

33

34 Section 1-07.23(1) is supplemented with the following:

35

36

36 **(February 3, 2020)**

37

37 **Work Zone Clear Zone**

38

39

40

41

42

43

44

The Work Zone Clear Zone (WZCZ) applies during working and nonworking
hours. The WZCZ applies only to temporary roadside objects introduced by the
Contractor's operations and does not apply to preexisting conditions or
permanent Work. Those work operations that are actively in progress shall be in
accordance with adopted and approved Traffic Control Plans, and other contract
requirements.

During nonworking hours equipment or materials shall not be within the WZCZ unless they are protected by permanent guardrail or temporary concrete barrier. The use of temporary concrete barrier shall be permitted only if the Engineer approves the installation and location.

During actual hours of work, unless protected as described above, only materials absolutely necessary to construction shall be within the WZCZ and only construction vehicles absolutely necessary to construction shall be allowed within the WZCZ or allowed to stop or park on the shoulder of the roadway.

The Contractor's nonessential vehicles and employees private vehicles shall not be permitted to park within the WZCZ at any time unless protected as described above.

Deviation from the above requirements shall not occur unless the Contractor has requested the deviation in writing and the Engineer has provided written approval.

Minimum WZCZ distances are measured from the edge of traveled way and will be determined as follows:

Regulatory Posted Speed	Distance From Traveled Way (Feet)
35 mph or less	10
40 mph	15
45 to 50 mph	20
55 to 60 mph	30
65 mph or greater	35

Minimum Work Zone Clear Zone Distance

(January 5, 2015)

Lane closures are subject to the following restrictions:

- Local Access must be maintained at all times.
- Contractor shall return all lanes to normal operations at the end of each working day or provide temporary pavement markings and/or signal detection along with traffic control devices. Tape may be used for temporary pavement markings for a maximum of 1 week. If temporary pavement markings are required longer than 1 week then raised pavement markers shall be used.
- Contractor will be allowed to limit left turning vehicles by using the existing left turn lane as a through lane (One lane closure) and thus providing one lane in each direction during daytime work hours as follows with prior approval from Engineer:

- 9:00 am to 3:00 pm Monday through Friday

- Contractor will not be allowed to work nights without prior approval from the Engineer.

If the Engineer determines the permitted closure hours adversely affect traffic, the Engineer may adjust the hours accordingly. The Engineer will notify the Contractor in writing of any change in the closure hours.

Lane closures are not allowed on any of the following:

1. A holiday,
2. A holiday weekend; holidays that occur on Friday, Saturday, Sunday or Monday are considered a holiday weekend. A holiday weekend includes Saturday, Sunday, and the holiday.
3. After 12:00 noon on the day prior to a holiday or holiday weekend, and
4. Before 8:00 a.m. on the day after the holiday or holiday weekend.

1-07.24 Rights of Way

(July 23, 2015 APWA GSP)

Delete this section and replace it with the following:

Street Right of Way lines, limits of easements, and limits of construction permits are indicated in the Plans. The Contractor's construction activities shall be confined within these limits, unless arrangements for use of private property are made.

Generally, the Contracting Agency will have obtained, prior to bid opening, all rights of way and easements, both permanent and temporary, necessary for carrying out the work. Exceptions to this are noted in the Bid Documents or will be brought to the Contractor's attention by a duly issued Addendum.

Whenever any of the work is accomplished on or through property other than public Right of Way, the Contractor shall meet and fulfill all covenants and stipulations of any easement agreement obtained by the Contracting Agency from the owner of the private property. Copies of the easement agreements may be included in the Contract Provisions or made available to the Contractor as soon as practical after they have been obtained by the Engineer.

Whenever easements or rights of entry have not been acquired prior to advertising, these areas are so noted in the Plans. The Contractor shall not proceed with any portion of the work in areas where right of way, easements or rights of entry have not been acquired until the Engineer certifies to the Contractor that the right of way or easement is available or that the right of entry has been received. If the Contractor is delayed due to acts of omission on the part of the Contracting Agency in obtaining easements, rights of entry or right of way, the Contractor will be entitled to an extension of time. The Contractor agrees that such delay shall not be a breach of contract.

Each property owner shall be given 48 hours notice prior to entry by the Contractor. This includes entry onto easements and private property where private improvements must be adjusted.

The Contractor shall be responsible for providing, without expense or liability to the Contracting Agency, any additional land and access thereto that the Contractor may desire for temporary construction facilities, storage of materials, or other Contractor needs. However, before using any private property, whether adjoining the work or not, the Contractor shall file with the Engineer a written permission of the private property owner, and, upon vacating the premises, a written release from the property owner of each property disturbed or otherwise interfered with by reasons of construction pursued under this contract. The statement shall be signed by the private property owner, or proper authority acting for the owner of the private property affected, stating that permission has been granted to use the property and all necessary permits have been obtained or, in the case of a release, that the restoration of the property has been satisfactorily accomplished. The statement shall include the parcel number, address, and date of signature. Written releases must be filed with the Engineer before the Completion Date will be established.

(January 1, 2021 COK GSP)

In addition to all agreements and releases between the Contractor and private property owner(s) described in this Section and as required in Section 1-07.6(2), the Contractor shall apply for a City of Kirkland Temporary Use Permit from the City of Kirkland Planning and Building Department for any temporary uses of real property (including both private property and City-owned real property) for temporary construction facilities, storage of materials, or other Contractor needs.

The Contractor shall file with the Engineer signed property release forms (in the format as detailed below) for all properties disturbed or damaged by the Contractor's operations.

PROPERTY RELEASE	
<hr/>	
<hr/>	
<hr/>	
<i>(Contractor's name and address)</i>	
DATE: <hr/>	
I,	<hr/>
owner	of <hr/> hereby release
	<hr/>
	<i>(Contractor's name)</i>
from any property damage or personal injury resulting from construction on or adjacent to	
my property located at <hr/>	
during construction of the <hr/> My signature	
below is my acknowledgment and acceptance that my property, as identified above, was	
returned to a satisfactory condition.	
Signed: <hr/>	
Name: <hr/>	
Address: <hr/>	
<hr/>	
Phone: <hr/>	
<hr/>	

1-08 PROSECUTION AND PROGRESS

1 Add the following new section:

2 **1-08.0 Preliminary Matters**
3 (May 25, 2006 APWA GSP)

5 Add the following new section:

7 **1-08.0(1) Preconstruction Conference**
8 (October 10, 2008 APWA GSP)

10 Prior to the Contractor beginning the work, a preconstruction conference will be held
11 between the Contractor, the Engineer and such other interested parties as may be
12 invited. The purpose of the preconstruction conference will be:

- 13 1. To review the initial progress schedule;
- 14 2. To establish a working understanding among the various parties associated or
15 affected by the work;
- 16 3. To establish and review procedures for progress payment, notifications, approvals,
17 submittals, etc.;
- 18 4. To establish normal working hours for the work;
- 19 5. To review safety standards and traffic control; and
- 20 6. To discuss such other related items as may be pertinent to the work.

21
22 The Contractor shall prepare and submit at the preconstruction conference the following:

- 23 1. A breakdown of all lump sum items;
- 24 2. A preliminary schedule of working drawing submittals; and
- 25 3. A list of material sources for approval if applicable.

26
27 Add the following new section:

28
29 (*****)

30 **1-08.0(2) Hours of Work**

31
32 Except in the case of emergency or unless otherwise approved by the Engineer, the
33 normal working hours for the Contract shall be any consecutive 8-hour to 9-hour period
34 as follows:
35 between 7:00 a.m. and 5:00 p.m. Monday through Friday, exclusive of a lunch break. If the
36 Contractor desires different than the normal working hours stated above, the request must
37 be submitted in writing prior to the preconstruction conference, subject to the provisions
38 below. The working hours for the Contract shall be established at or prior to the
39 preconstruction conference. See Section 1-07.23(1) of these special provisions for
40 allowable lane closures.

41
42 All working hours and days are also subject to local permit and ordinance conditions (such
43 as noise ordinances).

44
45 If the Contractor wishes to deviate from the established working hours, the Contractor
46 shall submit a written request to the Engineer for consideration. This request shall state
47 what hours are being requested, and why. Requests shall be submitted for review no
48 later than 10 days prior to the day(s) the Contractor is requesting to change the hours.

1
2 If the Contracting Agency approves such a deviation, such approval may be subject to
3 certain other conditions, which will be detailed in writing. For example:

- 4 1. On non-Federal aid projects, requiring the Contractor to reimburse the
5 Contracting Agency for the costs in excess of straight-time costs for Contracting
6 Agency representatives who worked during such times. (The Engineer may
7 require designated representatives to be present during the work.
8 Representatives who may be deemed necessary by the Engineer include, but are
9 not limited to: survey crews; personnel from the Contracting Agency's material
10 testing lab; inspectors; and other Contracting Agency employees or third party
11 consultants when, in the opinion of the Engineer, such work necessitates their
12 presence.)
- 13 2. Considering the work performed on Saturdays, Sundays, and holidays as working
14 days with regard to the contract time.
- 15 3. Considering multiple work shifts as multiple working days with respect to contract
16 time even though the multiple shifts occur in a single 24-hour period.
- 17 4. If a 4-10 work schedule is requested and approved the non working day for the
18 week will be charged as a working day.
- 19 5. If Davis Bacon wage rates apply to this Contract, all requirements must be met
20 and recorded properly on certified payroll

21
22 **1-08.1 Subcontracting**

23 *(May 30, 2019 APWA GSP, Option B)*
24

25 Delete the ninth paragraph, beginning with "On all projects, the Contractor shall certify...".
26

27 **1-08.3(2)A Type A Progress Schedule**

28 *(March 13, 2012 APWA GSP)*
29

30 Revise this section to read:
31

32 The Contractor shall submit 3 copies of a Type A Progress Schedule no later than at the
33 preconstruction conference, or some other mutually agreed upon submittal time. The
34 schedule may be a critical path method (CPM) schedule, bar chart, or other standard
35 schedule format. Regardless of which format used, the schedule shall identify the critical
36 path. The Engineer will evaluate the Type A Progress Schedule and approve or return the
37 schedule for corrections within 15 calendar days of receiving the submittal.
38

39 **1-08.4 Prosecution of Work**
40

41 Delete this section and replace it with the following:
42

1 **1-08.4 Notice to Proceed and Prosecution of Work**

2 *(July 23, 2015 APWA GSP)*

3
4 Notice to Proceed will be given after the contract has been executed and the contract
5 bond and evidence of insurance have been approved and filed by the Contracting
6 Agency. The Contractor shall not commence with the work until the Notice to Proceed
7 has been given by the Engineer. The Contractor shall commence construction activities
8 on the project site within ten days of the Notice to Proceed Date, unless otherwise
9 approved in writing. The Contractor shall diligently pursue the work to the physical
10 completion date within the time specified in the contract. Voluntary shutdown or slowing
11 of operations by the Contractor shall not relieve the Contractor of the responsibility to
12 complete the work within the time(s) specified in the contract.

13
14 When shown in the Plans, the first order of work shall be the installation of high visibility
15 fencing to delineate all areas for protection or restoration, as described in the Contract.
16 Installation of high visibility fencing adjacent to the roadway shall occur after the
17 placement of all necessary signs and traffic control devices in accordance with 1-10.1(2).
18 Upon construction of the fencing, the Contractor shall request the Engineer to inspect the
19 fence. No other work shall be performed on the site until the Contracting Agency has
20 accepted the installation of high visibility fencing, as described in the Contract.

21
22 **(*****)**

23 **The Contractor shall install the storm drain system and remove and replace the**
24 **curb, gutter and sidewalk and install asphalt pavement west of 108th Ave. NE prior**
25 **to removing the sidewalk east of 108th Ave. NE to allow the bus stop to be**
26 **relocated as shown in the plans.**

27
28 **1-08.5 Time for Completion**

29
30 Section 1-08.5 is supplemented with the following:

31
32 (March 13, 1995)

33 This project shall be physically completed within 45 working days

34
35 ***(November 30, 2018 APWA GSP, Option A)***

36 Revise the third and fourth paragraphs to read:

37
38 Contract time shall begin on the first working day following the Notice to Proceed Date.

39
40 Each working day shall be charged to the contract as it occurs, until the contract work is
41 physically complete. If substantial completion has been granted and all the authorized
42 working days have been used, charging of working days will cease. Each week the
43 Engineer will provide the Contractor a statement that shows the number of working days:
44 (1) charged to the contract the week before; (2) specified for the physical completion of
45 the contract; and (3) remaining for the physical completion of the contract. The
46 statement will also show the nonworking days and any partial or whole day the Engineer
47 declares as unworkable. Within 10 calendar days after the date of each statement, the
48 Contractor shall file a written protest of any alleged discrepancies in it. To be considered
49 by the Engineer, the protest shall be in sufficient detail to enable the Engineer to
50 ascertain the basis and amount of time disputed. By not filing such detailed protest in
51 that period, the Contractor shall be deemed as having accepted the statement as

1 correct. If the Contractor is approved to work 10 hours a day and 4 days a week (a 4-10
2 schedule) and the fifth day of the week in which a 4-10 shift is worked would ordinarily be
3 charged as a working day then the fifth day of that week will be charged as a working
4 day whether or not the Contractor works on that day.

5
6 Revise the sixth paragraph to read:

7
8 The Engineer will give the Contractor written notice of the completion date of the contract
9 after all the Contractor's obligations under the contract have been performed by the
10 Contractor. The following events must occur before the Completion Date can be
11 established:

- 12 1. The physical work on the project must be complete; and
- 13 2. The Contractor must furnish all documentation required by the contract and required
14 by law, to allow the Contracting Agency to process final acceptance of the contract.
15 The following documents must be received by the Project Engineer prior to
16 establishing a completion date:
 - 17 a. Certified Payrolls (per Section 1-07.9(5)).
 - 18 b. Material Acceptance Certification Documents
 - 19 c. Monthly Reports of Amounts Credited as DBE Participation, as required by the
20 Contract Provisions.
 - 21 d. Final Contract Voucher Certification
 - 22 e. Copies of the approved "Affidavit of Prevailing Wages Paid" for the Contractor
23 and all Subcontractors
 - 24 f. A copy of the Notice of Termination sent to the Washington State Department of
25 Ecology (Ecology); the elapse of 30 calendar days from the date of receipt of the
26 Notice of Termination by Ecology; and no rejection of the Notice of Termination
27 by Ecology. This requirement will not apply if the Construction Stormwater
28 General Permit is transferred back to the Contracting Agency in accordance with
29 Section 8-01.3(16).
 - 30 g. Property owner releases per Section 1-07.24

31 32 **1-08.6 Suspension of Work**

33
34 Section 1-08.5 is supplemented with the following:

35
36 (*****)

37 Contract time will be extended a maximum of 60 working days if approved by the Engineer to
38 allow Ziplly to relocate utility poles providing the Contractor can't work in other areas of the
39 project. See Section 1-07.17 of these specifications for further explanation.

40 41 **1-08.9 Liquidated Damages**

42 *(March 3, 2021 APWA GSP, Option A)*

43
44 Replace Section 1-08.9 with the following:

45
46 Time is of the essence of the Contract. Delays inconvenience the traveling public,
47 obstruct traffic, interfere with and delay commerce, and increase risk to Highway users.
48 Delays also cost tax payers undue sums of money, adding time needed for
49 administration, engineering, inspection, and supervision.

Accordingly, the Contractor agrees:

1. To pay liquidated damages in the amount of \$1700.00 for each working day beyond the number of working days established for Physical Completion, and
2. To authorize the Engineer to deduct these liquidated damages from any money due or coming due to the Contractor.

When the Contract Work has progressed to Substantial Completion as defined in the Contract, the Engineer may determine the Contract Work is Substantially Complete. The Engineer will notify the Contractor in writing of the Substantial Completion Date. For overruns in Contract time occurring after the date so established, liquidated damages identified above will not apply. For overruns in Contract time occurring after the Substantial Completion Date, liquidated damages shall be assessed on the basis of direct engineering and related costs assignable to the project until the actual Physical Completion Date of all the Contract Work. The Contractor shall complete the remaining Work as promptly as possible. Upon request by the Project Engineer, the Contractor shall furnish a written schedule for completing the physical Work on the Contract.

Liquidated damages will not be assessed for any days for which an extension of time is granted. No deduction or payment of liquidated damages will, in any degree, release the Contractor from further obligations and liabilities to complete the entire Contract.

1-09 MEASUREMENT AND PAYMENT

1-09.2 Weighing Equipment

1-09.2(1) General Requirements for Weighing Equipment

(July 23, 2015 APWA GSP, Option 2)

Revise item 4 of the fifth paragraph to read:

4. Test results and scale weight records for each day's hauling operations are provided to the Engineer daily. Reporting shall utilize WSDOT form 422-027, Scaleman's Daily Report, unless the printed ticket contains the same information that is on the Scaleman's Daily Report Form. The scale operator must provide AM and/or PM tare weights for each truck on the printed ticket.

(January 1, 2016 COK GSP)

The second to last paragraph of Section 1-09.2(1) is supplemented with the following:

Trucks and Tickets

All tickets shall, at a minimum, contain the following information:

7. Ticket serial number
8. Date and hour of weighing
9. Weigher's identification

1 Duplicate tally tickets shall be prepared to accompany each truckload of materials delivered to
2 the project.

3 It is the responsibility of the Contractor to see that tickets are given to the Inspector on the project
4 for each truckload of material delivered. Pay quantities will be prepared on the basis of said tally
5 tickets, delivered to the Inspector at time of delivery of materials. Tickets not collected at the
6 time of delivery will not be honored for payment.

7 **1-09.2(5) Measurement**
8 *(May 2, 2017 APWA GSP)*
9

10 Revise the first paragraph to read:
11

12 **Scale Verification Checks** – At the Engineer's discretion, the Engineer may perform
13 verification checks on the accuracy of each batch, hopper, or platform scale used in
14 weighing contract items of Work.
15

16 **1-09.6 Force Account**
17 *(October 10, 2008 APWA GSP)*
18

19 Supplement this section with the following:
20

21 The Contracting Agency has estimated and included in the Proposal, dollar amounts for
22 all items to be paid per force account, only to provide a common proposal for Bidders. All
23 such dollar amounts are to become a part of Contractor's total bid. However, the
24 Contracting Agency does not warrant expressly or by implication, that the actual amount
25 of work will correspond with those estimates. Payment will be made on the basis of the
26 amount of work actually authorized by Engineer.
27

28 **1-09.9 Payments**
29 *(March 13, 2012 APWA GSP)*
30

31 Delete the first four paragraphs and replace them with the following:
32

33 The basis of payment will be the actual quantities of Work performed according to the
34 Contract and as specified for payment.
35

36 The Contractor shall submit a breakdown of the cost of lump sum bid items at the
37 Preconstruction Conference, to enable the Project Engineer to determine the Work
38 performed on a monthly basis. A breakdown is not required for lump sum items that
39 include a basis for incremental payments as part of the respective Specification. Absent
40 a lump sum breakdown, the Project Engineer will make a determination based on
41 information available. The Project Engineer's determination of the cost of work shall be
42 final.
43

44 Progress payments for completed work and material on hand will be based upon
45 progress estimates prepared by the Engineer. A progress estimate cutoff date will be
46 established at the preconstruction conference.
47

1 The initial progress estimate will be made not later than 30 days after the Contractor
2 commences the work, and successive progress estimates will be made every month
3 thereafter until the Completion Date. Progress estimates made during progress of the
4 work are tentative, and made only for the purpose of determining progress payments.
5 The progress estimates are subject to change at any time prior to the calculation of the
6 final payment.
7

8 The value of the progress estimate will be the sum of the following:

- 9 1. Unit Price Items in the Bid Form — the approximate quantity of acceptable units of
10 work completed multiplied by the unit price.
- 11 2. Lump Sum Items in the Bid Form — based on the approved Contractor's lump sum
12 breakdown for that item, or absent such a breakdown, based on the Engineer's
13 determination.
- 14 3. Materials on Hand — 100 percent of invoiced cost of material delivered to Job site
15 or other storage area approved by the Engineer.
- 16 4. Change Orders — entitlement for approved extra cost or completed extra work as
17 determined by the Engineer.
18

19 Progress payments will be made in accordance with the progress estimate less:

- 20 1. Retainage per Section 1-09.9(1), on non FHWA-funded projects;
- 21 2. The amount of progress payments previously made; and
- 22 3. Funds withheld by the Contracting Agency for disbursement in accordance with the
23 Contract Documents.
24

25 Progress payments for work performed shall not be evidence of acceptable performance
26 or an admission by the Contracting Agency that any work has been satisfactorily
27 completed. The determination of payments under the contract will be final in accordance
28 with Section 1-05.1.
29

30 **(January 1, 2016 COK GSP)**

31 Unless otherwise agreed to by both parties, the work period shall coincide with the
32 calendar month. A check will be mailed or made available to the Contractor no later than
33 thirty (30) days following the last day of the work period.
34

35 **1-09.11 Disputes and Claims**

36 **1-09.11(3) Time Limitation and Jurisdiction**

37 *(November 30, 2018 APWA GSP)*
38

39
40 Revise this section to read:
41

42 For the convenience of the parties to the Contract it is mutually agreed by the parties that
43 any claims or causes of action which the Contractor has against the Contracting Agency
44 arising from the Contract shall be brought within 180 calendar days from the date of final
45 acceptance (Section 1-05.12) of the Contract by the Contracting Agency; and it is further
46 agreed that any such claims or causes of action shall be brought only in the Superior Court
47 of the county where the Contracting Agency headquarters is located, provided that where
48 an action is asserted against a county, RCW 36.01.050 shall control venue and jurisdiction.

1 The parties understand and agree that the Contractor's failure to bring suit within the time
2 period provided, shall be a complete bar to any such claims or causes of action. It is
3 further mutually agreed by the parties that when any claims or causes of action which the
4 Contractor asserts against the Contracting Agency arising from the Contract are filed with
5 the Contracting Agency or initiated in court, the Contractor shall permit the Contracting
6 Agency to have timely access to any records deemed necessary by the Contracting
7 Agency to assist in evaluating the claims or action.

8
9 **1-09.13 Claims Resolution**

10 **(February 1, 2021 COK GSP)**

11 **1-09.13(3) Claims \$250,000 or Less**

12 Delete this Section and replace it with the following:

13 The Contractor and the Contracting Agency mutually agree that those claims that total
14 \$250,000 or less, submitted in accordance with Section 1-09.11 and not resolved by
15 nonbinding Alternative Dispute Resolution (ADR) processes, **provided Contracting**
16 **Agency agreed to engage such ADR processes**, shall be resolved through litigation
17 unless the parties mutually agree in writing to resolve the claim through binding
18 arbitration.

19 **1-09.13(3)A Administration of Arbitration**

20 *(November 30, 2018 APWA GSP)*

21

22 Revise the third paragraph to read:

23

24 The Contracting Agency and the Contractor mutually agree to be bound by the decision of
25 the arbitrator, and judgment upon the award rendered by the arbitrator may be entered in
26 the Superior Court of the county in which the Contracting Agency's headquarters is
27 located, provided that where claims subject to arbitration are asserted against a county,
28 RCW 36.01.050 shall control venue and jurisdiction of the Superior Court. The decision of
29 the arbitrator and the specific basis for the decision shall be in writing. The arbitrator shall
30 use the Contract as a basis for decisions.

31 **1-10 TEMPORARY TRAFFIC CONTROL**

32

33 **1-10.2 Traffic Control Management**

34

35 **1-10.2(1) General**

36

37 Section 1-10.2(1) is supplemented with the following:

38

39 (September 7, 2021)

40 The Traffic Control Supervisor shall be certified by one of the following:

41

42 The Northwest Laborers-Employers Training Trust
43 27055 Ohio Ave.
44 Kingston, WA 98346
45 (360) 297-3035
46 <https://www.nwlett.edu>

Evergreen Safety Council
12545 135th Ave. NE
Kirkland, WA 98034-8709
1-800-521-0778
<https://www.esc.org>

The American Traffic Safety Services Association
15 Riverside Parkway, Suite 100
Fredericksburg, Virginia 22406-1022
Training Dept. Toll Free (877) 642-4637
Phone: (540) 368-1701
<https://altssa.com/training>

Integrity Safety
13912 NE 20th Ave.
Vancouver WA 98686
(360) 574-6071
<https://www.integritysafety.com>

US Safety Alliance
(904) 705-5660
<https://www.ussafetyalliance.com>

1-10.2(2) Traffic Control Plans

(May 16, 2006 COK GSP)

The first and second sentences of Section 1-10.2(2) are deleted and replaced with the following:

The Contractor shall submit a traffic control plan or plans showing a method of handling traffic including pedestrian and bicycle traffic. All construction signs, flaggers, spotters and other traffic control devices shall be shown on the traffic control plan(s) except for emergency situations

Section 1-10.2(2) is supplemented with the following:

(*****)

It is the Contractor's responsibility to develop all traffic control plans for the project, the Contractor shall get approval by the City prior to implementation.

In general, traffic control plans for all stages of construction shall include:

- 1) All necessary construction signs, flaggers, spotters, uniformed officers, channelization and other traffic control devices required to support the work. The plans shall conform to the established standards for plan development as shown in the MUTCD, Part VI.
- 2) Plan sheets showing all existing traffic control devices and signs to be retained, relocated, or removed and all temporary traffic control devices to be installed, retained, relocated or removed.

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- 3) The spacing, size, and color (legend and background, if applicable) of all traffic control devices and signs.
- 4) Work areas including ingress and egress for construction vehicles.
- 5) Expected duration that traffic control will be in effect.
- 6) Roadway plan sheets with the location of each sign so it can be easily read in relation to the roadway and other traffic control devices. A small scale layout of each sign shall be shown adjacent to each sign callout on the plan.

Contractor shall install one City-provided informational sign at or near project's geographic limits. The informational sign will be a chloroplast or aluminum sign up to 72 Inches wide and 48 inches tall. The contractor will mount the chloroplast sign to a plywood sheet of the same size. This mounting can be skipped for aluminum signs. Contractor will install the sign by setting two 4" x 4" x 10' posts (per sign) 36" below grade, set apart consistent with the width of the sign, and backfilling with soil at a location agreed upon by the City and the Contractor. Secure the sign so the top is 7' above ground level. Contractor will remove at substantial completion.
- 7) Provisions for use of temporary guardrail, or temporary concrete barriers, or attenuators to satisfy the clear zone requirements and to protect the traveling public and Contractor's personnel including lateral displacement behind the barrier.
- 8) Method for covering or modifying signs when not applicable for the current phase.
- 9) Temporary markings shall include striping, intersection details, crosswalks and traffic delineators. Including the type and location of all pavement markings to be installed.
- 10) Typical sections covering each change in configuration including but not limited to: lane widths, number of lanes including direction of travel, barrier placement with shoulder distances provided, work zone and width of pedestrian and bicycle access through the work zone. Pedestrian and bicyclists access through the work zone shall meet the latest ADA requirements.
- 11) The traffic control plans shall be complete including all necessary details. Typical traffic control configurations such as those found in the MUTCD or WSDOT Standard Plans for local agencies may be used to assist in developing site specific traffic control plans. Typical plans are not acceptable unless incorporated as details in the approved plan.

12) All plans must be approved by the City prior to being used by the Contractor.

In addition to the above requirements the Contractor shall provide pedestrian traffic control plans. Pedestrians must be detoured around the work zone with complete detour signing for pedestrians or the Contractor may use flaggers to guide the pedestrians through the work zone. Traffic Control Plans shall include the following:

- 1) Blocking driveways and partial road intersections during asphalt paving shall consist of barricades or approved channelization devices.
- 2) Flaggers shall have radio contact due to the limited sight distance.
- 3) Set-ups greater than half (0.5) mile shall include pilot car traffic control. This cost shall be included in the lump sum bid item, "Project Temporary Traffic Control".
- 4) Advanced notification of lane closures shall be posted a minimum of 5 calendar days prior to the closure by installing R11-1501 signs in both directions on either side of the lane closure. This is above and beyond the PCMS.

The cost to produce the required traffic control plans shall be incidental to "Project Temporary Traffic Control", per lump sum.

1-10.3 Traffic Control Labor, Procedures, and Devices

(May 16, 2006 COK GSP)

1-10.3(1)B Other Traffic Control Labor

Section 1-10.3(1)B is supplemented with the following:

Off Duty Police

When construction activities occur at or near a signalized intersection, the Contractor shall provide an off-duty uniformed police officer to control the flow of traffic through the intersection. It is the Contractor's responsibility to coordinate the scheduling of the Uniformed Police Officer (UPO).

(April 18, 2018 COK GSP)

1-10.3(3)C Portable Changeable Message Sign

Supplement this section with the following:

Two Portable Changeable Message Signs (PCMS) shall be provided for the duration of the project. Proposed locations shall be shown on Traffic Control Plan(s) submitted by the contractor. Contractor shall submit proposed message(s) to be displayed and receive approval by the Engineer prior to placement. Contractor is responsible for programming of the approved message into the PCMS('s), set-up, placement, and removal upon project completion.

1 **1-10.4 Measurement**
2
3 **1-10.4(3) Reinstating Unit Items With Lump Sum Traffic Control**
4
5 (August 2, 2004)
6 The bid proposal contains the item “Project Temporary Traffic Control”, lump sum and
7 the additional temporary traffic control items listed below. The provisions of Section
8 1-10.4(1), Section 1-10.4(3), and Section 1-10.5(3) shall apply.
9
10 “Off-duty Uniformed Police Officer” will be by measured per hour for each hour
11 the off-duty uniformed police officer is performing work to control the flow of
12 traffic through signalized intersections affected by Contractor work.
13
14 “Flaggers”, per hour
15
16 “Portable Changeable Message Sign”, per each
17
18 **1-10.5 Payment**
19
20 **1-10.5(2) Item Bids with Lump Sum for Incidentals**
21
22 Section 1-10.5(2) is supplemented with the following:
23
24 **(May 16, 2006 COK GSP)**
25 “Off-duty Uniformed Police Officer”, per hour.
26 The unit contract price per hour for “Off-duty Uniformed Police Officer” shall be full pay for the
27 work described herein. No additional compensation will be made for hours of work on holidays,
28 weekends, or overtime.
29 (*****)
30 “Portable Changeable Message Sign”, per each
31 The unit contract price per each for “Portable Changeable Message Sign” shall be full
32 compensation for all costs incurred by the Contractor in performing the Work for
33 procuring, transporting, programming of the approved message into the PCMS(‘s), set-
34 up, placement, and removal upon project completion. The portable message sign shall
35 be provided for the duration of the project.

END OF DIVISON 1

Division 2

Earthwork

2-01 CLEARING, GRUBBING, AND ROADSIDE CLEANUP

2-01.1 Description

Section 2-01.1 is supplemented with the following:

(March 13, 1995)

Clearing and grubbing on this project shall be performed within the following limits:

- Within the cut and fill limits shown in the Plans and as needed for landscaping as shown in the plans or as directed by the Engineer.

(*****)

It is the Contractor's responsibility to visit the site prior to bidding the project. For clarity, not all trees, stumps, bushes and ground cover are shown on the plans. Payment for Clearing and Grubbing will include the removal of all trees regardless of size, stumps, bushes and landscape items per this section for all vegetation located within the limits stated herein or as shown on the plans and no additional compensation will be allowed.

2-01.2 Disposal of Usable Material and Debris

2-01.2(1) Disposal Method No. 1 – Open Burning

Section 2-01.2(1) is supplemented with the following:

(*****)

Open burning will not be permitted on this project.

(January 1, 2020 COK GSP)

2-01.3(1) Clearing

This Section is supplemented with the following:

7. Trees removal shall be performed in a manner that does not damage overhead utilities. The Contractor shall coordinate tree removal activities with the affected utility companies, including meeting all applicable requirements.

(January 1, 2020 COK GSP)

2-01.3(2) Grubbing

This Section is supplemented with the following:

3. Remove stumps of removed trees by grinding. Contractor shall grind stumps to a minimum of 6 inches below either the existing or final ground surface elevation, whichever is lower. The Contractor shall coordinate stump removal activities with the affected utility companies, including meeting all applicable requirements.

2-02 Removal of Structures and Obstructions

2-02.3 Construction Requirements

Section 2-02.3 is supplemented with the following:

(September 7, 2021)

Removal of Obstructions

The following miscellaneous Obstructions shall be removed and disposed of:

Remove Catch Basin Type 1	6 EA
Remove 12 In. Diam Storm Drain	50 LF
Remove Shed	1 EA
Remove and Restack Stone Wall	80 SF

Stone wall shall be removed and stacked on private property at a location within the parcel as directed by the Engineer. The Contractor shall contact the Engineer at least five working days prior to scheduled delivery of the items to confirm delivery arrangements.

(January 1, 2020 COK GSP)

Additional Construction Requirements at Locations Near Trees

At locations where the contractor will be working and exposing tree roots, the Contractor shall exercise extreme caution. The contractor shall notify the Inspector a minimum of 2 working days prior to removal of the existing sidewalk panels. Concrete panels in these areas shall be removed by breaking the existing concrete with a jackhammer or other means. Backhoes or other mechanical excavating equipment shall not be used to remove existing concrete in these areas. Care shall be taken during the sidewalk removal in order to not damage the tree roots. Hand tools (shovels, trowels, etc.) shall be used when working around the roots. If root trimming in these areas is unavoidable, it shall be performed per **Section 8-02** of these specifications. The City Inspector shall be on-site at all times during the concrete removal, excavation and base preparation and shall identify the extent of root trimming that is required.

2-02.3(3) Removal of Pavement, Sidewalks, Curbs, and Gutters

Section 2-02.3(3) is supplemented with the following:

(September 8, 1997)

The approximate thickness of the asphalt pavement is 3 to 6 inches.

(*****)

Sawcutting

Where sawcutting is required, the sawcut shall be 3 inches deep, minimum in asphalt paved areas. Where the existing asphalt pavement is more than 3 inches thick, the portion below the top 3 inches may be broken after the sawcut is made. Sawcuts shall be cleaned by the use of high pressure water (1,400 psi or greater), or another method as accepted by the Engineer.

Sawcutting within existing concrete sidewalk, curb and gutter and driveways shall be full depth vertical sawcut between the portion to be removed and that to remain. Care shall be taken to prevent damage to the existing pavement, curb and gutter, and sidewalk specified to remain. All damage to existing pavement, sidewalk, and curb and gutter specified to remain shall be repaired in accordance with Section 1-07.13.

The Contractor shall perform all sawcutting work, including all containment, collection and disposal of sawcutting debris and wastewater, in accordance with Section 1-07.5(3) and as supplemented in these Special Provisions.

Collection, Containment, and Disposal

Removal of residue and slurry from the immediate Roadway shall be done on a continuous basis. Residue and slurry shall not be allowed to drain across traffic lanes and shoulders or drain into any stormwater conveyance system, including catch basins, inlets, or ditches. Any discharge to surface waters, including wetlands, is a violation of State water quality standards.

The Contractor shall develop a Collection, Containment, and Disposal Plan identifying how the residue and slurry will be contained and collected. The residue and slurry shall become the property of the Contractor and shall be disposed of by hauling to a Contractor-provided disposal site.

The Contractor shall submit a Type 2 Working Drawing consisting of a Collection, Containment, and Disposal Plan, including, at a minimum, the following.

1. Collection, Containment, and Disposal Plan identifying all proposed methods to prevent discharges into the existing drainage systems.
2. Location of all off-site disposal sites, including copies of all applicable permits and approvals for the use of those sites.

2-02.3(4) Removal of Fencing

Section 2-02.3(4) is added with the following:

(*****)

Removing Wooden or Chain Link Fence

Where removing wooden fence or chain link fence is required, concrete post foundations shall be completely removed.

Temporary chain link fencing shall be installed to enclose yards behind high visibility silt fencing and where specified on plans where wooden fencing is removed until the permanent wood fence is installed. Temporary chain link fencing must be fastened to remaining fencing and fastened together to create a free-standing contiguous barrier to enclose the yard. The fence is to remain until the project is substantial complete or the Contractor or homeowner rebuilds the fence.

Construction Materials

Temporary chain link fencing shall generally consist of galvanized or vinyl coated diamond woven wire mesh mounted on a steel frame or frames at least 6' tall compliant with ASTM A392-06 standards. Fence posts for support are to be spaced to not exceed 12.5'. Three inch diameter fence posts will include temporary bases with metal flange or heavy weight anchoring systems or uncemented post embedded upon approval by the engineer.

2-02.4 Measurement

Section 2-02.4 is supplemented with the following:

1
2 (*****)
3 "Removal of Structures and Obstructions" lump sum Contract payment shall be full
4 compensations for all costs incurred by the Contractor to remove storm sewer pipe,
5 drainage structures, sheds and retaining wall stones and disposal of all debris or relocated
6 to private property. Contractor shall protect in place all pipes that remain that connect to
7 new drainage structures.
8
9 (*****)
10 "Sawcutting" will be measured by the linear foot of sawcut, along the line and grade of the
11 sawcut and the limits of the sawcut as shown in the Plans.
12
13 (*****)
14 "Removing Cement Conc. Sidewalk" will be measured by the square yard. Removing
15 sidewalk ADA ramps will be measured by the square yard and paid for under the bid item.
16 Removing Cement Conc. Sidewalk".
17
18 (*****)
19 "Removing Cement Conc. Curb and Gutter" will be measured by the linear foot.
20
21 (*****)
22 "Removing Wooden Fence" will be measured by the linear foot of fence removed.
23 Contractor shall protect in place all fence that is to remain. Contractor shall install end
24 post at the terminus of the fence that is to remain. The cost to install the end or corner
25 post and reattach the existing fence to remain shall be incidental to the cost of "Removing
26 Wooden Fence".
27
28 (*****)
29 "Temporary Chain Link Fence" will be measured by the lineal foot of fence installed.
30 Removal of the temporary chain link fence shall be incidental to this bid item.
31
32 (*****)
33 "Removing Chain Link Fence" will be measured by the linear foot of fence removed.
34 Contractor shall protect in place all fence that is to remain. Contractor shall install end
35 post at the terminus of the fence that is to remain and modify bracing to conform to the
36 shortened length. The cost to install the end or corner post, adjust bracing and reattach
37 the existing fence to remain shall be incidental to the cost of Removing Chain Link Fence"
38
39 (*****)
40 "Removing Asphalt Conc. Pavement" will be measured by the square yard.

41 **2-02.5 Payment**

42
43 Section 2-02.5 is supplemented with the following:

44
45 (*****)
46 "Removal of Structures and Obstructions", per lump sum, shall be full compensation for
47 all costs incurred by the Contractor to remove and dispose of sheds, storm sewer pipe
48 and drain structures with covers and providing any temporary traffic load protection
49 measures required or as directed by the Engineer. It shall also be full compensation for

1 all costs incurred by the Contractor to remove and restack the stone retaining wall at a
2 location determined by the Engineer.
3
4 (*****)
5 "Sawcutting" The unit contract price per linear foot for "Sawcutting" shall be full pay for
6 performing the work as specified, including containment, collection, and disposal of all
7 sawcutting debris, residue, slurry, and wastewater.
8
9 (*****)
10 "Removing Cement Conc. Sidewalk" per square yard. The unit contract price per square
11 yard for "Removing Cement Conc. Sidewalk" shall be full pay for performing the work as
12 specified and disposal of all debris.
13
14 (*****)
15 "Removing Wooden Fence", per linear foot. The unit contract price per linear foot for
16 "Removing Wooden Fence" shall be full pay for performing the work as specified and
17 disposal of all debris.
18
19 (*****)
20 "Temporary Chain Link Fence", per lineal foot. The unit contract price per lineal foot of
21 "Temporary Chain Link Fence" shall be full pay for labor, materials and equipment to
22 attach, brace, install and remove the fence.
23
24 (*****)
25 "Removing Chain Link Fence", per linear foot. The unit contract price per linear foot for
26 "Removing Chain Link Fence" shall be full pay for performing the work as specified and
27 disposal of all debris.
28
29 (*****)
30 "Removing Asphalt Conc. Pavement" per square yard. shall be full pay for performing the
31 work as specified and disposal of all debris.

32 **2-03 Roadway Excavation and Embankment**

33 **2-03.3 Construction Requirements**

34 **2-03.3(7) Disposal of Surplus Material**

35 Section 2-03.3(7) is supplemented with the following:

36 (*****)
37 A waste site has not been provided by the Engineer for the disposal and/or storage of
38 surplus materials and debris.
39
40 The Contractor shall haul all excess excavated material off site and dispose of it at a legal
41 disposal site at the Contractor's expense without additional payment.
42
43 The Contractor shall provide the Engineer with copies of permits for disposal of surplus
44 material and all forms included in the Bid Requirements section of this document within
45 ten (10) calendar days after award of the contract. The Engineer will review the permit(s)
46 and waste sites within fourteen (14) calendar days after receipt of the permits. The
47
48
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1 Contractor is responsible for obtaining all permits from the appropriate agency and to
2 follow all applicable local policies and ordinances.

3
4 If the disposal and/or storage site is rejected by the Engineer, the Contractor is
5 responsible for locating a new disposal or storage site that will meet the Contracting
6 Agency's criteria. Any costs incurred by the Contractor to meet this Section shall be at
7 the Contractor's expense and at no additional cost to the Contracting Agency.

8
9 No payment will be made for any related contract item until a site has been approved.

10 11 **2-03.3(14) Embankment Construction**

12 13 **2-03.3(14)C Compacting Earth Embankments**

14 Section 2-03.3(14)C is supplemented with the following:

15
16 (March 13, 1995)

17 All embankments, except waste embankments, shall be compacted using
18 Method A.

19 20 **2-03.4 Measurement**

21 Section 2-03.4 is supplemented with the following:

22
23 (March 13, 1995)

24 Only one determination of the original ground elevation will be made on this project.
25 Measurement for roadway excavation and embankment will be based on the original
26 ground elevations recorded previous to the award of this contract.

27
28 If discrepancies are discovered in the ground elevations which will materially affect the
29 quantities of earthwork, the original computations of earthwork quantities will be adjusted
30 accordingly.

31
32 Earthwork quantities will be computed, either manually or by means of electronic data
33 processing equipment, by use of the average end area method or by the finite element
34 analysis method utilizing digital terrain modeling techniques.

35
36 Copies of the ground cross-section notes will be available for the bidder's inspection,
37 before the opening of bids, at the Project Engineer's office and at the Region office.

38 Upon award of the contract, copies of the original ground cross-sections will be furnished
39 to the successful bidder on request to the Project Engineer.

40 41 **2-09 Structural Excavation**

42 43 **2-09.4 Measurement**

44 Section 2-09.4 is supplemented with the following:

45
46 (*****)

47 "Structural Excavation Class A" and "Structural Excavation Class B" will not be measured and
48 will be incidental to other bid item.

49 50 **2-09.5 Payment**

51 Section 2-09.5 is supplemented with the following:

1
2 (*****)
3 “Structural Excavation Class A” and “Structural Excavation Class B” will be incidental to other
4 bid item.
5
6
7
8 **END OF DIVISON 2**
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10

Division 3
Aggregate Production and Acceptance

3-01 Production From Quarry and Pit Sites

3-01.2 Material Sources, General Requirements

Section 3-01.2 is supplemented with the following:

(March 13, 1995)

Permits For Pit Operations In King County

The Contractor is advised that King County may require the Contractor to meet any or all of the following listed conditions before considering issuance of a temporary permit for pit operations within King County:

1. Security fences and locking gates shall be installed where deemed necessary by the King County Department of Building. Cable or wire gates are not acceptable.
2. Hours of operation shall be limited to: 7:00 a.m. to 7:00 p.m.
3. Access roads shall be improved and maintained to the satisfaction of the King County Department of Public Works. A haul road agreement for County road maintenance may be required.

All roads shall be swept, washed, or both, by the Contractor at the Contractor's expense as often as the Department of Building deems necessary.

Property shall have functional access to an arterial level street.

4. All operations will have to be approved by King County Flood Control for drainage plans, Washington State Department of Ecology, and Puget Sound Air Pollution Control Authority.

Those properties near or adjacent to any water body shall have written approval from the State of Washington Department of Fisheries.

The Contractor shall obtain a mining reclamation permit from the State of Washington Department of Natural Resources for sites of over three acres in size of disturbed land or resulting in pit walls more than thirty feet high and steeper than one to one slope.

5. No stockpiling of foreign excavated material is permitted on the site except for those materials to be used in the land rehabilitation of the subject property.
6. No signs other than signs required by Chapter 24.42, King County Zoning Code are authorized as a result of the temporary permit.
7. Plans required:

- a. Scale of Plot Plans

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Site Size:	less than 10 acres	1 inch = 50 feet
	10 to 100 acres	1 inch = 100 feet
	over 100 acres	1 inch = 200 feet

b. Contours

Show existing and proposed contours at 5-foot intervals. If existing and proposed contours are superimposed upon one another it must be clear as to which is which. Plans which incorporate a screening process may be required by the County to distinguish said contours.

Finished contours must show how the property can be used under the existing zoning. Plans showing daylighting of property to road grade or below with high 2:1 slope walls will no longer be permitted within the R, S, or G zones. The plans must contain large terraces which will permit the lot sizes and roads that are permitted within the zone.

c. Sections

Show a minimum of two sections in each direction.

d. Maximum Slope

Cuts shall not be steeper in slope than two horizontal to one vertical unless the owner furnishes a soils engineering or an engineering geology report certifying that the site has been investigated and indicating that the proposed deviation will not endanger any private property or result in the deposition of debris on any public way or interfere with any existing drainage course.

e. Fill Slopes

No fill shall be made which creates an exposed surface steeper in slope than two horizontal to one vertical.

f. Benches on Slopes

There shall be a 10 foot wide bench sloped into the hillside for every 50 feet in height.

g. Setbacks

Material and vegetation shall be left in its natural state:

50 feet from any FP, A, G, S, or R zoned property;

20 foot setback which includes a 6 foot high planted berm along any public right-of-way;

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20 feet from M, B, or CG zoned property;
10 feet from QM or FR zoned property.

Plans shall show type of vegetation existing within the buffer zones.

h. Drainage

All drainage facilities shall be designed to carry surface waters to the nearest practical street, storm drain, or natural water-course. Adequate provision shall be made to prevent any surface waters from damaging the face of an excavation or fill. All slopes shall be protected from surface water runoff from above by berms or swales.

The Contractor is further advised that King County may require conditions which are in addition to the foregoing list and that the County may reject permit applications at its discretion because of the proposed operations proximity to schools, residential neighborhoods, hospitals, arterials, or for other environmental conditions.

When there are discrepancies between the requirements of the State and the County the more stringent specifications shall apply.

Should the Contractor fail to comply with any requirements of a temporary permit obtained in the Contracting Agency's name, the Contracting Agency will take the necessary action to meet these requirements and any costs incurred by the Contracting Agency will be deducted from monies due or to become due the Contractor.

END OF DIVISON 3

Division 5
Surface Treatments and Pavements

5-04 Hot Mix Asphalt
(July 18, 2018 APWA GSP)

Delete Section 5-04 and amendments, Hot Mix Asphalt and replace it with the following:

5-04.1 Description

This Work shall consist of providing and placing one or more layers of plant-mixed hot mix asphalt (HMA) on a prepared foundation or base in accordance with these Specifications and the lines, grades, thicknesses, and typical cross-sections shown in the Plans. The manufacture of HMA may include warm mix asphalt (WMA) processes in accordance with these Specifications. WMA processes include organic additives, chemical additives, and foaming.

HMA shall be composed of asphalt binder and mineral materials as may be required, mixed in the proportions specified to provide a homogeneous, stable, and workable mixture.

5-04.2 Materials

Materials shall meet the requirements of the following sections:

Asphalt Binder	9-02.1(4)
Cationic Emulsified Asphalt	9-02.1(6)
Anti-Stripping Additive	9-02.4
HMA Additive	9-02.5
Aggregates	9-03.8
Recycled Asphalt Pavement	9-03.8(3)B
Mineral Filler	9-03.8(5)
Recycled Material	9-03.21
Portland Cement	9-01
Sand	9-03.1(2)
(As noted in 5-04.3(5)C for crack sealing)	
Joint Sealant	9-04.2
Foam Backer Rod	9-04.2(3)A

The Contract documents may establish that the various mineral materials required for the manufacture of HMA will be furnished in whole or in part by the Contracting Agency. If the documents do not establish the furnishing of any of these mineral materials by the Contracting Agency, the Contractor shall be required to furnish such materials in the amounts required for the designated mix. Mineral materials include coarse and fine aggregates, and mineral filler.

The Contractor may choose to utilize recycled asphalt pavement (RAP) in the production of HMA. The RAP may be from pavements removed under the Contract, if any, or pavement material from an existing stockpile.

1 The Contractor may use up to 20 percent RAP by total weight of HMA with no additional
2 sampling or testing of the RAP. The RAP shall be sampled and tested at a frequency of
3 one sample for every 1,000 tons produced and not less than ten samples per project.
4 The asphalt content and gradation test data shall be reported to the Contracting Agency
5 when submitting the mix design for approval on the QPL. The Contractor shall include
6 the RAP as part of the mix design as defined in these Specifications.

7
8 The grade of asphalt binder shall be as required by the Contract. Blending of asphalt
9 binder from different sources is not permitted.

10
11 The Contractor may only use warm mix asphalt (WMA) processes in the production of
12 HMA with 20 percent or less RAP by total weight of HMA. The Contractor shall submit to
13 the Engineer for approval the process that is proposed and how it will be used in the
14 manufacture of HMA.

15
16 Production of aggregates shall comply with the requirements of Section 3-01.
17 Preparation of stockpile site, the stockpiling of aggregates, and the removal of
18 aggregates from stockpiles shall comply with the requirements of Section 3-02.

19
20 **5-04.2(1) How to Get an HMA Mix Design on the QPL**

21 If the contractor wishes to submit a mix design for inclusion in the Qualified Products List
22 (QPL), please follow the WSDOT process outlined in Standard Specification 5-04.2(1).

23
24 **5-04.2(1)A Vacant**

25
26 **5-04.2(2) Mix Design – Obtaining Project Approval**

27 No paving shall begin prior to the approval of the mix design by the Engineer.

28
29 **Nonstatistical** evaluation will be used for all HMA not designated as Commercial HMA
30 in the contract documents.

31
32 **Commercial** evaluation will be used for Commercial HMA and for other classes of HMA
33 in the following applications: sidewalks, road approaches, ditches, slopes, paths, trails,
34 gores, prelevel, and pavement repair. Other nonstructural applications of HMA accepted
35 by commercial evaluation shall be as approved by the Project Engineer. Sampling and
36 testing of HMA accepted by commercial evaluation will be at the option of the Project
37 Engineer. The Proposal quantity of HMA that is accepted by commercial evaluation will
38 be excluded from the quantities used in the determination of nonstatistical evaluation.

39
40 **Nonstatistical Mix Design.** Fifteen days prior to the first day of paving the contractor
41 shall provide one of the following mix design verification certifications for Contracting
42 Agency review;

- 43
44
 - The WSDOT Mix Design Evaluation Report from the current WSDOT QPL, or
 - 45 one of the mix design verification certifications listed below.
 - 46 • The proposed HMA mix design on WSDOT Form 350-042 with the seal and
 - 47 certification (stamp & signature) of a valid licensed Washington State
 - 48 Professional Engineer.
 - 49 • The Mix Design Report for the proposed HMA mix design developed by a
 - 50 qualified City or County laboratory that is within one year of the approval date.**
 - 51

The mix design shall be performed by a lab accredited by a national authority such as Laboratory Accreditation Bureau, L-A-B for Construction Materials Testing, The Construction Materials Engineering Council (CMEC's) ISO 17025 or AASHTO Accreditation Program (AAP) and shall supply evidence of participation in the AASHTO: resource proficiency sample program.

Mix designs for HMA accepted by Nonstatistical evaluation shall;

- Have the aggregate structure and asphalt binder content determined in accordance with WSDOT Standard Operating Procedure 732 and meet the requirements of Sections 9-03.8(2), except that Hamburg testing for ruts and stripping are at the discretion of the Engineer, and 9-03.8(6).
- Have anti-strip requirements, if any, for the proposed mix design determined in accordance with AASHTO T 283 or T 324, or based on historic anti-strip and aggregate source compatibility from previous WSDOT lab testing.

At the discretion of the Engineer, agencies may accept verified mix designs older than 12 months from the original verification date with a certification from the Contractor that the materials and sources are the same as those shown on the original mix design.

Commercial Evaluation Approval of a mix design for "Commercial Evaluation" will be based on a review of the Contractor's submittal of WSDOT Form 350-042 (For commercial mixes, AASHTO T 324 evaluation is not required) or a Mix Design from the current WSDOT QPL or from one of the processes allowed by this section. Testing of the HMA by the Contracting Agency for mix design approval is not required.

For the Bid Item Commercial HMA, the Contractor shall select a class of HMA and design level of Equivalent Single Axle Loads (ESAL's) appropriate for the required use.

5-04.2(2)B Using Warm Mix Asphalt Processes

The Contractor may elect to use additives that reduce the optimum mixing temperature or serve as a compaction aid for producing HMA. Additives include organic additives, chemical additives and foaming processes. The use of Additives is subject to the following:

- Do not use additives that reduce the mixing temperature more than allowed in Section 5-04.3(6) in the production of mixtures.
- Before using additives, obtain the Engineer's approval using WSDOT Form 350-076 to describe the proposed additive and process.

5-04.3 Construction Requirements

5-04.3(1) Weather Limitations

Do not place HMA for wearing course on any Traveled Way beginning October 1st through March 31st of the following year without written concurrence from the Engineer.

Do not place HMA on any wet surface, or when the average surface temperatures are less than those specified below, or when weather conditions otherwise prevent the proper handling or finishing of the HMA.

1

Minimum Surface Temperature for Paving

Compacted Thickness (Feet)	Wearing Course	Other Courses
Less than 0.10	55°F	45°F
0.10 to .20	45°F	35°F
More than 0.20	35°F	35°F

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5-04.3(2) Paving Under Traffic

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When the Roadway being paved is open to traffic, the requirements of this Section shall apply.

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The Contractor shall keep intersections open to traffic at all times except when paving the intersection or paving across the intersection. During such time, and provided that there has been an advance warning to the public, the intersection may be closed for the minimum time required to place and compact the mixture. In hot weather, the Engineer may require the application of water to the pavement to accelerate the finish rolling of the pavement and to shorten the time required before reopening to traffic.

Before closing an intersection, advance warning signs shall be placed and signs shall also be placed marking the detour or alternate route.

During paving operations, temporary pavement markings shall be maintained throughout the project. Temporary pavement markings shall be installed on the Roadway prior to opening to traffic. Temporary pavement markings shall be in accordance with Section 8-23.

All costs in connection with performing the Work in accordance with these requirements, except the cost of temporary pavement markings, shall be included in the unit Contract prices for the various Bid items involved in the Contract.

5-04.3(3) Equipment**5-04.3(3)A Mixing Plant**

Plants used for the preparation of HMA shall conform to the following requirements:

1. **Equipment for Preparation of Asphalt Binder** – Tanks for the storage of asphalt binder shall be equipped to heat and hold the material at the required temperatures. The heating shall be accomplished by steam coils, electricity, or other approved means so that no flame shall be in contact with the storage tank. The circulating system for the asphalt binder shall be designed to ensure proper and continuous circulation during the operating period. A valve for the purpose of sampling the asphalt binder shall be placed in either the storage tank or in the supply line to the mixer.
2. **Thermometric Equipment** – An armored thermometer, capable of detecting temperature ranges expected in the HMA mix, shall be fixed in the asphalt binder feed line at a location near the charging valve at the mixer unit. The thermometer location shall be convenient and safe for access by Inspectors. The plant shall

also be equipped with an approved dial-scale thermometer, a mercury actuated thermometer, an electric pyrometer, or another approved thermometric instrument placed at the discharge chute of the drier to automatically register or indicate the temperature of the heated aggregates. This device shall be in full view of the plant operator.

3. **Heating of Asphalt Binder** – The temperature of the asphalt binder shall not exceed the maximum recommended by the asphalt binder manufacturer nor shall it be below the minimum temperature required to maintain the asphalt binder in a homogeneous state. The asphalt binder shall be heated in a manner that will avoid local variations in heating. The heating method shall provide a continuous supply of asphalt binder to the mixer at a uniform average temperature with no individual variations exceeding 25°F. Also, when a WMA additive is included in the asphalt binder, the temperature of the asphalt binder shall not exceed the maximum recommended by the manufacturer of the WMA additive.

4. **Sampling and Testing of Mineral Materials** – The HMA plant shall be equipped with a mechanical sampler for the sampling of the mineral materials. The mechanical sampler shall meet the requirements of Section 1-05.6 for the crushing and screening operation. The Contractor shall provide for the setup and operation of the field testing facilities of the Contracting Agency as provided for in Section 3-01.2(2).

5. **Sampling HMA** – The HMA plant shall provide for sampling HMA by one of the following methods:

- a. A mechanical sampling device attached to the HMA plant.
- b. Platforms or devices to enable sampling from the hauling vehicle without entering the hauling vehicle.

5-04.3(3)B Hauling Equipment

Trucks used for hauling HMA shall have tight, clean, smooth metal beds and shall have a cover of canvas or other suitable material of sufficient size to protect the mixture from adverse weather. Whenever the weather conditions during the work shift include, or are forecast to include, precipitation or an air temperature less than 45°F or when time from loading to unloading exceeds 30 minutes, the cover shall be securely attached to protect the HMA.

The contractor shall provide an environmentally benign means to prevent the HMA mixture from adhering to the hauling equipment. Excess release agent shall be drained prior to filling hauling equipment with HMA. Petroleum derivatives or other coating material that contaminate or alter the characteristics of the HMA shall not be used. For live bed trucks, the conveyer shall be in operation during the process of applying the release agent.

5-04.3(3)C Pavers

HMA pavers shall be self-contained, power-propelled units, provided with an internally heated vibratory screed and shall be capable of spreading and finishing courses of HMA plant mix material in lane widths required by the paving section shown in the Plans.

The HMA paver shall be in good condition and shall have the most current equipment available from the manufacturer for the prevention of segregation of the HMA mixture installed, in good condition, and in working order. The equipment certification shall list the make, model, and year of the paver and any equipment that has been retrofitted.

The screed shall be operated in accordance with the manufacturer's recommendations and shall effectively produce a finished surface of the required evenness and texture without tearing, shoving, segregating, or gouging the mixture. A copy of the manufacturer's recommendations shall be provided upon request by the Contracting Agency. Extensions will be allowed provided they produce the same results, including ride, density, and surface texture as obtained by the primary screed. Extensions without augers and an internally heated vibratory screed shall not be used in the Traveled Way.

When specified in the Contract, reference lines for vertical control will be required. Lines shall be placed on both outer edges of the Traveled Way of each Roadway. Horizontal control utilizing the reference line will be permitted. The grade and slope for intermediate lanes shall be controlled automatically from reference lines or by means of a mat referencing device and a slope control device. When the finish of the grade prepared for paving is superior to the established tolerances and when, in the opinion of the Engineer, further improvement to the line, grade, cross-section, and smoothness can best be achieved without the use of the reference line, a mat referencing device may be substituted for the reference line. Substitution of the device will be subject to the continued approval of the Engineer. A joint matcher may be used subject to the approval of the Engineer. The reference line may be removed after the completion of the first course of HMA when approved by the Engineer. Whenever the Engineer determines that any of these methods are failing to provide the necessary vertical control, the reference lines will be reinstalled by the Contractor.

The Contractor shall furnish and install all pins, brackets, tensioning devices, wire, and accessories necessary for satisfactory operation of the automatic control equipment.

If the paving machine in use is not providing the required finish, the Engineer may suspend Work as allowed by Section 1-08.6. Any cleaning or solvent type liquids spilled on the pavement shall be thoroughly removed before paving proceeds.

5-04.3(3)D Material Transfer Device or Material Transfer Vehicle

A Material Transfer Device/Vehicle (MTD/V) shall only be used with the Engineer's approval, unless other-wise required by the contract.

Where an MTD/V is required by the contract, the Engineer may approve paving without an MTD/V, at the request of the Contractor. The Engineer will determine if an equitable adjustment in cost or time is due.

When used, the MTD/V shall mix the HMA after delivery by the hauling equipment and prior to laydown by the paving machine. Mixing of the HMA shall be sufficient to obtain a uniform temperature throughout the mixture. If a windrow elevator is used, the length of the windrow may be limited in urban areas or through intersections, at the discretion of the Engineer.

To be approved for use, an MTV:

1. Shall be self-propelled vehicle, separate from the hauling vehicle or paver.
2. Shall not be connected to the hauling vehicle or paver.
3. May accept HMA directly from the haul vehicle or pick up HMA from a windrow.

4. Shall mix the HMA after delivery by the hauling equipment and prior to placement into the paving machine.
5. Shall mix the HMA sufficiently to obtain a uniform temperature throughout the mixture.

To be approved for use, an MTD:

1. Shall be positively connected to the paver.
2. May accept HMA directly from the haul vehicle or pick up HMA from a windrow.
3. Shall mix the HMA after delivery by the hauling equipment and prior to placement into the paving machine.
4. Shall mix the HMA sufficiently to obtain a uniform temperature throughout the mixture.

5-04.3(3)E Rollers

Rollers shall be of the steel wheel, vibratory, oscillatory, or pneumatic tire type, in good condition and capable of reversing without backlash. Operation of the roller shall be in accordance with the manufacturer's recommendations. When ordered by the Engineer for any roller planned for use on the project, the Contractor shall provide a copy of the manufacturer's recommendation for the use of that roller for compaction of HMA. The number and weight of rollers shall be sufficient to compact the mixture in compliance with the requirements of Section 5-04.3(10). The use of equipment that results in crushing of the aggregate will not be permitted. Rollers producing pickup, washboard, uneven compaction of the surface, displacement of the mixture or other undesirable results shall not be used.

5-04.3(4) Preparation of Existing Paved Surfaces

When the surface of the existing pavement or old base is irregular, the Contractor shall bring it to a uniform grade and cross-section as shown on the Plans or approved by the Engineer.

Preleveling of uneven or broken surfaces over which HMA is to be placed may be accomplished by using an asphalt paver, a motor patrol grader, or by hand raking, as approved by the Engineer.

Compaction of preleveling HMA shall be to the satisfaction of the Engineer and may require the use of small steel wheel rollers, plate compactors, or pneumatic rollers to avoid bridging across preleveled areas by the compaction equipment. Equipment used for the compaction of preleveling HMA shall be approved by the Engineer.

Before construction of HMA on an existing paved surface, the entire surface of the pavement shall be clean. All fatty asphalt patches, grease drippings, and other objectionable matter shall be entirely removed from the existing pavement. All pavements or bituminous surfaces shall be thoroughly cleaned of dust, soil, pavement grindings, and other foreign matter. All holes and small depressions shall be filled with an appropriate class of HMA. The surface of the patched area shall be leveled and compacted thoroughly. Prior to the application of tack coat, or paving, the condition of the surface shall be approved by the Engineer.

A tack coat of asphalt shall be applied to all paved surfaces on which any course of HMA is to be placed or abutted; except that tack coat may be omitted from clean, newly paved surfaces at the discretion of the Engineer. Tack coat shall be uniformly applied to cover the existing pavement with a thin film of residual asphalt free of streaks and bare spots at a rate between 0.02 and 0.10 gallons per square yard of retained asphalt. The rate of application shall be approved by the Engineer. A heavy application of tack coat shall be applied to all joints. For Roadways open to traffic, the application of tack coat shall be limited to surfaces that will be paved during the same working shift. The spreading equipment shall be equipped with a thermometer to indicate the temperature of the tack coat material.

Equipment shall not operate on tacked surfaces until the tack has broken and cured. If the Contractor's operation damages the tack coat it shall be repaired prior to placement of the HMA.

The tack coat shall be CSS-1, or CSS-1h emulsified asphalt. The CSS-1 and CSS-1h emulsified asphalt may be diluted once with water at a rate not to exceed one part water to one part emulsified asphalt. The tack coat shall have sufficient temperature such that it may be applied uniformly at the specified rate of application and shall not exceed the maximum temperature recommended by the emulsified asphalt manufacturer.

5-04.3(4)A Crack Sealing

5-04.3(4)A1 General

When the Proposal includes a pay item for crack sealing, seal all cracks ¼ inch in width and greater.

Cleaning: Ensure that cracks are thoroughly clean, dry and free of all loose and foreign material when filling with crack sealant material. Use a hot compressed air lance to dry and warm the pavement surfaces within the crack immediately prior to filling a crack with the sealant material. Do not overheat pavement. Do not use direct flame dryers. Routing cracks is not required.

Sand Slurry: For cracks that are to be filled with sand slurry, thoroughly mix the components and pour the mixture into the cracks until full. Add additional CSS-1 cationic emulsified asphalt to the sand slurry as needed for workability to ensure the mixture will completely fill the cracks. Strike off the sand slurry flush with the existing pavement surface and allow the mixture to cure. Top off cracks that were not completely filled with additional sand slurry. Do not place the HMA overlay until the slurry has fully cured.

The sand slurry shall consist of approximately 20 percent CSS-1 emulsified asphalt, approximately 2 percent portland cement, water (if required), and the remainder clean Class 1 or 2 fine aggregate per section 9-03.1(2). The components shall be thoroughly mixed and then poured into the cracks and joints until full. The following day, any cracks or joints that are not completely filled shall be topped off with additional sand slurry. After the sand slurry is placed, the filler shall be struck off flush with the existing pavement surface and allowed to cure. The HMA overlay shall not be placed until the slurry has fully cured. The requirements of Section 1-06 will not apply to the portland cement and sand used in the sand slurry.

In areas where HMA will be placed, use sand slurry to fill the cracks.

In areas where HMA will not be placed, fill the cracks as follows:

1. Cracks ¼ inch to 1 inch in width - fill with hot poured sealant.
2. Cracks greater than 1 inch in width – fill with sand slurry.

Hot Poured Sealant: For cracks that are to be filled with hot poured sealant, apply the material in accordance with these requirements and the manufacturer's recommendations. Furnish a Type 1 Working Drawing of the manufacturer's product information and recommendations to the Engineer prior to the start of work, including the manufacturer's recommended heating time and temperatures, allowable storage time and temperatures after initial heating, allowable reheating criteria, and application temperature range. Confine hot poured sealant material within the crack. Clean any overflow of sealant from the pavement surface. If, in the opinion of the Engineer, the Contractor's method of sealing the cracks with hot poured sealant results in an excessive amount of material on the pavement surface, stop and correct the operation to eliminate the excess material.

5-04.3(4)A2 Crack Sealing Areas Prior to Paving

In areas where HMA will be placed, use sand slurry to fill the cracks.

5-04.3(4)A3 Crack Sealing Areas Not to be Paved

In areas where HMA will not be placed, fill the cracks as follows:

- A. Cracks ¼ inch to 1 inch in width - fill with hot poured sealant.
- B. Cracks greater than 1 inch in width – fill with sand slurry.

5-04.3(4)B Vacant

5-04.3(4)C Pavement Repair

The Contractor shall excavate pavement repair areas and shall backfill these with HMA in accordance with the details shown in the Plans and as marked in the field. The Contractor shall conduct the excavation operations in a manner that will protect the pavement that is to remain. Pavement not designated to be removed that is damaged as a result of the Contractor's operations shall be repaired by the Contractor to the satisfaction of the Engineer at no cost to the Contracting Agency. The Contractor shall excavate only within one lane at a time unless approved otherwise by the Engineer. The Contractor shall not excavate more area than can be completely finished during the same shift, unless approved by the Engineer.

Unless otherwise shown in the Plans or determined by the Engineer, excavate to a depth of 1.0 feet. The Engineer will make the final determination of the excavation depth required. The minimum width of any pavement repair area shall be 40 inches unless shown otherwise in the Plans. Before any excavation, the existing pavement shall be sawcut or shall be removed by a pavement grinder. Excavated materials will become the property of the Contractor and shall be disposed of in a Contractor-provided site off the Right of Way or used in accordance with Sections 2-02.3(3) or 9-03.21.

Asphalt for tack coat shall be required as specified in Section 5-04.3(4). A heavy application of tack coat shall be applied to all surfaces of existing pavement in the pavement repair area.

1
2 Placement of the HMA backfill shall be accomplished in lifts not to exceed 0.35-foot
3 compacted depth. Lifts that exceed 0.35-foot of compacted depth may be accomplished
4 with the approval of the Engineer. Each lift shall be thoroughly compacted by a
5 mechanical tamper or a roller.
6

7 **5-04.3(5) Producing/Stockpiling Aggregates and RAP**

8 Aggregates and RAP shall be stockpiled according to the requirements of Section 3-02.
9 Sufficient storage space shall be provided for each size of aggregate and RAP. Materials
10 shall be removed from stockpile(s) in a manner to ensure minimal segregation when
11 being moved to the HMA plant for processing into the final mixture. Different aggregate
12 sizes shall be kept separated until they have been delivered to the HMA plant.
13

14 **5-04.3(5)A Vacant**

15 **5-04.3(6) Mixing**

16 After the required amount of mineral materials, asphalt binder, recycling agent and anti-
17 stripping additives have been introduced into the mixer the HMA shall be mixed until
18 complete and uniform coating of the particles and thorough distribution of the asphalt
19 binder throughout the mineral materials is ensured.
20

21
22 When discharged, the temperature of the HMA shall not exceed the optimum mixing
23 temperature by more than 25°F as shown on the reference mix design report or as
24 approved by the Engineer. Also, when a WMA additive is included in the manufacture of
25 HMA, the discharge temperature of the HMA shall not exceed the maximum
26 recommended by the manufacturer of the WMA additive. A maximum water content of 2
27 percent in the mix, at discharge, will be allowed providing the water causes no problems
28 with handling, stripping, or flushing. If the water in the HMA causes any of these
29 problems, the moisture content shall be reduced as directed by the Engineer.
30

31 Storing or holding of the HMA in approved storage facilities will be permitted with
32 approval of the Engineer, but in no event shall the HMA be held for more than 24 hours.
33 HMA held for more than 24 hours after mixing shall be rejected. Rejected HMA shall be
34 disposed of by the Contractor at no expense to the Contracting Agency. The storage
35 facility shall have an accessible device located at the top of the cone or about the third
36 point. The device shall indicate the amount of material in storage. No HMA shall be
37 accepted from the storage facility when the HMA in storage is below the top of the cone
38 of the storage facility, except as the storage facility is being emptied at the end of the
39 working shift.
40

41 Recycled asphalt pavement (RAP) utilized in the production of HMA shall be sized prior
42 to entering the mixer so that a uniform and thoroughly mixed HMA is produced. If there is
43 evidence of the recycled asphalt pavement not breaking down during the heating and
44 mixing of the HMA, the Contractor shall immediately suspend the use of the RAP until
45 changes have been approved by the Engineer. After the required amount of mineral
46 materials, RAP, new asphalt binder and asphalt rejuvenator have been introduced into
47 the mixer the HMA shall be mixed until complete and uniform coating of the particles and
48 thorough distribution of the asphalt binder throughout the mineral materials, and RAP is
49 ensured.
50

51 **5-04.3(7) Spreading and Finishing**

The mixture shall be laid upon an approved surface, spread, and struck off to the grade and elevation established. HMA pavers complying with Section 5-04.3(3) shall be used to distribute the mixture. Unless otherwise directed by the Engineer, the nominal compacted depth of any layer of any course shall not exceed the following:

HMA Class 1"	0.35 feet
HMA Class ¾" and HMA Class ½"	
wearing course	0.30 feet
other courses	0.35 feet
HMA Class ⅜"	0.15 feet

On areas where irregularities or unavoidable obstacles make the use of mechanical spreading and finishing equipment impractical, the paving may be done with other equipment or by hand.

When more than one JMF is being utilized to produce HMA, the material produced for each JMF shall be placed by separate spreading and compacting equipment. The intermingling of HMA produced from more than one JMF is prohibited. Each strip of HMA placed during a work shift shall conform to a single JMF established for the class of HMA specified unless there is a need to make an adjustment in the JMF.

5-04.3(8) Aggregate Acceptance Prior to Incorporation in HMA

For HMA accepted by nonstatistical evaluation the aggregate properties of sand equivalent, uncompacted void content and fracture will be evaluated in accordance with Section 3-04. Sampling and testing of aggregates for HMA accepted by commercial evaluation will be at the option of the Engineer.

5-04.3(9) HMA Mixture Acceptance

Acceptance of HMA shall be as provided under nonstatistical, or commercial evaluation.

Nonstatistical evaluation will be used for the acceptance of HMA unless Commercial Evaluation is specified.

Commercial evaluation will be used for Commercial HMA and for other classes of HMA in the following applications: sidewalks, road approaches, ditches, slopes, paths, trails, gores, prelevel, temporary pavement, and pavement repair. Other nonstructural applications of HMA accepted by commercial evaluation shall be as approved by the Engineer. Sampling and testing of HMA accepted by commercial evaluation will be at the option of the Engineer.

The mix design will be the initial JMF for the class of HMA. The Contractor may request a change in the JMF. Any adjustments to the JMF will require the approval of the Engineer and may be made in accordance with this section.

HMA Tolerances and Adjustments

- 1. Job Mix Formula Tolerances** – The constituents of the mixture at the time of acceptance shall be within tolerance. The tolerance limits will be established as follows:

For Asphalt Binder and Air Voids (Va), the acceptance limits are determined by adding the tolerances below to the approved JMF values. These values

will also be the Upper Specification Limit (USL) and Lower Specification Limit (LSL) required in Section 1-06.2(2)D2

Property	Non-Statistical Evaluation	Commercial Evaluation
Asphalt Binder	+/- 0.5%	+/- 0.7%
Air Voids, Va	2.5% min. and 5.5% max	N/A

For Aggregates in the mixture:

- a. First, determine preliminary upper and lower acceptance limits by applying the following tolerances to the approved JMF.

Aggregate Percent Passing	Non-Statistical Evaluation	Commercial Evaluation
1", ¾", ½", and 3/8" sieves	+/- 6%	+/- 8%
No. 4 sieve	+/- 6%	+/- 8%
No. 8 Sieve	+/- 6%	+/- 8%
No. 200 sieve	+/- 2.0%	+/- 3.0%

- b. Second, adjust the preliminary upper and lower acceptance limits determined from step (a) the minimum amount necessary so that none of the aggregate properties are outside the control points in Section 9-03.8(6). The resulting values will be the upper and lower acceptance limits for aggregates, as well as the USL and LSL required in Section 1-06.2(2)D2.

2. Job Mix Formula Adjustments – An adjustment to the aggregate gradation or asphalt binder content of the JMF requires approval of the Engineer. Adjustments to the JMF will only be considered if the change produces material of equal or better quality and may require the development of a new mix design if the adjustment exceeds the amounts listed below.

- a. **Aggregates** – 2 percent for the aggregate passing the 1½", 1", ¾", ½", ⅜", and the No. 4 sieves, 1 percent for aggregate passing the No. 8 sieve, and 0.5 percent for the aggregate passing the No. 200 sieve. The adjusted JMF shall be within the range of the control points in Section 9-03.8(6).

- b. **Asphalt Binder Content** – The Engineer may order or approve changes to asphalt binder content. The maximum adjustment from the approved mix design for the asphalt binder content shall be 0.3 percent

5-04.3(9)A Vacant

5-04.3(9)B Vacant

5-04.3(9)C Mixture Acceptance – Nonstatistical Evaluation

HMA mixture which is accepted by Nonstatistical Evaluation will be evaluated by the Contracting Agency by dividing the HMA tonnage into lots.

5-04.3(9)C1 Mixture Nonstatistical Evaluation – Lots and Sublots

A lot is represented by randomly selected samples of the same mix design that will be tested for acceptance. A lot is defined as the total quantity of material or work produced for each Job Mix Formula placed. Only one lot per JMF is expected. A subplot shall be

equal to one day's production or 800 tons, whichever is less except that the final subplot will be a minimum of 400 tons and may be increased to 1200 tons.

All of the test results obtained from the acceptance samples from a given lot shall be evaluated collectively. If the Contractor requests a change to the JMF that is approved, the material produced after the change will be evaluated on the basis of the new JMF for the remaining sublots in the current lot and for acceptance of subsequent lots. For a lot in progress with a CPF less than 0.75, a new lot will begin at the Contractor's request after the Engineer is satisfied that material conforming to the Specifications can be produced.

Sampling and testing for evaluation shall be performed on the frequency of one sample per subplot.

5-04.3(9)C2 Mixture Nonstatistical Evaluation Sampling

Samples for acceptance testing shall be obtained by the Contractor when ordered by the Engineer. The Contractor shall sample the HMA mixture in the presence of the Engineer and in accordance with AASH-TO T 168. A minimum of three samples should be taken for each class of HMA placed on a project. If used in a structural application, at least one of the three samples shall to be tested.

Sampling and testing HMA in a Structural application where quantities are less than 400 tons is at the discretion of the Engineer.

For HMA used in a structural application and with a total project quantity less than 800 tons but more than 400 tons, a minimum of one acceptance test shall be performed. In all cases, a minimum of 3 samples will be obtained at the point of acceptance, a minimum of one of the three samples will be tested for conformance to the JMF:

- If the test results are found to be within specification requirements, additional testing will be at the Engineer's discretion.
- If test results are found not to be within specification requirements, additional testing of the remaining samples to determine a Composite Pay Factor (CPF) shall be performed.

5-04.3(9)C3 Mixture Nonstatistical Evaluation – Acceptance Testing

Testing of HMA for compliance of V_a will at the option of the Contracting Agency. If tested, compliance of V_a will use WSDOT SOP 731.

Testing for compliance of asphalt binder content will be by WSDOT FOP for AASHTO T 308.

Testing for compliance of gradation will be by FOP for WAQTC T 27/T 11.

5-04.3(9)C4 Mixture Nonstatistical Evaluation – Pay Factors

For each lot of material falling outside the tolerance limits in 5-04.3(9), the Contracting Agency will determine a Composite Pay Factor (CPF) using the following price adjustment factors:

Table of Price Adjustment Factors	
Constituent	Factor "f"
All aggregate passing: 1½", 1", ¾", ½", ⅜" and No.4 sieves	2
All aggregate passing No. 8 sieve	15
All aggregate passing No. 200 sieve	20
Asphalt binder	40
Air Voids (Va) (where applicable)	20

Each lot of HMA produced under Nonstatistical Evaluation and having all constituents falling within the tolerance limits of the job mix formula shall be accepted at the unit Contract price with no further evaluation. When one or more constituents fall outside the nonstatistical tolerance limits in the Job Mix Formula shown in Table of Price Adjustment Factors, the lot shall be evaluated in accordance with Section 1-06.2 to determine the appropriate CPF. The nonstatistical tolerance limits will be used in the calculation of the CPF and the maximum CPF shall be 1.00. When less than three sublots exist, backup samples of the existing sublots or samples from the Roadway shall be tested to provide a minimum of three sets of results for evaluation.

5-04.3(9)C5 Vacant

5-04.3(9)C6 Mixture Nonstatistical Evaluation – Price Adjustments

For each lot of HMA mix produced under Nonstatistical Evaluation when the calculated CPF is less than 1.00, a Nonconforming Mix Factor (NCMF) will be determined. The NCMF equals the algebraic difference of CPF minus 1.00 multiplied by 60 percent. The total job mix compliance price adjustment will be calculated as the product of the NCMF, the quantity of HMA in the lot in tons, and the unit Contract price per ton of mix.

If a constituent is not measured in accordance with these Specifications, its individual pay factor will be considered 1.00 in calculating the Composite Pay Factor (CPF).

5-04.3(9)C7 Mixture Nonstatistical Evaluation - Retests

The Contractor may request a subplot be retested. To request a retest, the Contractor shall submit a written request within 7 calendar days after the specific test results have been received. A split of the original acceptance sample will be retested. The split of the sample will not be tested with the same tester that ran the original acceptance test. The sample will be tested for a complete gradation analysis, asphalt binder content, and, at the option of the agency, V_a . The results of the retest will be used for the acceptance of the HMA in place of the original subplot sample test results. The cost of testing will be deducted from any monies due or that may come due the Contractor under the Contract at the rate of \$500 per sample.

5-04.3 (9)D Mixture Acceptance – Commercial Evaluation

1 If sampled and tested, HMA produced under Commercial Evaluation and having all
2 constituents falling within the tolerance limits of the job mix formula shall be accepted at
3 the unit Contract price with no further evaluation. When one or more constituents fall
4 outside the commercial tolerance limits in the Job Mix Formula shown in 5-04.3(9), the
5 lot shall be evaluated in accordance with Section 1-06.2 to determine the appropriate
6 CPF. The commercial tolerance limits will be used in the calculation of the CPF and the
7 maximum CPF shall be 1.00. When less than three sublots exist, backup samples of the
8 existing sublots or samples from the street shall be tested to provide a minimum of three
9 sets of results for evaluation.

10
11 For each lot of HMA mix produced and tested under Commercial Evaluation when the
12 calculated CPF is less than 1.00, a Nonconforming Mix Factor (NCMF) will be
13 determined. The NCMF equals the algebraic difference of CPF minus 1.00 multiplied by
14 60 percent. The Job Mix Compliance Price Adjustment will be calculated as the product
15 of the NCMF, the quantity of HMA in the lot in tons, and the unit Contract price per ton of
16 mix.

17
18 If a constituent is not measured in accordance with these Specifications, its individual
19 pay factor will be considered 1.00 in calculating the Composite Pay Factor (CPF).

20 21 **5-04.3(10) HMA Compaction Acceptance**

22 HMA mixture accepted by nonstatistical evaluation that is used in traffic lanes, including
23 lanes for intersections, ramps, truck climbing, weaving, and speed change, and having a
24 specified compacted course thickness greater than 0.10-foot, shall be compacted to a
25 specified level of relative density. The specified level of relative density shall be a
26 Composite Pay Factor (CPF) of not less than 0.75 when evaluated in accordance with
27 Section 1-06.2, using a LSL of 92.0 (minimum of 92 percent of the maximum density).
28 The maximum density shall be determined by WSDOT FOP for AASHTO T 729. The
29 specified level of density attained will be determined by the evaluation of the density of
30 the pavement. The density of the pavement shall be determined in accordance with
31 WSDOT FOP for WAQTC TM 8, except that gauge correlation will be at the discretion of
32 the Engineer, when using the nuclear density gauge and WSDOT SOP 736 when using
33 cores to determine density.

34
35 Tests for the determination of the pavement density will be taken in accordance with the
36 required procedures for measurement by a nuclear density gauge or roadway cores after
37 completion of the finish rolling.

38
39 If the Contracting Agency uses a nuclear density gauge to determine density the test
40 procedures FOP for WAQTC TM 8 and WSDOT SOP T 729 will be used on the day the
41 mix is placed and prior to opening to traffic.

42
43 Roadway cores for density may be obtained by either the Contracting Agency or the
44 Contractor in accordance with WSDOT SOP 734. The core diameter shall be 4-inches
45 minimum, unless otherwise approved by the Engineer. Roadway cores will be tested by
46 the Contracting Agency in accordance with WSDOT FOP for AASHTO T 166.

47
48 If the Contract includes the Bid item "Roadway Core" the cores shall be obtained by the
49 Contractor in the presence of the Engineer on the same day the mix is placed and at
50 locations designated by the Engineer. If the Contract does not include the Bid item
51 "Roadway Core" the Contracting Agency will obtain the cores.

For a lot in progress with a CPF less than 0.75, a new lot will begin at the Contractor's request after the Engineer is satisfied that material conforming to the Specifications can be produced.

HMA mixture accepted by commercial evaluation and HMA constructed under conditions other than those listed above shall be compacted on the basis of a test point evaluation of the compaction train. The test point evaluation shall be performed in accordance with instructions from the Engineer. The number of passes with an approved compaction train, required to attain the maximum test point density, shall be used on all subsequent paving.

HMA for preleveling shall be thoroughly compacted. HMA that is used for preleveling wheel rutting shall be compacted with a pneumatic tire roller unless otherwise approved by the Engineer.

Test Results

For a subplot that has been tested with a nuclear density gauge that did not meet the minimum of 92 percent of the reference maximum density in a compaction lot with a CPF below 1.00 and thus subject to a price reduction or rejection, the Contractor may request that a core be used for determination of the relative density of the subplot. The relative density of the core will replace the relative density determined by the nuclear density gauge for the subplot and will be used for calculation of the CPF and acceptance of HMA compaction lot.

When cores are taken by the Contracting Agency at the request of the Contractor, they shall be requested by noon of the next workday after the test results for the subplot have been provided or made available to the Contractor. Core locations shall be outside of wheel paths and as determined by the Engineer. Traffic control shall be provided by the Contractor as requested by the Engineer. Failure by the Contractor to provide the requested traffic control will result in forfeiture of the request for cores. When the CPF for the lot based on the results of the HMA cores is less than 1.00, the cost for the coring will be deducted from any monies due or that may become due the Contractor under the Contract at the rate of \$200 per core and the Contractor shall pay for the cost of the traffic control.

5-04.3(10)A HMA Compaction – General Compaction Requirements

Compaction shall take place when the mixture is in the proper condition so that no undue displacement, cracking, or shoving occurs. Areas inaccessible to large compaction equipment shall be compacted by other mechanical means. Any HMA that becomes loose, broken, contaminated, shows an excess or deficiency of asphalt, or is in any way defective, shall be removed and replaced with new hot mix that shall be immediately compacted to conform to the surrounding area.

The type of rollers to be used and their relative position in the compaction sequence shall generally be the Contractor's option, provided the specified densities are attained. Unless the Engineer has approved otherwise, rollers shall only be operated in the static mode when the internal temperature of the mix is less than 175°F. Regardless of mix temperature, a roller shall not be operated in a mode that results in checking or cracking of the mat. Rollers shall only be operated in static mode on bridge decks.

1 **5-04.3(10)B HMA Compaction – Cyclic Density**

2 Low cyclic density areas are defined as spots or streaks in the pavement that are less
3 than 90 percent of the theoretical maximum density. At the Engineer's discretion, the
4 Engineer may evaluate the HMA pavement for low cyclic density, and when doing so will
5 follow WSDOT SOP 733. A \$500 Cyclic Density Price Adjustment will be assessed for
6 any 500-foot section with two or more density readings below 90 percent of the
7 theoretical maximum density.

8
9 **5-04.3(10)C Vacant**

10
11 **5-04.3(10)D HMA Nonstatistical Compaction**

12
13 **5-04.3(10)D1 HMA Nonstatistical Compaction – Lots and Sublots**

14 HMA compaction which is accepted by nonstatistical evaluation will be based on
15 acceptance testing performed by the Contracting Agency dividing the project into
16 compaction lots.

17
18 A lot is represented by randomly selected samples of the same mix design that will be
19 tested for acceptance. A lot is defined as the total quantity of material or work produced
20 for each Job Mix Formula placed. Only one lot per JMF is expected. A subplot shall be
21 equal to one day's production or 400 tons, whichever is less except that the final subplot
22 will be a minimum of 200 tons and may be increased to 800 tons. Testing for compaction
23 will be at the rate of 5 tests per subplot per WSDOT T 738.

24
25 The subplot locations within each density lot will be determined by the Engineer. For a lot
26 in progress with a CPF less than 0.75, a new lot will begin at the Contractor's request
27 after the Engineer is satisfied that material conforming to the Specifications can be
28 produced.

29
30 HMA mixture accepted by commercial evaluation and HMA constructed under conditions
31 other than those listed above shall be compacted on the basis of a test point evaluation
32 of the compaction train. The test point evaluation shall be performed in accordance with
33 instructions from the Engineer. The number of passes with an approved compaction
34 train, required to attain the maximum test point density, shall be used on all subsequent
35 paving.

36
37 HMA for preleveling shall be thoroughly compacted. HMA that is used to prelevel wheel
38 ruts shall be compacted with a pneumatic tire roller unless otherwise approved by the
39 Engineer.

40
41 **5-04.3(10)D2 HMA Compaction Nonstatistical Evaluation – Acceptance Testing**

42 The location of the HMA compaction acceptance tests will be randomly selected by the
43 Engineer from within each subplot, with one test per subplot.

44
45 **5-04.3(10)D3 HMA Nonstatistical Compaction – Price Adjustments**

46 For each compaction lot with one or two sublots, having all sublots attain a relative
47 density that is 92 percent of the reference maximum density the HMA shall be accepted
48 at the unit Contract price with no further evaluation. When a subplot does not attain a
49 relative density that is 92 percent of the reference maximum density, the lot shall be
50 evaluated in accordance with Section 1-06.2 to determine the appropriate CPF. The
51 maximum CPF shall be 1.00, however, lots with a calculated CPF in excess of 1.00 will

be used to offset lots with CPF values below 1.00 but greater than 0.90. Lots with CPF lower than 0.90 will be evaluated for compliance per 5-04.3(11). Additional testing by either a nuclear moisture-density gauge or cores will be completed as required to provide a minimum of three tests for evaluation.

For compaction below the required 92% a Non-Conforming Compaction Factor (NCCF) will be determined. The NCCF equals the algebraic difference of CPF minus 1.00 multiplied by 40 percent. The Compaction Price Adjustment will be calculated as the product of CPF, the quantity of HMA in the compaction control lot in tons, and the unit Contract price per ton of mix.

5-04.3(11) Reject Work

5-04.3(11)A Reject Work General

Work that is defective or does not conform to Contract requirements shall be rejected. The Contractor may propose, in writing, alternatives to removal and replacement of rejected material. Acceptability of such alternative proposals will be determined at the sole discretion of the Engineer. HMA that has been rejected is subject to the requirements in Section 1-06.2(2) and this specification, and the Contractor shall submit a corrective action proposal to the Engineer for approval.

5-04.3(11)B Rejection by Contractor

The Contractor may, prior to sampling, elect to remove any defective material and replace it with new material. Any such new material will be sampled, tested, and evaluated for acceptance.

5-04.3(11)C Rejection Without Testing (Mixture or Compaction)

The Engineer may, without sampling, reject any batch, load, or section of Roadway that appears defective. Material rejected before placement shall not be incorporated into the pavement. Any rejected section of Roadway shall be removed.

No payment will be made for the rejected materials or the removal of the materials unless the Contractor requests that the rejected material be tested. If the Contractor elects to have the rejected material tested, a minimum of three representative samples will be obtained and tested. Acceptance of rejected material will be based on conformance with the nonstatistical acceptance Specification. If the CPF for the rejected material is less than 0.75, no payment will be made for the rejected material; in addition, the cost of sampling and testing shall be borne by the Contractor. If the CPF is greater than or equal to 0.75, the cost of sampling and testing will be borne by the Contracting Agency. If the material is rejected before placement and the CPF is greater than or equal to 0.75, compensation for the rejected material will be at a CPF of 0.75. If rejection occurs after placement and the CPF is greater than or equal to 0.75, compensation for the rejected material will be at the calculated CPF with an addition of 25 percent of the unit Contract price added for the cost of removal and disposal.

5-04.3(11)D Rejection - A Partial Sublot

In addition to the random acceptance sampling and testing, the Engineer may also isolate from a normal sublot any material that is suspected of being defective in relative density, gradation or asphalt binder content. Such isolated material will not include an original sample location. A minimum of three random samples of the suspect material will

be obtained and tested. The material will then be statistically evaluated as an independent lot in accordance with Section 1-06.2(2).

5-04.3(11)E Rejection - An Entire Sublot

An entire sublot that is suspected of being defective may be rejected. When a sublot is rejected a minimum of two additional random samples from this sublot will be obtained. These additional samples and the original sublot will be evaluated as an independent lot in accordance with Section 1-06.2(2).

5-04.3(11)F Rejection - A Lot in Progress

The Contractor shall shut down operations and shall not resume HMA placement until such time as the Engineer is satisfied that material conforming to the Specifications can be produced:

1. When the Composite Pay Factor (CPF) of a lot in progress drops below 1.00 and the Contractor is taking no corrective action, or
2. When the Pay Factor (PF) for any constituent of a lot in progress drops below 0.95 and the Contractor is taking no corrective action, or
3. When either the PFI for any constituent or the CPF of a lot in progress is less than 0.75.

5-04.3(11)G Rejection - An Entire Lot (Mixture or Compaction)

An entire lot with a CPF of less than 0.75 will be rejected.

5-04.3(12) Joints

5-04.3(12)A HMA Joints

5-04.3(12)A1 Transverse Joints

The Contractor shall conduct operations such that the placing of the top or wearing course is a continuous operation or as close to continuous as possible. Unscheduled transverse joints will be allowed and the roller may pass over the unprotected end of the freshly laid mixture only when the placement of the course must be discontinued for such a length of time that the mixture will cool below compaction temperature. When the Work is resumed, the previously compacted mixture shall be cut back to produce a slightly beveled edge for the full thickness of the course.

A temporary wedge of HMA constructed on a 20H:1V shall be constructed where a transverse joint as a result of paving or planing is open to traffic. The HMA in the temporary wedge shall be separated from the permanent HMA by strips of heavy wrapping paper or other methods approved by the Engineer. The wrapping paper shall be removed and the joint trimmed to a slightly beveled edge for the full thickness of the course prior to resumption of paving.

The material that is cut away shall be wasted and new mix shall be laid against the cut. Rollers or tamping irons shall be used to seal the joint.

5-04.3(12)A2 Longitudinal Joints

The longitudinal joint in any one course shall be offset from the course immediately below by not more than 6 inches nor less than 2 inches. All longitudinal joints constructed in the wearing course shall be located at a lane line or an edge line of the

Traveled Way. A notched wedge joint shall be constructed along all longitudinal joints in the wearing surface of new HMA unless otherwise approved by the Engineer. The notched wedge joint shall have a vertical edge of not less than the maximum aggregate size or more than ½ of the compacted lift thickness and then taper down on a slope not steeper than 4H:1V. The sloped portion of the HMA notched wedge joint shall be uniformly compacted.

5-04.3(12)B Bridge Paving Joint Seals

5-04.3(12)B1 HMA Sawcut and Seal

Prior to placing HMA on the bridge deck, establish sawcut alignment points at both ends of the bridge paving joint seals to be placed at the bridge ends, and at interior joints within the bridge deck when and where shown in the Plans. Establish the sawcut alignment points in a manner that they remain functional for use in aligning the sawcut after placing the overlay.

Submit a Type 1 Working Drawing consisting of the sealant manufacturer's application procedure.

Construct the bridge paving joint seal as specified on the Plans and in accordance with the detail shown in the Standard Plans. Construct the sawcut in accordance with the detail shown in the Standard Plan. Construct the sawcut in accordance with Section 5-05.3(8)B and the manufacturer's application procedure.

5-04.3(12)B2 Paved Panel Joint Seal

Construct the paved panel joint seal in accordance with the requirements specified in section 5-04.3(12)B1 and the following requirement:

1. Clean and seal the existing joint between concrete panels in accordance with Section 5-01.3(8) and the details shown in the Standard Plans.

5-04.3(13) Surface Smoothness

The completed surface of all courses shall be of uniform texture, smooth, uniform as to crown and grade, and free from defects of all kinds. The completed surface of the wearing course shall not vary more than ¼ inch from the lower edge of a 10-foot straightedge placed on the surface parallel to the centerline. The transverse slope of the completed surface of the wearing course shall vary not more than ¼ inch in 10 feet from the rate of transverse slope shown in the Plans.

When deviations in excess of the above tolerances are found that result from a high place in the HMA, the pavement surface shall be corrected by one of the following methods:

1. Removal of material from high places by grinding with an approved grinding machine, or
2. Removal and replacement of the wearing course of HMA, or
3. By other method approved by the Engineer.

Correction of defects shall be carried out until there are no deviations anywhere greater than the allowable tolerances.

Deviations in excess of the above tolerances that result from a low place in the HMA and deviations resulting from a high place where corrective action, in the opinion of the Engineer, will not produce satisfactory results will be accepted with a price adjustment. The Engineer shall deduct from monies due or that may become due to the Contractor the sum of \$500.00 for each and every section of single traffic lane 100 feet in length in which any excessive deviations described above are found.

When utility appurtenances such as manhole covers and valve boxes are located in the traveled way, the utility appurtenances shall be adjusted to the finished grade prior to paving. This requirement may be waived when requested by the Contractor, at the discretion of the Engineer or when the adjustment details provided in the project plan or specifications call for utility appurtenance adjustments after the completion of paving.

Utility appurtenance adjustment discussions will be included in the Pre-Paving planning (5-04.3(14)B3). Submit a written request to waive this requirement to the Engineer prior to the start of paving.

5-04.3(14) Planing (Milling) Bituminous Pavement

The planning plan must be approved by the Engineer and a pre planning meeting must be held prior to the start of any planing. See Section 5-04.3(14)B2 for information on planning submittals.

Locations of existing surfacing to be planed are as shown in the Drawings.

Where planing an existing pavement is specified in the Contract, the Contractor must remove existing surfacing material and to reshape the surface to remove irregularities. The finished product must be a prepared surface acceptable for receiving an HMA overlay.

Use the cold milling method for planing unless otherwise specified in the Contract. Do not use the planer on the final wearing course of new HMA.

Conduct planing operations in a manner that does not tear, break, burn, or otherwise damage the surface which is to remain. The finished planed surface must be slightly grooved or roughened and must be free from gouges, deep grooves, ridges, or other imperfections. The Contractor must repair any damage to the surface by the Contractor's planing equipment, using an Engineer approved method.

Repair or replace any metal castings and other surface improvements damaged by planing, as determined by the Engineer.

A tapered wedge cut must be planed longitudinally along curb lines sufficient to provide a minimum of 4 inches of curb reveal after placement and compaction of the final wearing course. The dimensions of the wedge must be as shown on the Drawings or as specified by the Engineer.

A tapered wedge cut must also be made at transitions to adjoining pavement surfaces (meet lines) where butt joints are shown on the Drawings. Cut butt joints in a straight line with vertical faces 2 inches or more in height, producing a smooth transition to the existing adjoining pavement.

1 After planing is complete, planed surfaces must be swept, cleaned, and if required by the
2 Contract, patched and preleveled.

3
4 The Engineer may direct additional depth planing. Before performing this additional
5 depth planing, the Contractor must conduct a hidden metal in pavement detection survey
6 as specified in Section 5-04.3(14)A.

7
8 Section 5-04.3(14) is supplemented with the following:
9

10 (January 5, 2004)

11 The Contractor shall perform the planing operations no more than three (3) calendar
12 days ahead of the time the planed area is to be paved with HMA, unless otherwise
13 allowed by the Engineer in writing.

14
15 **5-04.3(14)A Pre-Planing Metal Detection Check**

16 Before starting planing of pavements, and before any additional depth planing required
17 by the Engineer, the Contractor must conduct a physical survey of existing pavement to
18 be planed with equipment that can identify hidden metal objects.

19
20 Should such metal be identified, promptly notify the Engineer.

21
22 See Section 1-07.16(1) regarding the protection of survey monumentation that may be
23 hidden in pavement.

24
25 The Contractor is solely responsible for any damage to equipment resulting from the
26 Contractor's failure to conduct a pre-planing metal detection survey, or from the
27 Contractor's failure to notify the Engineer of any hidden metal that is detected.

28
29 **5-04.3(14)B Paving and Planing Under Traffic**

30
31 **5-04.3(14)B1 General**

32 In addition the requirements of Section 1-07.23 and the traffic controls required in
33 Section 1-10, and unless the Contract specifies otherwise or the Engineer approves, the
34 Contractor must comply with the following:

35
36 1. Intersections:

- 37 a. Keep intersections open to traffic at all times, except when paving or planing
38 operations through an intersection requires closure. Such closure must be kept
39 to the minimum time required to place and compact the HMA mixture, or plane
40 as appropriate. For paving, schedule such closure to individual lanes or portions
41 thereof that allows the traffic volumes and schedule of traffic volumes required in
42 the approved traffic control plan. Schedule work so that adjacent intersections
43 are not impacted at the same time and comply with the traffic control restrictions
44 required by the Traffic Engineer. Each individual intersection closure or partial
45 closure, must be addressed in the traffic control plan, which must be submitted
46 to and accepted by the Engineer, see Section 1-10.2(2).
47 b. When planing or paving and related construction must occur in an intersection,
48 consider scheduling and sequencing such work into quarters of the intersection,
49 or half or more of an intersection with side street detours. Be prepared to
50 sequence the work to individual lanes or portions thereof.

- c. Should closure of the intersection in its entirety be necessary, and no trolley service is impacted, keep such closure to the minimum time required to place and compact the HMA mixture, plane, remove asphalt, tack coat, and as needed.
 - d. Any work in an intersection requires advance warning in both signage and a number of Working Days advance notice as determined by the Engineer, to alert traffic and emergency services of the intersection closure or partial closure.
 - e. Allow new compacted HMA asphalt to cool to ambient temperature before any traffic is allowed on it. Traffic is not allowed on newly placed asphalt until approval has been obtained from the Engineer.
2. Temporary centerline marking, post-paving temporary marking, temporary stop bars, and maintaining temporary pavement marking must comply with Section 8-23.
 3. Permanent pavement marking must comply with Section 8-22.

5-04.3(14)B2 Submittals – Planing Plan and HMA Paving Plan

The Contractor must submit a separate planing plan and a separate paving plan to the Engineer at least 5 Working Days in advance of each operation's activity start date. These plans must show how the moving operation and traffic control are coordinated, as they will be discussed at the pre-planing briefing and pre-paving briefing. When requested by the Engineer, the Contractor must provide each operation's traffic control plan on 24 x 36 inch or larger size Shop Drawings with a scale showing both the area of operation and sufficient detail of traffic beyond the area of operation where detour traffic may be required. The scale on the Shop Drawings is 1 inch = 20 feet, which may be changed if the Engineer agrees sufficient detail is shown.

The planing operation and the paving operation include, but are not limited to, metal detection, removal of asphalt and temporary asphalt of any kind, tack coat and drying, staging of supply trucks, paving trains, rolling, scheduling, and as may be discussed at the briefing.

When intersections will be partially or totally blocked, provide adequately sized and noticeable signage alerting traffic of closures to come, a minimum 2 Working Days in advance. The traffic control plan must show where police officers will be stationed when signalization is or may be, countermanded, and show areas where flaggers are proposed.

At a minimum, the planing and the paving plan must include:

1. A copy of the accepted traffic control plan, see Section 1-10.2(2), detailing each day's traffic control as it relates to the specific requirements of that day's planing and paving. Briefly describe the sequencing of traffic control consistent with the proposed planing and paving sequence, and scheduling of placement of temporary pavement markings and channelizing devices after each day's planing, and paving.
2. A copy of each intersection's traffic control plan.
3. Haul routes from Supplier facilities, and locations of temporary parking and staging areas, including return routes. Describe the complete round trip as it relates to the sequencing of paving operations.
4. Names and locations of HMA Supplier facilities to be used.
5. List of all equipment to be used for paving.

6. List of personnel and associated job classification assigned to each piece of paving equipment.
7. Description (geometric or narrative) of the scheduled sequence of planing and of paving, and intended area of planing and of paving for each day's work, must include the directions of proposed planing and of proposed paving, sequence of adjacent lane paving, sequence of skipped lane paving, intersection planing and paving scheduling and sequencing, and proposed notifications and coordinations to be timely made. The plan must show HMA joints relative to the final pavement marking lane lines.
8. Names, job titles, and contact information for field, office, and plant supervisory personnel.
9. A copy of the approved Mix Designs.
10. Tonnage of HMA to be placed each day.
11. Approximate times and days for starting and ending daily operations.

5-04.3(14)B3 Pre-Paving and Pre-Planing Briefing

At least 2 Working Days before the first paving operation and the first planing operation, or as scheduled by the Engineer for future paving and planing operations to ensure the Contractor has adequately prepared for notifying and coordinating as required in the Contract, the Contractor must be prepared to discuss that day's operations as they relate to other entities and to public safety and convenience, including driveway and business access, garbage truck operations, Metro transit operations and working around energized overhead wires, school and nursing home and hospital and other accesses, other contractors who may be operating in the area, pedestrian and bicycle traffic, and emergency services. The Contractor, and Subcontractors that may be part of that day's operations, must meet with the Engineer and discuss the proposed operation as it relates to the submitted planing plan and paving plan, approved traffic control plan, and public convenience and safety. Such discussion includes, but is not limited to:

1. General for both Paving Plan and for Planing Plan:
 - a. The actual times of starting and ending daily operations.
 - b. In intersections, how to break up the intersection, and address traffic control and signalization for that operation, including use of peace officers.
 - c. The sequencing and scheduling of paving operations and of planing operations, as applicable, as it relates to traffic control, to public convenience and safety, and to other contractors who may operate in the Project Site.
 - d. Notifications required of Contractor activities, and coordinating with other entities and the public as necessary.
 - e. Description of the sequencing of installation and types of temporary pavement markings as it relates to planning and to paving.
 - f. Description of the sequencing of installation of, and the removal of, temporary pavement patch material around exposed castings and as may be needed
 - g. Description of procedures and equipment to identify hidden metal in the pavement, such as survey monumentation, monitoring wells, street car rail, and castings, before planning, see Section 5-04.3(14)B2.
 - h. Description of how flaggers will be coordinated with the planing, paving, and related operations.
 - i. Description of sequencing of traffic controls for the process of rigid pavement base repairs.
 - j. Other items the Engineer deems necessary to address.

2. Paving – additional topics:

- a. When to start applying tack and coordinating with paving.
- b. Types of equipment and numbers of each type equipment to be used. If more pieces of equipment than personnel are proposed, describe the sequencing of the personnel operating the types of equipment. Discuss the continuance of operator personnel for each type equipment as it relates to meeting Specification requirements.
- c. Number of JMFs to be placed, and if more than one JMF how the Contractor will ensure different JMFs are distinguished, how pavers and MTVs are distinguished if more than one JMF is being placed at the time, and how pavers and MTVs are cleaned so that one JMF does not adversely influence the other JMF.
- d. Description of contingency plans for that day's operations such as equipment breakdown, rain out, and Supplier shutdown of operations.
- e. Number of sublots to be placed, sequencing of density testing, and other sampling and testing.

5-04.3(15) Sealing Pavement Surfaces

Apply a fog seal where shown in the plans. Construct the fog seal in accordance with Section 5-02.3. Unless otherwise approved by the Engineer, apply the fog seal prior to opening to traffic.

5-04.3(16) HMA Road Approaches

HMA approaches shall be constructed at the locations shown in the Plans or where staked by the Engineer. The Work shall be performed in accordance with Section 5-04.

5-04.4 Measurement

HMA CI. ____ PG ____, HMA for ____ CI. ____ PG ____, and Commercial HMA will be measured by the ton in accordance with Section 1-09.2, with no deduction being made for the weight of asphalt binder, mineral filler, or any other component of the mixture. If the Contractor elects to remove and replace mix as allowed by Section 5-04.3(11), the material removed will not be measured.

Roadway cores will be measured per each for the number of cores taken.

Preparation of untreated roadway will be measured by the mile once along the centerline of the main line Roadway. No additional measurement will be made for ramps, Auxiliary Lanes, service roads, Frontage Roads, or Shoulders. Measurement will be to the nearest 0.01 mile.

Soil residual herbicide will be measured by the mile for the stated width to the nearest 0.01 mile or by the square yard, whichever is designated in the Proposal.

Pavement repair excavation will be measured by the square yard of surface marked prior to excavation.

Asphalt for prime coat will be measured by the ton in accordance with Section 1-09.2.

Prime coat aggregate will be measured by the cubic yard, truck measure, or by the ton, whichever is designated in the Proposal.

1 Asphalt for fog seal will be measured by the ton, as provided in Section 5-02.4.

2
3 Longitudinal joint seals between the HMA and cement concrete pavement will be
4 measured by the linear foot along the line and slope of the completed joint seal.

5
6 Planing bituminous pavement will be measured by the square yard.

7
8 Temporary pavement marking will be measured by the linear foot as provided in Section
9 8-23.4.

10
11 Water will be measured by the M gallon as provided in Section 2-07.4.

12
13 **5-04.5 Payment**

14 Payment will be made for each of the following Bid items that are included in the
15 Proposal:

16
17 "HMA Cl. ____ PG ____", per ton.

18
19 "HMA for Approach Cl. ____ PG ____", per ton.

20
21 "HMA for Preleveling Cl. ____ PG ____", per ton.

22
23 "HMA for Pavement Repair Cl. ____ PG ____", per ton.

24
25 "Commercial HMA", per ton.

26
27 The unit Contract price per ton for "HMA Cl. ____ PG ____", "HMA for Approach Cl. ____
28 PG ____", "HMA for Preleveling Cl. ____ PG ____", "HMA for Pavement Repair Cl. ____ PG
29 ____", and "Commercial HMA" shall be full compensation for all costs, including anti-
30 stripping additive, incurred to carry out the requirements of Section 5-04 except for those
31 costs included in other items which are included in this Subsection and which are
32 included in the Proposal.

33
34 "Preparation of Untreated Roadway", per mile.

35
36 The unit Contract price per mile for "Preparation of Untreated Roadway" shall be full pay
37 for all Work described under 5-04.3(4) , with the exception, however, that all costs
38 involved in patching the Roadway prior to placement of HMA shall be included in the unit
39 Contract price per ton for "HMA Cl. ____ PG ____" which was used for patching. If the
40 Proposal does not include a Bid item for "Preparation of Untreated Roadway", the
41 Roadway shall be prepared as specified, but the Work shall be included in the Contract
42 prices of the other items of Work.

43
44 "Preparation of Existing Paved Surfaces", per mile.

45
46 The unit Contract Price for "Preparation of Existing Paved Surfaces" shall be full pay for
47 all Work described under Section 5-04.3(4) with the exception, however, that all costs
48 involved in patching the Roadway prior to placement of HMA shall be included in the unit
49 Contract price per ton for "HMA Cl. ____ PG ____" which was used for patching. If the
50 Proposal does not include a Bid item for "Preparation of Untreated Roadway", the

1 Roadway shall be prepared as specified, but the Work shall be included in the Contract
2 prices of the other items of Work.
3
4 "Crack Sealing", by force account.
5
6 "Crack Sealing" will be paid for by force account as specified in Section 1-09.6. For the
7 purpose of providing a common Proposal for all Bidders, the Contracting Agency has
8 entered an amount in the Proposal to become a part of the total Bid by the Contractor.
9
10 "Asphalt for Prime Coat", per ton.
11
12 The unit Contract price per ton for "Asphalt for Prime Coat" shall be full payment for all
13 costs incurred to obtain, provide and install the material in accordance with Section 5-
14 04.3(4).
15
16 "Prime Coat Agg.", per cubic yard, or per ton.
17
18 The unit Contract price per cubic yard or per ton for "Prime Coat Agg." shall be full pay
19 for furnishing, loading, and hauling aggregate to the place of deposit and spreading the
20 aggregate in the quantities required by the Engineer.
21
22 "Asphalt for Fog Seal", per ton.
23
24 Payment for "Asphalt for Fog Seal" is described in Section 5-02.5.
25
26 "Longitudinal Joint Seal", per linear foot.
27
28 The unit Contract price per linear foot for "Longitudinal Joint Seal" shall be full payment
29 for all costs incurred to perform the Work described in Section 5-04.3(12).
30
31 "Planing Bituminous Pavement", per square yard.
32
33 "Temporary Pavement Marking", per linear foot.
34
35 Payment for "Temporary Pavement Marking" is described in Section 8-23.5.
36
37 "Water", per M gallon.
38
39 Payment for "Water" is described in Section 2-07.5.
40
41 "Job Mix Compliance Price Adjustment", by calculation.
42
43 "Job Mix Compliance Price Adjustment" will be calculated and paid for as described in
44 Section 5-04.3(9)C6.
45
46 "Compaction Price Adjustment", by calculation.
47
48 "Compaction Price Adjustment" will be calculated and paid for as described in Section 5-
49 04..3(10)D3.
50
51 "Roadway Core", per each.

1
2 The Contractor's costs for all other Work associated with the coring (e.g., traffic control)
3 shall be incidental and included within the unit Bid price per each and no additional
4 payments will be made.
5
6 "Cyclic Density Price Adjustment", by calculation.
7
8 "Cyclic Density Price Adjustment" will be calculated and paid for as described in Section
9 5-04.3(10)B.
10
11 **END OF DIVISON 5**
12

Division 6
Structures

6-01 General Requirements for Structures

6-01.5 Work Access

Section 6-01.5 is re-titled and revised to read:

(***)**

Work Access

The Contractor must not enter private property to construct the retaining walls unless a 5' Temporary Construction Easement is shown on the plans. Where no temporary construction easement has been obtained the Contractor shall construct all work including retaining walls within road right-of-way. Landowners will be very strict of anybody entering their property and could result in the Contractor getting a trespassing violation.

6-13 Structural Earth Walls

6-13.2 Materials

Section 6-13.2 is supplemented with the following:

(January 2, 2018)

Concrete Block Faced Structural Earth Wall Materials

General Materials

Concrete Block

Acceptability of the blocks will be determined based on the following:

1. Visual inspection.
2. Compressive strength tests, conforming to Section 6-13.3(4).
3. Water absorption tests, conforming to Section 6-13.3(4).
4. Manufacturer's Certificate of Compliance in accordance with Section 1-06.3.
5. Freeze-thaw tests conducted on the lot of blocks produced for use in this project, as specified in Section 6-13.3(4).
6. Copies of results from tests conducted on the lot of blocks produced for this project by the concrete block fabricator in accordance with the quality control program required by the structural earth wall manufacturer.

The blocks shall be considered acceptable regardless of curing age when compressive test results indicate that the compressive strength conforms to the

1 28-day requirements, and when all other acceptability requirements specified
2 above are met.
3
4 Testing and inspection of dry cast concrete blocks shall conform to ASTM C 140,
5 and shall include block fabrication plant approval by WSDOT prior to the start of
6 block production for this project.
7
8 **Mortar**
9 Mortar shall conform to ASTM C 270, Type S, with an integral water repellent
10 admixture as accepted by the Engineer. The amount of admixture shall be as
11 recommended by the admixture manufacturer. To ensure uniform color, texture,
12 and quality, all mortar mix components shall be obtained from one manufacturer
13 for each component, and from one source and producer for each aggregate.
14
15 **Geosynthetic Soil Reinforcement**
16 Geogrid reinforcement shall conform to Section 9-33.1, and shall be a product
17 listed in Appendix D of the current WSDOT Qualified Products List (QPL). The
18 values of T_{al} and T_{ult} as listed in the QPL for the products used shall meet or
19 exceed the values required for the wall manufacturer's reinforcement design as
20 specified in the structural earth wall design calculation and working drawing
21 submittal.
22
23 The minimum ultimate tensile strength of the geogrid shall be a minimum
24 average roll value (the average test results for any sampled roll in a lot shall
25 meet or exceed the values shown in Appendix D of the current WSDOT QPL).
26 The strength shall be determined in accordance with ASTM D 6637, for multi-rib
27 specimens.
28
29 The ultraviolet (UV) radiation stability, in accordance with ASTM D 4355, shall
30 be a minimum of 70 percent strength retained after 500 hours in the
31 weatherometer.
32
33 The longitudinal (i.e., in the direction of loading) and transverse (i.e., parallel to
34 the wall or slope face) ribs that make up the geogrid shall be perpendicular to
35 one another. The maximum deviation of the cross-rib from being perpendicular
36 to the longitudinal rib (skew) shall be no more than 1 inch in 5 feet of geogrid
37 width. The maximum deviation of the cross-rib at any point from a line
38 perpendicular to the longitudinal ribs located at the cross-rib (bow) shall be 0.5
39 inches.
40
41 The gap between the connector and the bearing surface of the connector tab
42 cross-rib shall not exceed 0.5 inches. A maximum of 10 percent of connector
43 tabs may have a gap between 0.3 inches and 0.5 inches. Gaps in the remaining
44 connector tabs shall not exceed 0.3 inches.
45
46 The Engineer will take random samples of the geogrid materials at the job site.
47 Acceptance of the geogrid materials will be based on testing of samples from
48 each lot. A "lot" shall be defined as all geogrid rolls sent to the project site
49 produced by the same manufacturer during a continuous period of production at
50 the same manufacturing plant having the same product name. The Contracting

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Agency will require 14 calendar days maximum for testing the samples after their arrival at the WSDOT Materials Laboratory in Tumwater, WA.

The geogrid samples will be tested for conformance to the specified material properties. If the test results indicate that the geogrid lot does not meet the specified properties, the roll or rolls which were sampled will be rejected. Two additional rolls for each roll tested which failed from the lot previously tested will then be selected at random by the Engineer for sampling and retesting. If the retesting shows that any of the additional rolls tested do not meet the specified properties, the entire lot will be rejected. If the test results from all the rolls retested meet the specified properties, the entire lot minus the roll(s) which failed will be accepted.

All geogrid materials which have defects, deterioration, or damage, as determined by the Engineer, will be rejected. All rejected geogrid materials shall be replaced at no expense to the Contracting Agency.

Except as otherwise noted, geogrid identification, storage and handling shall conform to the requirements specified in Section 2-12.2. The geogrid materials shall not be exposed to temperatures less than -20F and greater than 122F.

Drainage Geosynthetic Fabric

Drainage geosynthetic fabric shall be a non-woven geosynthetic conforming to the requirements in Section 9-33.1, for Construction Geotextile for Underground Drainage, Moderate Survivability, Class B.

Proprietary Materials

Allan Block Wall

Wall backfill material placed in the open cells of the precast concrete blocks and placed in the one to three foot zone immediately behind the precast concrete blocks shall be crushed granular material conforming to Section 9-03.9(3).

GEOWALL Structural Earth Retaining Wall System

Connection pins shall be fiberglass conforming to the requirements of Basalite Concrete Products, LLC.

KeyGrid Wall

KeyStone connection pins shall be fiberglass conforming to the requirements of Keystone Retaining Wall Systems, Inc.

Landmark Retaining Wall

Lock bars shall be made of a rigid polyvinyl chloride polymer conforming to the following requirements:

Property	Value	Specification
Specific Gravity	1.4 minimum	ASTM D 792
Tensile Strength at yield	2,700 psi minimum	ASTM D 638

46

1	Lock bars shall remain sealed in their shipping containers until placement into		
2	the wall. Lock bars exposed to direct sunlight for a period exceeding two months		
3	shall not be used for construction of the wall.		
4			
5	Mesa Wall		
6	Block connectors for block courses with geogrid reinforcement shall be glass		
7	fiber reinforced high-density polypropylene conforming to the following minimum		
8	material specifications:		
9			
10	<u>Property</u>	<u>Specification</u>	<u>Value</u>
11	Polypropylene	ASTM D 4101	
12		Group 1 Class 1 Grade 2	73 ± 2 percent
13	Fiberglass Content	ASTM D 2584	25 ± 3 percent
14	Carbon Black	ASTM D 4218	2 percent minimum
15	Specific Gravity	ASTM D 792	1.08 ± 0.04
16	Tensile Strength	ASTM D 638	
17	at yield		8,700 ± 1,450 psi
18	Melt Flow Rate	ASTM D 1238	0.37 ± 0.16 ounces/10 min.
19			
20	Block connectors for block courses without geogrid reinforcement shall be glass		
21	fiber reinforced high-density polyethylene (HDPE) conforming to the following		
22	minimum material specifications:		
23			
24	<u>Property</u>	<u>Specification</u>	<u>Value</u>
25	HDPE	ASTM D 1248	
26		Type III Class A Grade 5	68 ± 3 percent
27	Fiberglass Content	ASTM D 2584	30 ± 3 percent
28	Carbon Black	ASTM D 4218	2 percent minimum
29	Specific Gravity	ASTM D 792	1.16 ± 0.06
30	Tensile Strength	ASTM D 638	
31	at yield		8,700 ± 725 psi
32	Melt Flow Rate	ASTM D 1238	0.11 ± 0.07 ounces/10 min.
33			
34	(*****)		
35	Color and appearance/texture of wall face shall be as approved by the Engineer.		
36			
37	(*****)		
38	Poured in place concrete cap materials shall meet the requirements of Section 8-14.2 of		
39	the Standard Specifications. The concrete cap shall be poured at the same time as the		
40	sidewalk with no joint between the proposed back of sidewalk and the concrete cap.		
41			
42	Pedestrian Handrail materials shall meet Kirkland Plan No. CK-R.51		
43			
44			
45	6-13.3 Construction Requirements		
46			
47	Section 6-13.3 is supplemented with the following:		
48			

1 **(January 2, 2018)**

2 **Concrete Block Faced Structural Earth Wall**

3 Concrete block faced structural earth walls shall be constructed of only one of the
4 following wall systems. The Contractor shall make arrangements to purchase the
5 concrete blocks, soil reinforcement, attachment devices, joint filler, and all necessary
6 incidentals from the source identified with each wall system:
7

8 Allan Block Wall

9 Allan Block Wall is a registered trademark of the Allan Block Corporation

10
11 Allan Block Corporation
12 7424 W 78th Street
13 Bloomington, MN 55439
14 (800) 899-5309
15 FAX (952) 835-0013
16 www.allanblock.com
17

18 GEOWALL Structural Earth Retaining Wall System

19 GEOWALL is a registered trademark of Basalite Concrete Products, LLC

20
21 Basalite Concrete Products LLC
22 3299 International Place
23 Du Pont, WA 98327-7707
24 (800) 964-9424
25 FAX: (253) 964-5005
26 www.basalite.com
27

28 Redi-Rock Positive Connection System

29 Redi-Rock Positive Connection System is a registered trademark of Redi-Rock
30 International, LLC

31
32 Redi-Rock International, LLC
33 05481 US 31 South
34 Charlevoix, MI 49720
35 (866) 222-8400
36 FAX (231) 237-9521
37 www.redi-rock.com
38

39 Mesa Wall

40 Mesa Wall is a registered trademark of Tensar Corporation

41
42 Tensar Corporation
43 2500 Northwinds Parkway Suite 500
44 Atlanta, GA 30009
45 (770) 334-2090
46 FAX (678) 281-8546
47 www.tensarcorp.com
48

49 Landmark Retaining Wall System

50 Landmark Retaining Wall System is a registered trademark of Anchor Wall
51 Systems, Inc.

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Anchor Wall Systems, Inc.
5959 Baker Road, Suite 390
Minnetonka, MN 55345-5996
(877) 295-5415
FAX (952) 979-8454
www.anchorwall.com

KeyGrid Wall
KeyGrid is a registered trademark of Keystone Retaining Wall Systems, Inc.

Keystone Retaining Wall Systems, Inc.
4444 West 78th Street
Minneapolis, MN 55435
(800) 747-8971
FAX (952) 897-3858
www.keystonewalls.com

(*****)
Pedestrian handrail shall be installed per the manufacturer's directions. Type of railing shall be as shown on the plans.

6-13.3(2) Submittals

Section 6-13.3(2) is supplemented with the following:

(January 3, 2011)
The following geotechnical design parameters shall be used for the design of the structural earth wall(s):

Wall Name or No.: Walls 1 through 3

Soil Properties	Wall Backfill	Retained Soil	Foundation Soil
Unit Weight (pcf)	115	115	115
Friction Angle (deg)	32	32	32
Cohesion (psf)	0	0	0

For the Service Limit State, the wall shall be designed to accommodate a differential settlement of one (1) Inch per 100 feet of wall length.

For the Extreme Event I Limit State, the wall shall be designed for a horizontal seismic acceleration coefficient k_h of 0.42 g and a vertical seismic acceleration coefficient k_v of 0 g.

6-13.3(5) Precast Concrete Facing Panel and Concrete Block Erection

Section 6-13.3(5) is supplemented with the following:

1 (April 2, 2012)

2 **Specific Erection Requirements for Precast Concrete Block Faced Structural**
3 **Earth Walls**

4 **Landmark Retaining Wall**

5 When placing each course of concrete blocks, the Contractor shall pull the
6 blocks towards the front face of the wall until the male key of the bottom face of
7 the upper block contacts and fits into the female key of the top face of the
8 supporting block below.
9

10 A maximum gap of 1/8-inch is allowed between adjacent concrete blocks, except
11 for the base course set of concrete blocks placed on the leveling pad. A
12 maximum gap of 1-inch is allowed between adjacent base course concrete
13 blocks, provided geosynthetic reinforcement for drains is in place over the gap
14 at the back face of the concrete blocks.
15

16 Lock bars shall be installed in the female key of the top face of all concrete block
17 courses receiving geogrid reinforcement. Gaps between adjacent lock bars in
18 the key shall not exceed 3-inches. The lock bar shall be installed flat side up,
19 with the angled side to the back of the concrete block, as shown in the shop
20 drawings.
21

22 Geogrid reinforcement shall be placed and connected to concrete block courses
23 specified to receive soil reinforcement. The leading edge of the geogrid
24 reinforcement shall be maintained within 1-inch of the front face of the
25 supporting concrete blocks below. Geogrid panels shall be abutted for 100
26 percent backfill coverage with less than a 4-inch gap between adjacent panels.
27

28 Backfill shall be placed and compacted level with the top of each course of
29 concrete blocks, and geogrid reinforcement placed and connected to concrete
30 block courses specified to receive soil reinforcement, before the Contractor may
31 continue placing the next course of concrete blocks.
32

33 **Mesa Wall**

34 For all concrete block courses receiving geogrid reinforcement, the fingers of
35 the block connectors shall engage the geogrid reinforcement apertures, both in
36 the connector slot in the block, and across the block core. For all concrete block
37 courses with intermittent geogrid coverage, a #3 steel reinforcing bar shall be
38 placed, butt end to butt end, in the top block groove, with the butt ends being
39 placed at a center of a concrete block.
40

41 **6-13.4 Measurement**

42
43 Section 6-13.4 is supplemented with the following:
44

45 (*****)

46 If concrete cap is shown in the plans then the top limit for vertical
47 measurement will be the top of concrete cap.
48

49 Pedestrian Handrail will be measured per linear foot of completed handrail.
50

51 **6-13.5 Payment**

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Section 6-13.5 is supplemented with the following:

(*****)

The unit Contract price per square foot for "Structural Earth Wall" shall be full payment for all costs to perform the Work including the cost of installing the concrete cap where shown in the plans.

The unit Contract price per linear foot for "Pedestrian Handrail" shall be full payment for all costs to perform the work as shown in the plans and as recommended by the wall manufacturer and approved by the Engineer.

END OF DIVISON 6

1 **Division 7**
2 **Drainage Structures, Storm Sewers, Sanitary Sewers, Water Mains, and**
3 **Conduits**
4

5 **7-01 DRAINS**
6

7 **7-01.1 Description**
8

9 Section 7-01.1 is supplemented with the following:
10

11 (*****)

12 Drain pipe shall have cleanouts located at each bend as shown in the plans.
13

14 **7-01.3 Construction Requirements**
15

16 Section 7-01.3 is supplemented with the following:
17

18 (*****)

19 Cleanout material and construction requirements shall be per Kirkland Plan No. CK-
20 D.05B
21

22 **7-01.4 Measurement**
23

24 Section 7-01.4 is supplemented with the following:
25

26 (*****)

27 Measurement shall be per each for the completed Cleanout and shall include all
28 necessary excavation, materials, equipment, labor, bends, concrete, cast iron ring
29 and cover as shown in the plans.
30

31 **7-01.5 Payment**
32

33 Section 7-01.5 is supplemented with the following:
34

35 (*****)

36 Payment will be made for the Bid Item, "Cleanout", per each.
37

38 **7-04 STORM SEWERS**
39

41 **7-04.3 Construction Requirements**
42

43 Section 7-04.3 is supplemented with the following:
44

45 (*****)

46 **7-04.3(1) Cleaning and Testing**

47 Section 7-04.3(1) is supplemented with the following:
48

49 Cleaning and testing of the storm sewer system is required prior to placing
50 the new section into service and shall be incidental to the storm sewer
51 pipe and structures, unless otherwise specified under bid items herewith.
52 Such tests shall be conducted in accordance with the reference material

1 specification for the material being used. Tests on the completed installation
2 shall be made as specified below.

3 **Alignment and Grade**

4 Alignment and grade will be inspected by lamping each completed section. Any
5 section which appears to exceed the allowance for variance in line or grade shall be
6 further inspected by an approved video monitoring system (TV inspection). If this
7 inspection confirms that the section does not meet the specified requirements for
8 the line and grade, the sections or portion not in compliance shall be re-
9 excavated and re-laid at Contractor's expense.

10 All costs incurred for TV inspection shall be considered incidental to and
11 included in various related bid item included in the proposal.

12 (*****)

13 **7-04.3(2)A Potholing**

14 The Contractor shall pothole to determine the exact horizontal and vertical location
15 of existing utilities and determine if a conflict exists. If a conflict should exist, the
16 Engineer shall be notified prior to any change in storm sewer line grade. All costs
17 associated with adjustments in depth to avoid conflicts with existing utilities shall be
18 considered incidental to the cost of the storm sewer pipe and no additional payment
19 will be made.

20
21 Potholing shall be considered incidental to other bid items.
22

23 **7-04.5 Payment**

24 Section 7-04.5 is supplemented with the following:

25
26 (*****)

27 The unit contract prices for Storm Sewer Pipe, regardless of size and material, shall be full
28 compensation for all labor, material, tools and equipment necessary for and incidental to
29 furnish and install the storm sewer as shown on the plans and as specified herein, including
30 the following:

- 31
- 32 1. All required potholing to verify locations of existing utilities.
 - 33 2. Trench excavation and dewatering, furnishing and installation of pipe on line and
34 grade, wyes, tees, special fittings, manhole adapters.
 - 35 3. Removal, loading, hauling, and disposal of native excavation material.
 - 36 4. Pipe bedding material and compaction.
 - 37 5. Extra depth, including excavation, backfill and compaction, required to clear
38 existing buried utilities or other obstacles.
 - 39 6. Steel sheeting for covering excavations as necessary.
 - 40 7. Maintenance, restoration and/or relocation, if required, of existing culverts, storm
41 drainage pipe, other utilities and structures affected by construction that are to
42 remain.
 - 43 8. Cleaning and testing of all storm sewers and catch basins including CCTV
44 inspection of the mains.
- 45

46 **7-05 MANHOLES, INLETS, CATCH BASINS, AND DRYWELLS**
47

1 **7-05.1 Description**

2
3 Section 7-05.1 is supplemented with the following:

4
5 (*****)

6 PVC Storm Sewer pipe shall include a sand collar for the manhole adapter. The
7 sand collar must be on WSDOT 's Qualified Product List.
8

9 **7-05.3 Construction Requirements**

10
11 Section 7-05.3 is supplemented with the following:

12
13 **7-05.3(1) Adjusting Manholes and Catch Basins to Grade**

14
15 Section 7-05.3(1) is supplemented with the following:

16
17 (*****)

18 **Adjusting Valve Box**

19
20 The Contractor shall remove and adjust valve boxes and covers as provided by
21 Northshore Utility District and as shown on the Plans or as directed by the
22 Engineer. Contractor shall adjust the valve box so that the valve is fully
23 operational. The Contractor shall coordinate with the respective utility company
24 to allow them ample time to oversee the adjustment. The adjusted valve box
25 shall be flush with the finished grade.
26

27 **7-05.3(3) Connections to Existing Manholes**

28
29 Section 7-05.3(3) The second paragraph is deleted and revised with the following:

30
31 (*****)

32 The manhole or catch basin shall be kept in operation at all times and the
33 necessary precautions shall be taken to prevent debris or other material from
34 entering the sewer, including a tight pipeline bypass through the existing channel
35 if required. Water used for flushing and testing shall not be allowed to enter the
36 sewer.
37

38 **7-05.4 Measurement**

39 Section 7-05.4 is supplemented with the following:

40
41 (*****)

42 Adjust Valve Box, per each. This bid item includes valve box replacement and adjust as shown
43 in the plans or as directed by the Engineer.
44

45 **7-05.5 Payment**

46
47 Section 7-05.5 is supplemented with the following:
48

1 (*****)
2 "Catch Basin Type 1", per each, shall be full pay for all costs necessary to provide and install
3 risers, sand collars and vaned frame and grates.
4
5 (*****)
6 "Adjust Valve Box", per each, shall include all costs necessary of coordination and to install
7 and adjust water valve boxes.
8
9
10 **7-08 GENERAL PIPE INSTALLATION REQUIREMENTS**
11
12 **7-08.3 Construction Requirements**
13
14
15 **7-08.3(4) Plugging Existing Pipes**
16
17 Section 7-08.3(4) This section is revised as follows":
18
19 (*****)
20 Where shown in the Plans or where designated by the Engineer, existing pipes
21 shall be plugged the full length of the pipe with commercial concrete. Care shall
22 be used in placing the concrete in the pipes to see that the pipe is completely
23 filled and thoroughly plugged.
24
25
26
27 **END OF DIVISON 7**
28

**Division 8
Miscellaneous Construction**

8-01 EROSION CONTROL AND WATER POLLUTION CONTROL

8-01.5 Payment

Section 8-01.5 is supplemented with the following:

(*****)

Street Cleaning is considered incidental to other bid items.

8-02 ROADSIDE RESTORATION

8-02.1 Description

Section 8-02.1 is supplemented with the following:

(*****)

This Work shall consist of furnishing and installing plant materials, seeding, topsoil, mulch, plant establishment and performing property restoration activities as shown in the Plans or when directed by the Engineer.

Providing necessary water to install and establish plant materials and seed.

8-02.2 Materials

Section 8-02.2 is supplemented with the following:

(*****)

Topsoil Type A	9-14.2(1)
Seed	9-14.3
Root Barrier	9-14.9

8-02.3 Construction Requirements

(*****)

8-02.3(1) Responsibility During Construction

Section 8-02.3(1) is supplemented with the following:

Landscape construction is anticipated to begin no later than after all curbs, sidewalks and associated Work have been completed.

The Contractor shall report to the Engineer all deviations and/or conflicts between Contract Documents and site conditions. Extra Work arising from failure to do so shall be done at the Contractor's expense.

The Contractor is responsible for ensuring positive drainage in all landscape areas.

Landscape materials shall not be installed until weather permits and installation has been authorized by the Engineer.

(*****)

8-02.3(2)A Roadside Work Plan

Section 8-02.3(2)A is supplemented with the following:

Within fourteen (14) calendar days after Award of the Contract, the Contractor shall submit written documentation to the Engineer that all specified plant materials have been ordered. Documentation shall include a list of supplier's name, addresses, and phone numbers along with a list of respective growing or storage locations with addresses.

The Contractor shall provide all plants of the size, species, variety, and quality noted and specified. If unavailable, the Contractor shall notify the Engineer in writing and provide the names and telephone numbers of three (3) nursery suppliers that have been contacted. If substitution should be permitted, it can be made only with the prior written approval of the Engineer.

The Roadside Work Plan shall also include a watering schedule detailing how plant materials will be watered during installation and plant establishment.

(*****)

8-02.3(4) Topsoil

The last sentence of the first paragraph of Section 8-02.3(4) is deleted and replaced with the following:

Prior to scarification of subgrade and spreading topsoil, all construction debris, and rocks one (1) inch in diameter and larger, shall be raked up, removed, and disposed.

Prior to installing Topsoil Type A, a percolation test shall be performed. This shall be accomplished by excavating a pit two (2) feet in depth. Location of pit shall be per Engineers field directive. Fill the pit with water and allow to drain for twenty-four (24) hours. After twenty-four (24) hours, re-fill the pit with water. If the time required for the pit to drain completely after being filled the second time is greater than twenty-four (24) hours, the Contractor shall notify the Engineer. The Contractor shall be paid for work required to solve the drainage problem, such as, installation of french drains or drainage sumps at a unit price basis and agreed upon by a Change Order prior to commencement of work.

(*****)

8-02.3(5)B Lawn Area Preparation

The entire of Section 8-02.3(5)B is deleted and replaced with the following:

Prepare subgrade and soil as shown on the Plans.

All grades shall flow smoothly into one another and produce positive stormwater drainage. The Contractor is responsible for any adverse drainage conditions that may affect plant growth unless the Contractor contacts the Engineer immediately, indicating any possible problem.

All lawn areas shall be finish graded and accepted by the Engineer before commencement of planting. Drag to even grade, remove debris and rocks larger than

one (1) inch in diameter, and roll for firmness prior to planting.

(*****)

8-02.3(5)C Planting Area Preparation

The entire of Section 8-02.3(5)C is deleted and replaced with the following:

Prepare subgrade and soil as shown on the Plans.

All grades shall flow smoothly into one another and produce positive stormwater drainage. The Contractor is responsible for any adverse drainage conditions that may affect plant growth unless the Contractor contacts the Engineer immediately, indicating any possible problem.

All planting areas shall be finish graded and accepted by the Engineer before commencement of planting. Drag to even grade, remove debris and rocks larger than one (1) inch in diameter, and roll for firmness prior to planting. Finish grade of planting areas shall allow for placement of bark or wood chip mulch to be added to individual planting areas as specified herein.

(*****)

8-02.3(6)B Fertilizers

Section 8-02.3(6)B is supplemented with the following:

Fertilizer shall be as specified in Section 8-02.3(6) Soil Amendments and 9-14.1(1) Topsoil Type A.

Install all fertilizer and soil amendments per soil laboratory written recommendations.

(*****)

8-02.3(7) Layout of Planting, Lawn and Seeding Areas

Section 8-02.3(7) is deleted and replaced with the following:

The Contractor shall stake the location of all trees and seeding areas for approval by the Engineer prior to any installation activities. Stake individual tree locations on finish grade.

(*****)

8-02.3(9) Pruning, Staking, Guying and Wrapping

Section 8-02.3(9) is supplemented with the following:

If removal of canopy material is necessary to allow access for equipment, a Certified Arborist shall be consulted to ensure that proper pruning techniques are used.

All costs associated with pruning and staking trees shall be considered incidental and included in the contract price for cement concrete sidewalk construction.

1 (*****)
2 **8-02.3(9A) Root Trimming and Barrier Placement**
3 Section 8-02.3(9A) is a new section.

4 Hand digging within the root zone is required in order to expose roots with minimal
5 damage. The root zone is defined as the area of ground within the drip line of the
6 tree and extending to a depth of 24 inches. Tree roots over 12 inches below grade
7 may be left in place. If severing of roots cannot be avoided, the contractor shall hire
8 a Certified Arborist to perform all root trimming. The Certified Arborist shall determine
9 the maximum amount of root trimming allowed. A sharp tool such as pruning shears,
10 loppers, or a hand saw shall be used to produce a clean cut in order to reduce wound
11 size and encourage healing. The Inspector shall observe all root trimming activities.

12 After root trimming activities are completed crushed surfacing top course shall be
13 placed and compacted per plan.

14 Root barriers may be used as recommended by the Certified Arborist along the edge
15 of sidewalk or back edge of curbs to protect the proposed curb and sidewalk from
16 root damage. Root barriers shall never be used around the entire circumference of
17 the root zone. All root barrier shall be installed in accordance with the manufacturer's
18 instructions. Root Barriers shall consist of 0.080" thick (min.) polypropylene sheet(s)
19 placed against the excavated and exposed root mass. The barrier shall be installed
20 so that it is flush with the finish grade of the landscaped area and extends to a
21 minimum depth of 18 inches.

22 If roots are exposed overnight, mulch and water tree roots following excavation.

23 Prior to beginning work, the Contractor shall submit the company information
24 (company name, address, phone number, name of arborist, etc.) of the Certified
25 Arborist or Company that will be performing the root inspection, trimming and barrier
26 placement.

27 (*****)
28 **8-02.3(11)B Bark or Wood Chip Mulch**
29 Section 8-02.3(11)B is deleted and replaced with the following:

30
31 Mulch of the type and depth specified shall be applied where shown in the Plans.
32 Any contamination of the mulch due to the Contractor's operations shall be corrected
33 to its former condition at the Contractor's expense. Mulch shall be feathered to the
34 base of the tree trunk and flush to the top of curbs, and pavement edges. All tree
35 trunks shall be free of mulch. Mulch placed to a thickness greater than specified shall
36 be at no additional cost to the Contracting Agency.

37
38 Areas receiving Mulch shall be weed free, bare soil before application.

39
40 (*****)
41 **8-02.3(13) Plant Establishment**
42 Section 8-02.3(13) is supplemented with the following:

43
44 Suspension of Time
45

1 Failure to Comply:

2 Failure to comply with corrective steps as outlined by the Engineer shall result
3 in a suspension of time for plant establishment period(s).

4
5 Suspension Relief:

6 Any such suspension of time shall not be lifted until all unsatisfactory conditions
7 have been corrected to the satisfaction of the Engineer.

8
9 Suspension and Penalties:

10 If a suspension of time is in effect for more than 15 calendar days without
11 effective action being taken by the Contractor, the Contracting Agency will have
12 justification to take corrective steps and to deduct all costs thereof from moneys
13 due the Contractor.

14
15 Plant Establishment Plan

16 Prior to completion of initial planting as defined in Section 8-02.3(12), the
17 Contractor shall submit a Plant Establishment Plan for approval by the Engineer
18 that addresses all planting. The Plan shall define the Work necessary to maintain
19 all Contract areas during the period between completion of initial planting
20 through final acceptance at the completion of the plant establishment period.

21
22 The Plant Establishment Plan shall show the scheduling, frequency, dates,
23 materials and equipment utilized, whichever may apply, for all maintenance
24 activities including, but not limited to, the following:

25
26 A. Plant Establishment

- 27 1. Pruning
28 2. Fertilizing
29 3. Watering - amount in inches per week
30 4. Weed Control and Chemical Application - post and
31 pre-emergent
32 5. Litter and Debris Removal
33 6. Staking Removal
34 7. Erosion Control Methods and Procedures
35 8. Plant Replacement to Maintain 100% Survival
36 9. Vandalism and Accidental Damage Repair

37
38 Also indicate the following:

39
40 A. Maintenance Supervisor/Responsible Contact Name

- 41 1. Local address
42 2. Local telephone number

43
44 B. Emergency Contact Name - 24 hours, 7 days per week availability

- 45 1. Local address
46 2. Local telephone number

47
48 C. Sign and date the Plant Establishment Plan

49
50 Should this Plan become unworkable at any time during the specified period,
51 the Contractor shall submit to the Engineer a revised Plan for approval. Failure

1 to comply with the Plant Establishment Plan or to revise the Plan as outlined by
2 the Engineer shall result in a suspension of time for plant establishment period
3 as outlined above.
4
5 (*****)
6 **8-02.3(17) Protection and Restoration of Property**
7 Section 8-02.3(17) is added as follows:
8
9 Verify and document, in the presence of the adjacent property owners and Engineer,
10 operation, location, and continuity of existing private irrigation system(s) prior to
11 excavation and removal, existing plant material and existing lawn areas. Approximate
12 locations of existing irrigation system(s), plant material, and lawn areas are located back
13 of sidewalk on private property and may be disturbed as a result of retaining wall
14 installation and grading activities. Restore any existing irrigation system(s) to pre-
15 construction condition to provide full and complete coverage to all existing and new plant
16 materials restored. Planting shall match in-kind existing plant material and lawn areas
17 disturbed shall be provided with seeded lawn.
18
19 (*****)
20 **8-02.3(18) Root Barrier**
21 Section 8-02.3(18) is added as follows:
22
23 Install Root Barrier as shown on the Plans and per manufacture's written
24 recommendations.
25
26 **8-02.4 Measurement**
27 Section 8-02.4 is supplemented with the following:
28
29 (*****)
30 No specific unit of measurement will apply to the force account item of "Protection and
31 Restoration of Property".
32
33 The first paragraph of Section 8-02.4 is deleted and replaced with the following:
34
35 "Topsoil Type A" will be measured by the cubic yard in the haul conveyance at the point
36 of delivery.
37
38 "Root Barrier" will be measured by the linear foot.
39
40
41 **8-02.5 Payment**
42 Section 8-02.5 is supplemented with the following:
43
44 (*****)
45 "Protection and Restoration of Property" by force account.
46 All costs for providing protection and property restoration Work will be paid for by force
47 account as specified in Section 1-09.6. To provide a common Proposal for all Bidders,
48 the Contracting Agency has estimated the amount of force account for "Protection and
49 Restoration of Property" and has entered the amount in the Proposal to become a part
50 of the total Bid by the Contractor.
51

1 "Topsoil Type A" per cubic yard.
2 The unit contract price per cubic yard shall be full pay for providing the material, loading,
3 hauling, stockpiling, weed control, placing, spreading, cultivation and compacting Topsoil
4 Type A. The cost for soil tests, soil amendments and fertilizer are incidental to the "Topsoil
5 Type A" contract bid amount.
6
7 "Root Barrier," per linear foot.
8 The unit price for "Root Barrier" shall be full pay for providing and installing the root
9 barrier as shown on Plans. All costs associated with providing and installing root
10 barriers shall be considered incidental and included in the contract price for Root Barrier
11 each location, including any necessary root trimming.
12

13 **8-12 CHAIN LINK FENCE AND WIRE FENCE**

14 **8-12.1 Description**

15 Section 8-12.1 is supplemented with the following:
16

17 (*****)
18 **Cedar Wood Fence**
19

20
21 This work consists of furnishing and constructing cedar wood fence of the type and size
22 of the fence that was removed where shown in the plans or as directed by the Engineer.
23

24 Cedar wood fence shall be of the same width, thickness and height as the fence
25 removed as approved by the Engineer.
26

27 **8-12.2 Materials**

28 Section 8-12.2 is supplemented with the following:
29

30 (*****)
31 All cedar wood slat fence materials and 2"x4" bracing shall be Western Cedar free from
32 loose knots, cracks, and other imperfections.
33

34 Wood fence posts shall be 4" x 4" and shall be pressure treated lumber, or wood of a
35 natural resistance to decay. Materials shall be free from loose knots, cracks, and other
36 imperfections.
37

38 Cast-in-place post foundations shall be Class 3000 minimum.
39

40 Wood boards and posts shall be preapproved by the Engineer prior to installation. Wood
41 boards shall be of the same thickness and width as the fence removed and constructed
42 using the same gap between boards as the fence removed.
43

44 **8-12.3 Construction Requirements**

45 Section 8-12.3 is supplemented with the following:
46

47 (*****)
48 Posts are to be set vertically plumb with 2' minimum embedment below back of sidewalk
49 grade and set to be flush with the wood slats with a nominal height of 6' from the ground.
50

1 Concrete foundations shall be poured 12" wide in all horizontal directions from 2" below
2 ground line to the bottom of the post.
3
4 Contractor shall construct the fence with the rail and post framing facing toward the road.
5 The fence shall be built with two rails and are to be framed level to match the existing
6 fence removed. Bottom of slats are to be set at top of wall grade. Slats will be set edge
7 to edge.
8
9 The fence shall be stained to match the existing fence removed with the type and color
10 of stain as approved by the Engineer. The type of stain will be limited to \$100/gal.
11
12 **8-12.4 Measurement**
13 Section 8-12.4 is supplemented with the following:
14
15 (*****)
16 "Cedar Wood Fence" will be measured per linear foot of fence installed per these
17 specifications.
18
19 **8-12.5 Payment**
20 Section 8-12.5 is supplemented with the following:
21
22 (*****)
23 "Cedar Wood Fence", per linear foot, shall be full pay for all labor, equipment, wood,
24 concrete foundation, fastener and staining material required to perform the work as
25 specified herein.
26
27
28 **8-14 CEMENT CONCRETE SIDEWALKS**
29
30 **8-14.1 Description**
31 Section 8-14.1 is revised to read:
32
33 (April 3, 2017)
34 This Work consists of constructing cement concrete sidewalks, curb ramps, bus stop
35 shelter foundations, masonry sidewalks, and ramp grinding in accordance with details
36 shown in the Plans, Standard Plans, these Specifications, and in conformity to the lines
37 and grades shown in the Plans, Standard Plans, and as established by the Engineer.
38
39 **8-14.3 Construction Requirements**
40 Section 8-14.3 is supplemented with the following:
41
42 (April 3, 2017)
43 The Contractor shall request a pre-construction meeting with the Engineer to be held two
44 to five working days before any work can start on cement concrete sidewalks, curb ramps
45 or other pedestrian access routes to discuss construction requirements. Those attending
46 shall include:
47
48 1. The Contractor and Subcontractor in charge of constructing forms, and placing,
49 and finishing the cement concrete.
50

2. Project Engineer (or representative) and Project Inspectors for the cement concrete sidewalk, curb ramp or pedestrian access route Work.

Items to be discussed in this meeting shall include, at a minimum, the following:

1. Slopes shown on the Plans.
2. Inspection
3. Traffic control
4. Pedestrian control, access routes and delineation
5. Accommodating utilities
6. Form work
7. Installation of detectable warning surfaces
8. Contractor ADA survey and ADA Feature as-built requirements
9. Cold Weather Protection

(January 7, 2019)

Timing Restrictions

Curb ramps shall be constructed on one leg of the intersection at a time. The curb ramps shall be completed and open to traffic within five calendar days before construction can begin on another leg of the intersection unless otherwise allowed by the Engineer.

Unless otherwise allowed by the Engineer, the five calendar day time restriction begins when an existing curb ramp for the quadrant or traffic island/median is closed to pedestrian use and ends when the quadrant or traffic island/median is fully functional and open for pedestrian access.

(January 7, 2019)

Layout and Conformance to Grades

Using the information provided in the Contract documents, the Contractor shall lay out, grade, and form each new curb ramp, sidewalk, and curb and gutter.

8-14.3(5) Detectable Warning Surface

Section 8-14.3(5) The first paragraph is revised to read:

(January 13, 2021)

The detectable warning surface shall be located as shown in the Contract Plans or Standard Plans. Placement of the detectable warning surface shall be in accordance with the manufacturer's recommendation for placement in fresh concrete, before the concrete has reached initial set, or on a hardened cement concrete surface. Glued or stick down Detectable Warning Surfaces are allowed on asphalt surfaces only for temporary work zone applications.

1 **8-14.4 Measurement**

2 Section 8-14.3(4) is replaced with the following:

3 ***(DECEMBER 28, 2006 COK GSP)***

4 Cement concrete sidewalks will be measured by the square yard of finished surface.
5 Included in the unit contract price shall be all labor, tools, equipment, materials, and
6 incidental items of work including, but not limited to, providing expansion joints, joint filler,
7 finishing the surface, thickened edges in curb returns, materials, labor and providing white
8 polyethylene sheeting for curing.

9 The unit contract price listed above shall be full compensation for all labor, tools, materials,
10 and equipment necessary to complete the work as specified herein.

11

12 **8-20 ILLUMINATION, TRAFFIC SIGNAL SYSTEMS, INTELLIGENT**
13 **TRANSPORTATION SYSTEMS, AND ELECTRICAL**

14

15 **8-20.1 Description**

16 **8-20.1(1) Regulations and Code**

17 *Supplement this Section with the following:*

18

19 ***(JUNE 12, 2019 COK GSP)***

20 Prior to start of Work, all necessary licenses, permits, and approvals shall be obtained. The
21 Contractor shall comply with all laws, ordinances, rules, orders, and regulations relating to
22 the performance of the Work, the protection of adjacent property, and the maintenance of all
23 other facilities. The Contractor will be required to comply with all the provisions of these
24 instruments and shall save and hold the Contracting Agency harmless from any damage that
25 may be incurred as a result of the Contractor's failure to comply with all the terms of these
26 permits.

27

28 **8-20.2 Materials**

29

30 **Foam Conduit Sealant**

31 Section 9-29.1(11) is supplemented with the following:

32

33 (January 7, 2019)

34 The following products are accepted for use as foam conduit sealant:

35

- 36 • CRC Minimal Expansion Foam (No. 14077)
- 37 • Polywater FST Foam Duct Sealant
- 38 • Superior Industries Foam Seal
- 39 • Todol Duo Fill 400

40

41 ***Junction Boxes, Cable Vaults, and Pull Boxes***

42 Section 9-29.2 is supplemented with the following:

1
2 **(September 3, 2019)**

3 **Slip-Resistant Surfacing for Junction Boxes, Cable Vaults, and Pull Boxes**

4 Where slip-resistant junction boxes, cable vaults, or pull boxes are required, each
5 box or vault shall have slip-resistant surfacing material applied to the steel lid and
6 frame of the box or vault. Where the exposed portion of the frame is ½ inch wide or
7 less, slip-resistant surfacing material may be omitted from that portion of the frame.
8

9 Slip-resistant surfacing material shall be identified with a permanent marking on the
10 underside of each box or vault lid where it is applied. The permanent marking shall
11 be formed with a mild steel weld bead, with a line thickness of at least 1/8 inch. The
12 marking shall include a two character identification code for the type of material used
13 and the year of manufacture or application. The following materials are approved for
14 application as slip-resistant material, and shall use the associated identification
15 codes:
16

- 17 1. Harsco Industrial IKG, Mebac #1 - Steel: **M1**
- 18 2. W. S. Molnar Co., SlipNOT Grade 3 – Coarse: **S3**
- 19 3. Thermion, SafTrax TH604 Grade #1 – Coarse: **T1**
- 20
- 21
- 22

23 **(September 13, 2021)**

24 NEMA junction boxes and cover screws shall be Type 304 stainless steel.

25
26 **(*****)**

27 **9-29.2 (1) A2 Non – Concrete Junction Boxes**

28 Non-concrete junction boxes shall not be accepted in the City of Kirkland.
29

30 ***Pedestrian Push Buttons***

31 Section 9-29.19 is supplemented with the following:
32

33 **(January 13, 2021)**

34 **Accessible Pedestrian Signal (APS) Pushbuttons**

35 When required in the Contract, APS Pushbuttons shall be provided. Each accessible
36 pedestrian signal (APS) shall be a complete APS pushbutton system at each
37 pedestrian pushbutton location shown in the Plans. Equipment shall be one of the
38 following systems:
39

- 40 1. Campbell Company: Guardian Accessible Pedestrian Station; Part Number:
41 501-0811T/512
- 42 2. Novax / Pelco Products: IntelliCross Intelligent Pedestrian System APS;
43 Part Number: SE-2901-P30 9x15
- 44 3. Polara EZ Comm Navigator 4-Wire (EN4); Part Number: EN43TN1-B
- 45
- 46
- 47

48 Only one brand of equipment shall be used for the entire Contract.

49
50 Each pushbutton station shall include the following:
51

- 1 1. Flat dark green colored housing.
- 2
- 3 2. High contrast pushbutton arrow (dark on a light background or light on a
- 4 dark background). White on silver or silver on white are not acceptable as
- 5 high contrast.
- 6
- 7 3. Integral 9" x 15" R10-3e Sign. Braille shall not be included. Adaptor plates
- 8 shall be included if required to accommodate the sign.
- 9
- 10 4. Appropriate interface unit for installation in associated pedestrian display:
- 11
- 12 a. Campbell: Signal Power Interface (SPI) Unit
- 13
- 14 b. Novax/Pelco: Power Interface Module (PIM)
- 15
- 16 c. Polara: Ped Head Control Unit for 4 Wire Navigator (PHCU4W) Module
- 17
- 18 5. Percussive tone / rapid tick walk indication.
- 19
- 20 6. Voice messages, as specified below, pre-installed. Voice shall be male.
- 21
- 22 7. Interconnect cable for installation between pushbutton station and
- 23 pedestrian display interface unit. Unless otherwise specified in the
- 24 Contract, cable shall be provided by the pushbutton manufacturer. Cable
- 25 may be standard four conductor cable meeting the requirements of
- 26 Standard Specification 9-29.3(2)B if it meets the pushbutton manufacturers
- 27 requirements.
- 28

29 The following shall be provided at each intersection:

- 30
- 31 1. One USB flash drive with copies of all voice message audio files for that
- 32 intersection, placed in the traffic signal cabinet drawer or drawing envelope.
- 33 A separate flash drive is required for each intersection.
- 34
- 35 2. One USB cable of the appropriate type (A to A, A to B, male/female, etc.),
- 36 placed in the traffic signal cabinet drawer or drawing envelope.
- 37

38 Any other equipment or software required by the manufacturer for setup, operation,

39 and maintenance of the pushbutton stations shall be provided.

40

41 Dual button adaptor brackets are required for all installations with two APS

42 pushbuttons on the same Type PPB, Type PS, or Type I Signal Standard. Where

43 dual button adaptor brackets or extension brackets are required, they shall be

44 obtained from the same manufacturer as the pushbutton station. Brackets and

45 extensions from other manufacturers shall not be used.

46

47 **APS Speech Messages**

48 Speech messages shall be provided in the following format:

- 49
- 50
 - "Wait."
 - 51 • "Wait to cross ____ (A) ____ at ____ (B) ____."

1 • “Walk sign is on to cross ____ (A) ____.”
2
3 The following table lists the entries for (A) and (B) above, as well as quantities for
4 button and arrow orientations:
5
6 See Contract Plans
7
8 Order forms shall be completed by the Contractor using the information presented
9 above.
10
11 **8-20.2(1) Equipment List And Drawings**
12 Section 8-20.2(1) is supplemented with the following:
13
14 (March 13, 1995)
15 Pole base to light source distances (H1) for lighting standards with pre-approved
16 plans will be determined or verified by the Engineer at the request of the Contractor
17 prior to fabrication.
18
19 Pole base to light source distances (H1) for lighting standards without pre-approved
20 plans and for combination traffic signal and lighting standards will be furnished by the
21 Engineer as part of the final approved shop drawings prior to fabrication.
22
23 **8-20.3 CONSTRUCTION REQUIREMENTS**
24 *(DECEMBER 9, 2004 COK GSP)*
25 **8-20.3(14)C Induction Loop Vehicle Detectors**
26 Section 8-20.3(14)C is supplemented with the following:
27
28 **Construction Requirements**
29 All saw cuts shall be cleaned with pressurized water (1400 psi) and then blown dry with
30 heated pressurized air (100 psi) prior to the installation of wire. Care must be taken
31 when inserting wire. Only wooden tools shall be used to push wire into the saw cuts.
32 All loops shall have the number of turns shown in WSDOT Standard Plan J-8a. Lead-
33 ins from loops to junction boxes shall be twisted two turns per foot.
34
35 To prevent intersections from running “fixed time” longer than necessary, the Contractor
36 shall connect detectors as soon as possible after sawcutting. The maximum amount of
37 time allowable between cutting the loop and reconnecting the traffic signal loop shall be
38 7 calendar days.
39
40 Multiple installations of lead-in wire shall not be considered additional length.
41
42 Loop wires shall be connected to the lead-in cable using uninsulated butt splices. The
43 connection shall then be encapsulated using approved heat shrinkable, thin wall,
44 flexible, Polyolefin tubing.
45
46 All loops are to be individually wired and shall be returned to the nearest junction box
47 where loops shall be spliced in accordance with the Wiring Diagram in the plans.
48 Controller connections shall be made under the direction of the Project Engineer unless
49 otherwise noted on the Plans.
50

1 **(MAY 11, 2007 COK GSP)**
2 Following grinding or other surface preparation activities, the Contractor shall perform testing on
3 all existing vehicle detection loops in accordance with Section 8-20.3(14)D "Test C" of the
4 Standard Specifications. Testing shall be conducted under the supervision of the Inspector or
5 the City of Kirkland Signal Technician (828-7956).

6 Splices shall use molds per Section 9-29.12. The spliced wires shall be centered in the mold
7 prior to being encapsulated with epoxy. All splices shall be made by the City of Kirkland Signal
8 Technician.

9 Saw cuts shall be sealed with a one-part pre-mixed, elastomeric compound, MSI or approved
10 equal. The encapsulant shall be used in lieu of the rope and sealant specified in Section 8-
11 20.3(14)C and 9-29.18(1) and WSDOT Standard Plan J-8a.

12 Properly installed and cured encapsulant shall exhibit resistance to the effects of weather,
13 vehicular abrasion, motor oils, gasoline, antifreeze, brake fluid, deicing chemicals, and salt in
14 such a manner that loop wire performance is not adversely affected.

15 **Temporary Vehicle Detection**

16 The Contractor shall coordinate the installation of temporary vehicle detection devices at least
17 six (6) Working Days prior to performing any work that may cause damage to the existing vehicle
18 detection loops. Temporary vehicle detection devices will be provided and installed by the City.
19 Contact the City Signal Shop per Section 1-07.17 of these Special Provisions.

20 **8-20.3(14)D Test for Induction Loops and Lead-In Cable**

21 Section 8-20.3(14)D is supplemented with the following:

22
23 ***(DECEMBER 9, 2004 COK GSP)***

24 *Prior to installing the loop sealant material* the Contractor shall perform the required
25 inductance testing. The inductance of the loop shall be measured and the inductance
26 reading shall be between 60 and 120 microhenries. After the sealant has been installed,
27 and prior to connection to the lead-in cables, the inductance shall be measured again.
28 If any of the installations fails to pass all tests, the installation shall be repaired or
29 replaced and retested until satisfactory results are obtained. The results shall be
30 submitted to the Engineer prior to signal turn-on.

31

32

33 **8-21 PERMANENT SIGNING**

34

35 **8-21.2 Materials**

36

37 Section 8-21.2 is supplemented with the following:

38

39 (*****)

40 Sign sheeting shall be Type III (High Intensity Grade) retroreflective in accordance with
41 Section 9-28.

42

43 **8-21.3 Construction Requirements**

44

45 **8-21.3(5) Sign Relocation**

46 Section 8-02.3(10)B is supplemented with the following:

47

- 1 (*****)
2 Bus stop sign must be relocated by the Contractor after final placement of the curb,
3 gutter and sidewalk west of 108th Avenue NE and prior to sidewalks removal east of
4 108th Avenue NE starting. Prior to relocation the Contractor shall contact King County
5 Metro at construction.coord@kingcounty.gov. The following will need to be submitted
6 with the bus stop sign relocation request:
7 1. Approved Traffic Control Plans
8 2. Location of Project (Street Intersection)
9 3. Location of bus stop to be relocated
10 4. Name and cell number of primary on-site contact
11 5. Start and End dates of construction
12 6. Daily start and end times of work
13 7. Nature of work
14 8. Company name

15
16 Coordination with King County Metro shall be incidental to Permanent Signing, including
17 providing the requested information as stated above.
18

19 **8-22 PAVEMENT MARKINGS**

20 **8-22.1 Description**

21 Section 8-22.1 is supplemented with the following:
22
23

- 24 (*****)
25 All new longitudinal pavement markings shall be supplemented with raised pavement
26 markers per City of Kirkland Standard Plans CK-R.28A, CK-R.30 and CK-R.31.
27

28 **8-22.4 Measurement**

29 Section 8-22.4 is supplemented with the following:
30
31

- 32 (*****)
33 The measurement of "Plastic Conflict Zone Bike Lane Pavement Marking" will be based
34 on the square foot area of painted wide dotted white line and colored pavement applied
35 surface areas for bike lane marking as detailed in City of Kirkland Standard Plan No. CK-
36 R-36C.

37 **8-22.5 Payment**

38 Section 8-22.5 is supplemented with the following:
39
40

- 41 (*****)
42 The unit Contract price for "Plastic Bicycle Lane Symbol", per each, as detailed as the set
43 together of the plastic arrow and bicycle marking in the City of Kirkland Standard Plan No.
44 CK-R-34 shall be full pay for prepping, furnishing and placing the symbols on pavement
45 applied surface areas.

- 46 (*****)
47 The unit Contract price for "Plastic Conflict Zone Bike Lane Pavement Marking", per
48 square foot as detailed in City of Kirkland Standard Plan No. CK-R-36C shall be full pay
49 for prepping, furnishing and placing painted wide dotted white line and plastic colored
50 pavement applied surface areas.
51

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- 31

Section 8-26 is added as follows:

This work shall consist of furnishing and installing handrail in accordance with the Plans, Standard Plans, and these Specifications, at the locations shown in the Plans or as staked by the Engineer.

Materials shall be as shown in the plans.

Handrail shall be installed as shown on the plans. Wall manufacturer must submit a working drawing and design calculations for approval of the rail connection to the block wall prior to rail installation.

Measurement for handrail will be by the linear feet of installed handrail per the plans or as directed by the Engineer.

Payment will be made in accordance with Section 1-04.1, for the following bid items:

The unit contract price for "handrail" shall be full compensation for all labor, tools, material and equipment necessary to install the handrail per the plans.

NE 132ND ST/ 108TH AVE NE
SPECIAL PROVISIONS

Division 9

Materials

9-14 EROSION CONTROL AND ROADSIDE PLANTING

9-14.2 Topsoil

9-14.2(1) Topsoil Type A

Section 9.14.2(1) is supplemented with the following:

Topsoil Type A shall be a three-way mix soil consisting of forty-five percent (35%) Sandy Loam, twenty-five percent (25%) Backfill for Sand Drains, and forty-percent (40%) Medium Compost by volume, thoroughly mixed together. The mixed soil shall have an organic content between 10% to 15% by weight as tested by the Loss by Ignitions method and pH range of 5.0 to 7.0.

Medium Compost shall comply with the requirements of Section 9-14.5(8).

Backfill for Sand Drains shall comply with the requirements of Section 9-03.13.

Sandy Loam shall not contain any viable seeds or roots capable of sprouting any State-listed noxious weed, or invasive root-propagating plants including but not limited to evergreen blackberry, horsetail, ivy, clematis, knotweed, etc. Soil found to contain these prohibited viable plant materials shall be removed to the full depth of placement and replaced at the Contractor's expense.

Sandy Loam shall meet the following parameters:

Parameter	Range
Organic matter	2% min. – 8%max (by weight)

Sandy Loam Particle Size Requirements:

Sieve Size	Percent Passing
3/4"	100%
1/2"	98%
1/4"	85%
#10	70%
#18	50%
#30	40%
#60	30%
#100	25%
#200	<30%
#270	<25%
2 µm	<20%

The Contractor shall send minimum of one (1) representative sample of Topsoil Type A to an approved soil-testing laboratory (State or commercial laboratory) for approval prior to use on the project site. Test method must meet ASTM D2974 and must include testing date, test method used, and test company.

The Contractor shall be responsible for whatever Topsoil additives may be required, as recommended by the testing laboratory. The cost for testing and Topsoil additives shall be borne by the Contractor and be considered incidental to the Contract unit price for "Topsoil Type A". Testing shall be performed in accordance with the most current edition of Methods of Soil Analysis published by the Soil Science Society of America, Inc. The soil test analysis reports and recommendations for Topsoil additives shall include the following:

1. Fertility Analysis

Extractable analyses: nitrate nitrogen, ammonium nitrogen, phosphorous, potassium, calcium, magnesium, copper, zinc, manganese and iron.

Saturation extract values: calcium, magnesium, potassium, sodium, boron, sulfate, pH, lime content, salinity and sodium adsorption ratio (SAR).

2. Organic Content and Particle Size Appraisal

Organic percent by oven dried weight, and USDA Particle size. Organic content based on loss-on-ignition testing method.

3. Cation Exchange Capacity (CEC)

4. Recommendations

Written and signed statement from the testing laboratory that they have reviewed the planting Plans and the planting Specifications, and that their recommendations respond to the specific needs of the Contract.

Submit soil laboratory tests for Topsoil Type A and supplier's certification of Fine Compost and Backfill for Sand Drains for the Engineer's review and approval prior to installing Topsoil Type A.

9-14.3 Seed

Section 9-14.3 is supplemented with the following:

Seed used shall be composed of the following varieties mixed in the properties indicated:

<u>Seed Kind and Variety</u>	<u>Percent by Weight</u>
Turf-type Perennial Rye (3 types)	100

The rate of application shall be 8 pounds per 1000 square feet. No noxious weeds will be permitted. The seed mixture shall be no less than 98 percent pure, shall have a minimum germination rate of 80 percent, and shall have no more than 0.5 percent weed seed.

9-14.4 Fertilizer

Section 9-14.4 is revised to read as follows:

Fertilizer shall be formulated per soil laboratory recommendations. See Topsoil Type A in Section 9-14.2(1) and Mulch and Amendments in Section 8-02.3(6).

1 **9-14.5(3) Bark or Wood Chip Mulch**

2 Section 9-14.5(3) is revised to read as follows:

3
4 Bark or Wood Chip Mulch shall be bark derived from Douglas Fir and Western Hemlock tree
5 species. Bark is defined as the outermost coarse protective layer of the tree, located outside
6 of the cambium layer. It shall be ground so that a minimum of 95-percent, by volume, of the
7 material will pass through a 1-inch sieve. Ground bark shall not contain elements in quantities
8 that would be detrimental to plant life. Wood cellulose tissue fiber (wood pulp), wood waste,
9 wood shavings, wood sawdust, wood chips, or any product that contains greater than 5-
10 percent, by volume, of the hard, lignified wood portion of the tree will not be accepted.)

11
12 **9-14.7 Plant Materials**

13
14 **9-14.7(2) Quality**

15 Section 9-14.7(2) is supplemented with the following:

16
17 The review and preliminary approval of all plant materials by the Engineer prior to
18 planting is mandatory. The Contractor has three (3) options to secure approval of
19 plant materials:

- 20
21 1. Submit plant samples to the Engineer's office and/or have samples
22 available at the project site for review during scheduled visits.
- 23 2. Submit color photographs of representative specimens of each type of
24 plant on the plant schedule. Photos shall be minimum 3 x 5 inches and
25 minimum 150 DPI if digital format. Photographs shall be taken from an
26 angle that depicts the condition of foliage, the rootball, and the size of each
27 typical plant to be furnished. A scale rod or other measuring device shall be
28 included in the photograph. For species where more than twenty (20)
29 plants are required, include a minimum of three (3) photos that show the
30 average plant, the best quality plant, and the worst quality plant to be
31 provided. Label each photograph with the plant name, plant size, and
32 name of the growing nursery.
- 33 3. Have the Engineer review plants at the place of growth at the Contractor's
34 expense.
35

36 **9-14.9 Root Barrier**

37 Section 9-14.9 is added as a new section:

38
39 Root Barrier shall be made of polypropylene, DeepRoot UB-18-2, 36 inch long panels, or
40 acceptable equal.

41
42 Root Barrier available from:

43
44 Berkey Supply
45 Woodinville, Washington
46 Tel: (800) 959-8353
47 Web: www.deeprooot.com

1

2 **Appendices**
3 **(January 2, 2012)**

4 The following appendices are attached and made a part of this contract:

5

6 APPENDIX A:
7 Pre-Approved Plans.

8

9 **(September 13, 2021)**
10 **Standard Plans**

11 The State of Washington Standard Plans for Road, Bridge and Municipal Construction M21-
12 01, effective September 13, 2021, is made a part of this contract.

13

14 The Standard Plans are revised as follows:

15

16 B-90.40
17 Valve Detail – DELETED

18

19 C-8
20 DELETED

21

22 C-8A
23 DELETED

24

25 C-60.10
26 Sheet 1, ADD Note: NOTE: STEEL WELDED WIRE REINFORCEMENT DEFORMED
27 FOR CONCRETE MAY BE SUBSTITUTED FOR REINFORCING STEEL IN
28 ACCORDANCE WITH STANDARD SPECIFICATION, SECTION 6-10.3

29

30 Sheet 2, New Note 5: The connecting pin may be fabricated with a forged head as shown
31 on Standard Plan C-60.15.”

32

33 C-85.16
34 DELETED

35

36 C-85.20
37 DELETED

38

39 D-10.10
40 Wall Type 1 may be used if no traffic barrier is attached on top of the wall. Walls with traffic
41 barriers attached on top of the wall are considered non-standard and shall be designed
42 in accordance with the current WSDOT Bridge Design Manual (BDM) and the revisions
43 stated in the 11/3/15 Bridge Design memorandum.

44

45 D-10.15
46 Wall Type 2 may be used if no traffic barrier is attached on top of the wall. Walls with traffic
47 barriers attached on top of the wall are considered non-standard and shall be designed

1 in accordance with the current WSDOT BDM and the revisions stated in the 11/3/15
2 Bridge Design memorandum.
3
4 D-10.30
5 Wall Type 5 may be used in all cases.
6
7 D-10.35
8 Wall Type 6 may be used in all cases.
9
10 D-10.40
11 Wall Type 7 may be used if no traffic barrier is attached on top of the wall. Walls with traffic
12 barriers attached on top of the wall are considered non-standard and shall be designed
13 in accordance with the current WSDOT BDM and the revisions stated in the 11/3/15
14 Bridge Design memorandum.
15
16 D-10.45
17 Wall Type 8 may be used if no traffic barrier is attached on top of the wall. Walls with traffic
18 barriers attached on top of the wall are considered non-standard and shall be designed
19 in accordance with the current WSDOT BDM and the revisions stated in the revisions
20 stated in the 11/3/15 Bridge Design memorandum.
21
22 D-15.10
23 STD Plans D-15 series "Traffic Barrier Details for Reinforced Concrete Retaining Walls"
24 are withdrawn. Special designs in accordance with the current WSDOT BDM are required
25 in place of these STD Plans.
26
27 D-15.20
28 STD Plans D-15 series "Traffic Barrier Details for Reinforced Concrete Retaining Walls"
29 are withdrawn. Special designs in accordance with the current WSDOT BDM are required
30 in place of these STD Plans.
31
32 D-15.30
33 STD Plans D-15 series "Traffic Barrier Details for Reinforced Concrete Retaining Walls"
34 are withdrawn. Special designs in accordance with the current WSDOT BDM are required
35 in place of these STD Plans.
36
37 G-90.11
38 DELETED
39
40 G-90.40
41 DELETED
42
43 J-20.26
44 Add Note 1, "1. One accessible pedestrian pushbutton station per pedestrian pushbutton
45 post."
46
47 J-20.16
48 View A, callout, was – LOCK NIPPLE, is revised to read; CHASE NIPPLE
49
50 J-21.10

1 Sheet 1, Elevation View, Round Concrete Foundation Detail, callout – “ANCHOR BOLTS
2 ~ 3/4” (IN) x 30” (IN) FULL THREAD ~ THREE REQ'D. PER ASSEMBLY” IS REVISED TO
3 READ: “ANCHOR BOLTS ~ 3/4” (IN) x 30” (IN) FULL THREAD ~ FOUR REQ'D. PER
4 ASSEMBLY”
5 Sheet 1 of 2, Elevation view (Round), add dimension depicting the distance from the top
6 of the foundation to find 2 #4 reinforcing bar shown, to read; 3” CLR.. Delete “(TYP.)” from
7 the 2 1/2” CLR. dimension, depicting the distance from the bottom of the foundation to find
8 2 # 4 reinf. Bar.
9 Sheet 1 of 2, Elevation view (Square), add dimension depicting the distance from the top
10 of the foundation to find 1 #4 reinforcing bar shown, to read; 3” CLR. Delete “(TYP.)” from
11 the 2 1/2” CLR. dimension, depicting the distance from the bottom of the foundation to find
12 1 # 4 reinf. Bar.
13 Sheet 2 of 2, Elevation view (Round), add dimension depicting the distance from the top
14 of the foundation to find 2 #4 reinforcing bar shown, to read; 3” CLR. Delete “(TYP.)” from
15 the 2 1/2” CLR. dimension, depicting the distance from the bottom of the foundation to find
16 2 # 4 reinf. Bar.
17 Sheet 2 of 2, Elevation view (Square), add dimension depicting the distance from the top
18 of the foundation to find 1 #4 reinforcing bar shown, to read; 3” CLR. Delete “(TYP.)” from
19 the 2 1/2” CLR. dimension, depicting the distance from the bottom of the foundation to find
20 1 # 4 reinf. Bar.
21 Detail F, callout, “Heavy Hex Clamping Bolt (TYP.) ~ 3/4” (IN) Diam. Torque Clamping
22 Bolts (see Note 3)” is revised to read; “Heavy Hex Clamping Bolt (TYP.) ~ 3/4” (IN) Diam.
23 Torque Clamping Bolts (see Note 1)”
24 Detail F, callout, “3/4” (IN) x 2' – 6” Anchor Bolt (TYP.) ~ Four Required (See Note 4)” is
25 revised to read; “3/4” (IN) x 2' – 6” Anchor Bolt (TYP.) ~ Three Required (See Note 2)”
26
27 J-21.15
28 Partial View, callout, was – LOCK NIPPLE ~ 1 1/2” DIAM., is revised to read; CHASE
29 NIPPLE ~ 1 1/2” (IN) DIAM.
30
31 J-21.16
32 Detail A, callout, was – LOCKNIPPLE, is revised to read; CHASE NIPPLE
33
34 J-22.15
35 Ramp Meter Signal Standard, elevation, dimension 4' - 6” is revised to read; 6'-0”
36 (2x) Detail A, callout, was – LOCK NIPPLE ~ 1 1/2” DIAM. is revised to read; CHASE
37 NIPPLE ~ 1 1/2” (IN) DIAM.
38
39 J-40.10
40 Sheet 2 of 2, Detail F, callout, “12 – 13 x 1 1/2” S.S. PENTA HEAD BOLT AND 12” S. S.
41 FLAT WASHER” is revised to read; “12 – 13 x 1 1/2” S.S. PENTA HEAD BOLT AND 1/2”
42 (IN) S. S. FLAT WASHER”
43
44 J-40.36
45 Note 1, second sentence; “Finish shall be # 2B for backbox and # 4 for the cover.” Is
46 revised to read; “Finish shall be # 2B for barrier box and HRAP (Hot Rolled Annealed and
47 Pickled) for the cover.
48
49 J-40.37

1	Note 1, second sentence; "Finish shall be # 2B for backbox and # 4 for the cover." Is		
2	revised to read; "Finish shall be # 2B for barrier box and HRAP (Hot Rolled Annealed and		
3	Pickled) for the cover.		
4			
5	<u>J-75.20</u>		
6	Key Notes, note 16, second bullet point, was: "1/2" (IN) x 0.45" (IN) Stainless Steel		
7	Bands", add the following to the end of the note: "Alternate: Stainless steel cable with		
8	stainless steel ends, nuts, bolts, and washers may be used in place of stainless steel		
9	bands and associated hardware."		
10			
11	The following are the Standard Plan numbers applicable at the time this project was		
12	advertised. The date shown with each plan number is the publication approval date		
13	shown in the lower right-hand corner of that plan. Standard Plans showing different dates		
14	shall not be used in this contract.		
15			
	A-10.10-00.....8/7/07	A-30.35-00.....10/12/07	A-50.10-01.....8/17/21
	A-10.20-00.....10/5/07	A-40.00-00.....8/11/09	A-50.40-01.....8/17/21
	A-10.30-00.....10/5/07	A-40.10-04.....7/31/19	A-60.10-03.....12/23/14
	A-20.10-00.....8/31/07	A-40.15-00.....8/11/09	A-60.20-03.....12/23/14
	A-30.10-00.....11/8/07	A-40.20-04.....1/18/17	A-60.30-01.....6/28/18
	A-30.30-01.....6/16/11	A-40.50-02.....12/23/14	A-60.40-00.....8/31/07
16			
	B-5.20-03.....9/9/20	B-30.50-03.....2/27/18	B-75.20-03.....8/17/21
	B-5.40-02.....1/26/17	B-30.60-00.....9/9/20	B-75.50-01.....6/10/08
	B-5.60-02.....1/26/17	B-30.70-04.....2/27/18	B-75.60-00.....6/8/06
	B-10.20-02.....3/2/18	B-30.80-01.....2/27/18	B-80.20-00.....6/8/06
	B-10.40-02.....8/17/21	B-30.90-02.....1/26/17	B-80.40-00.....6/1/06
	B-10.70-02.....8/17/21	B-35.20-00.....6/8/06	B-85.10-01.....6/10/08
	B-15.20-01.....2/7/12	B-35.40-00.....6/8/06	B-85.20-00.....6/1/06
	B-15.40-01.....2/7/12	B-40.20-00.....6/1/06	B-85.30-00.....6/1/06
	B-15.60-02.....1/26/17	B-40.40-02.....1/26/17	B-85.40-00.....6/8/06
	B-20.20-02.....3/16/12	B-45.20-01.....7/11/17	B-85.50-01.....6/10/08
	B-20.40-04.....2/27/18	B-45.40-01.....7/21/17	B-90.10-00.....6/8/06
	B-20.60-03.....3/15/12	B-50.20-00.....6/1/06	B-90.20-00.....6/8/06
	B-25.20-02.....2/27/18	B-55.20-03.....8/17/21	B-90.30-00.....6/8/06
	B-25.60-02.....2/27/18	B-60.20-02.....9/9/20	B-90.40-01.....1/26/17
	B-30.05-00.....9/9/20	B-60.40-01.....2/27/18	B-90.50-00.....6/8/06
	B-30.10-03.....2/27/18	B-65.20-01.....4/26/12	B-95.20-02.....8/17/21
	B-30.15-00.....2/27/18	B-65.40-00.....6/1/06	B-95.40-01.....6/28/18
	B-30.20-04.....2/27/18	B-70.20-00.....6/1/06	
	B-30.30-03.....2/27/18	B-70.60-01.....1/26/17	
	B-30.40-03.....2/27/18		
17			
	C-1.....9/9/20	C-22.16-07.....9/16/20	C-60.70-00.....9/24/20
	C-1b.....9/9/20	C-22.40-08.....9/16/20	C-60.80-00.....8/17/21
	C-1d.....10/31/03	C-22.45-05.....9/16/20	C-70.15-00.....8/17/21
	C-2c.....8/12/19	C-23.60-04.....7/21/17	C-70.10-03.....8/20/21
	C-4f.....8/12/19	C-24.10-02.....8/12/19	C-75.10-02.....9/16/20
	C-6a.....10/14/09	C-25.20-07.....8/20/21	C-75.20-03.....8/20/21
	C-7.....6/16/11	C-25.22-06.....8/20/21	C-75.30-03.....8/20/21
	C-7a.....6/16/11	C-25.26-05.....8/20/21	C-80.10-02.....9/16/20

	C-8.....2/10/09	C-25.30-01.....8/20/21	C-80.20-01.....6/11/14
	C-8a.....7/25/97	C-25.80-05.....8/12/19	C-80.30-02.....8/20/21
	C-20.10-07.....8/20/21	C-60.10-01.....9/24/20	C-80.40-01.....6/11/14
	C-20.14-04.....8/12/19	C-60.15-00.....8/17/21	C-85.10-00.....4/8/12
	C-20.15-02.....6/11/14	C-60.20-00.....9/24/20	C-85.11-01.....9/16/20
	C-20.18-03.....8/12/19	C-60.30-01.....8/17/21	C-85.15-02.....8/27/21
	C-20.40-08.....8/20/21	C-60.40-00.....8/17/21	C-85-18-02.....8/20/21
	C-20.41-03.....8/20/21	C-60.45-00.....8/17/21	
	C-20.42-05.....7/14/15	C-60.50-00.....8/17/21	
	C-20.45-02.....8/12/19	C-60.60-00.....8/17/21	
1	D-2.04-00.....11/10/05	D-2.80-00.....11/10/05	D-10.10-01.....12/2/08
	D-2.06-01.....1/6/09	D-2.84-00.....11/10/05	D-10.15-01.....12/2/08
	D-2.08-00.....11/10/05	D-2.88-00.....11/10/05	D-10.20-01.....8/7/19
	D-2.32-00.....11/10/05	D-2.92-00.....11/10/05	D-10.25-01.....8/7/19
	D-2.34-01.....1/6/09	D-3.09-00.....5/17/12	D-10.30-00.....7/8/08
	D-2.36-03.....6/11/14	D-3.10-01.....5/29/13	D-10.35-00.....7/8/08
	D-2.46-02.....8/13/21	D-3.11-03.....6/11/14	D-10.40-01.....12/2/08
	D-2.60-00.....11/10/05	D-3.15-02.....6/10/13	D-10.45-01.....12/2/08
	D-2.62-00.....11/10/05	D-3.16-02.....5/29/13	
	D-2.64-01.....1/6/09	D-3.17-02.....5/9/16	
	D-2.66-00.....11/10/05	D-4.....12/11/98	
	D-2.68-00.....11/10/05	D-6.....6/19/98	
2	E-1.....2/21/07	E-4.....8/27/03	
	E-2.....5/29/98	E-4a.....8/27/03	
3	F-10.12-04.....9/24/20	F-10.62-02.....4/22/14	F-40.15-04.....9/25/20
	F-10.16-00.....12/20/06	F-10.64-03.....4/22/14	F-40.16-03.....6/29/16
	F-10.18-02.....9/24/20	F-30.10-04.....9/25/20	F-45.10-03.....8/13/21
	F-10.40-04.....9/24/20	F-40.12-03.....6/29/16	F-80.10-04.....7/15/16
	F-10.42-00.....1/23/07	F-40.14-03.....6/29/16	
4	G-10.10-00.....9/20/07	G-26.10-00.....7/31/19	
	G-20.10-03.....8/20/21	G-30.10-04.....6/23/15	
	G-22.10-04.....6/28/18	G-50.10-03.....6/28/18	
	G-24.10-00.....11/8/07	G-90.10-03.....7/11/17	
	G-24.20-01.....2/7/12	G-90.20-05.....7/11/17	
	G-24.30-02.....6/28/18	G-90.30-04.....7/11/17	
	G-24.40-07.....6/28/18	G-95.10-02.....6/28/18	
	G-24.50-05.....8/7/19	G-95.20-03.....6/28/18	
	G-24.60-05.....6/28/18	G-95.30-03.....6/28/18	
	G-25.10-05.....9/16/20		
5	H-10.10-00.....7/3/08	H-32.10-00.....9/20/07	H-70.10-02.....8/17/21
	H-10.15-00.....7/3/08	H-60.10-01.....7/3/08	H-70.20-02.....8/17/21
	H-30.10-00.....10/12/07	H-60.20-01.....7/3/08	
6	I-10.10-01.....8/11/09	I-30.20-00.....9/20/07	I-40.20-00.....9/20/07
	I-30.10-02.....3/22/13	I-30.30-02.....6/12/19	I-50.20-01.....6/10/13
	I-30.15-02.....3/22/13	I-30.40-02.....6/12/19	I-60.10-01.....6/10/13

	I-30.16-01.....7/11/19	I-30.60-02.....6/12/19	I-60.20-01.....6/10/13
	I-30.17-01.....6/12/19	I-40.10-00.....9/20/07	I-80.10-02.....7/15/16
1	J-10.....7/18/97	J-28.40-02.....6/11/14	J-60.13-00.....6/16/10
	J-10.10-04.....9/16/20	J-28.42-01.....6/11/14	J-60.14-01.....7/31/19
	J-10.12-00.....9/16/20	J-28.43-01.....6/28/18	J-75.10-02.....7/10/15
	J-10.14-00.....9/16/20	J-28.45-03.....7/21/16	J-75.20-01.....7/10/15
	J-10.15-01.....6/11/14	J-28.50-03.....7/21/16	J-75.30-02.....7/10/15
	J-10.16-02.....8/18/21	J-28.60-03.....8/27/21	J-75.41-01.....6/29/16
	J-10.17-02.....8/18/21	J-28.70-03.....7/21/17	J-75.45-02.....6/1/16
	J-10.18-02.....8/18/21	J-29.10-01.....7/21/16	J-80.10-01.....8/18/21
	J-10.20-04.....8/18/21	J-29.15-01.....7/21/16	J-80.12-00.....8/18/21
	J-10.21-02.....8/18/21	J-29.16-02.....7/21/16	J-80.15-00.....6/28/18
	J-10.22-02.....8/18/21	J-30.10-00.....6/18/15	J-81.10-02.....8/18/21
	J-10.25-00.....7/11/17	J-40.05-00.....7/21/16	J-81.12-00.....9/3/21
	J-12.15-00.....6/28/18	J-40.10-04.....4/28/16	J-86.10-00.....6/28/18
	J-12.16-00.....6/28/18	J-40.20-03.....4/28/16	J-90.10-03.....6/28/18
	J-15.10-01.....6/11/14	J-40.30-04.....4/28/16	J-90.20-03.....6/28/18
	J-15.15-02.....7/10/15	J-40.35-01.....5/29/13	J-90.21-02.....6/28/18
	J-20.10-04.....7/31/19	J-40.36-02.....7/21/17	J-90.50-00.....6/28/18
	J-20.11-03.....7/31/19	J-40.37-02.....7/21/17	
	J-20.15-03.....6/30/14	J-40.38-01.....5/20/13	
	J-20.16-02.....6/30/14	J-40.39-00.....5/20/13	
	J-20.20-02.....5/20/13	J-40.40-02.....7/31/19	
	J-20.26-01.....7/12/12	J-45.36-00.....7/21/17	
	J-21.10-04.....6/30/14	J-50.05-00.....7/21/17	
	J-21.15-01.....6/10/13	J-50.10-01.....7/31/19	
	J-21.16-01.....6/10/13	J-50.11-02.....7/31/19	
	J-21.17-01.....6/10/13	J-50.12-02.....8/7/19	
	J-21.20-01.....6/10/13	J-50.13-00.....8/22/19	
	J-22.15-02.....7/10/15	J-50.15-01.....7/21/17	
	J-22.16-03.....7/10/15	J-50.16-01.....3/22/13	
	J-26.10-03.....7/21/16	J-50.18-00.....8/7/19	
	J-26.15-01.....5/17/12	J-50.19-00.....8/7/19	
	J-26.20-01.....6/28/18	J-50.20-00.....6/3/11	
	J-27.10-01.....7/21/16	J-50.25-00.....6/3/11	
	J-27.15-00.....3/15/12	J-50.30-00.....6/3/11	
	J-28.10-02.....8/7/19	J-60.05-01.....7/21/16	
	J-28.22-00.....8/07/07	J-60.11-00.....5/20/13	
	J-28.24-02.....9/16/20	J-60.12-00.....5/20/13	
	J-28.26-01.....12/02/08		
	J-28.30-03.....6/11/14		
2	K-70.20-01.....6/1/16	K-80.35-01.....9/16/20	
	K-80.10-02.....9/25/20	K-80.37-01.....9/16/20	
	K-80.20-00.....12/20/06		
	K-80.32-00.....8/17/21		
	K-80.34-00.....8/17/21		
3	L-10.10-02.....6/21/12	L-40.15-01.....6/16/11	L-70.10-01.....5/21/08
	L-20.10-03.....7/14/15	L-40.20-02.....6/21/12	L-70.20-01.....5/21/08

1	L-30.10-02.....6/11/14		
	M-1.20-04.....9/25/20	M-11.10-03.....8/7/19	M-40.20-00.....10/12/07
	M-1.40-03.....9/25/20	M-12.10-02.....9/25/20	M-40.30-01.....7/11/17
	M-1.60-03.....9/25/20	M-15.10-01.....2/6/07	M-40.40-00.....9/20/07
	M-1.80-03.....6/3/11	M-17.10-02.....7/3/08	M-40.50-00.....9/20/07
	M-2.20-03.....7/10/15	M-20.10-03.....9/25/20	M-40.60-00.....9/20/07
	M-2.21-00.....7/10/15	M-20.20-02.....4/20/15	M-60.10-01.....6/3/11
	M-3.10-04.....9/25/20	M-20.30-04.....2/29/16	M-60.20-03.....8/17/21
	M-3.20-03.....9/25/20	M-20.40-03.....6/24/14	M-65.10-03.....8/17/21
	M-3.30-04.....9/25/20	M-20.50-02.....6/3/11	M-80.10-01.....6/3/11
	M-3.40-04.....9/25/20	M-24.20-02.....4/20/15	M-80.20-00.....6/10/08
	M-3.50-03.....9/25/20	M-24.40-02.....4/20/15	M-80.30-00.....6/10/08
	M-5.10-03.....9/25/20	M-24.60-04.....6/24/14	
	M-7.50-01.....1/30/07	M-24.65-00.....7/11/17	
	M-9.50-02.....6/24/14	M-24.66-00.....7/11/17	
	M-9.60-00.....2/10/09	M-40.10-03.....6/24/14	

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16
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END OF DIVISON 9

PREVAILING WAGE RATES



City of Kirkland

PREVAILING WAGE RATES

Prevailing wage rates can be found at:

www.lni.wa.gov/tradeslicensing/prevwage/wagerates

Use 2021 rates

(published date – August 2, 2021)

King County

A copy of the applicable wage rates is available for viewing in our office:

City Hall Annex
310 1st Street
Kirkland, WA 98033

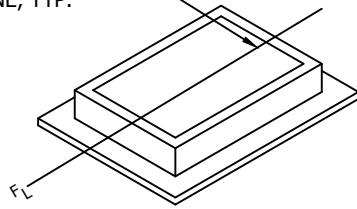
The City of Kirkland will mail a hard copy of the applicable wage rates upon request.
Send your request to the Project Engineer, or Jvandervart@kirklandwa.gov

APPENDIX A

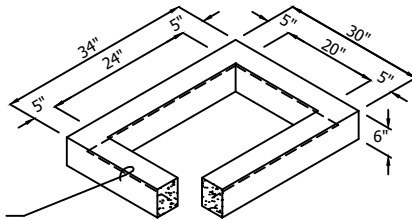
PRE-APPROVED PLANS

**ALIGNMENT OF STRUCTURE
TO PIPE FLOWLINE, TYP.**

LAST REVISED: 01/2020

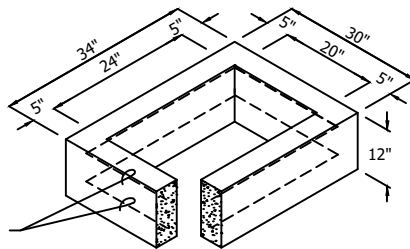


FRAME AND GRATE
SEE STANDARD DETAILS D.11 - D.16



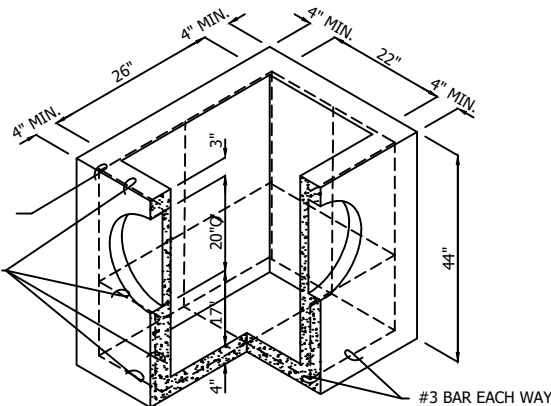
1 #3 BAR HOOP

6" RISER SECTION



2 #3 BAR HOOPS

12" RISER SECTION



#3 BAR EACH CORNER

#3 BAR EACH SIDE

#3 BAR EACH WAY

PRECAST BASE SECTION
(MEASUREMENT AT THE TOP OF THE BASE)

NOTES:

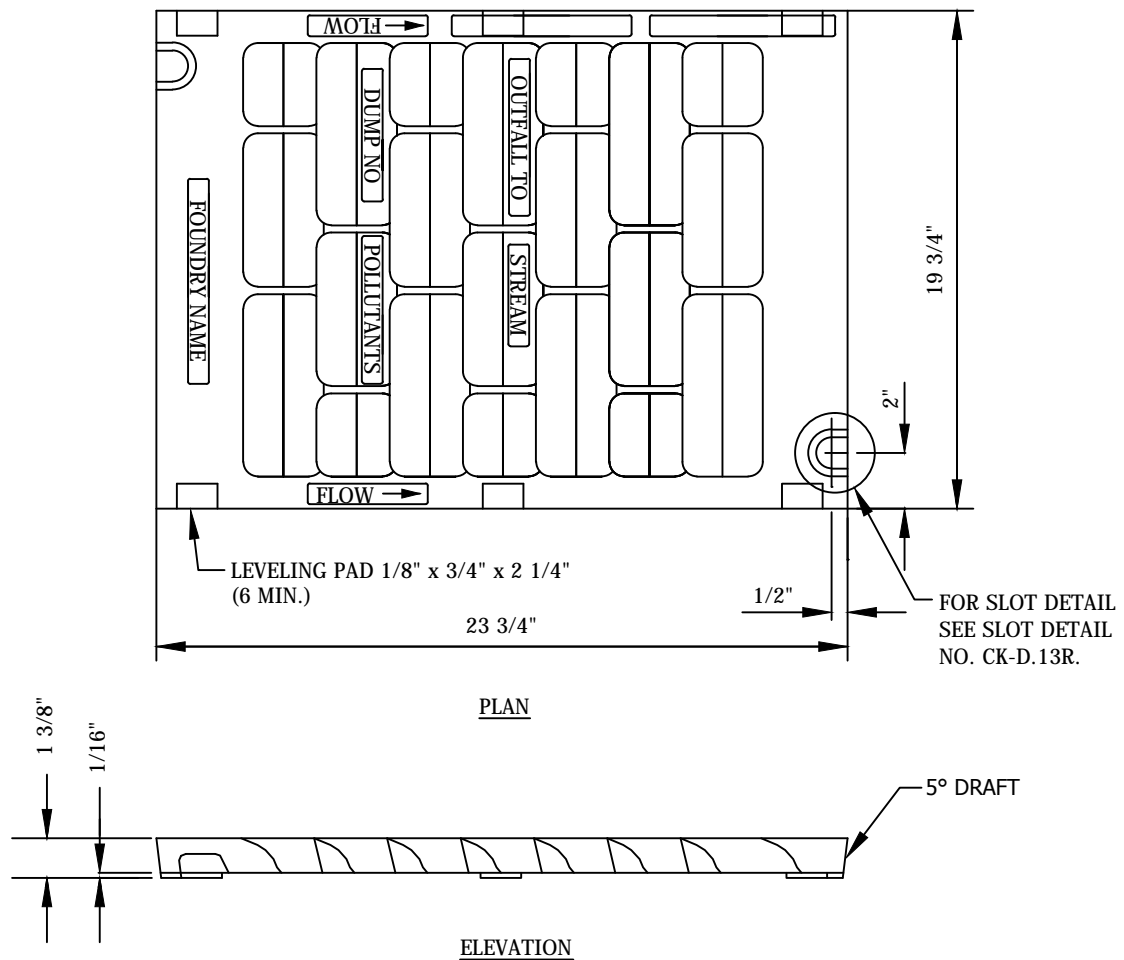
1. CATCH BASINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ASTM C478 (AASHTO M 199) & C890 UNLESS OTHERWISE SHOWN ON PLANS OR NOTED IN THE STANDARD SPECIFICATIONS.
2. AS AN ACCEPTABLE ALTERNATIVE TO REBAR, WELDED WIRE FABRIC HAVING A MIN. AREA OF 0.12 SQUARE INCHES PER FOOT MAY BE USED. WELDED WIRE FABRIC SHALL COMPLY TO ASTM A497 (AASHTO M 221). WIRE FABRIC SHALL NOT BE PLACED IN KNOCKOUTS.
3. ALL REINFORCED CAST-IN-PLACE CONCRETE SHALL BE CLASS 4000.
4. PRECAST BASES SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MIN. ALL PIPE SHALL BE INSTALLED IN FACTORY PROVIDED KNOCKOUTS. UNUSED KNOCKOUTS NEED NOT BE GROUTED IF WALL IS LEFT INTACT.
5. KNOCKOUT OR CUTOUT HOLE SIZE IS EQUAL TO PIPE OUTER DIAM. PLUS CATCH BASIN WALL THICKNESS.
6. ROUND KNOCKOUTS MAY BE ON ALL 4 SIDES, WITH MAX. DIAM. OF 20". KNOCKOUTS MAY BE EITHER ROUND OR "D" SHAPE.
7. THE MAX. DEPTH FROM THE FINISHED GRADE TO THE PIPE INVERT IS 5'-0".
8. THE TAPER ON THE SIDES OF THE PRECAST BASE SECTION AND RISER SECTION SHALL NOT EXCEED 1/2" FT.
9. CATCH BASIN FRAME AND GRATE SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS. MATING SURFACES SHALL BE FINISHED TO ASSURE NON-ROCKING FIT WITH ANY COVER POSITION.
10. FRAME AND GRATE SHALL BE INSTALLED WITH FLANGE DOWN.
11. EDGE OF RISER OR BRICK SHALL NOT BE MORE THAN 2" FROM VERTICAL EDGE OF CATCH BASIN WALL.
12. ACCEPTABLE PIPE SIZES ARE 6", 8", 12" OR 15".
13. ROUND SOLID LIDS REQUIRED WHENEVER CATCH BASIN DOES NOT COLLECT SURFACE WATER.
14. ROUND CONCRETE RISERS ARE REQUIRED FOR ROUND SOLID LOCKING LIDS.

CITY OF KIRKLAND

PLAN NO. CK-D.07



**CATCH BASIN
TYPE 1**



NOTES:

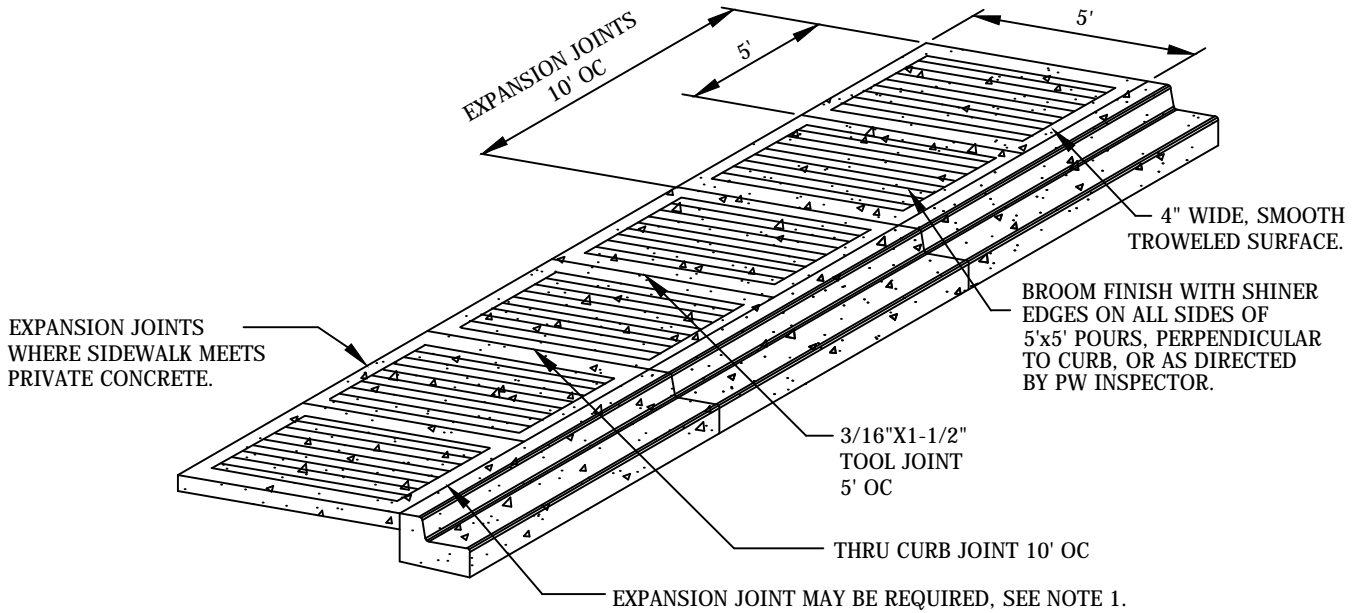
1. USE EAST JORDAN IRON WORKS OR EQUAL TWO BOLT LOCK CAPABILITY THAT MEETS WSDOT SPEC. MANUFACTURER SUBJECT TO APPROVAL BY CITY.
2. USE WITH TWO LOCKING BOLTS 5/8"-11 NC STAINLESS TYPE 304 STEEL SOCKET HEAD (ALLEN HEAD) BOLTS, 2" LONG. NOTE SLOT DETAIL.
3. MATERIAL IS DUCTILE IRON ASTM A536 GRADE 80-55-06.
4. "OUTFALL TO STREAM DUMP NO POLLUTANTS" MAY BE LOCATED ON BORDER AREA.
5. SHALL CONFORM TO SEC. 7.05 OF THE STANDARD SPECIFICATIONS.
6. WELDING IS NOT PERMITTED.
7. EDGES SHALL HAVE 0.125" RADIUS, 0.125" CHAMBER OR COMPLETE DEBURRING.
8. USE A BI-DIRECTIONAL VANED GRATE AT ANY LOW POINT OR WHEN FLOWS COME FROM MULTIPLE DIRECTIONS.
9. NO EXPANSION MATERIAL IN THE FLOW LINE, WHERE CONCRETE COMES TO FRAME.
10. FRAME AND COVER SHALL BE H-20 LOADING RATED IF INSTALLED IN ROADWAY.

CITY OF KIRKLAND

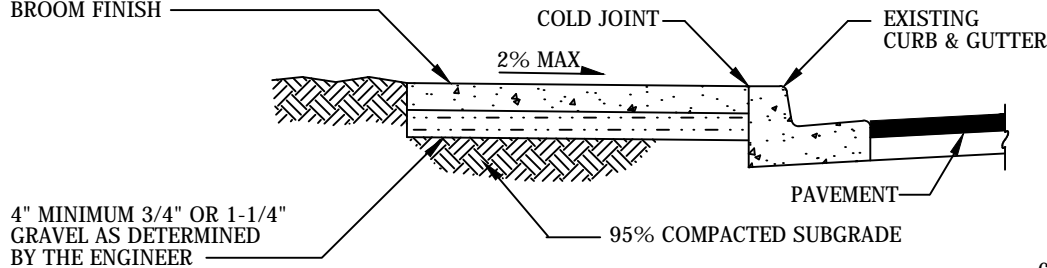
PLAN NO. CK- D.14



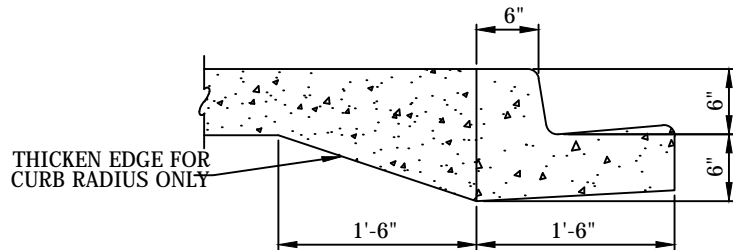
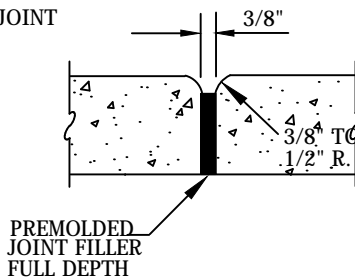
**VANED GRATE
FOR CATCH BASIN
AND INLET**



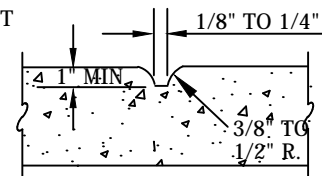
5' WIDE CONCRETE SIDEWALK
4" MIN THICKNESS (6" AT DRIVEWAYS)
BROOM FINISH



EXPANSION JOINT



CONTRACTION JOINT



NOTES:

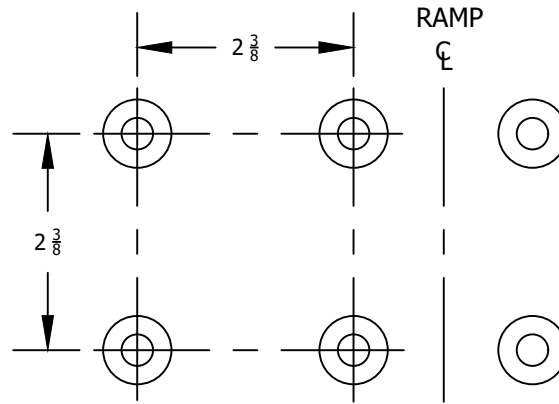
1. SIDEWALK AND CURB & GUTTER CANNOT BE POURED MONOLITHICALLY. EXPANSION JOINT WILL BE REQUIRED WHEN CONCRETE SIDEWALK IS SURROUNDED BY OTHER HARD SURFACES (E.G., DRIVEWAY); OR AS DIRECTED BY PW INSPECTOR.
2. CONCRETE SHALL BE CEMENT CONCRETE CLASS 4000 PSI MINIMUM, WITH AIR ENTRAINMENT. NO COLOR OR TINT SHALL BE ADDED.
3. FORMS SHALL BE SET TRUE TO LINE AND GRADE AND SHALL BE STEEL UNLESS OTHERWISE APPROVED BY INSPECTOR.
4. SIDEWALK SHALL NOT BE POURED IN THE RAIN. SEE POLICY R-8, PLACING CONCRETE OR ASPHALT IN ADVERSE WEATHER CONDITIONS.

CITY OF KIRKLAND

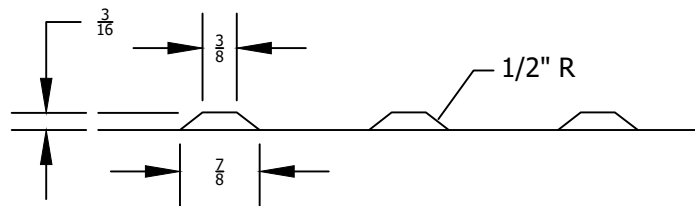
PLAN NO. CK- R.23



SIDEWALK
SECTION



PLAN



ELEVATION

NOTE:

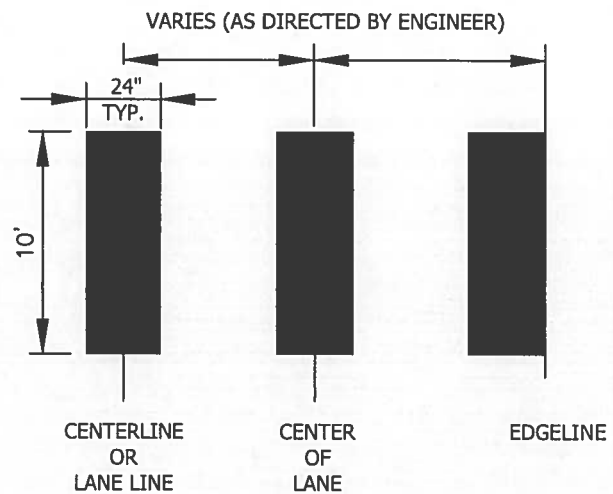
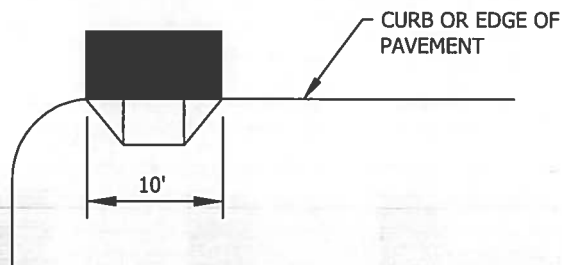
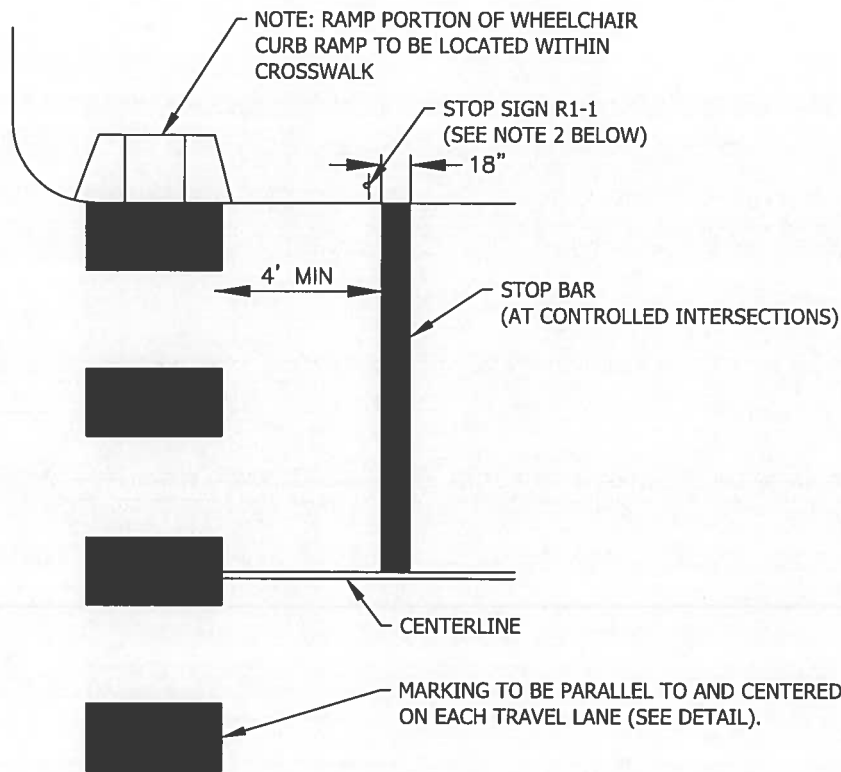
THE DETECTABLE WARNING PATTERN SHALL BE FORMED BY ADDING A MANUFACTURED MATERIAL BEFORE THE CONCRETE HAS CURED. THE TWO-FOOT WIDE DETECTABLE WARNING PATTERN AREA ON THE RAMP SHALL BE YELLOW AND SHALL MATCH THE COLOR OF "STANDARD INTERSTATE YELLOW" PAINT AS SPECIFIED IN FORMULA K-2-83. EMBOSSING THE WET CONCRETE OR INSTALLING MASONRY OF CERAMIC TILES MUST BE APPROVED BY CITY ENGINEER.

CITY OF KIRKLAND

PLAN NO. CK-R.25



TRUNCATED DOME
TACTILE WARNING
SURFACE



DETAIL

NOTES:

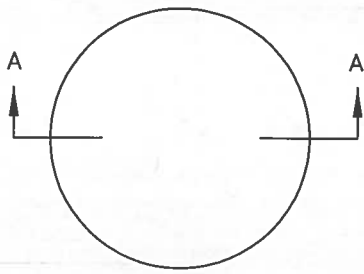
1. MARKINGS SHALL BE THERMOPLASTIC.
2. STOP SIGN LOCATION ADJACENT TO STOP BAR, OR AS DIRECTED BY ENGINEER

CITY OF KIRKLAND

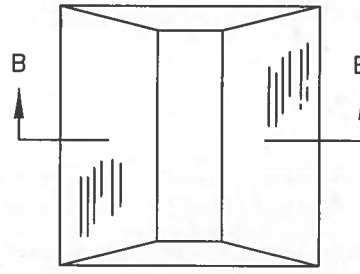
PLAN NO. CK-R.28



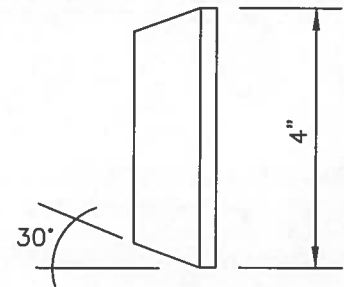
CROSSWALK AND
STOP BAR DETAIL



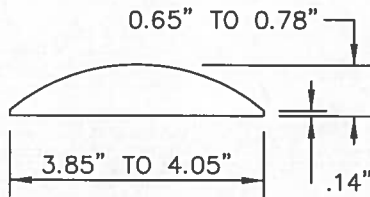
PLAN



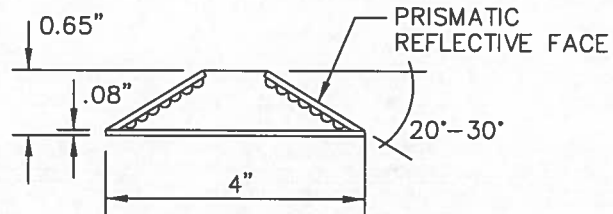
PLAN
DIRECTION OF TRAFFIC



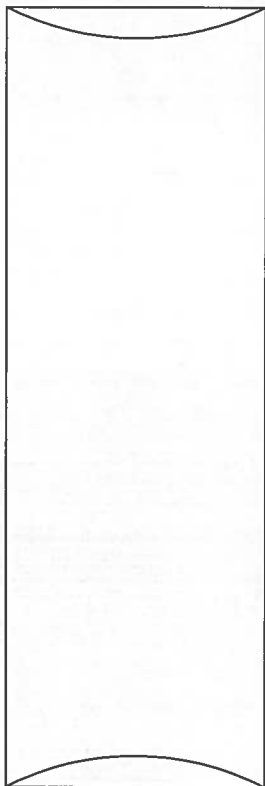
SIDE VIEW



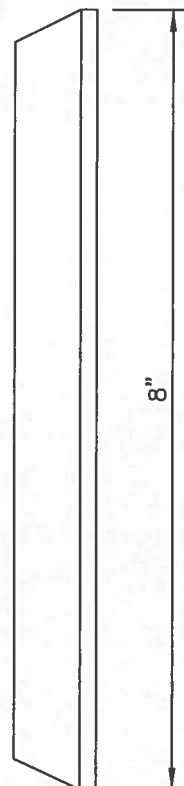
TYPE 1
SECTION A-A



TYPE 2
SECTION B-B



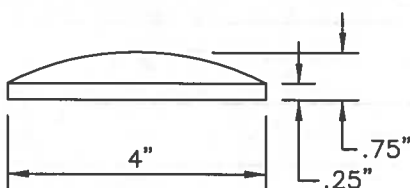
PLAN



SIDE VIEW

NOTES

1. TYPE C PAVEMENT MARKERS TO BE USED ONLY UPON APPROVAL BY TRAFFIC ENGINEER.
2. NOT TO BE USED ON EDGELINES.



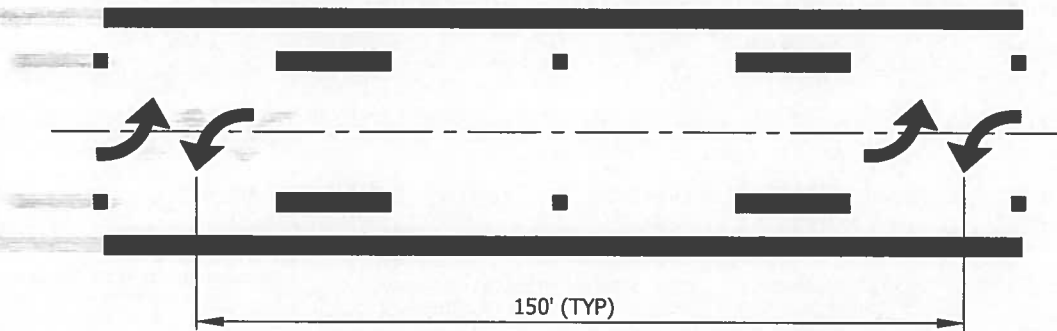
TYPE C

CITY OF KIRKLAND

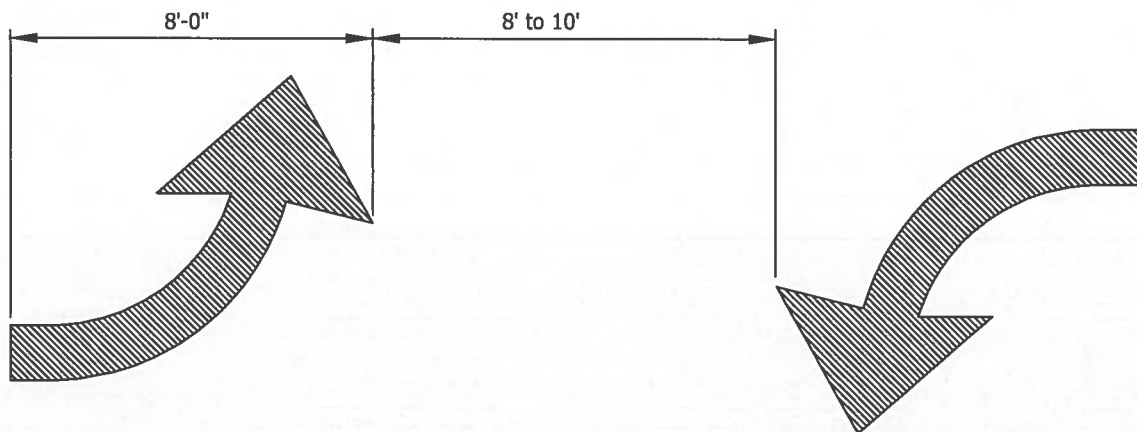
PLAN NO. CK-R.29



LANE MARKERS
(DIMENSIONS)



TWO-WAY LEFT TURN MARKERS



TYPICAL ARROW

NOTES

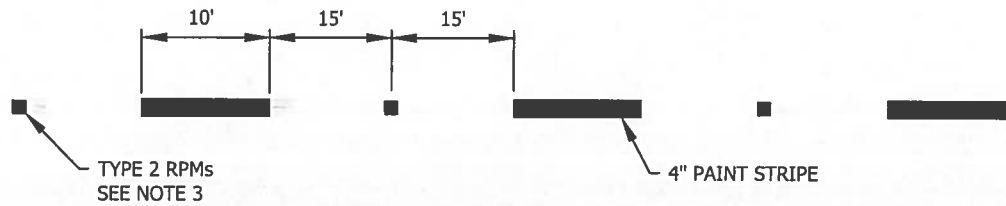
1. THERMOPLASTIC REQUIRED

CITY OF KIRKLAND

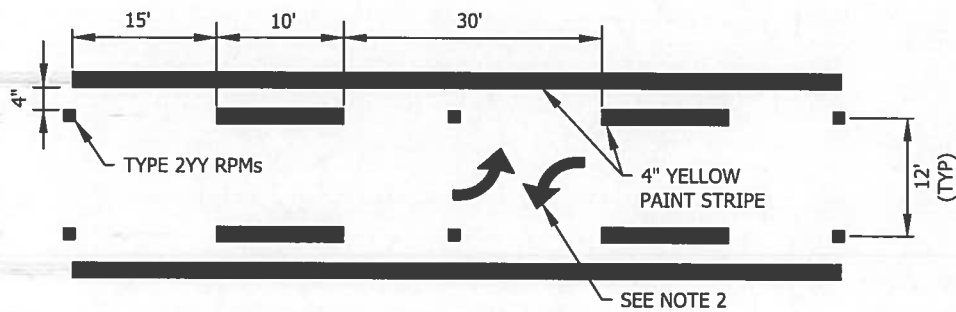
PLAN NO. CK- R.30



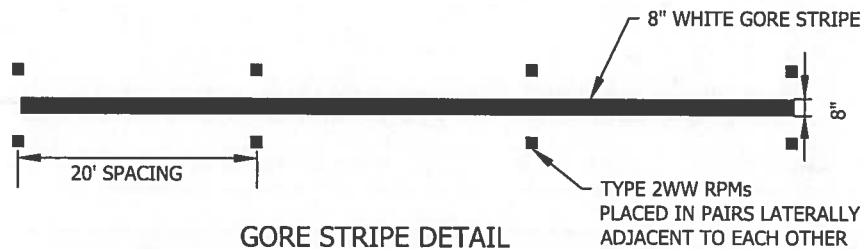
TWO-WAY LEFT
TURN LANE AND
TYPICAL ARROW



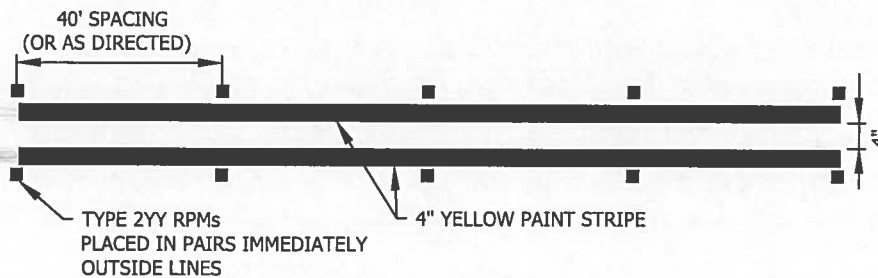
SKIP CENTER & LANE STRIPE DETAIL



TWO-WAY LEFT TURN DETAIL



GORE STRIPE DETAIL



DOUBLE YELLOW CENTER DETAIL

NOTES:

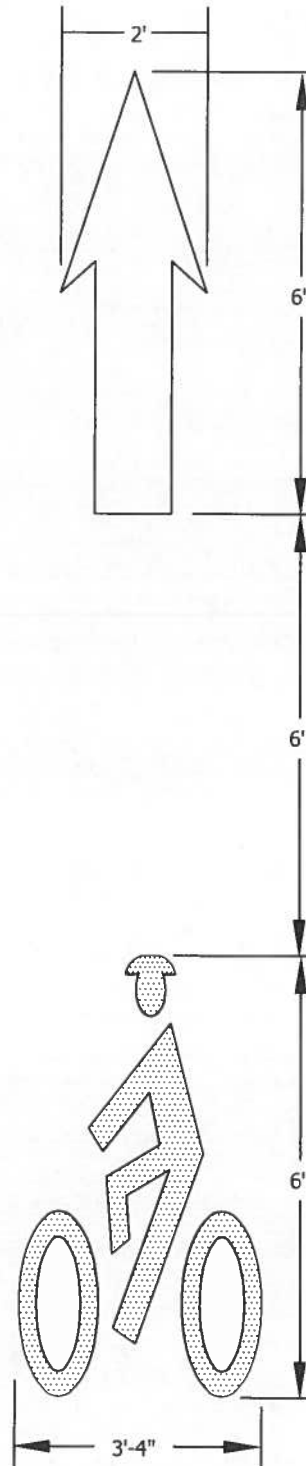
1. MATCH EXISTING PAVEMENT MARKING DIMENSIONS.
2. SEE CK-R.30 FOR TWO-WAY LEFT TURN ARROW PLACEMENT.
3. RAISED PAVEMENT MARKER COLOR SHALL CONFORM TO THE COLOR OF THE MARKING FOR WHICH THEY SUPPLEMENT, SUBSTITUTE FOR, OR SERVE AS A POSITIONING GUIDE FOR.

CITY OF KIRKLAND

PLAN NO. CK-R.31



PAVEMENT
MARKING DETAIL



NOTES:

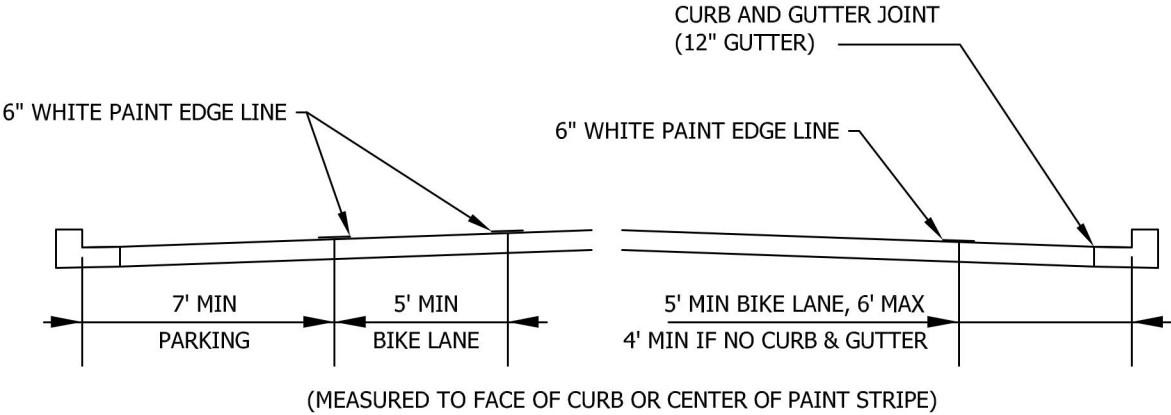
1. BIKE LANE SYMBOLS AND ARROW MATERIAL SHALL BE 90 MILL, PREFORMED, SKID RESISTANT THERMOPLASTIC.
2. BICYCLE SYMBOL FACES ROADWAY CENTERLINE.

CITY OF KIRKLAND

PLAN NO. CK-R.34

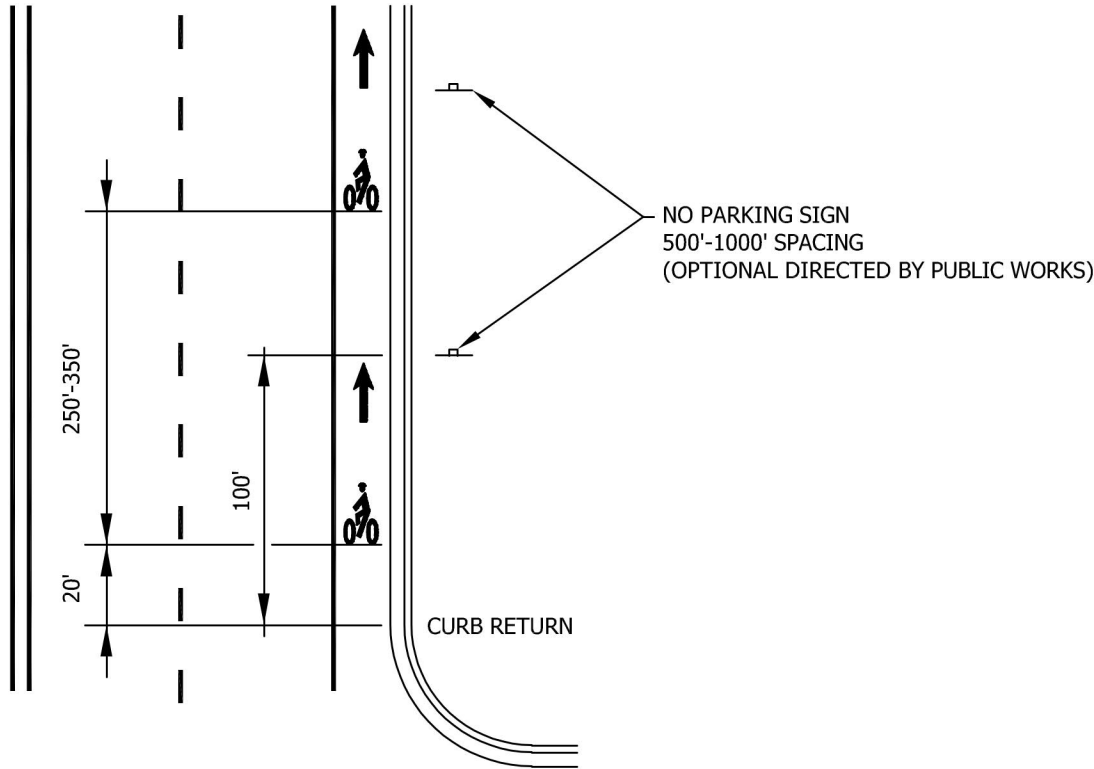


BICYCLE LANE
MARKINGS




BICYCLE LANE WITH PARKING

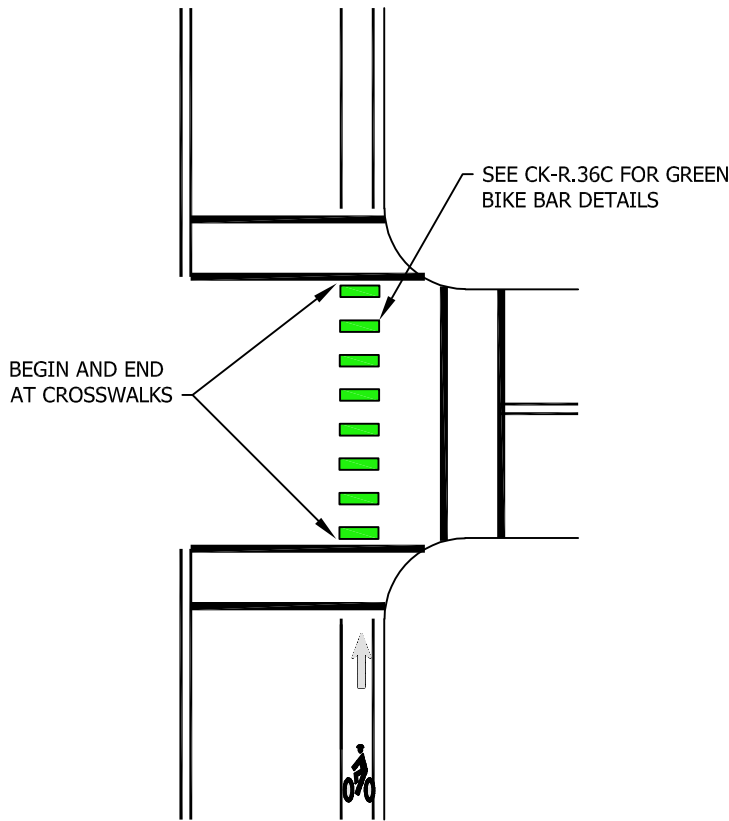
BICYCLE LANE WITHOUT PARKING



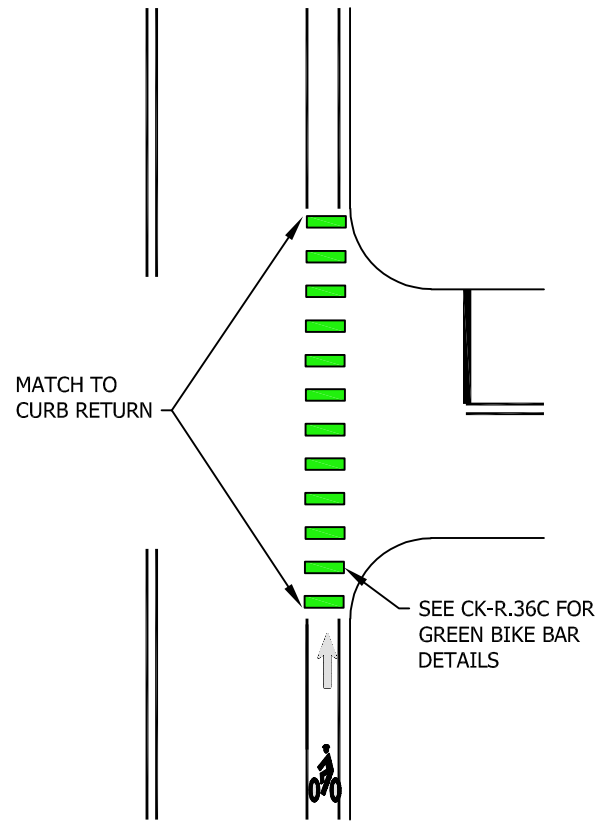
NOTES:

- 1. SEE MUTCD FOR MORE INFORMATION AND SPECIFICATIONS.
- 2. PER SEC. 9B.04 2009 MUTCD, DO NOT USE R3-17 SIGNS.
- 3. BICYCLIST AND PEDESTRIAN SYMBOLS PER CK-R.34B

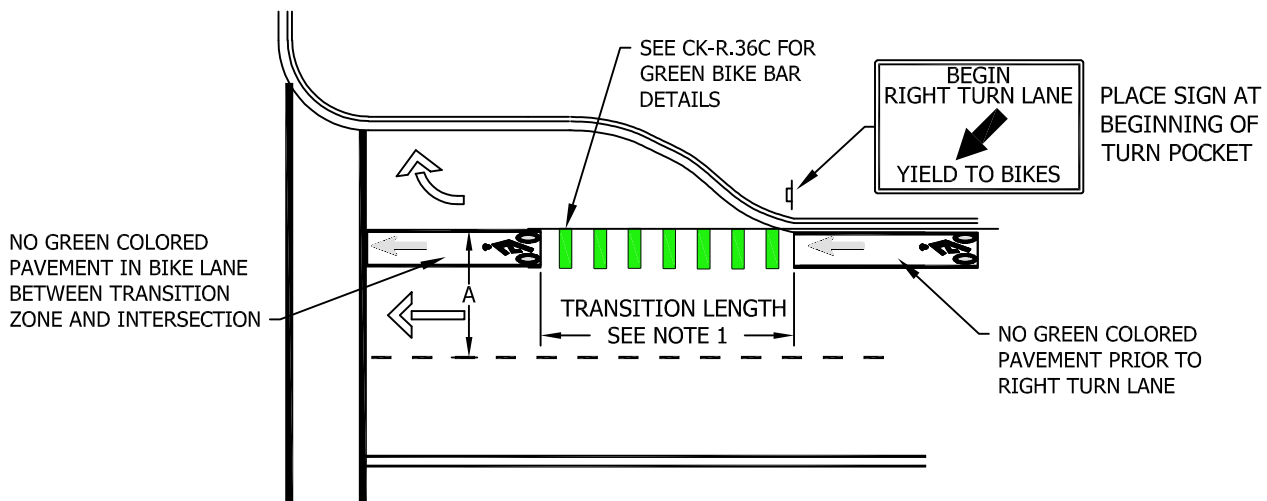
CITY OF KIRKLAND	
PLAN NO. CK- R.35	
	TYPICAL BICYCLE LANE - WIDTH, SIGNING & MARKING



TYPICAL TREATMENT THROUGH INTERSECTION WITH CROSSWALKS



TYPICAL TREATMENT THROUGH INTERSECTION WITHOUT CROSSWALKS



TYPICAL TREATMENT AT A RIGHT TURN POCKET (BICYCLE LANE CONTINUES THROUGH INTERSECTION)

NOTES:

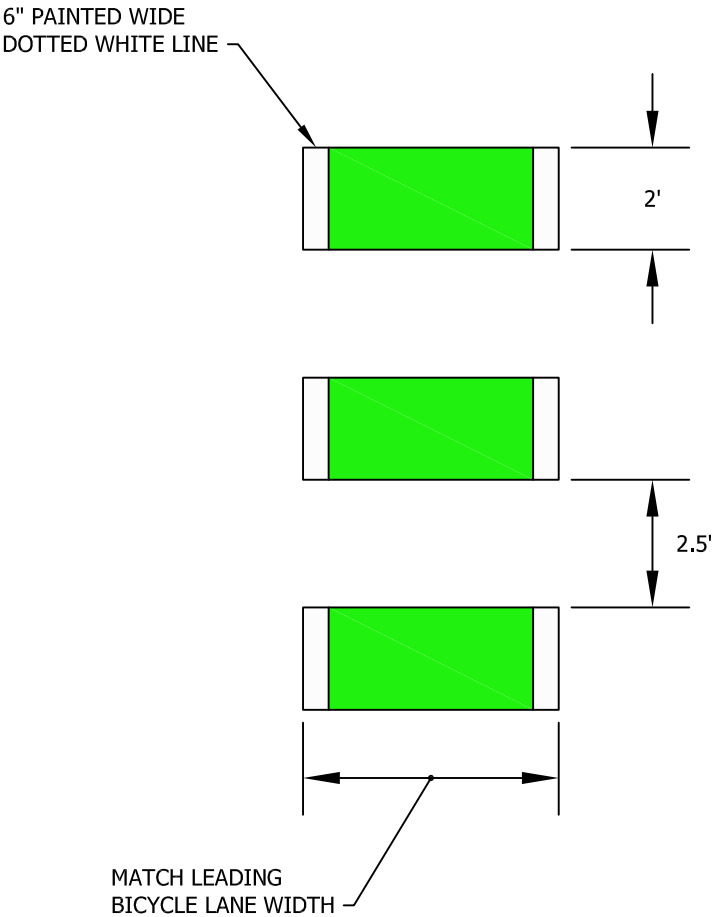
1. TRANSITION LENGTH = $5 \times A$ (TYPICALLY 80' AS SHOWN).
2. GREEN COLORED PAVEMENT, BIKE LANE SYMBOL, AND ARROW SHALL BE EITHER 90 MIL PREFORMED THERMOPLASTIC OR METHYL METHACRYLATE (MMA).
3. SEE PLAN NO. CK-R.34 FOR MORE DETAILS ABOUT BIKE LANE SYMBOLS AND ARROWS.
4. MARKING UNSIGNALIZED INTERSECTIONS WITH GREEN PAVEMENT IS EVALUATED ON A CASE-BY-CASE BASIS

CITY OF KIRKLAND

PLAN NO. CK-R.36A




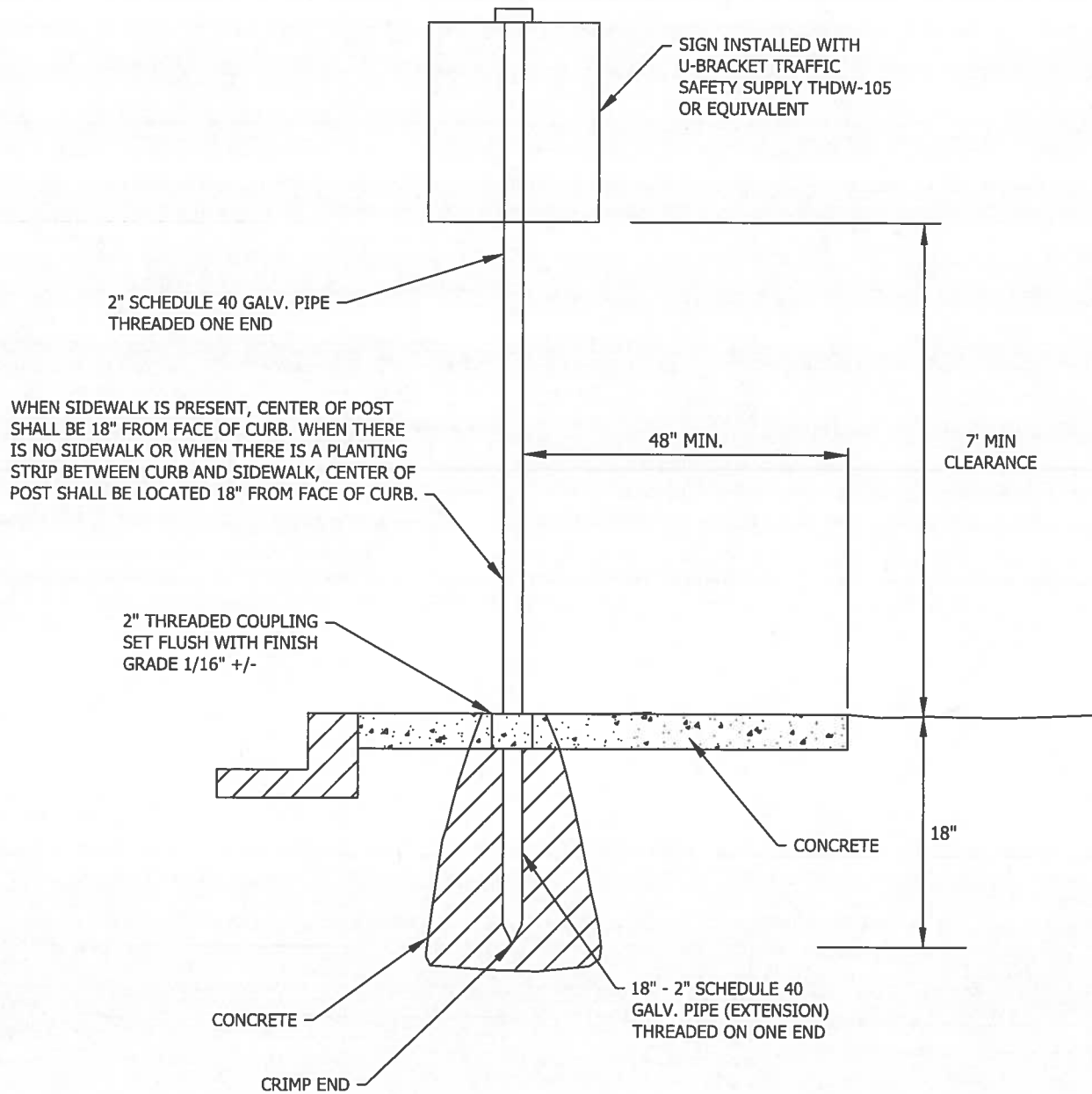
GREEN BIKE
LANE AT
INTERSECTION



NOTE:

GREEN COLORED PAVEMENT SHALL BE EITHER 90 MIL PREFORMED
THERMOPLASTIC OR METHYL METHACRYLATE (MMA)

CITY OF KIRKLAND	
PLAN NO. CK-R.36C	
	TYPICAL INTERSECTION/ CONFLICT ZONE BIKE LANE PAVEMENT MARKING



NOTE:

IF SIGN MUST BE PLACED IN EXISTING CONCRETE, CORE HOLE SHALL BE 8" DIAMETER.

CITY OF KIRKLAND

PLAN NO. CK-R.43



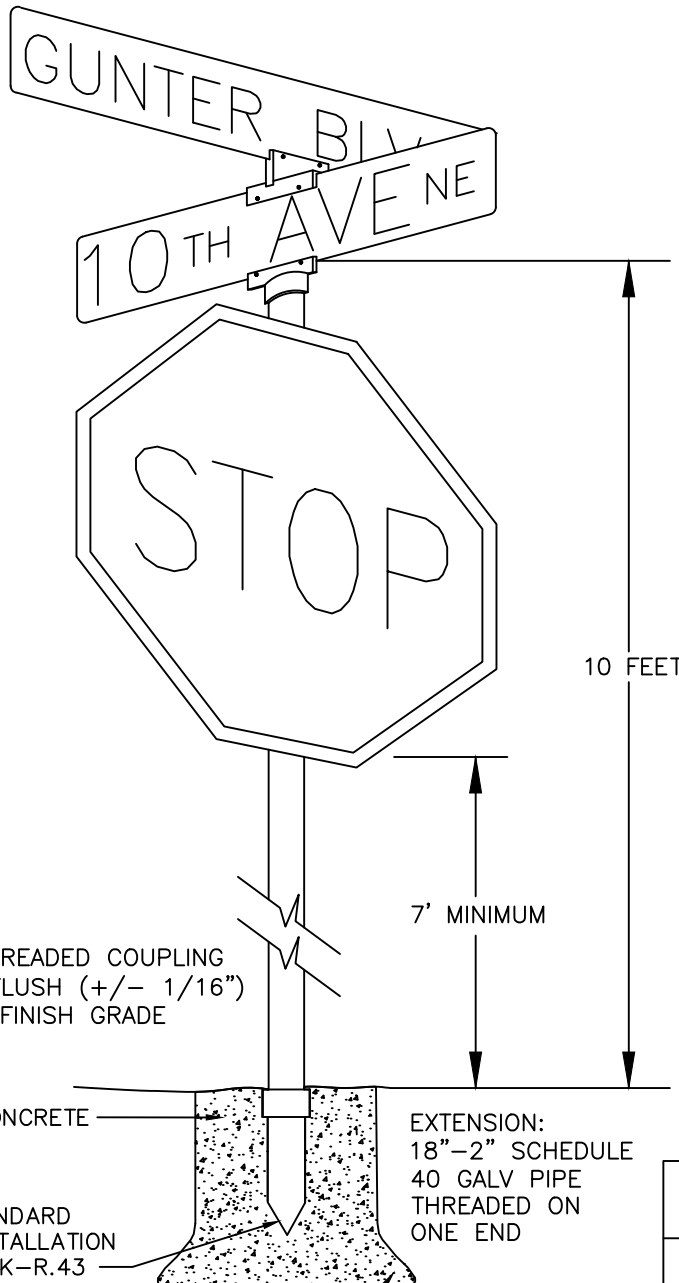
STANDARD SIGN
INSTALLATION

10TH AVENUE

SIGN:
6"x24" SHEET ALUMINUM 0.080" THICK

LETTERS
4" UC C SERIES, EXCEPT SUFFIXES
AND PREFIXES 3" UC C SERIES

BACKGROUND:
GREEN REFLECTIVE SHEETING, OR BLUE
FOR PRIVATE ROADS WITH 3/8" WHITE
BORDER. SHEETING SHALL MEET MUTCD
REQUIREMENTS FOR REFLECTIVITY.



STREET SIGN MOUNTING

HARDWARE:
TRAFFIC SAFETY SUPPLY 16503925
OR EQUIVALENT

STOP SIGN MOUNTING

HARDWARE:
TRAFFIC SAFETY SUPPLY
THDW-105 U BRACKET
OR EQUIVALENT

POST:

10'x2" SCHEDULE 40
GALVANIZED STEEL PIPE

SIGN:

R1-1 30"x30"
HIGH INTENSITY PRISMATIC

NOTE:

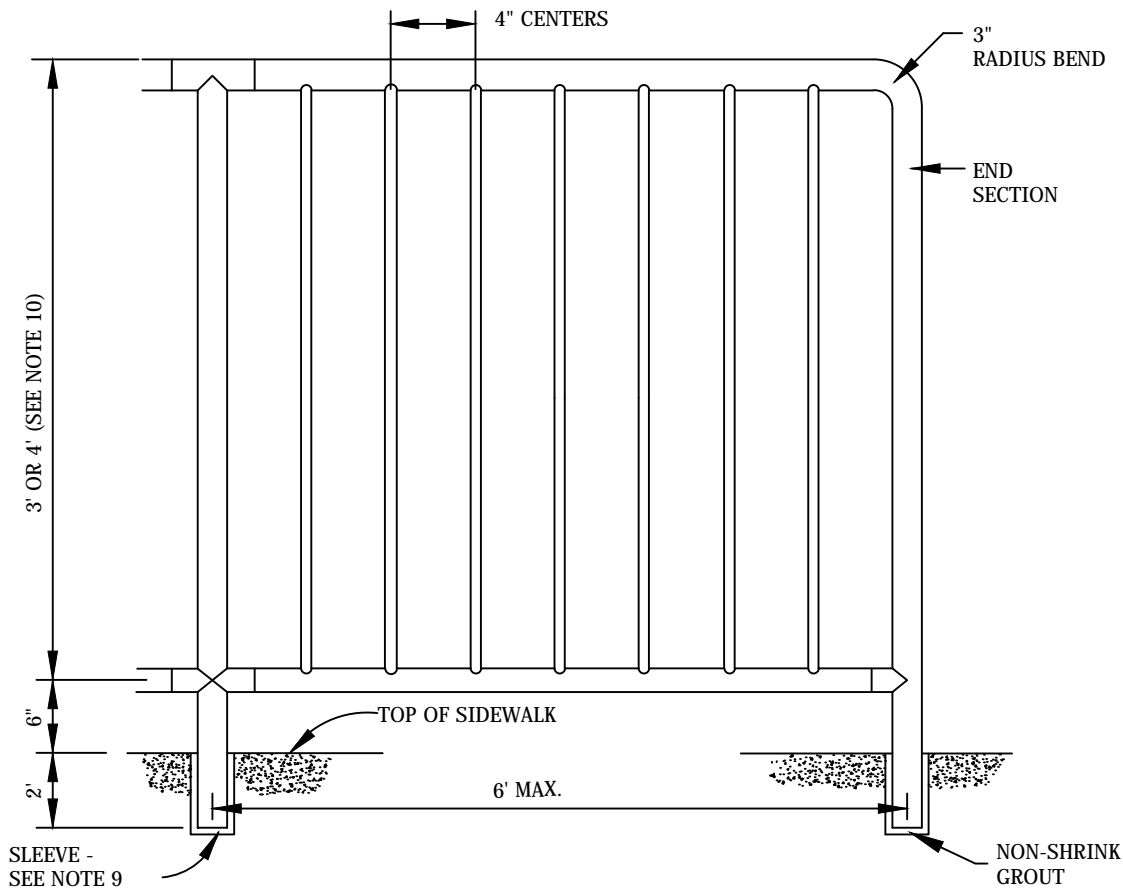
IF SIGN MUST BE
PLACED IN EXISTING
CONCRETE, CORE HOLE
SHALL BE 8" DIAMETER.

CITY OF KIRKLAND

PLAN NO. CK-R.44



STREET NAME
SIGN STANDARD



PIPE SCHEDULE

(ALL DIMENSIONS O.D.)

PANEL HEIGHT	TOP RAIL/POST	BOTTOM RAIL	BALUSTER
3'	1.90"	1.90"	.840"
4'	2.875"	2.375"	.840"

NOTES

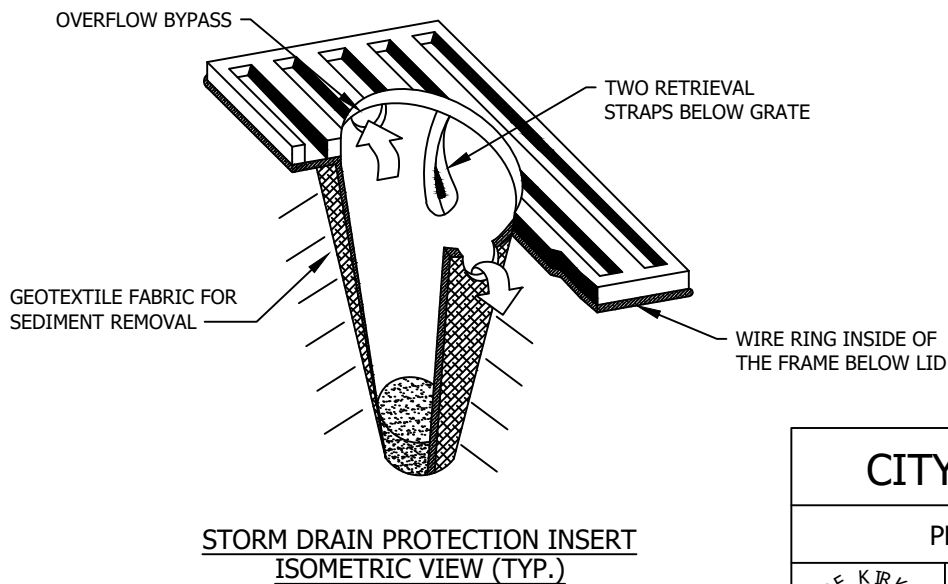
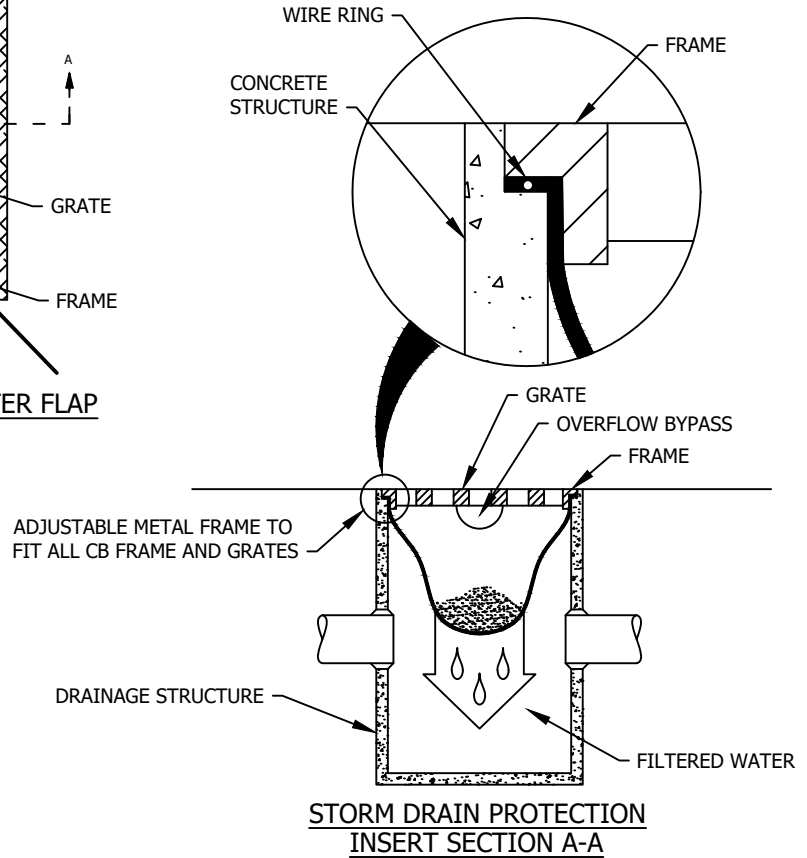
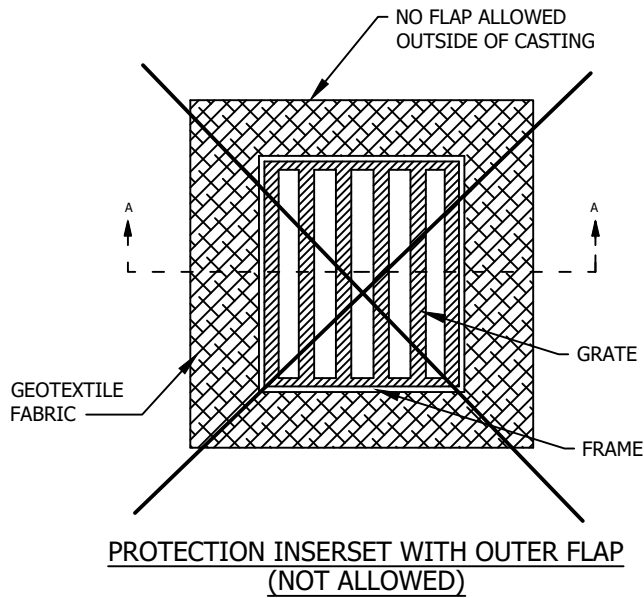
- RAILING SHALL BE ALUMINUM PIPE RAIL OR APPROVED EQUIVALENT. INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS.
- SHOP DRAWINGS OF RAILING SHALL BE SUBMITTED FOR APPROVAL SHOWING COMPLETE DIMENSIONS AND DETAILS OF FABRICATION AND INCLUDING AN ERECTION DIAGRAM. MATERIALS BEING USED SHALL BE SPECIFIED IN THE SHOP DRAWINGS.
- ALL ALUMINUM PARTS SHALL BE GIVEN A CLEAR ANODIC COATING AT LEAST 0.0006 INCH THICK AND BE HOT WATER SEALED AND SHALL HAVE A UNIFORM FINISH.
- PIPE RAILING AND PIPE RAILING SPLICES MAY BE HEATED TO NOT MORE THAN 400°F FOR A PERIOD NOT TO EXCEED 30 MINUTES TO FACILITATE FORMING OR BENDING.
- CUTTING SHALL BE DONE BY SAWING OR MILLING AND ALL CUTS SHALL BE TRUE AND SMOOTH. FLAME CUTTING WILL NOT BE PERMITTED.
- PIPE RAILING, PIPE BALUSTERS AND PIPE RAILING SPLICES SHALL BE ADEQUATELY WRAPPED TO ENSURE SURFACE PROTECTION DURING HANDLING AND TRANSPORTATION TO THE JOB SITE.
- WELDING OF ALUMINUM SHALL BE IN ACCORDANCE WITH THE LATEST AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS.
- ALLOW FOR EXPANSION AT APPROXIMATELY EVERY FOURTH POST.
- RAILS, POSTS AND FORMED ELBOWS SHALL BE A.S.T.M B-241 OR B-429 ALLOY, 6063-T6 SCHEDULE 40 (STD. PIPE). BRACKETS, ENDCAPS AND OTHER FITTINGS SHALL BE A.S.T.M. 6063-T5. SPLICES AND REINFORCING SLEEVES SHALL BE DRAWN ALUMINUM TUBING 6063-T832. SLEEVE I.D. SHALL BE 1" GREATER THAN POST O.D.
- PANEL HEIGHT: 3 FEET FOR PEDESTRIAN USES
4 FEET FOR COMBINED BICYCLE AND PEDESTRIAN USES

CITY OF KIRKLAND

PLAN NO. CK- R.51



SAFETY RAILING IN SIDEWALK

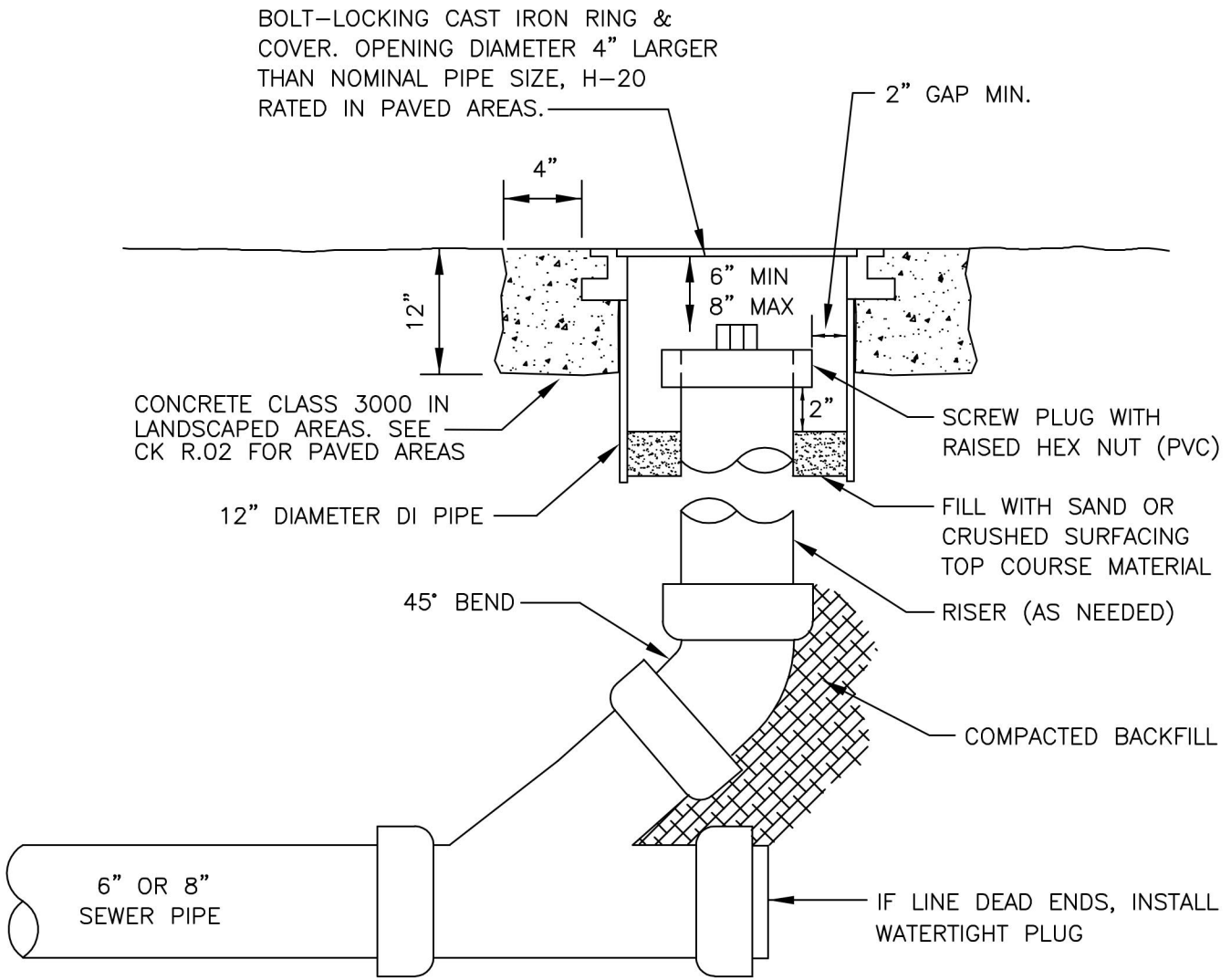


CITY OF KIRKLAND

PLAN NO. CK- E.11



**STORM DRAIN
PROTECTION INSERT**

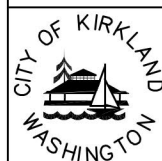


NOTES

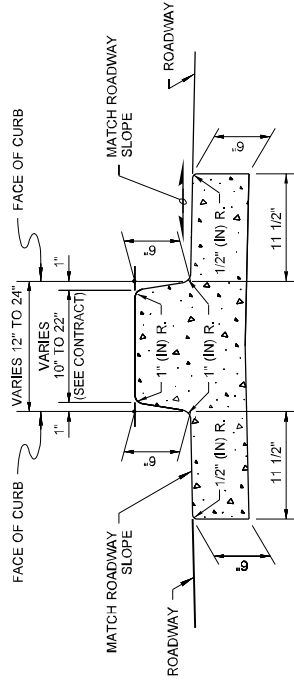
1. CAST IRON COVER SHALL READ EITHER "STORM" OR "DRAIN".
2. LOCKING BOLTS FOR COVER SHALL BE 5/8" -11 NC STAINLESS STEEL TYPE 304 SOCKET (ALLEN) HEAD BOLTS, 2 INCHES LONG.

CITY OF KIRKLAND

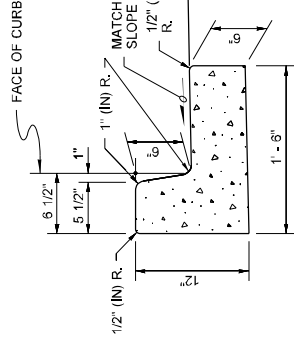
PLAN NO. CK-D.05B



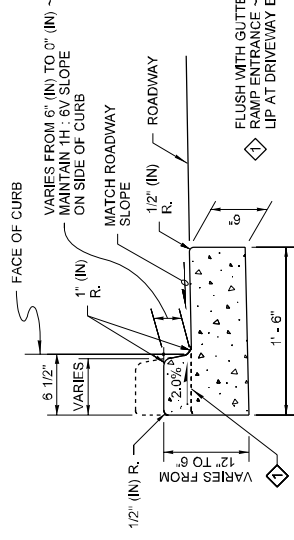
CLEANOUT



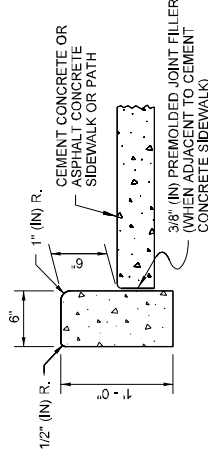
DUAL-FACED CEMENT CONCRETE TRAFFIC CURB AND GUTTER



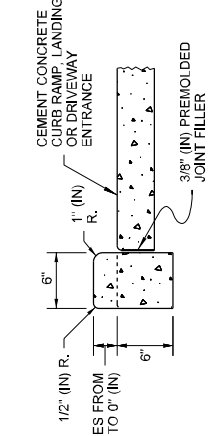
CEMENT CONCRETE TRAFFIC CURB AND GUTTER



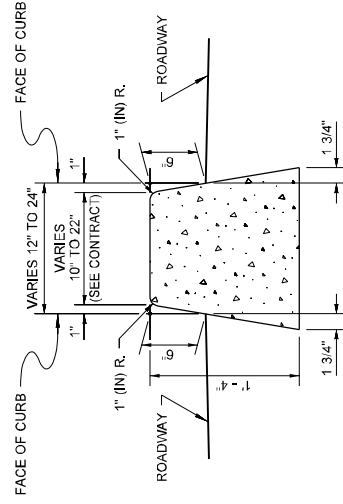
DEPRESSED CURB AND GUTTER SECTION AT CURB RAMPS AND DRIVEWAY ENTRANCES



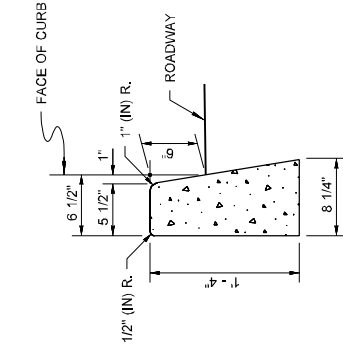
CEMENT CONCRETE PEDESTRIAN CURB



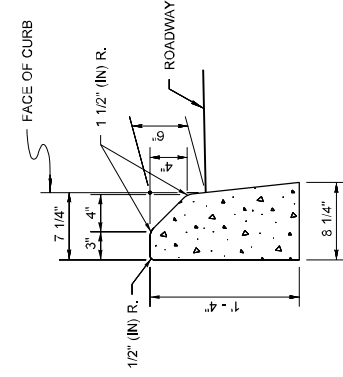
CEMENT CONCRETE PEDESTRIAN CURB AT CURB RAMPS, LANDINGS, AND DRIVEWAY ENTRANCES



DUAL-FACED CEMENT CONCRETE TRAFFIC CURB



CEMENT CONCRETE TRAFFIC CURB



MOUNTABLE CEMENT CONCRETE TRAFFIC CURB

NOTE

1. See **Standard Plan F-30.10** for Curb Expansion and Contraction Joint spacing. See **Standard Specification, Sections 8-04 and 9-04** for additional requirements.



Michael S.
Fleming

Digitally signed by Michael S.
Fleming
Date: 2020.09.24 07:38:38 -0700

CEMENT CONCRETE CURBS

STANDARD PLAN F-10.12-04

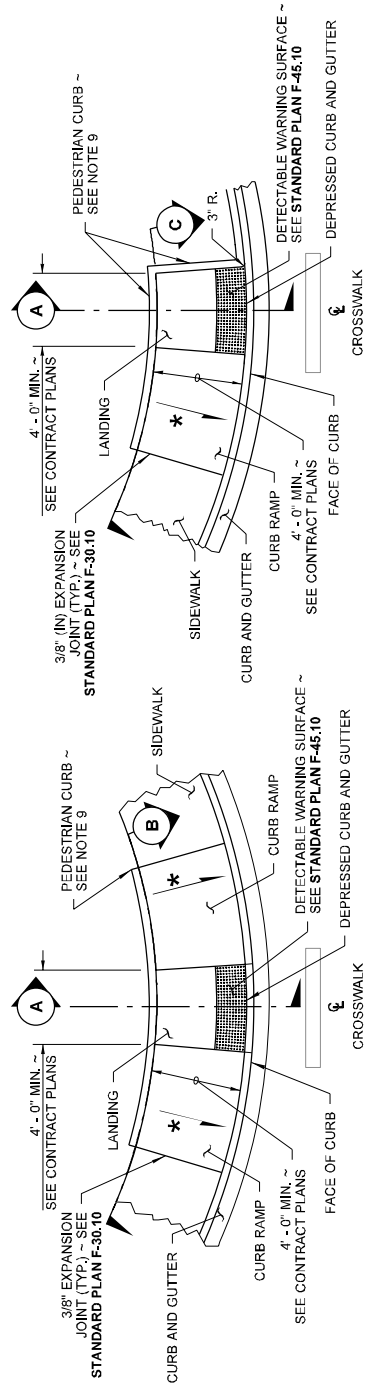
SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
Date: 2020.09.24
07:57:43 -0700

STATE DESIGN ENGINEER
Washington State Department of Transportation

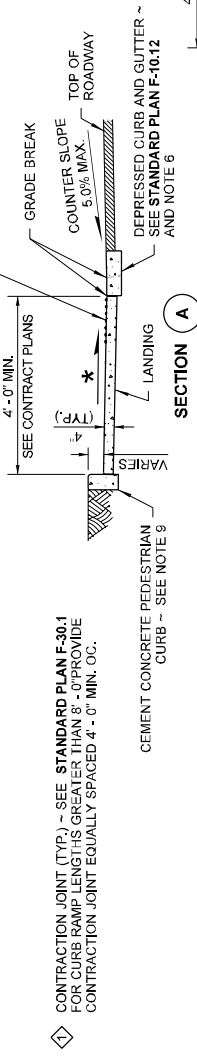
NOTES

- At marked crosswalks, the connection between the landing and the roadway must be contained within the width of the crosswalk markings.
- Where "GRADE BREAK" is called out, the entire length of the grade break between the two adjacent surface planes shall be flush.
- Do not place Gratings, Junction Boxes, Access Covers, or other appurtenances on any part of the Curb Ramp or Landing, or in the Depressed Curb and Gutter where the Landing connects to the roadway.
- See Contract Plans for the curb design specified. See **Standard Plan F-10.12** for Curb, Curb and Gutter, Depressed Curb and Gutter, and Pedestrian Curb details.
- See **Standard Plan F-30.10** for Cement Concrete Sidewalk Details. See Contract Plans for width and placement of sidewalk.
- The Bid Item "Cement Concrete Curb Ramp Type ____" does not include the adjacent Curb, Curb and Gutter, Depressed Curb and Gutter, Pedestrian Curb, or Sidewalks.
- The Curb Ramp length is not required to exceed 15 feet (unless otherwise shown in the Contract Plans). When applying the 15-foot max. length, the running slope of the curb ramp is allowed to exceed 8.3%. Use a single constant slope from bottom of ramp to top of ramp to match into the sidewalk over a horizontal distance of 15 feet. Do not include abutting landing(s) in the 15-foot max. measurement. When a ramp is constructed on a radius, the 15-foot max. length is measured on the inside radius along the back of the walkway.
- Curb Ramps and Landings shall receive a broom finish. See **Standard Specifications 8-14**.
- Pedestrian Curb may be omitted if the ground surface at the back of the Curb Ramp and/or Landing will be at the same elevation as the Curb Ramp or Landing and there will be no material to retain.

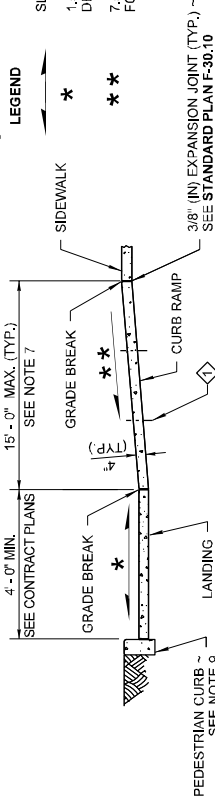


PLAN VIEW
TYPE PARALLEL B

PLAN VIEW
TYPE PARALLEL A



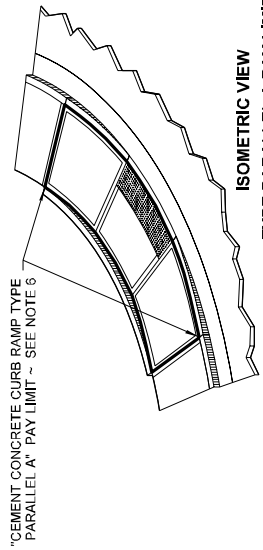
SECTION A



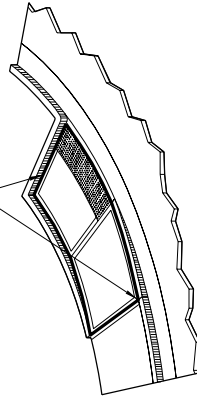
SECTION B

(ALONG INSIDE RADIUS AT BACK OF WALKWAY)

(ALONG INSIDE RADIUS AT BACK OF WALKWAY)



ISOMETRIC VIEW
TYPE PARALLEL A PAY LIMIT



ISOMETRIC VIEW
TYPE PARALLEL B PAY LIMIT



Zeller, Scott
Jun 24 2016 7:19 AM
CS&S

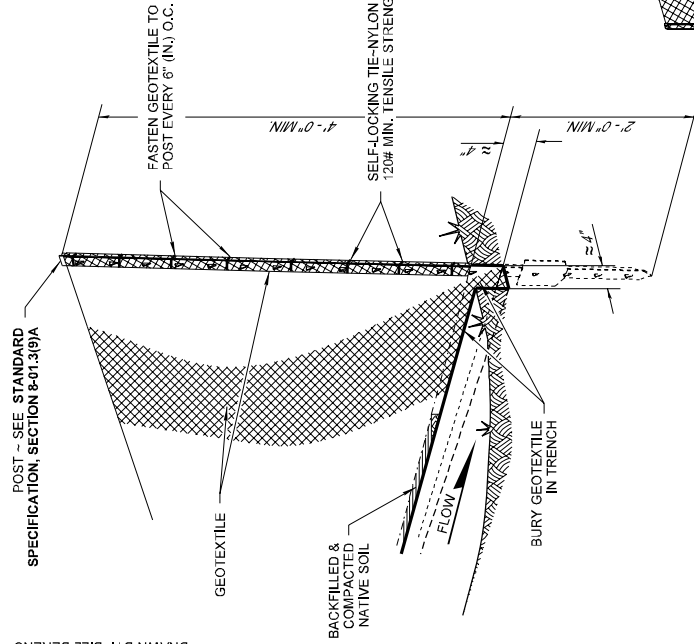
PARALLEL CURB RAMP

STANDARD PLAN F-40.12-03

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
Carpenter, Jeff
Jun 29 2016 2:27 PM
STATE DESIGN ENGINEER
Washington State Department of Transportation

POST - SEE STANDARD SPECIFICATION SECTION 8-01.3(9)A

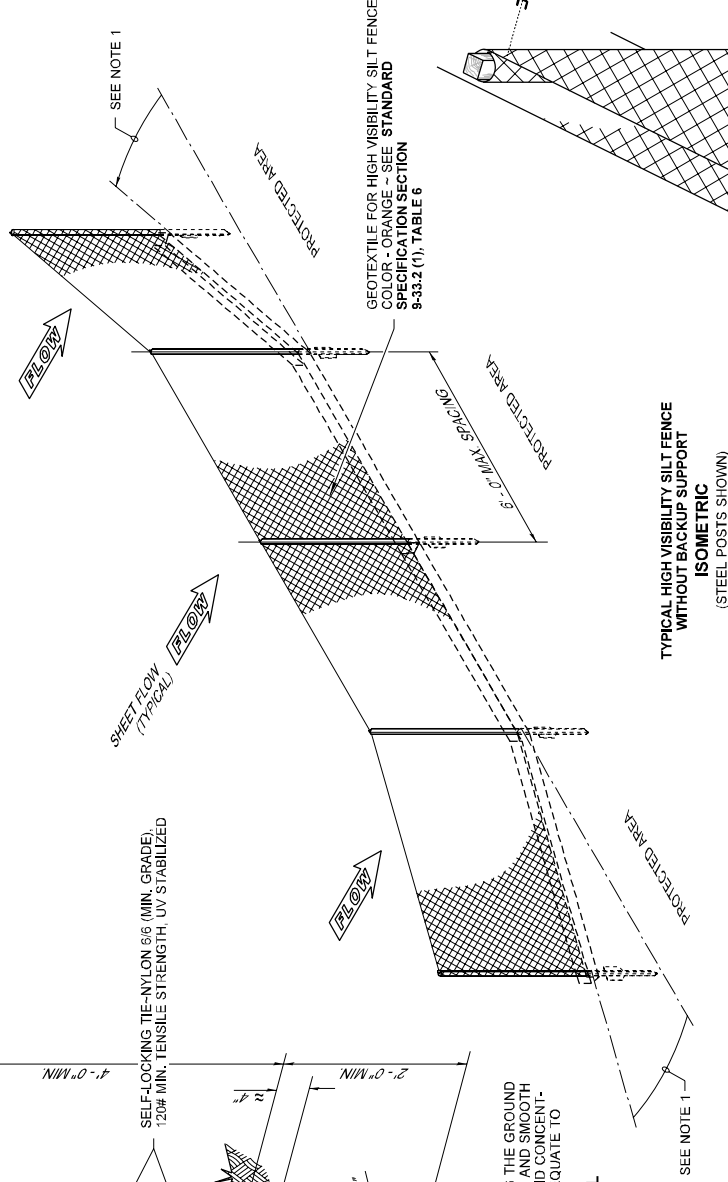


NOTE

DURING EXCAVATION, MINIMIZE DISTURBING THE GROUND AROUND TRENCH AS MUCH AS IS FEASIBLE, AND SMOOTH SURFACE FOLLOWING EXCAVATION TO AVOID CONCENTRATING FLOWS. COMPACTION MUST BE ADEQUATE TO PREVENT UNDERCUTTING FLOWS.

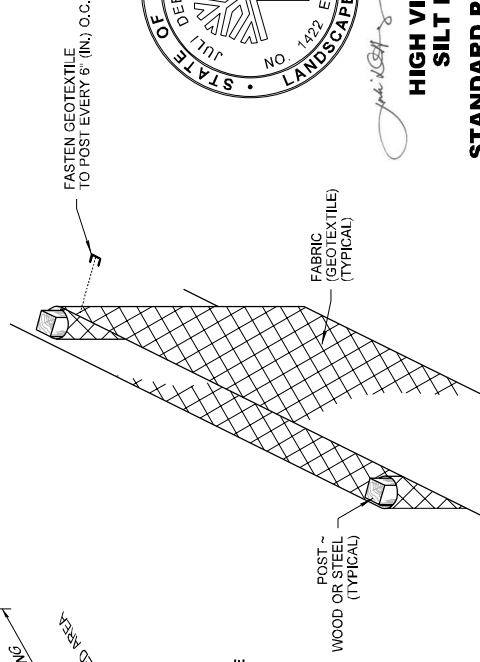
TYPICAL INSTALLATION DETAIL

(STEEL POSTS SHOWN)



TYPICAL HIGH VISIBILITY SILT FENCE WITHOUT BACKUP SUPPORT ISOMETRIC

(STEEL POSTS SHOWN)



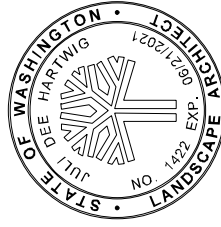
SPICE DETAIL

(WOOD POSTS SHOWN)

SPICED FENCE SECTIONS SHALL BE CLOSE ENOUGH TOGETHER TO PREVENT SILT LADEN WATER FROM ESCAPING THROUGH THE FENCE AT THE OVERLAP. JOINING SECTIONS SHALL NOT BE PLACED IN LOW SPOTS OR IN SUMP LOCATIONS.

NOTES

1. Angle Terminal end uphill 24" (in) to 48" (in) to prevent flow around fence (Typical).
2. Perform maintenance in accordance with **Standard Specification, Sections 8-01.3(9)A and 8-01.3(15)**.
3. Splices shall never be placed in low spots or sump locations. If splices are located in low or sump areas, the fence may need to be reinstalled unless the Project Engineer approves the installation.
4. Install silt fencing parallel to mapped contour lines.



Hartwig, Julie
Jun 4 2019 10:48 AM

HIGH VISIBILITY SILT FENCE

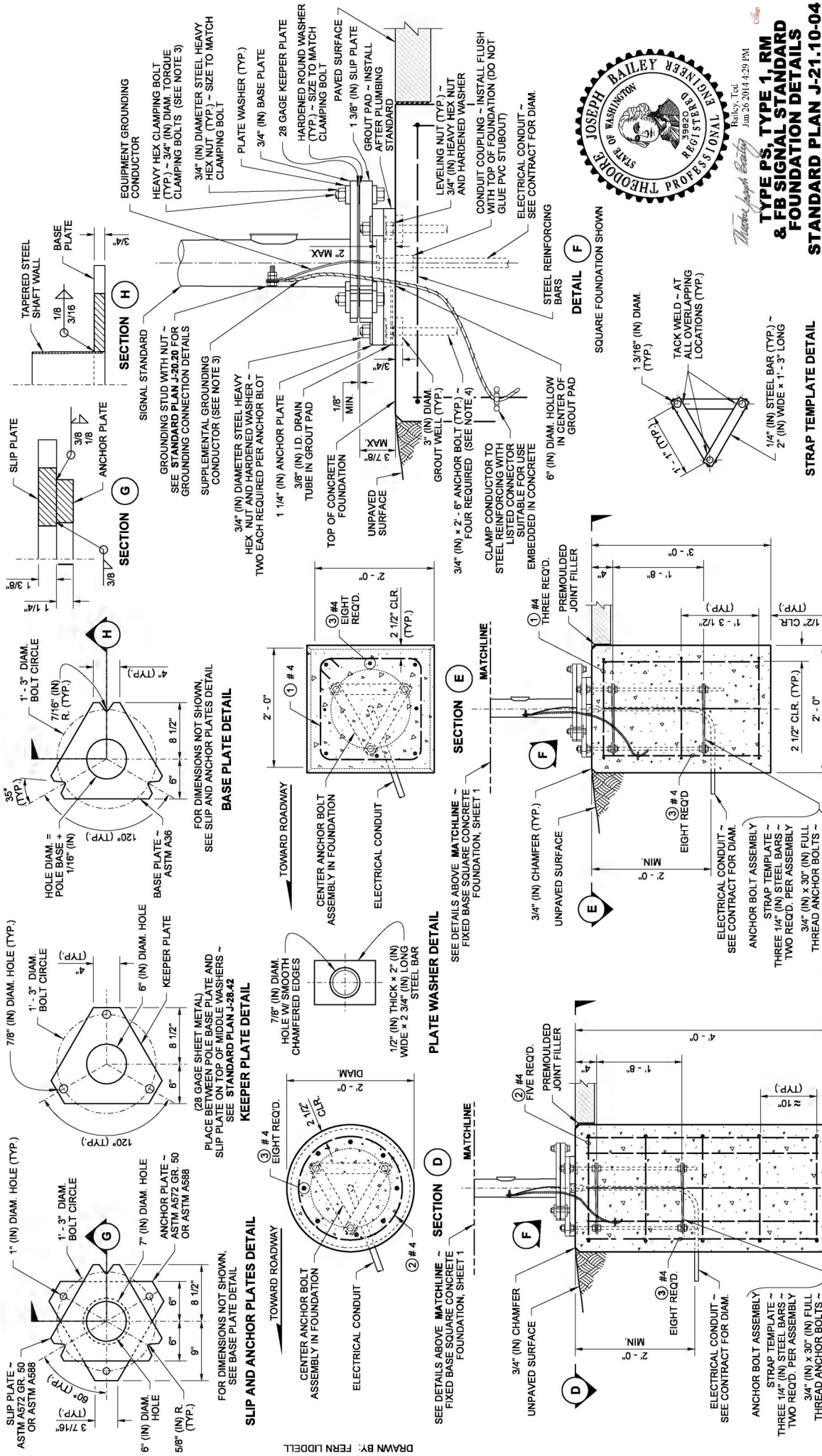
STANDARD PLAN I-30.17-01

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
Mark Stone
Jan 12 2019 7:42 AM

STATE DESIGN ENGINEER

Washington State Department of Transportation



DRAWN BY: FERN LIDDELL



Therese Joseph Bailey
 Bailey, Ted
 Jun 26 2014 4:29 PM

**TYPE PS, TYPE 1, RM
 & FB SIGNAL STANDARD
 FOUNDATION DETAILS
 STANDARD PLAN J-21.10-04**

SHEET 2 OF 2 SHEETS

APPROVED FOR PUBLICATION
 Balaich, Tracy
 Jan 30 2014 3:13 PM
 STATE DESIGN ENGINEER
 Washington State Department of Transportation

SLIP BASE

ROUND CONCRETE FOUNDATION DETAIL

SQUARE CONCRETE FOUNDATION DETAIL

STRAP TEMPLATE DETAIL

DETAIL F
 SQUARE FOUNDATION SHOWN

DETAIL E
 MATCHLINE ~
 SEE DETAILS ABOVE MATCHLINE ~
 FIXED BASE SQUARE CONCRETE
 FOUNDATION, SHEET 1

DETAIL D
 MATCHLINE ~
 SEE DETAILS ABOVE MATCHLINE ~
 FIXED BASE SQUARE CONCRETE
 FOUNDATION, SHEET 1

DETAIL C
 MATCHLINE ~
 SEE DETAILS ABOVE MATCHLINE ~
 FIXED BASE SQUARE CONCRETE
 FOUNDATION, SHEET 1

DETAIL B
 MATCHLINE ~
 SEE DETAILS ABOVE MATCHLINE ~
 FIXED BASE SQUARE CONCRETE
 FOUNDATION, SHEET 1

DETAIL A
 MATCHLINE ~
 SEE DETAILS ABOVE MATCHLINE ~
 FIXED BASE SQUARE CONCRETE
 FOUNDATION, SHEET 1

GROUNDING CONDUCTOR - NON-INSULATED
#4 AWG STRANDED COPPER - PROVIDE
3" - 0" MIN. SLACK (ROUTE CONDUCTOR
TO LUMINAIRE GROUNDING STUD)

CONDUIT COUPLING - INSTALL
FLUSH WITH TOP OF BARRIER
(DO NOT GLUE PVC STUBOUT)

3" (IN) DIAM. x 3/4" (IN)
GROUT WELL (TYP.)

3/4" (IN) DIAM. CONDUIT - CAP EACH
END - PROVIDE ADDITIONAL CON-
DUIT FOR COMMUNICATION OR
SIGNAL CABLE WHERE SHOWN
IN THE CONTRACT

#7 REINFORCING
STEEL BAR

#4 REINFORCING
STEEL HOOP

3/4" (IN) CHAMFER (TYP.)

1" (IN) DIAM. CONDUIT - CAP EACH
END - PROVIDE ADDITIONAL CON-
DUIT FOR COMMUNICATION OR
SIGNAL CABLE WHERE SHOWN
IN THE CONTRACT

3/4" (IN) CHAMFER (TYP.)

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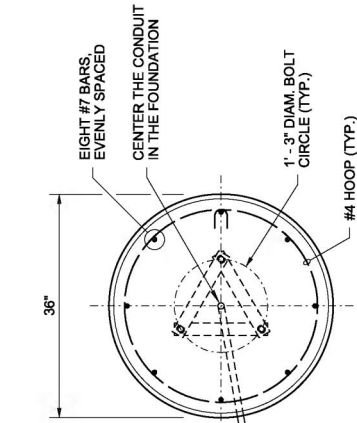
1" (IN) DIAM. CONDUIT - CAP EACH
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IN THE CONTRACT



TOP VIEW
FIXED BASE

3/4" (IN) CHAMFER (TYP.)

1" (IN) DIAM. CONDUIT - CAP EACH
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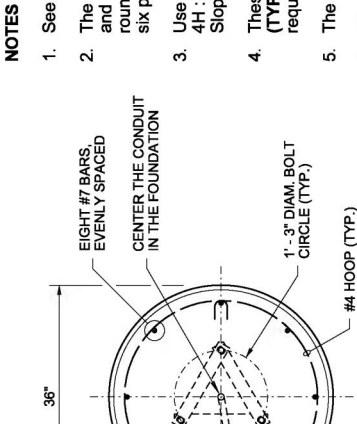
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IN THE CONTRACT

3/4" (IN) CHAMFER (TYP.)



TOP VIEW
SLIP BASE

3/4" (IN) CHAMFER (TYP.)

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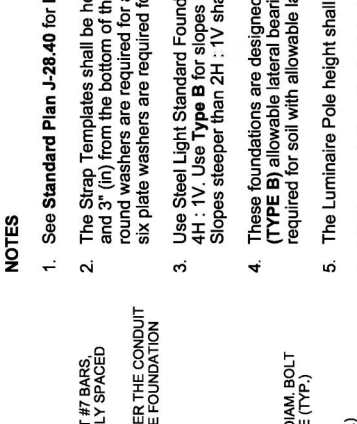
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TOP VIEW
FIXED BASE

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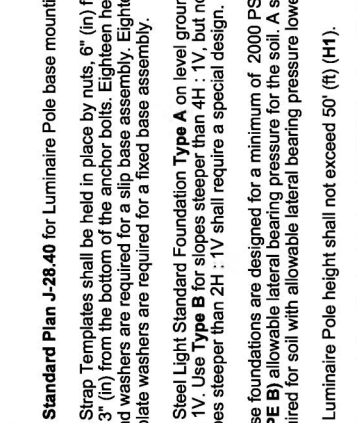
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3/4" (IN) CHAMFER (TYP.)



TOP VIEW
SLIP BASE

3/4" (IN) CHAMFER (TYP.)

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IN THE CONTRACT

3/4" (IN) CHAMFER (TYP.)

1. See **Standard Plan J-28.40** for Luminaire Pole base mounting details.

2. The Strap Templates shall be held in place by nuts, 6" (in) from the top of the foundation and 3" (in) from the bottom of the anchor bolts. Eighteen heavy duty hex nuts and six round washers are required for a slip base assembly. Eighteen heavy duty hex nuts and six plate washers are required for a fixed base assembly.

3. Use Steel Light Standard Foundation **Type A** on level ground or slopes not exceeding 4H : 1V. Use **Type B** for slopes steeper than 4H : 1V, but not exceeding 2H : 1V. Slopes steeper than 2H : 1V shall require a special design.

4. These foundations are designed for a minimum of 2000 PSF (**TYPE A**) or 1500 PSF (**TYPE B**) allowable lateral bearing pressure for the soil. A special foundation shall be required for soil with allowable lateral bearing pressure lower than 1500 PSF.

5. The Luminaire Pole height shall not exceed 50' (ft) (H1).

6. Slip bases shall not be installed on 50' (ft) (H1) poles with Double Mast Arms, nor on poles weighing more than 1000 lbs.

7. Slip bases are required on poles installed inside the Design Clear Zone, and on poles installed behind traffic barrier that are within the traffic barrier deflection zone.

8. Foundations constructed within Media Filter Drains shall be increased in depth by the depth of the Media Filter Drain.

9. Exposed portions of the foundation shall be formed to create a Class 2 surface finish. All forming shall be removed upon completion of foundation construction.

10. For excavation, concrete placement, and backfill options, see METHOD 1 and METHOD 2 on Sheet 2 of 2.

11. The anchor bolts shall be high-strength steel, manufactured from ASTM F1554 Grade 105, with heavy hex nuts and hardened washers. Galvanize the anchor bolts according to ASTM F2329.

12. The foundation shall be grounded in accordance with the requirements of **Standard Specification 8-20.3(4)**.

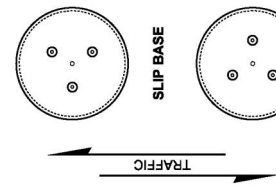
13. See **Standard Plans C-8b** and **C-85.14** for steel light standards on traffic barrier.



Zeldemrust, Richard
Jun 10 2014 10:37 AM
C-85b

STEEL LIGHT STANDARD FOUNDATION TYPES A & B STANDARD PLAN J-28.30-03

SHEET 1 OF 2 SHEETS



SLIP BASE

FIXED BASE

ANCHOR BOLT LAYOUT

SEE SLIP BASE FOR DETAILS NOT SHOWN

ELEVATION VIEW

FIXED BASE

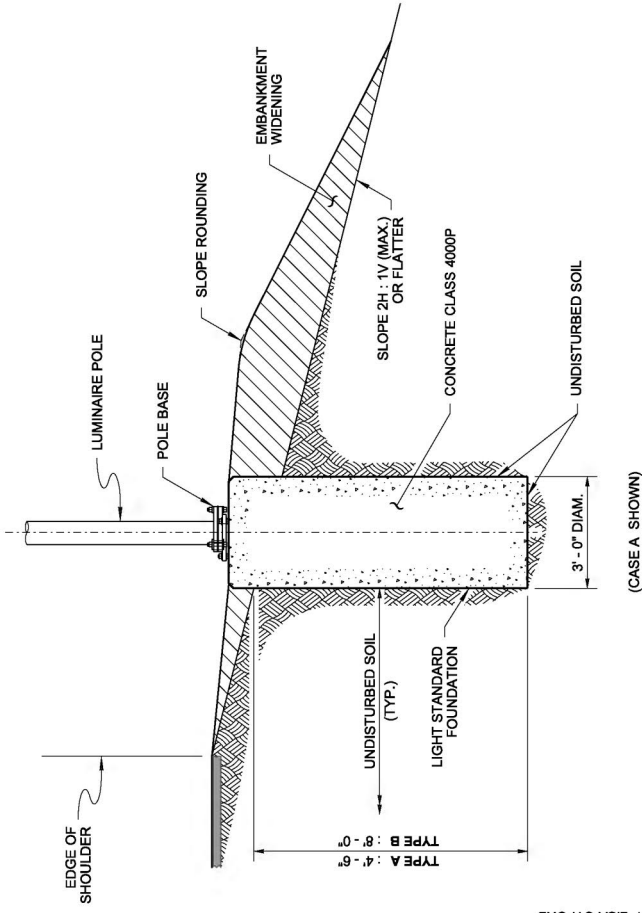
TOP VIEW

STRAP TEMPLATE ASSEMBLY

ANCHOR BOLT TABLE			
LUMINAIRE HEIGHT (FT) (H1)	MAST ARM TYPE	MAST ARM LENGTH (FT)	ANCHOR BOLT DIAMETER (IN) "d"
20' TO 50'	SINGLE	6' TO 16'	1"
20' TO 50'	DOUBLE	6' TO 8'	1"
20' TO 45'	DOUBLE	10' TO 16'	1"
46' TO 50'	DOUBLE	10' TO 16'	1 1/8"

NOTE

These foundation Construction Methods are applicable to all Steel Light Standard Placement Cases. See **Standard Plans J-28.22, J-28.24, and J-28.26.**



METHOD 1

NO SUBSURFACE FORM

This option is used only when the existing soil in the hole will remain standing and the cement concrete can be placed without causing the soil to collapse. Concrete shall be cast directly against undisturbed soil.

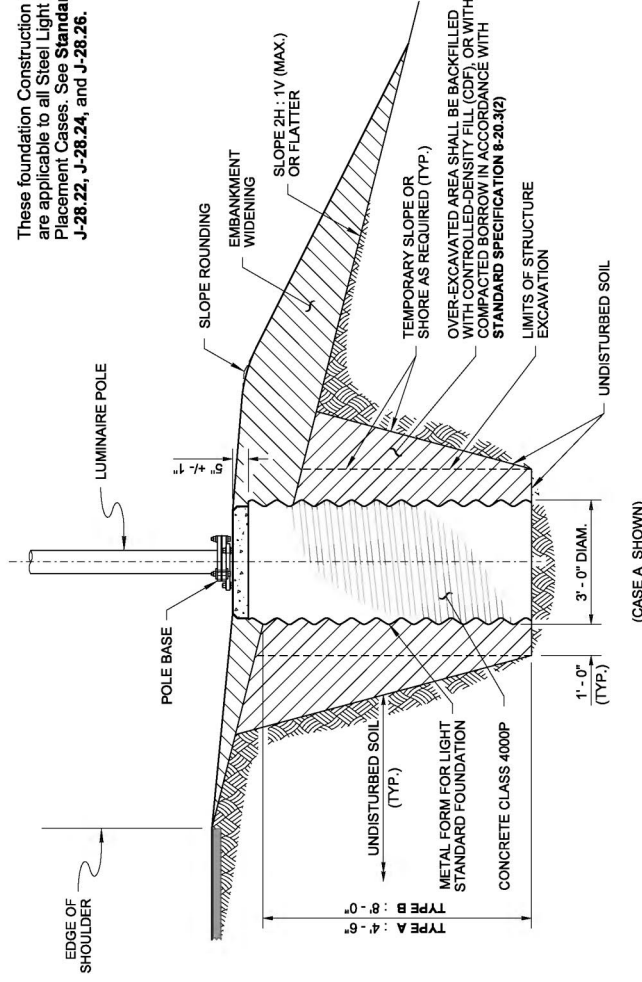
Auger the hole for the foundation. Use a paper or cardboard form to achieve a smooth finish on the final exposed cement concrete. Support the form as necessary to remain plumb.

See **Standard Plans J-28.24 and J-28.26** for maximum heights of exposed foundation when no embankment widening is to be installed.

Place the concrete foundation.

After concrete has cured, remove the paper or cardboard form portion.

Construct the embankment widening (if required).



METHOD 2

METAL (SUBSURFACE) FORM REQUIRED

When the existing soil will not retain a vertical face, over-excavate the foundation area and install a 36" (in) diameter corrugated metal (pipe) form. The corrugated metal form shall not extend more than 5" (in) +/- 1" (in) below any portion of the foundation that will remain exposed upon final grading. Continue forming to full height using a paper or cardboard form to achieve a smooth finish on final exposed cement concrete. Support the form as necessary to remain plumb.

See **Standard Plans J-28.24 and J-28.26** for maximum heights of exposed foundation when no embankment widening is to be installed.

Place the concrete foundation.

After concrete has cured, remove the paper or cardboard form portion.

Backfill with controlled-density fill or compacted borrow in accordance with **Standard Specification 8-20.3(2)**.

Construct the embankment widening (if required).



Richard P. Zeldemust, Richard
Jun 10 2014 10:38 AM

STEEL LIGHT STANDARD FOUNDATION TYPES A & B STANDARD PLAN J-28.30-03

SHEET 2 OF 2 SHEETS

APPROVED FOR PUBLICATION

Balvach, Pasco

Jun 11 2014 1:33 PM

STATE DESIGN ENGINEER

Washington State Department of Transportation

CONSTRUCTION METHODS