



190 Queen Anne Ave N  
 PO Box 19028  
 Seattle, WA 98109-1028

## REQUEST FOR BIDS (by Fax)

Date: 4/17/18		To: Potential Bidders for SHA Solicitation #5077	
The work described below is subject to the conditions described on Attachment A, version 1 <input type="checkbox"/> version 2 <input checked="" type="checkbox"/>			
SHA Reference No.: <b>5077</b>	(Federal Prevailing Wages) <u>Federal Wage Decision No.:</u>	OR	(State Prevailing Wages) <u>Date of State Prevailing Wage Schedule:</u> 5/10/18
Number of Calendar Days to Complete Work: <b>125 days</b>	For Questions Contact: Ricky Phillips	Phone No.:	(206) 615-3530
		FAX No.:	(206) 615-3539
		E-mail:	ricky.phillips@seattlehousing.org
Project Description / Scope of Work: <input checked="" type="checkbox"/> See Scope of Work attached. <input type="checkbox"/> See Scope of Work below. Center Park Spalling Concrete Repairs			
<b>PRE-BID SITE VISIT: Monday, April 23, 2018 at 10:00 AM.</b> Meet at the Center Park Apartments Building at 2121 26 <sup>th</sup> Avenue South, Seattle, WA 98144			
<b>DEADLINE FOR QUESTIONS is Tuesday, May 2, 2018 no later than 2:00 PM.</b> Email your questions to: louise.lauff@seattlehousing.org.			
<b>BID DUE DATE AND TIME: Thursday, May 10, 2018 by 2:00 PM.</b> The bidder is responsible for ensuring that its Bid is received prior to the deadline. Bids received after the deadline will not be considered. <b>FAX YOUR BID TO: (206) 615-3410</b> or deliver to the address above.			
<b>BIDDER ACKNOWLEDGES RECEIPT OF ADDENDA(S) NUMBER(S):</b> _____			
<b>BIDDER MUST COMPLETE THE INFORMATION BELOW.</b> In addition, if bidder has never done business with SHA, it must submit a vendor fact sheet with its bid form. Bidder must also submit the required Section 3 forms with its bid form. <input type="checkbox"/> If checked, Bidder must complete the attached Detailed Bid Price Form and provide the total bid price below.			
Basic Bid Price (without Sales Tax)	Sales Tax on Materials and Labor (see Attachment A)	Total Bid Price (with Sales Tax)	
Bidder's Business Name:	Telephone No.:	E-Mail Address:	
Address:		City, State, Zip Code:	
Business Classification: <input type="checkbox"/> WBE <input type="checkbox"/> MBE <input type="checkbox"/> MWBE <input type="checkbox"/> Section 3		Contractor Registration No.:	
Signature:	Date:	Printed Name and Title of Person Signing Bid:	
By signing above, the Bidder acknowledges receipt of Attachment A and any addenda issued for this project, and proposes to furnish all material and labor and to perform all work described herein for the Bid Price noted above. The Bidder also certifies the following: to have personally and carefully evaluated the Project Description / Scope of Work and Attachment A, and to have a clear understanding of the same, including the requirement to pay prevailing wages.			
<b>SHADED AREA FOR USE BY SHA ONLY: Use this form only for projects estimated to cost less than \$150,000</b>			
Required Number of Bids to Solicit for Federally Funded projects: Less than \$2,000: 1 bid \$2,001-\$150,000: 3 bids			
Required Number of Bids to Solicit for Non-Federally Funded projects: Less than \$10,000: 1 bid \$10,001-\$150,000: 5 bids			
See Purchasing policies for solicitation of projects \$150,000 and above.			



# VENDOR FACT SHEET

Return this Form TO: Seattle Housing Authority, Purchasing Division,  
 ATTN: Louise Lauff  
 190 Queen Anne Ave N, P.O Box 19028, Seattle WA 98109-1028

<b>General Business Information:</b>				<u>For SHA Use Only:</u>	
Name of Business, Organization, or Name of Person (if payment is to an individual):				JDE Vendor No.	
Mailing Address for Payments:					
City:		State:	Zip Code:	E-Mail Address:	
Telephone No.:		Fax No.:		DUNS No.:	
Washington UBI No.:		City of Seattle Business License No.:		Washington Contractor's License No.:	
President/General Manager:		Principal products and/or services offered:			
<b>Type of Organization (check one):</b>					
Individual <input type="checkbox"/>	Sole Proprietor <input type="checkbox"/>	Partnership <input type="checkbox"/>	Corporation <input type="checkbox"/>	Governmental Agency <input type="checkbox"/>	Other _____ <input type="checkbox"/>
Employee Tax ID No. (TIN) or Social Security No. (if Individual):					

<b>Substitute IRS Form W-9 Certification:</b>		
<p>Under penalties of perjury, I hereby certify that the number shown on this form is my correct taxpayer identification number, <u>and</u> that I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding, <u>and</u> I am a U.S. person (including a U.S. resident alien). <b>Note:</b> The Internal Revenue Service does not require your consent to any provision of this document other than the certifications required to avoid backup withholding.</p>		
<b>SIGN HERE →</b>	Signature of U.S. Person	Date

<b>Ownership Status (check all that apply):</b> <input type="checkbox"/> MBE (Minority-Owned Business Enterprise) <input type="checkbox"/> WBE (Women-Owned Business Enterprise) <input type="checkbox"/> MWBE (Minority / Women-Owned Business Enterprise) <input type="checkbox"/> CBE (Combination Business Enterprise) <input type="checkbox"/> Small Business <input type="checkbox"/> HUD Section 3 Business <input type="checkbox"/> Certified by OMWBE (Washington State Office of Minority and Women's Business Enterprises) <input type="checkbox"/> Self-Identified (SHA may request a signed statement re: self-certification)	<b>Racial/Ethnic Status (check one):</b> <input type="checkbox"/> Caucasian (1) <input type="checkbox"/> African American (2) <input type="checkbox"/> Native American (3) <input type="checkbox"/> Hispanic American (4) <input type="checkbox"/> Asian/Pacific American (5) <input type="checkbox"/> Hasidic Jews (6)
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**Method of Contract Payments:** As outlined on the reverse side of this form, for contracts over one million dollars, SHA's method of contract payments is through an electronic virtual credit card issued by SHA's e-payables vendor, Bank of America. Unless SHA grants a waiver, Vendors will receive an enrollment form from SHA following issuance of a contract.

<b>SIGN BELOW:</b>	
Signature of Authorized Representative of Vendor:	Date:
<p>By signing immediately above, the Vendor hereby represents the following:</p> <p>a) The Vendor certifies that to the best of its knowledge and belief, neither it, nor any person/principal or firm which has an interest in the Vendor's firm, is ineligible to participate in a SHA contract, purchase order, direct pay or other transaction, pursuant to the Certification of Eligibility provision specified in the Vendor Fact Sheet Instructions, or;</p> <p>b) The Vendor will comply with SHA's General Terms and Conditions applicable to Purchase Orders, if the Vendor will be supplying goods and/or services through an SHA Purchase Order.</p> <p>To obtain a copy of the General Terms and Conditions, call (206) 615-3379 or visit our Web site at <a href="https://www.seattlehousing.org/sites/default/files/Purchase%20Orders%20Terms%20Conditions.pdf">https://www.seattlehousing.org/sites/default/files/Purchase Orders Terms Conditions.pdf</a></p>	

## Vendor Fact Sheet Instructions

Thank you for your interest in doing business with the Seattle Housing Authority (SHA). We look forward to doing business with you. If you have any questions about completion of the Vendor Fact Sheet, please call us at (206) 615-3379.

In order for SHA to make payments to you or to procure goods or services from you, we need the information requested on the Vendor Fact Sheet, which also serves as a substitute IRS W-9 Form. The information about you will be entered into our computerized payment system and will allow us to make required reports to the Federal government about our business and payment transactions.

**Substitute IRS Form W-9 Certification:** In completing the Vendor Fact Sheet, you must sign the "Substitute IRS Form W-9 Certification" or backup withholding will apply. If you are subject to backup withholding and you are merely providing your correct taxpayer identification number to SHA, you must cross out the portion of the certification after the word "and" in line two, through the end of line five, before signing the form. Detailed instructions about IRS Form W-9 are included on the form, which may be obtained by calling our office at (206) 615-3379 or visiting the IRS web site at [www.irs.gov](http://www.irs.gov).

**Certification of Eligibility:** In order to do business with SHA, the Vendor must be eligible to:

- 1) Be awarded contracts by any agency of the U.S. Government, HUD, or the State in which this Contract work is to be performed; or,
- 2) Participate in HUD programs pursuant to 24 CFR Part 24.

The websites to verify eligibility of the firm and its principals are: <https://www.sam.gov/portal/SAM> and [http://portal.hud.gov/hudportal/HUD?src=/topics/limited\\_denials\\_of\\_participation](http://portal.hud.gov/hudportal/HUD?src=/topics/limited_denials_of_participation). By signing the Vendor Fact Sheet, the Vendor understands that the certification of eligibility is a material representation of fact upon which reliance was placed when SHA agreed to enter into the transaction with the Vendor. SHA may require the Vendor to submit such certification on an annual basis depending on the terms of its contract or the frequency of its business transactions with SHA. If the Vendor subcontracts any portion of the work, the Vendor will be required to submit a similar certification of eligibility to SHA for any Vendor subcontracts. Any written contract executed between SHA and the Vendor shall include these provisions, which may also be referred to as Suspension/Debarment provisions.

**Contract Payments:** Unless SHA grants a waiver, its method of contract payment for contracts of one million or more is through its Bank of America e-payables program. Payments will be made electronically through a virtual Visa credit card. Benefits for using this method include reduced labor costs associated with the processing of checks and enhancing cash flow by eliminating float time associated with the mailing of checks. To learn more about the program, please click here or copy and paste the following URL into your browser: [www.bankofamerica.com/epayablesvendors](http://www.bankofamerica.com/epayablesvendors). For new vendors, SHA will automatically send an enrollment form upon contract award. If you have questions about the program, please contact Brenda Mix, SHA's Accounts Payable Manager, at 206-615-3421 or [bmix@seattlehousing.org](mailto:bmix@seattlehousing.org).

**Small Businesses:** The Vendor Fact Sheet also requests information about whether your business is owned and controlled by women or minorities, and/or is a small business. The following are definitions of these terms for your use. This information provides valuable information to SHA in its efforts to ensure its contracting program meets its diversity objectives and requirements.

- **WMBE:** Minority and women-owned business enterprises must either be self-identified or certified by, the Washington State Office of Women's and Minority Business Enterprises (OMWBE) to be at least fifty-one percent owned by women and/or minority group members.
- **Small Business:** A small business means a business concern, including its affiliates, that is independently owned and operated, not an affiliate or subsidiary of a business dominant in its field of operation, and qualified as a small business under the criteria and size standards in 13 CFR 121. Furthermore, a business is considered small according to the Small Business Administration's established guidelines provided to such businesses.
- **HUD Section 3 Business:** A business that is owned 51% or more by a Section 3 qualified person, or where 30% or more of the permanent, full-time employees of the business are Section 3 qualified persons, or where the business can provide evidence of a commitment to subcontract in excess of 25% of the amount of all subcontracts to other Section 3 certified businesses. A Section 3 qualified person must live in the metropolitan statistical areas identified on SHA's Section 3 form and whose income level meets or falls below the stated income limits.

# Seattle Housing Authority

## Section 3 Business Certification

The work to be performed under this contract is subject to the requirements of Section 3 of the Housing and Urban Development Act of 1968, as amended, 12 U.S.C. 1701u (Section 3). The purpose of Section 3 is to ensure that employment and other economic opportunities generated by HUD assistance or HUD-assisted projects covered by Section 3, shall, to the greatest extent feasible, be directed low-and very low-income persons, particularly persons who are recipients of HUD assistance for housing.

**Section 3 Business Criteria:** Your business is eligible for Section 3 Certification if it meets any one of the following criteria. If your business meets one or more of these criteria, please circle the applicable criteria.

1. Fifty-one percent or more of your business is owned and managed by a Section 3 qualified person or persons. (See qualification guidelines below) A completed and signed Individual Certification form for each Section 3 qualified person or persons is required to be submitted.
2. Thirty percent or more of your permanent, full time employees are Section 3 qualified persons. (When seeking certification under this criteria, please submit a listing of all current, permanent, full-time employees, as well as a completed and signed Individual Certification form for each Section 3 qualified employee.)
3. You can provide evidence of a commitment to subcontract in excess of 25 percent of the amount of all subcontracts to Section 3 certified businesses. (When seeking certification under these criteria, please consult with the Section 3 Coordinator regarding the documentation to be submitted.)

**Section 3 Person Criteria:** A Section 3 qualified person must:

- 1) Be a City of Seattle Housing Authority public housing resident; or
- 2) Live in the metropolitan statistical area (MSA) covering King, Snohomish, and Pierce counties, and,
- 3) Earn no more than the following amounts for the respective MSA area:

Region/Area	1 Person	2 Persons	3 Persons	4 Persons	5 Persons	6 Persons	7 Persons	8 Persons
King and Snohomish Counties	\$ 56,200	\$64,200	\$ 72,250	\$ 80,250	\$ 86,700	\$ 93,100	\$ 99,550	\$ 105,950
Pierce County	\$ 41,800	\$ 47,800	\$ 53,750	\$ 59,700	\$ 64,500	\$ 69,300	\$74,050	\$ 78,850

**Section 3 Statement:** Please check the appropriate box below.

- My business is eligible to be certified as a Section 3 business in accordance with the criteria circled above under Section 3 Business Criteria.
- My business is not a Section 3 business.

Signature:		Date Signed:
Name:	Title:	
Company Name:		

Address:
Telephone Number:

**Note:** If you certify above that your business is a Section 3 business, SHA will request documentation and additional information as may be reasonably required to certify whether your business qualifies as a Section 3 business.

## Section 3 Resident Employment Plan

Section 3 of the Housing and Urban Development Act of 1968 (hereinafter "Section 3") requires SHA, to the greatest extent feasible, to provide employment opportunities to "Section 3 residents." Section 3 residents include residents of SHA communities and other low income residents of the metropolitan statistical area (hereinafter "MSA") covering King, Snohomish, and Pierce counties. SHA residents, preferably residents of the SHA community in which the work is to be done, are favored over other low-income residents of the MSA.

For construction contracts only:

- Each bidder is required to submit with their bid package a plan which will result in the hiring of Section 3 residents to perform the work contemplated by the bid. SHA has established a goal that 100% of all new hires be Section 3 Residents to the greatest extent feasible.
- At a minimum, the Contractor and its subcontractors shall advertise new positions created in order to perform the work called for herein and will post notices to the Contractor's commitments under Section 3 in conspicuous places at the work site. In addition, the Contractor must notify each labor organization with whom it or its subcontractors have a collective bargaining agreement or other understanding of these Section 3 commitments.

In order to fulfill its Section 3 obligations, the Contractor may work with service providers on site at various SHA communities including, but not limited to, Neighborhood House and the Employment Opportunities Center. The plan should specify the number of positions the Contractor expects will be created and what minimum qualifications and skills will be required in order to perform the positions. The plan, if applicable, should also address the Contractor's strategy for recruiting SHA residents for the available positions, which should include consultation with SHA's Section 3 Coordinator.

1. How many new positions do you expect this contract will require you to create?  
 \_\_\_\_\_

2. Describe each position and provide the name and provide the location of the person(s) taking applications for each such position.  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

3. What minimum skills will be required for each position?  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

4. Please describe any training opportunities which the contract may create and any agreements concerning training you have.

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5. How will you advertise these positions to SHA residents?

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If you have any questions about this form, please call Samuel Pierce, SHA's Section 3 Coordinator, at (206) 913-9227.

# SEATTLE HOUSING AUTHORITY

## SUSPENSION AND DEBARMENT COMPLIANCE CERTIFICATE FOR CONTRACTOR

By signing below, the Contractor certifies that to the best of its knowledge and belief neither its firm nor any of its principals as named below are presently debarred, suspended, or have been declared ineligible or are excluded from participation in this transaction by any federal, state or local government.

**Contractor's Firm Name:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**City, State, Zip:** \_\_\_\_\_

	PRINCIPAL(S) Name(s)	Title(s)
1		
2		
3		
4		
5		

Contractor's Signature	Printed Name	Title	Date

**NOTE:** This requirement applies to the Contractor's firm as well as its principals. Principal is defined in the regulation (2 CFR 180.995) as follows:

- 1) An officer, director, owner, partner, principal investigator, or other person within a participant with management or supervisory responsibilities related to a covered transaction; or
- 2) A contractor or other person, whether or not employed by the participant or paid with Federal funds, who-
  - a) Is in a position to handle Federal funds;
  - b) Is in a position to influence or control the use of those funds; or,
  - c) Occupies a technical or professional position capable of substantially influencing the development or outcome of an activity require to perform the covered transaction.

The federal websites to verify eligibility include: <https://www.sam.gov/portal/public/SAM/> and [http://portal.hud.gov/hudportal/HUD?src=/topics/limited denials of participation](http://portal.hud.gov/hudportal/HUD?src=/topics/limited%20denials%20of%20participation).

**SEATTLE HOUSING AUTHORITY**

**SUSPENSION AND DEBARMENT COMPLIANCE CERTIFICATE FOR SUB-CONTRACTORS**

*The Prime Contractor may use this form if the Prime can verify that their Sub-Contractors named below, nor any of their principals are debarred, suspended or ineligible from involvement by Federal, State or Local Government. If the Prime is unable to verify this information, the Prime must send the previous SUSPENSION AND DEBARMENT COMPLIANCE CERTIFICATE FOR CONTRACTOR form to each sub- contractor to be completed and returned.*

**Prime Contractor's Name:** \_\_\_\_\_ certifies that neither any of the sub- contracting firms named below, nor any of its principals are debarred, suspended or ineligible from involvement by Federal, State or Local Government. I understand that the Seattle Housing Authority (SHA) relies on this certification and I understand that I am obligated to submit the following to SHA:

- A certification for any new sub- contractor hired after submission of this certification.
- A renewal certification for every sub- contractor on the anniversary of the Contract execution date if the Contract Time extends beyond one year.

**(Note:** In lieu of this certification, the Prime Contractor may elect to submit a separate certification signed by each sub- contracting firm to SHA as evidence of sub- contractor eligibility. It is the Prime Contractor's responsibility to initiate, obtain, and provide all such individual sub- contractor certifications to SHA.)

<b>Prime Contractor's Signature</b>	<b>Printed Name</b>	<b>Title</b>	<b>Date</b>

**Sub- Contractor Firm Listing:** (If sub- contractors are not involved in the project, please enter NONE.)


If additional pages are necessary, copy this form to ensure signed statement precedes any listing of sub- contractors.

Please contact Louise Lauff at 206-615-3376 or by e-mail at [louise.lauff@seattlehousing.org](mailto:louise.lauff@seattlehousing.org) if you have any questions regarding compliance with this requirement.



### **For-Profit Subgrantee and Contractor Certifications and Assurances**

The Department of Housing and Urban Development (HUD) requires that all for-profit Subgrantees and Contractors on HOPE VI projects sign this “Certifications and Assurances” form certifying that they will comply with the specific federal requirements described below. The parties who must sign a “Certifications and Assurances” form are defined below:

- **Subgrantees:** These are for-profit organizations to which the Housing Authority (Housing Authority or Grantee) has awarded a grant from the HOPE VI grant that the Housing Authority received from HUD. The subgrantee is accountable to the Housing Authority for the use of the funds provided, but the Housing Authority is ultimately accountable to HUD.
- **Contractors:** This includes any for-profit contractor, consultant, service provider, or supplier that the Housing Authority contracts with for goods or services on any HOPE VI project.

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**Certification and Assurance:** The subgrantee or contractor executing this certification hereby assures and certifies that it will comply with all of the applicable requirements of the following, as the same may be amended from time to time, including adding appropriate provisions to all contracts between Grantee and for-profit Subgrantees or Contractors:

- (1) Administrative, contractual, or legal remedies in instances where contractors violate or breach contract terms, and provide for such sanctions and penalties as may be appropriate. (Contracts more than the simplified acquisition threshold)
- (2) Termination for cause and for convenience by the grantee or subgrantee including the manner by which it will be effected and the basis for settlement. (All contracts in excess of \$10,000)
- (3) Compliance with Executive Order 11246 of September 24, 1965, entitled “Equal Employment Opportunity,” as amended by Executive Order 11375 of October 13, 1967, and as supplemented in Department of Labor regulations (41 CFR chapter 60). (All construction contracts awarded in excess of \$10,000 by grantees and their contractors or subgrantees)
- (4) Compliance with the Copeland “Anti-Kickback” Act (18 U.S.C. 874) as supplemented in Department of Labor regulations (29 CFR part 3). (All contracts and subgrants for construction or repair)
- (5) Compliance with the Davis-Bacon Act (40 U.S.C. 276a to 276a-7) as supplemented by Department of Labor regulations (29 CFR part 5). (Construction contracts in excess of \$2000 awarded by grantees and subgrantees when required by Federal grant program legislation)
- (6) Compliance with Sections 103 and 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 327-330) as supplemented by Department of Labor regulations (29 CFR part 5). (Construction contracts awarded by grantees and subgrantees in excess of \$2000, and in excess of \$2500 for other contracts which involve the employment of mechanics or laborers)

- (7) Notice of awarding agency requirements and regulations pertaining to reporting.
- (8) Notice of awarding agency requirements and regulations pertaining to patent rights with respect to any discovery or invention which arises or is developed in the course of or under such contract.
- (9) Awarding agency requirements and regulations pertaining to copyrights and rights in data.
- (10) Access by the grantee, the subgrantee, the Federal grantor agency, the Comptroller General of the United States, or any of their duly authorized representatives to any books, documents, papers, and records of the contractor which are directly pertinent to that specific contract for the purpose of making audit, examination, excerpts, and transcriptions.
- (11) Retention of all required records for three years after grantees or subgrantees make final payments and all other pending matters are closed.
- (12) Compliance with all applicable standards, orders, or requirements issued under section 306 of the Clean Air Act (42 U.S.C. 1857(h)), section 508 of the Clean Water Act (33 U.S.C. 1368), Executive Order 11738, and Environmental Protection Agency regulations (40 CFR part 15). (Contracts, subcontracts, and subgrants of amounts in excess of \$100,000).
- (13) Mandatory standards and policies relating to energy efficiency which are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act (Pub. L. 94-163, 89 Stat. 871).

The information contained in this certification is true and accurate, to the best of my knowledge.

Name of Subgrantee or Contractor	Name and Contract Number:	
Signature of Authorized Certifying Official:	Title:	Date:

WARNING: Section 1001 of the Title 18 of the United States Code (Criminal Code and Criminal Procedure, 72 Stat.967) applies to this certification. 18 U.S.C. 1001, among other things, provides that whoever knowingly and willfully makes or uses a document or writing knowing the same to contain any false, fictitious or fraudulent statement or entry, in any matter within jurisdiction of any department or agency of the United States, shall be fined no more than \$10,000 or imprisoned for not more than five years, or both.

Return this form to:

Seattle Housing Authority  
Attn: Louise Lauff, Purchasing  
P.O. Box 19028  
Seattle, WA 98109-1028



**Address** 190 Queen Anne Ave N  
PO Box 19028

Seattle, WA 98109

**Telephone** 206-615-3300

**TTY** 1-800-833-6388

**Website** [www.seattlehousing.org](http://www.seattlehousing.org)

## Certification of Compliance with Wage Payment Statutes

The undersigned hereby certifies that the bidder is now, and in the three-year period immediately preceding the date of this bid solicitation (4/17/18) has been, in compliance with the responsible bidder criteria requirement of RCW 39.04.350(1)(g) and has not been found to have willfully violated any provision of RCW Chapters 49.46, 49.48, or 49.52 in a final determination by the Department of Labor and Industries or any court of limited or general jurisdiction.

I certify under penalty of perjury under the laws of the State of Washington that the foregoing is true and correct.

\_\_\_\_\_  
Bidder's Business Name

\_\_\_\_\_  
Signature of Authorized Official\*

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date

\_\_\_\_\_  
City

\_\_\_\_\_  
State

*Check One:*

Sole Proprietorship  Partnership  Joint Venture  Corporation

State of Incorporation, or if not a corporation, State where business entity was formed:

\_\_\_\_\_

If a co-partnership, give firm name under which business is transacted:

\_\_\_\_\_

*If a corporation, proposal must be executed in the corporate name by the president or vice-president (or any other corporate officer accompanied by evidence of authority to sign). If a co-partnership, proposal must be executed by a partner.*



## Attachment A, Version 2

(\$35,000 to \$150,000)

### Invitation to Bid (by Fax)

The work described in the Invitation to Bid (by Fax) is subject to the following terms and conditions:

**Bidder Responsibility:** The bidder must meet the mandatory bidder responsibility criteria described below and as specified in RCW 39.04 or 2 CFR 200 in order to be considered a responsible contractor and be eligible for award consideration:

1. At the time of bid submittal, have a current certificate of registration in compliance with chapter 18.27 RCW, which must have been in effect at the time of the bid submittal;
2. Have a current Washington Unified Business Identifier (UBI) number;
3. If applicable:
  - Have Industrial Insurance (workers' compensation) coverage for the bidder's employees working in Washington, as required in Title 51 RCW;
  - Have a Washington Employment Security Department number, as required in Title 50 RCW;
  - Have a Washington Department of Revenue state excise tax registration number, as required in Title 82 RCW;
  - Electrical Contractor License, if required by Chapter 19.28 RCW
  - 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 RCW 39.12.065(3).
5. Has not more than one violation of the off-site, prefabricated, non-standard, project specific items reporting requirements of RCW 39.04.370. (Applicable until December 31, 2013)
6. Has not been debarred, suspended, or otherwise ineligible to contract with SHA and is not included on the Excluded Parties List System (EPLS) on GSA's SAM (System for Award Management) <https://www.sam.gov/portal/public/SAM/> or the Department of Housing and Urban Development's "Limited Denial of Participation" list. This requirement also applies to the Bidder's principals.

**Prevailing Wages:** The Contractor must pay all workers at least the prevailing wage rate for the type of work performed in accordance with the applicable prevailing wage rate schedule referenced on the Purchase Order or Request for Bid (by Fax) form and included in these solicitation documents. The type of wage schedule attached i.e., HUD Determined, Davis-Bacon, or the State Prevailing Wage schedule determines the appropriate labor standards that apply to the work as outlined below and contained in the General Conditions for Construction:

- 1) Part 11.13 for projects subject to the HUD-Determined wage rate schedule.
- 2) Part 11.12 for projects subject to Davis-Bacon wage schedule.
- 3) Part 5 for projects subject to the State prevailing wage schedule.

As part of its compliance with the prevailing wage requirements, the Contractor and, if applicable, subcontractor(s) shall comply with the requirement to submit a Statement of Intent to Pay Prevailing Wages and Affidavit of Wages Paid forms approved by the State of Washington's Department of Labor and Industries. The Owner will notify the Contractor of any special filing instructions that may apply for these forms depending on the funding source(s) of the project.

**Bid Bond:** SHA does not require a bid guarantee for small works roster construction projects estimated to cost \$150,000 or less.

**Insurance:** Within seven calendar days of award, the Contractor shall submit to SHA, and maintain throughout the contract, at no expense to SHA, the following insurance coverage at the limits noted (refer to Part 2 of SHA's General Conditions for more details):

1. Commercial General Liability Insurance. \$1,000,000 each occurrence, and \$2,000,000 aggregate
2. Additional Insured Endorsement Ongoing Operations: The Owner must be included as an Additional Insured on a primary and non-contributory basis on all Commercial General Liability policies of the Contractor. A policy endorsement form CG2010 or equivalent must be provided to Owner as evidence of additional insured coverage.
3. Additional Insured Endorsement Completed Operations: The Contractor's CGL insurance shall include the Owner as an additional insured for Contractors Completed Operations by providing additional insured status on the CG2037 endorsement, or by an equivalent policy or endorsement provision. The Contractors Completed Operations additional insured status for the Owner shall remain in effect for not less than three (3) years following the Final Acceptance of the Work by the Owner.
4. Employers Liability policy or Washington Stop Gap Liability insurance endorsement: \$1,000,000 each accident.
5. Workers Compensation coverage.
6. Commercial Automobile Liability Insurance. \$1,000,000 combined single limit coverage
7. Pollution Liability Insurance: \$1,000,000 combined single limit coverage, if the work involves handling or disposal of asbestos, lead-based paint, contaminated soil, or other hazardous materials.
8. Professional Liability Insurance: \$1,000,000 combined single limit, each claim.

**Performance & Payment Bond Requirements:** Within seven calendar days of award, the Contractor shall submit to SHA, in accordance with Section 2.05 of the General Conditions, a Performance and Payment bond. Failure to furnish a Performance and Payment bond within the time specified may render the Contractor ineligible for the contract. The SHA may then either award the contract to the next lowest responsible bidder or solicit new bids.

**Retainage Requirements:** SHA requires retainage to be withheld for small works roster construction projects costing \$35,000 or more.

**Tax Exempt Status of SHA:** For this project, SHA is subject to sales tax for materials, labor and services rendered. The Contractor must pay sales tax on labor and materials purchased for this job.

**Protests:** Any protest of award shall be resolved in accordance with SHA's Procurement Policies, which may be reviewed at the following web site address:

[http://seattlehousing.org/business/guidelines/pdf/Procurement\\_Policies.pdf](http://seattlehousing.org/business/guidelines/pdf/Procurement_Policies.pdf)

**General Conditions:** SHA's General Conditions are hereby incorporated by reference and made a part of this Request for Bid (by Fax) and any subsequent contract or purchase order executed for this work as if fully included herein. If the event of any discrepancy between the terms of this Attachment A and the General Conditions, the terms of the General Conditions shall apply, except that the types and amounts of insurance specified above, and the waiver of the Contract Bond and withholding of retainage specified above, shall take precedence over the General Conditions. The General Conditions may be viewed by accessing the following Internet Web site address:

[http://seattlehousing.org/business/guidelines/pdf/Construction\\_Contract\\_General\\_Conditions.pdf](http://seattlehousing.org/business/guidelines/pdf/Construction_Contract_General_Conditions.pdf), or upon request, a copy of the General Conditions may be obtained by calling SHA at (206) 615-3379.

**Performance Evaluation:** The Contractor's performance on this project will be evaluated in accordance with SHA's Contractor Performance Evaluation Program. A copy of the Program may be obtained by accessing the following website:

[http://seattlehousing.org/business/guidelines/pdf/Performance\\_Evaluation\\_Program.pdf](http://seattlehousing.org/business/guidelines/pdf/Performance_Evaluation_Program.pdf).

**Section 3:** Section 3 of the Housing and Urban Development Act of 1968 (hereinafter "Section 3") requires SHA to the greatest extent feasible to provide employment opportunities to Section 3 residents. Section 3 residents include residents of SHA communities and other low-income residents of the metropolitan statistical area (MSA) covering King, Snohomish, and Pierce counties. Each bidder is required to submit with its Bid a Section 3 Resident Employment Plan that will result in hiring Section 3 residents to perform the work contemplated by this solicitation, and a Section 3 Business Certification form. Failure to complete these forms may render a bid non-responsive.

- A. Selection Preference for Section 3 Businesses: If a bidder claims to be a Section 3 business on the Section 3 Business Certification form required to be submitted with its Bid, and the Bid of the Section 3 business exceeds the low bid by no more than 10%, SHA will conduct an investigation whether the business qualifies as a Section 3 business, and SHA may award the contract to the Section 3 business at the price bid by the Section 3 business. In submitting a Bid, the bidder agrees to provide any information required by SHA to determine whether the business qualifies as a Section 3 business. A business may qualify as a Section 3 business by meeting one of the following criteria:
1. At least 51% of the business is owned by Section 3 qualified persons who live in the metropolitan statistical area (MSA) covering King, Snohomish, and Pierce counties and meet the prescribed income limitations based on family size as shown on the Section 3 Business Certification form.
  2. 30% or more of the business' permanent, full-time employees (core employees within the last 12 months) are Section 3 qualified persons who live in the metropolitan statistical area (MSA) covering King, Snohomish, and Pierce counties and meet the prescribed income limitations based on family size as shown on the Section 3 Business Certification form.
  3. The business makes a commitment to subcontract with Section 3 businesses for more than 25% of the dollar amount of all subcontracts to be awarded by the business. Prior to award, such businesses must submit a plan and the necessary support documents describing how the subcontracting commitment will be met. SHA will evaluate the plan and documents submitted and determine whether it is likely the bidder will attain the subcontracting percentage. SHA will monitor the Section 3 business' compliance with their subcontracting commitment. The bidder's failure to fulfill the Section 3 subcontracting commitment shall be a material breach of contract which may result in SHA taking any or all of the following actions: (1) demanding specific performance of the subcontracting plan; (2) withholding from contract payments the dollar amount of any or all subcontracts that were to have been awarded to Section 3 businesses or such lesser amount as may be appropriate; (3) withholding any liquidated damages that SHA may incur as a result of the bidder's failure to comply with its Section 3 commitment and subcontracting plan; and (4) declaring the bidder ineligible to compete for, or participate in, any SHA contract for a period of five years from the acceptance date of the contract in which the Section 3 subcontracting commitment was made.
- B. Section 3 Contract Language: The following language regarding Section 3 will be included as part of the contract to be executed based on this solicitation.
1. The work to be performed under this contract is subject to the requirements of Section 3 of the Housing and Urban Development Act of 1968, as amended, 12 U.S.C. 1701u (Section 3). The purpose of Section 3 is to ensure that employment and other economic opportunities generated by HUD assistance or HUD-assisted projects covered by Section 3, shall, to the greatest extent feasible, be directed to low- and very low-income persons, particularly persons who are recipients of HUD assistance for housing.
  2. The parties to this contract agree to comply with HUD's regulations in 24 CFR part 135, which implement Section 3. As evidenced by their execution of this contract, the parties to this contract certify that they are under no contractual or other impediment that would prevent them from complying with the part 135 regulations.
  3. The contractor agrees to send to each labor organization or representative of workers with which the contractor has a collective bargaining agreement or other understanding, if any, a notice advising the labor organization or workers representative of the contractor's commitments under this Section 3 clause, and will post copies of the notice in conspicuous places at the work site where both employees and applicants for training and employment positions can see the notice. The notice shall describe the Section 3 preference, shall set forth minimum number and job titles subject to hire, availability of apprenticeship and training positions, the qualifications for each; and the name and location of the person(s) taking applications for each of the positions; and the anticipated date the work shall begin.
  4. The contractor agrees to include this Section 3 clause in every subcontract subject to compliance with regulations in 24 CFR part 135, and agrees to take appropriate action, as provided in an

applicable provision of the subcontractor in this Section 3 clause, upon a finding that the subcontractor is in violation of the regulations in 24 CFR part 135. The contractor will not subcontract with any subcontractor where the contractor has notice or knowledge that the subcontractor has been found in violation of the regulations in 24 CFR part 135.

5. The contractor will certify that any vacant employment positions, including training positions, that are filled (1) after the contractor is selected but before the contract is executed, and (2) with persons other than those to whom the regulations of 24 CFR part 135 require employment opportunities to be directed, were not filled to circumvent the contractors obligations under 24 CFR part 135.
6. Noncompliance with HUD's regulations in 24 CFR part 135 may result in sanctions, termination of this contract for default, and debarment or suspension from future HUD assisted contracts.
7. With respect to work performed in connection with Section 3-covered Indian Housing Assistance, Section 7(b) of the Indian Self-Determination and Education Assistance Act (25 U.S.C. 450e) also applies to the work to be performed under this Contract. Section 7(b) requires that to the greatest extent feasible (i) preference and opportunities for training and employment shall be given to Indians, and (ii) preference in the award of contracts and subcontracts shall be given to Indian organizations and Indian-owned Economic Enterprises. Parties to this Contract that are subject to the provisions of Section 3 and Section 7(b) agree to comply with Section 3 to the maximum extent feasible, but not in derogation of compliance with Section 7(b).
8. If the Contractor is a Section 3 business and was awarded the contract by SHA based on the Section 3 business preference requirements of the invitation to bid for committing to subcontract more than 25% of the dollar amount of all subcontracts to Section 3 businesses, the Contractor agrees to meet the Section 3 subcontracting commitment. Failure of the Contractor to fulfill the Section 3 subcontracting commitment shall be deemed a material breach of contract, which may result in SHA taking any or all of the following actions: (1) demanding specific performance of the subcontracting plan; (2) withholding from contract payments the dollar amount of any or all subcontracts that were to have been awarded to Section 3 businesses or such lesser amount as may be appropriate, (3) withholding any liquidated damages that SHA may incur as a result of the Contractor's failure to comply with its Section 3 commitment and subcontracting plan; and (4) declaring the Contractor ineligible to compete for, or participate in, any SHA contract for a period of five years from the acceptance date of the contract in which the Section 3 subcontracting commitment was made.

## SECTION 011000 - SUMMARY

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

- A. General provisions of the Contract, including General Conditions, Attachment A-Version 2, and other Specification Sections, apply to this Section.

#### 1.2 SUMMARY

- A. This Section includes the following:
  - 1. Work covered by the Contract Documents.
  - 2. Type of the Contract.
  - 3. Use of premises.
  - 4. Owner's occupancy requirements.
  - 5. Work restrictions.
  - 6. Specification formats and conventions.
  - 7. Permits.
  - 8. Governing Codes and Regulations.
  - 9. Preconstruction Conference.

#### 1.3 WORK COVERED BY CONTRACT DOCUMENTS

- A. Project Identification: Center Park Spalling Concrete Repair
  - 1. Project Location: **2121 26<sup>th</sup> Ave South, Seattle, WA, 98144**
- B. Owner: Seattle Housing Authority, 190 Queen Anne Ave. N., P.O. Box 19028, Seattle, WA, 98109-1028
  - 1. Owner's Representative:
    - a. Ricky Phillips, Construction Project Manager.
- C. The Work consists of the following:
  - 1. Existing Conditions
    - a. Center Park is a six-story apartment building owned and managed by Seattle Housing Authority.
    - b. Building make up consists of brick and concrete exterior. Concrete structure is reinforced with rebar, no post tension construction is used.
    - c. Building currently has GE OPTIC 2401 Silicon Coating applied over the brick and concrete exterior.
    - d. Site conditions do not allow for full use of scaffolding at building perimeter. May need to use swing stage or similar equipment for accessing upper locations.
    - e. There is minimal contractor parking on site.



- f. No smoking allowed on property by Contractor or Subcontractors.
  - g. All building dimensions **must** be field verified by contractor. Do not scale plans.
  - h. All quantities of materials to be replaced or altered **must** be field verified by contractor.
  - i. Contractor to provide all labor and materials, unless stated otherwise. All tasks must be complete with uniform fit, function, form, style, and type. **Units will be occupied at all times during this work.**
2. Selective Demo
    - a. Contractor will need to remove the GE OPTIC 2401 SILICON COATING from areas of repair to insure a strong bond is achieved.
    - b. Refer to SS-1, SS-2, SS-3, and SS-4 details provided for instructions on how to address the areas of repair. Chip out part of the concrete around the rebar. The rebar should then be cleaned and primed. Patch the area per attached details.
    - c. Chip out the concrete around the wire ties and repair per SS-3.
    - d. Chip out and repair the guard rail post connection per SS-3.
    - e. Replace the elastomeric coating.
3. Concrete
    - a. Use the following products or equal as recommended by CT Engineers to perform the repairs;
      - i. Sika Top 123 Plus
      - ii. Sika Top 123 Plus Crack Filler
      - iii. Sika Armatec 110 EpoCem.
    - b. Refer to the product specification sheets provided by CT Engineers for correct installation of the above products.
4. Painting
    - a. Once repair is completed and approved by Owner, provide and place GE OPTIC 2401 SILICON COATING or equal on areas where repair was performed.
5. Final cleaning:
    - a. Contractor shall remove all construction debris daily.
    - b. Dust and fines shall be wiped clean off of adjacent surfaces including but not limited to:
      - i. Glazing
      - ii. Balconies
      - iii. Walkways
      - iv. Doors
      - v. Other adjacent surfaces
6. General Notes:
    - a. Contractor to provide preliminary project schedule submitted before project Notice to Proceed. Schedule should be in MS Project and shall identify project duration, task duration, and include start and stop dates.
    - b. Maintain access into buildings for mail delivery and emergency access during construction activities at main building entrances.

- c. Power & water to be provided by contractor. No onsite power or water is provided.
- d. SHA expect scaffolding to be used on buildings during construction.
- e. SHA expects this project to be continually staffed / full time through the duration of the project
- f. 48-Hour Notices required for posting before entering units, unless deemed as an emergency.
- g. Use drop clothes and other protective methods to minimize damage from falling debris.
- h. Project will be constructed under a single-prime, general construction contract.
- i. The Contractor shall use Prevailing Wage rates when determining bid and for payment purposes to all eligible employees, as required by law.
- j. Sales Tax: charged to Labor & Materials.

#### 1.4 USE OF PREMISES

- A. General: Contractor shall have limited use of premises for construction operations, including use of Project site, during construction period. Contractor's use of premises is limited only by Owner's right to perform work or to retain other contractors on portions of Project.
  - 1. Owner Occupancy: Allow for Owner occupancy of Project site.
  - 2. Driveways and Entrances: Keep driveways and entrances serving premises clear and available to Owner, Owner's employees, and emergency vehicles at all times. Contact the owner for placement location of waste containers and storage materials in the building parking areas. Inspection of asphalt and concrete surface prior to Work and at completion of work will be conducted by owner and contractor. Damage to asphalt from work will be repaired by the Contractor, solely at the Contractor expense, to Owner's satisfaction.
    - a. Schedule deliveries to minimize use of driveways and entrances.
    - b. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on-site.
  - 3. Parking: Reserved parking for Contractors is possible on a limited basis, otherwise parking is available in building parking lot and street on first come first serve basis.

#### 1.5 OWNER'S OCCUPANCY REQUIREMENTS

- A. Full Owner Occupancy: Owner will occupy site and existing buildings during entire construction period. Cooperate with Owner during construction operations to minimize conflicts and facilitate Owner usage. Perform the Work so as not to interfere with Owner's day-to-day operations. Maintain existing exits, unless otherwise indicated.
  - 1. Maintain access to existing walkways, corridors, and other adjacent occupied or used facilities. Do not close or obstruct walkways, corridors, or other occupied or used facilities without written permission from Owner and authorities having jurisdiction.

2. Provide not less than 72 hours' notice to Owner of activities that will affect Owner's operations.

#### 1.6 WORK RESTRICTIONS

- A. On-Site Work Hours: Work shall be generally performed during normal business working hours of 8 a.m. to 5:00 p.m., Monday through Friday, unless otherwise indicated.
  1. Work in units shall begin after 8:00am. Unit access is not allowed prior to 8:00am.
  2. Weekend Hours: No weekend work permitted without owner permission.
  3. No work is permitted on Holidays recognized by Seattle Housing Authority as listed below:
    - a. New Year's Day.
    - b. Martian Luther King Jr.'s Birthday.
    - c. President's Day.
    - d. Memorial Day.
    - e. Independence Day.
    - f. Labor Day.
    - g. Thanksgiving Day & Day Following Thanksgiving Day.
    - h. Christmas Day.

#### 1.7 SPECIFICATION FORMATS AND CONVENTIONS

- A. Specification Format: The Specifications are organized into Divisions and Sections using the 48-division format and CSI/CSC's "MasterFormat" numbering system.
- B. Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:
  1. Abbreviated Language: Language used in the Specifications and other Contract Documents is abbreviated. Words and meanings shall be interpreted as appropriate. Words implied, but not stated, shall be inferred, as the sense requires. Singular words shall be interpreted as plural and plural words shall be interpreted as singular where applicable as the context of the Contract Documents indicates.

<u>Item</u>	<u>Meaning</u>
Accepted	Reviewed with no exceptions taken to submittal material. See "Submittal".
Approved	Inspected and accepted by the Authority Having Jurisdiction.
Furnish	Deliver to the jobsite.
Install	To enter permanently into the project and make fully operational.
Provide	Furnish and install.

Required	As required by code, Authority Having Jurisdiction or contract documents
Shown	For the particular installation to be fully operational.
AHJ	As indicated on the drawings or details. Authority having jurisdiction.

2. Imperative mood and streamlined language are generally used in the Specifications. Requirements expressed in the imperative mood are to be performed by Contractor. Occasionally, the indicative or subjunctive mood may be used in the Section Text for clarity to describe responsibilities that must be fulfilled indirectly by Contractor or by others when so noted.

a. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (:) is used within a sentence or phrase.

### 1.8 PERMITS

A. It is the Contractor's responsibility to obtain all necessary permits and inspections as may be required to perform all aspects of the required work for this project including Right of Way and Street Use. The cost of any such permits and associated fees is to be included in the Contractor's bid amount.

B. Contractor shall arrange for and supply personnel for inspections of work by all AHJ Inspectors (including building permit inspections) and shall give the inspectors all necessary assistance in their work of inspection as required.

### 1.9 GOVERNING CODES AND REGULATIONS

A. The work shall be performed in accordance with applicable codes, and regulations. If any conflict occurs between government-adopted laws and drawings and this Specification, the laws are to govern. Nothing in the drawing or these specifications shall be construed to permit work not conforming to the governing laws. The preceding sentence shall not be construed as relieving the Contractor from complying with any requirements of those herein before mentioned governing laws and rules and not contrary to same.

B. The Contractor is required to be familiar with the details of these standards and any local codes and ordinances as they affect the installation of specific systems. The edition of the appropriate code or standard current at commencement of installation shall govern all installations.

### 1.10 PRECONSTRUCTION CONFERENCE

A. Attend a pre-construction conference before starting any work at a time agreed upon by both parties. The meeting agenda will be to review responsibilities and personnel assignments.

B. Agenda: Discuss items of significance that could affect progress, including the following:

1. Construction schedule.
2. Designation of responsible personnel.
3. Use of premises.
4. Parking availability.
5. Storage areas.
6. Equipment deliveries and priorities.
7. Safety procedures.
8. First Aid.
9. Security.
10. Working hours.

END OF SECTION 011000



## STRUCTURAL OBSERVATION REPORT

<b>Project:</b> Center Park	<b>Purpose:</b> Structural Evaluation
<b>Location:</b> 2121 26 <sup>th</sup> Ave S, Seattle, WA	<b>Date:</b> November 7 <sup>th</sup> , 2017
<b>CG Project:</b> 14120.012	<b>Report:</b> 1
<b>Client:</b> Ricky Phillips	<b>General Contractor:</b> Unknown
<b>Field Rep:</b> Dennis Titus, PE, SE; Michaela Burr, EIT	

### PURPOSE AND SCOPE

Field representatives of CG Engineering were on site on **October 10, 2017** to evaluate spalling concrete for the Center Park Apartments at the request of Ricky Phillips from Seattle Housing Authority.

### EXISTING BUILDING

The existing building is a 6-story concrete and masonry apartment building. The interior walls are masonry and the exterior walls are a combination of brick and reinforced concrete. At the time of the site visit, rebar could be seen within the spalling concrete.

### OBSERVATIONS & RECOMMENDATIONS

- Concrete Planters** – Each unit has a concrete planter which extends out from the building. The spalling concrete was observed on the underside of the outside edges of the planters. Additionally, there were water stains along the outside edge on the underside of the planters. It appears that water is running down the outside face of the planter and wicking to the underside. The rebar on the underside of the planters is very close to the edge and in some locations the concrete cover is less than ½". Of the visible planters, spalling was evident on approximately 20% of the planters. There were several areas where the planters had been previously patched and one location where spalling concrete was observed on the side of the planter. An emulsion coating which appeared to be original to the building construction was applied to the inside of the planters. It is unclear if the coating is still functional.
  - We recommend chipping out part of the concrete around the rebar. The rebar should then be cleaned and primed. Patch the area per the attached details. A waterproofing specialist should be retained to provide recommendations to prevent the water from wicking back under the planters.
- Concrete Deck** – There are common area decks made of concrete with a concrete guard rail wall and steel railing. The floors of the decks and tops of outside walls were coated with an aging elastomeric coating. Similar to the planters, the decks showed water stains and spalling on the underside. It appears that water is running down the outside and wicking under the outside edge of the deck. Additionally, spalling was observed on the inside of the concrete guard rail wall. Rust was observed at wire ties at regular spacing and in many locations there was spalling of rebar at these locations. It appears that the wire ties are letting water in and corroding the rebar causing spalling.
  - Chip out part of the concrete around the rebar. The rebar should then be cleaned and primed. Patch the area per the attached details.

- Chip out the concrete around the wire ties and repair per SS-3.
  - Chip out and repair the guard rail post connection per SS-3.
  - Replace the elastomeric coating.
3. General Construction Recommendations – The above recommendations and attached details are generic for conditions observed. The details will not apply to all conditions. We recommend that once the repair project is scheduled and scaffolding is in place that a thorough investigation be completed for each deck and planter. Where required specific details can be provided.



12/15/2017

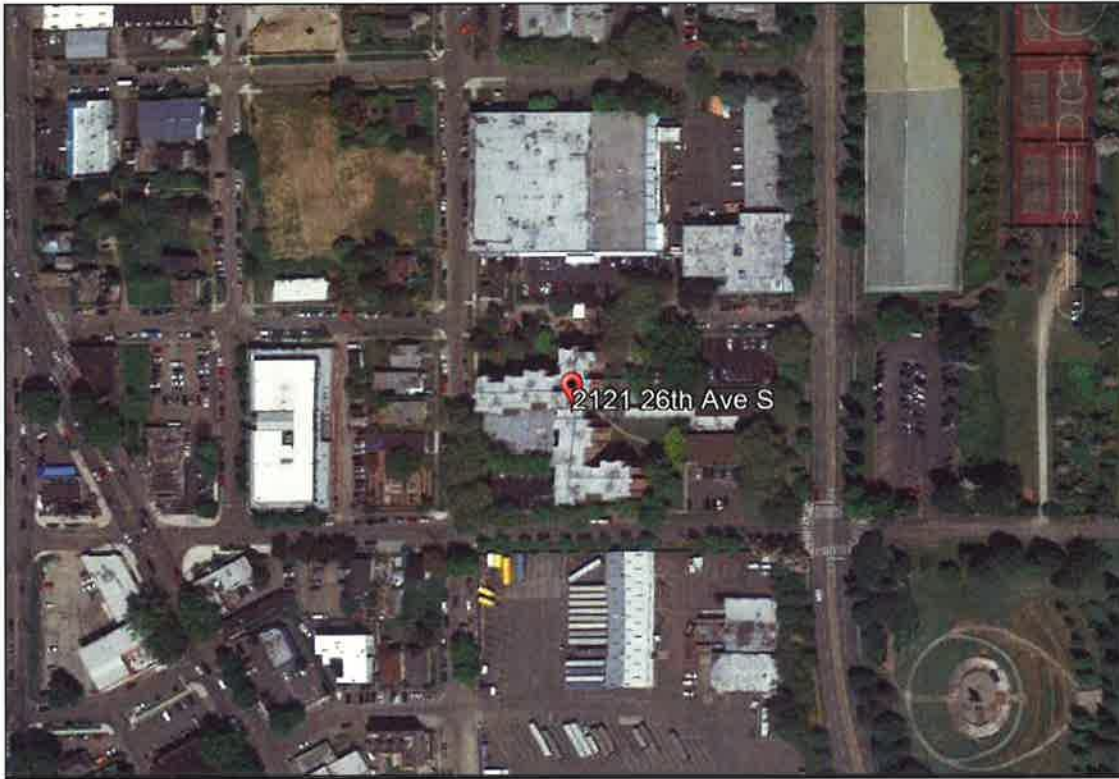
Attachments:

- SS-1 Spalling Repair Less than 1 ½" Deep
- SS-2 Spalling Repair Greater than 1 ½" Deep
- SS-3 Deck Section
- SS-4 Planter Section

- Sika Top 123 product specification
- Sika Armatec 110 product specification

DISCLAIMER

This observation is the professional opinion of CG Engineering PLLC based on the information available during this assessment or evaluation. This report does not warrant or guarantee that all conditions were discovered at the time of the observation. This report was prepared subject to the standard of care applicable to professional services at the time the services were provided.



**Photo 1 – Aerial Image of Project Site**





**Photo 2 – Spalling Concrete with Exposed Rebar and Previous Patches on Planter**



**Photo 3 – Water Staining on Planter**



**Photo 4 – Spalling on Side of Concrete Planter**



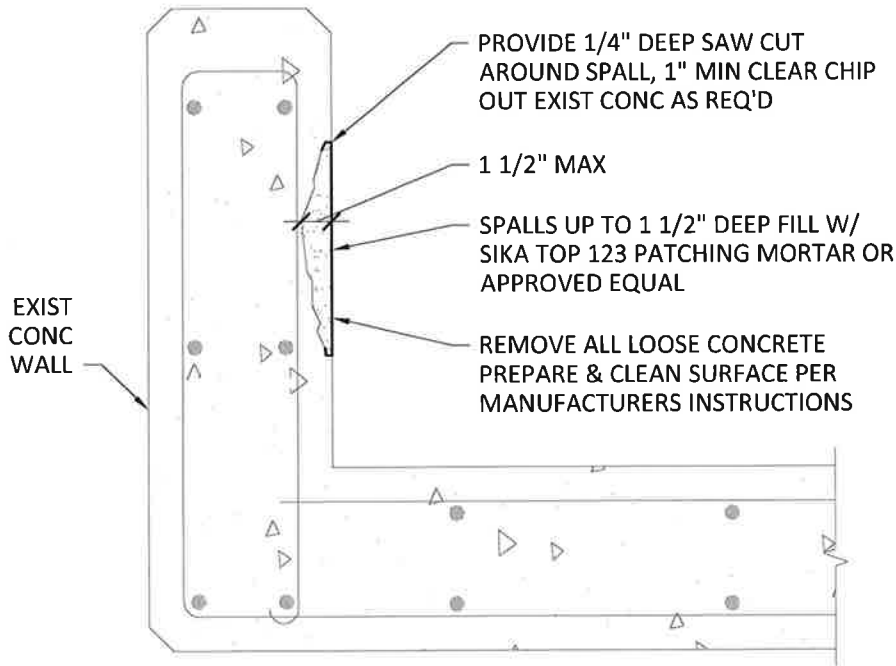
**Photo 5 – Rusting Wire Ties and Spalling Concrete**



**Photo 6 – Spalling Concrete and Corroding Rebar**



**Photo 7 – Corroding Deck Rail**



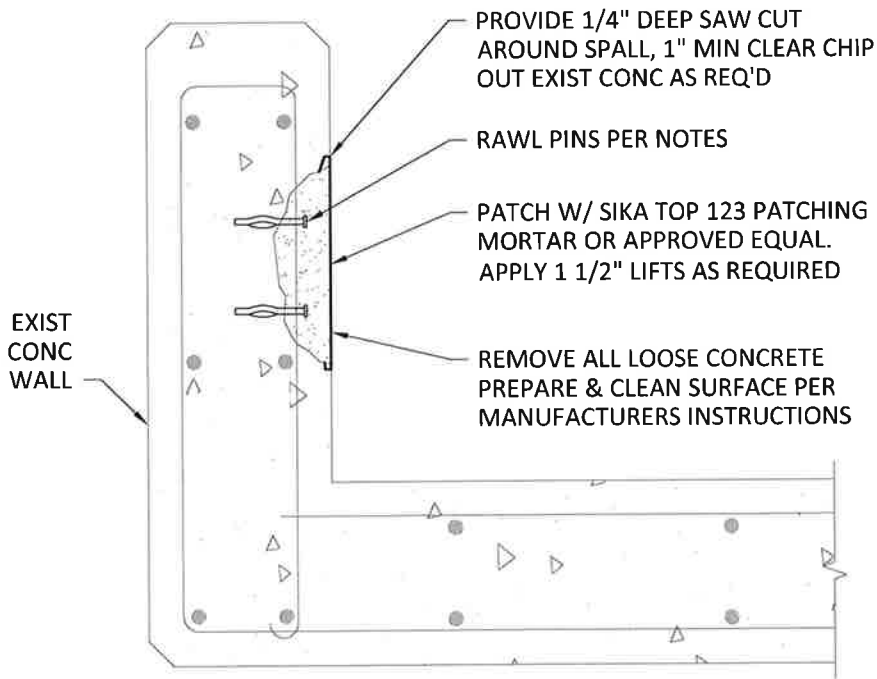
- NOTES:**
1. CONTINUOUS SPECIAL INSPECTION IS REQ'D.
  2. CLEAN EXPOSED STEEL REINF W/ WIRE WHEEL BRUSH & PRIME W/ SIKA ARMATEC 110 EPOCEM OR APPROVED EQUAL.
  3. WHERE REINF COVER IS LESS THAN 1/4" APPLY SIKA TOP SEAL 107 OR APPROVED EQUAL.
  4. WHERE REINF PROTRUDES BEYOND WALL, CONTACT ENGINEER PRIOR TO PROCEEDINGS.
  5. PRIME ALL EXPOSED CONCRETE W/ SIKA ARMATEC 110.

**1** WALL SPALLING REPAIR UP TO 1 1/2" DEEP  
 1 1/2" = 1'-0"



12/15/17

 250 4TH AVE. S., SUITE 200 EDMONDS, WASHINGTON 98020 PHONE (425) 778-8500 FAX (425) 778-5536	<b>CENTER PARK CONCRETE REPAIR</b> 2121 26TH AVE S SEATTLE, WA 98144	DATE 12/15/17 PROJECT NO. 14120.012 SCALE 1 1/2"=1'-0" DRAWN BY JCP CHECKED BY DMT APPROVED BY DMT	SHEET  <b>SS-1</b>	
	TITLE <b>WALL SPALLING REPAIR DETAIL</b>			



- NOTES:**
1. CHIP AWAY LOOSE CONCRETE AND INSTALL 1/4"Ø S.S. BUTTON HEAD RAWL SPIKE ANCHORS (ANCHOR LENGTH DETERMINED BY DEPTH OF SPALL 1 1/2" MIN EMBED IN EXIST CONC AND 1" MIN CONC COVER) AT 6" OC REPLACE CONC W/ NEW PATCHING MORTAR.
  2. CONTINUOUS SPECIAL INSPECTION IS REQ'D.
  3. CLEAN ALL EXPOSED REINF W/ WIRE WHEEL BRUSH & PRIME W/ ARMATEC 110 .
  4. PRIME ALL EXPOSED CONCRETE W/ SIKA AMRAEC 110.

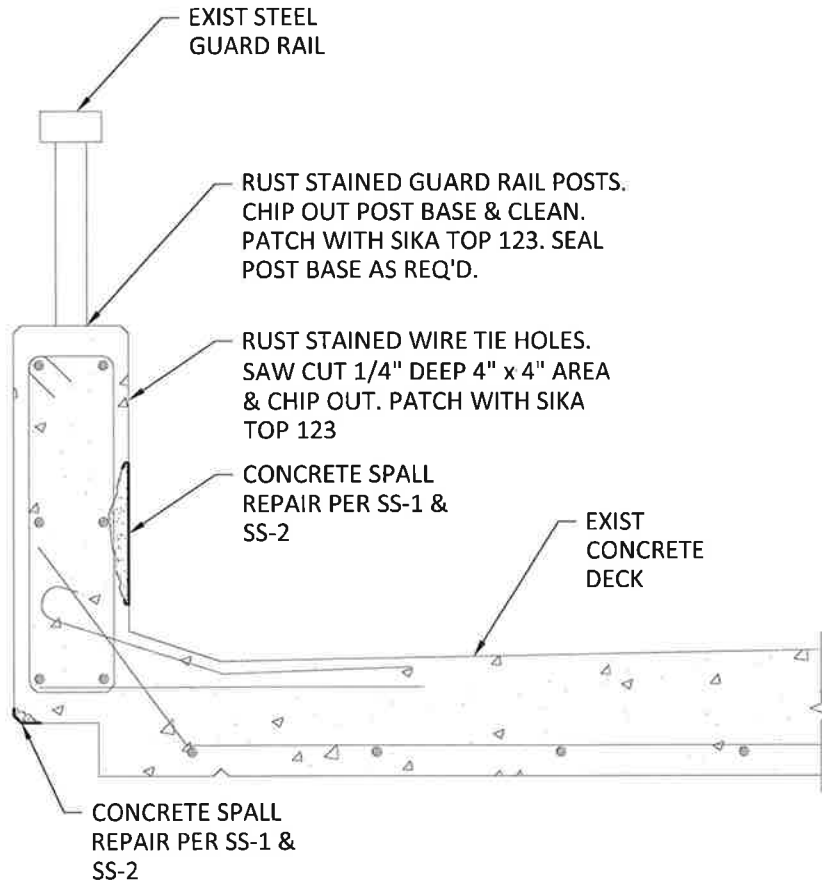
2

**WALL SPALLING REPAIR GREATER THAN 1 1/2" DEEP**  
 1 1/2" = 1'-0"



12/15/17

 250 4TH AVE. S., SUITE 200 EDMONDS, WASHINGTON 98020 PHONE (425) 778-8500 FAX (425) 778-5536	<b>CENTER PARK CONCRETE REPAIR</b> 2121 26TH AVE S SEATTLE, WA 98144	DATE 12/15/17 PROJECT NO. 14120.012 SCALE 1 1/2"=1'-0" DRAWN BY JCP CHECKED BY DMT APPROVED BY DMT	SHEET  <b>SS-2</b>	
	TITLE <b>WALL SPALLING REPAIR DETAIL</b>			



3

### DECK SECTION

SCALE: 1" = 1'-0"



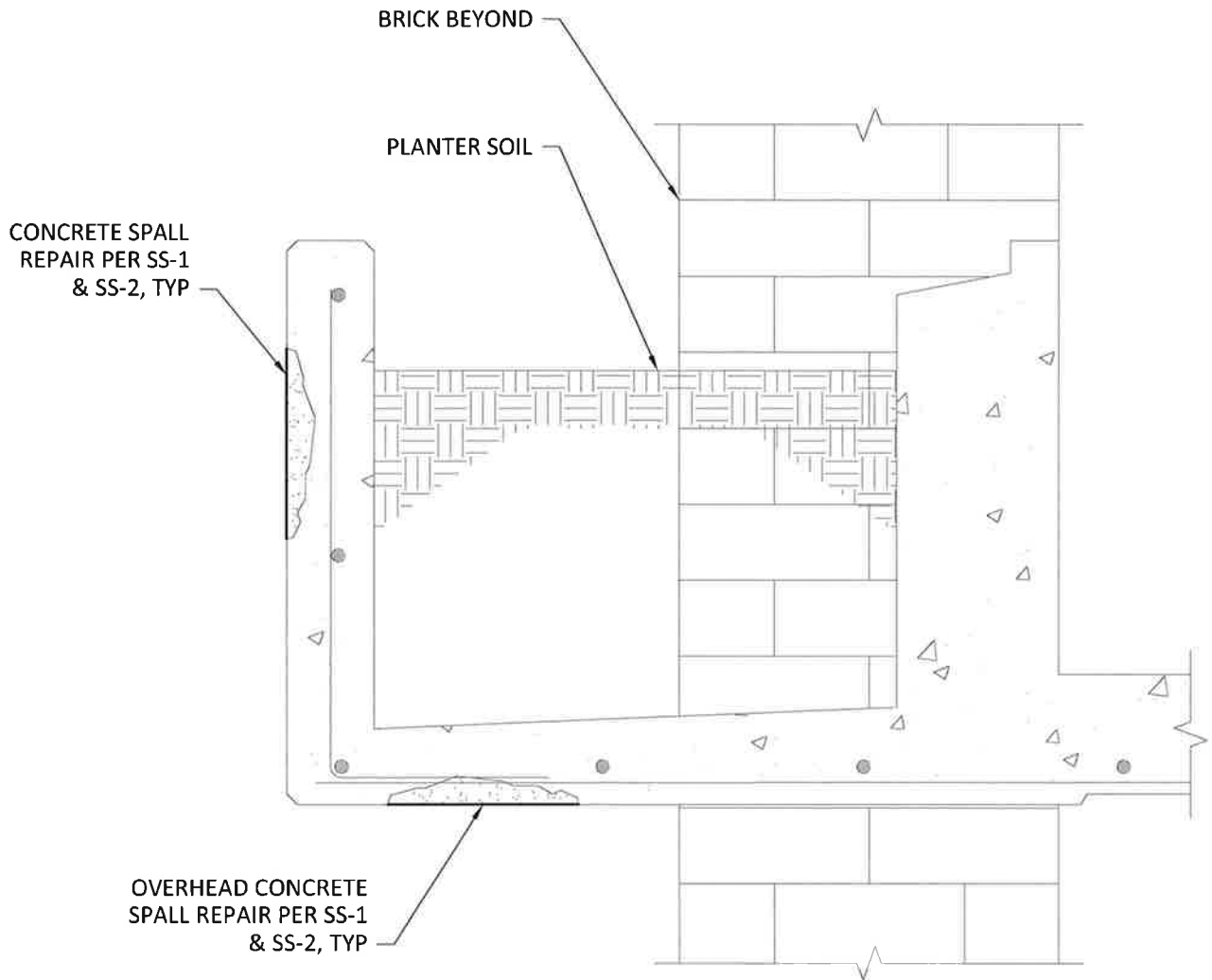
12/15/17

**ENGINEERING**  
 250 4TH AVE. S., SUITE 200  
 EDMONDS, WASHINGTON 98020  
 PHONE (425) 778-8500  
 FAX (425) 778-5536

<b>CENTER PARK CONCRETE REPAIR</b> 2121 26TH AVE S SEATTLE, WA 98144	
TITLE <b>DECK DETAIL</b>	

DATE	12/15/17
PROJECT NO.	14120.012
SCALE	1 1/2" = 1'-0"
DRAWN BY	JCP
CHECKED BY	DMT
APPROVED BY	DMT

SHEET  
**SS-3**




4

**PLANTER SECTION**

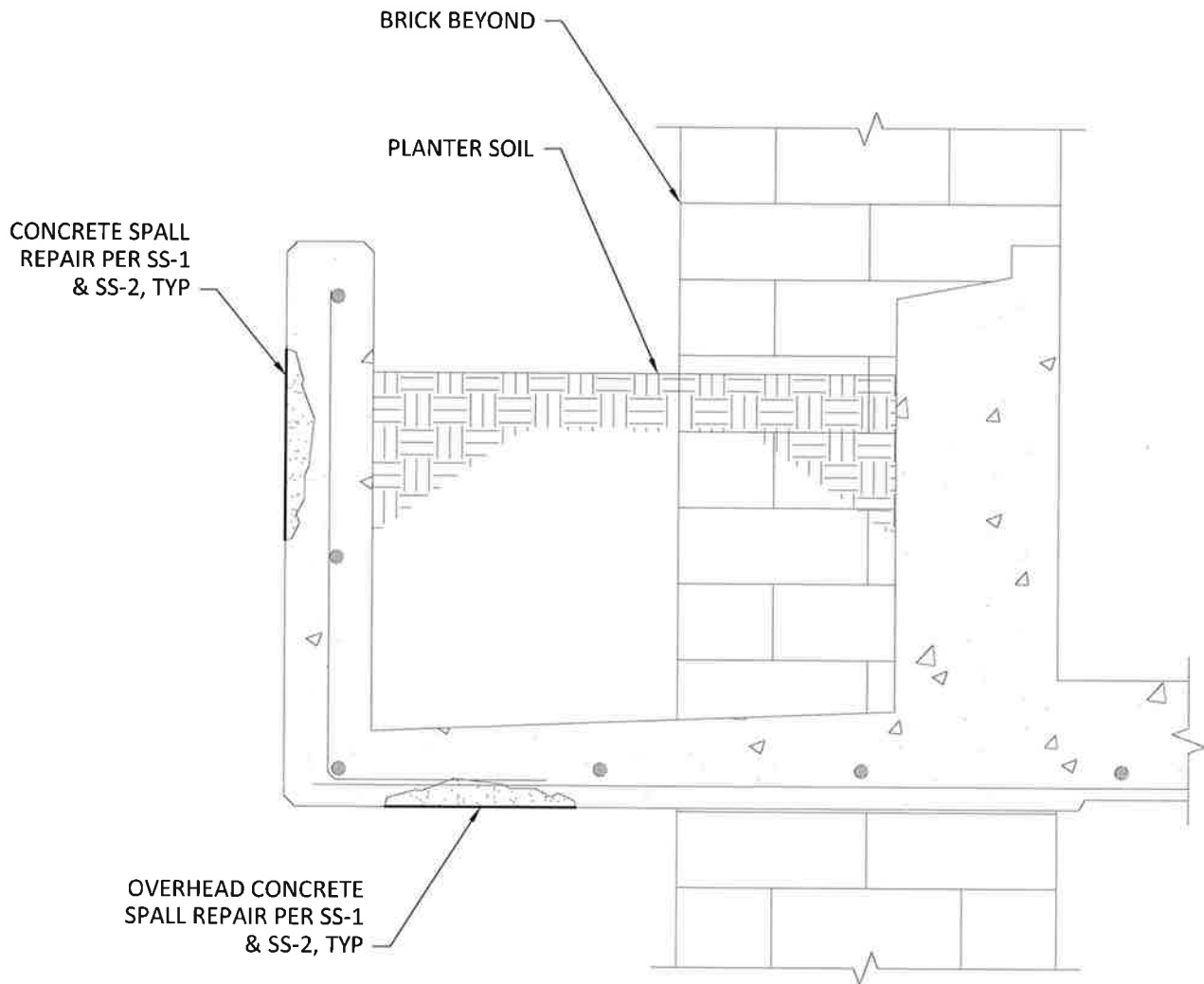
SCALE: 1" = 1'-0"



12/15/17

 250 4TH AVE. S., SUITE 200 EDMONDS, WASHINGTON 98020 PHONE (425) 778-8500 FAX (425) 778-5536	<b>CENTER PARK CONCRETE REPAIR</b> 2121 26TH AVE S SEATTLE, WA 98144  TITLE <b>PLANTER DETAIL</b>	DATE	12/15/17	SHEET  <b>SS-4</b>
		PROJECT NO.	14120.012	
		SCALE	1 1/2"=1'-0"	
		DRAWN BY	JCP	
		CHECKED BY	DMT	
APPROVED BY	DMT			





**4** **PLANTER SECTION**  
SCALE: 1" = 1'-0"



12/15/17

<p><b>C.G. ENGINEERING</b> 250 4TH AVE. S., SUITE 200 EDMONDS, WASHINGTON 98020 PHONE (425) 778-8500 FAX (425) 778-5536</p>	<p><b>CENTER PARK CONCRETE REPAIR</b> 2121 26TH AVE S SEATTLE, WA 98144</p>	<p>DATE 12/15/17 SHEET</p>	<p><b>SS-4</b></p>
	<p>TITLE <b>PLANTER DETAIL</b></p>	<p>PROJECT NO. 14120.012</p>	
	<p>SCALE 1 1/2" = 1'-0"</p>		
	<p>DRAWN BY JCP</p>		
	<p>CHECKED BY DMT</p>		
	<p>APPROVED BY DMT</p>		

**Product Data Sheet**

Edition 4.10.2015

SikaTop® 123 PLUS

**TESTED PER ICRI GUIDELINE FOR  
INORGANIC REPAIR MATERIAL DATA  
SHEET PROTOCOL GUIDELINE NO.  
320.3R**

# SikaTop® 123 PLUS

## Two-component, polymer-modified, cementitious, non-sag mortar plus Sika FerroGard® 901 penetrating corrosion inhibitor

<b>Description</b>	SikaTop® 123 PLUS is a two-component, polymer-modified, Portland cement-based, fast-setting, non-sag mortar. It is a high performance repair mortar for vertical and overhead surfaces and offers the additional benefit of Sika FerroGard® 901, a penetrating corrosion inhibitor included in its formulation.
<b>Where to Use</b>	<ul style="list-style-type: none"> <li>■ On grade, above and below grade on concrete and mortar.</li> <li>■ On vertical and overhead surfaces.</li> <li>■ As a structural repair material for parking structures, industrial plants, walkways, bridges, tunnels, dams and ramps.</li> <li>■ Approved for repairs over cathodic protection systems</li> </ul>
<b>Advantages</b>	<ul style="list-style-type: none"> <li>■ Extremely low shrinkage <b>proven by four industry standard test methods.</b></li> <li>■ High compressive and flexural strengths.</li> <li>■ Increased freeze/thaw durability and resistance to deicing salts.</li> <li>■ Compatible with coefficient of thermal expansion of concrete - Passes ASTM C 884.</li> <li>■ Increased density - improved carbon dioxide resistance (carbonation) without adversely affecting water vapor transmission (not a vapor barrier).</li> <li>■ Enhanced with Sika FerroGard® 901, a penetrating corrosion inhibitor - reduces corrosion even in the adjacent concrete.</li> <li>■ USDA certifiable for incidental food contact</li> <li>■ ANSI/NSF Standard 61 potable water approved compliant.</li> </ul>
<b>Coverage</b>	0,39 cu. ft./ unit.
<b>Packaging</b>	<b>Component 'A'</b> - 1-gal, plastic jug; 4/carton, <b>Component 'B'</b> - 44-lb, multi-wall bag.

Construction

**Typical Data (Material and curing conditions @ 73°F (23°C) and 50% R.H.)**

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

<b>Shelf Life</b>	One year in original, unopened packaging.		
<b>Storage Conditions</b>	Store dry at 40°-95°F. Condition material to 65°-75°F before using. Protect Component 'A' from freezing. If frozen, discard.		
<b>Color</b>	Concrete gray when mixed.		
<b>Mixing Ratio</b>	Plant-proportioned kit, mix entire unit.		
<b>Application Time</b>	Approximately 15 minutes.		
<b>Finishing Time</b>	20-60 minutes		

**Note:** All times start after adding Component 'B' to Component 'A' and are highly affected by temperature, relative humidity, substrate temperature, wind, sun and other job site conditions.

<b>Density (wet mix)</b>	<b>ASTM C 138</b>		132 lbs./ft³ (2.2 kg./l)
<b>Flexural Strength</b>	<b>ASTM C 293</b>	28 days	1,500 psi
<b>Split Tensile</b>	<b>ASTM C 496</b>	28 days	900 psi
<b>Bond Strength</b>	<b>ASTM C 882 (modified)</b>	28 days	2,000 psi
<b>Compressive Strength</b>	<b>ASTM C 109</b>		
		1 day	3,000 psi
		7 days	4,000 psi
		28 days	6,000 psi
<b>Shrinkage</b>	<b>ASTM C 157</b>		
	(mod. ICRI 320.3R)		
<b>Specimen Size 1x1x11-1/4"</b>		28 days	0.05%
<b>Specimen Size 3x3x11-1/4"</b>		28 days	0.038%
<b>Ring Test (days)</b>	<b>ASTM C 1581</b>	>70 days	
<b>Ring Test - Average Max Strain</b>	<b>ASTM C 1581</b>	-36 µstrain	
<b>Ring Test - Average Stress Strain</b>	<b>ASTM C 1581</b>	4.92 psi/day	
<b>Ring Test - Potential for Cracking</b>	<b>ASTM C 1581</b>	Low	
<b>Baenzinger Block</b>		90 days	No cracking
<b>Freeze/Thaw Durability (300 cycles)</b>	<b>ASTM C 666</b>		98%
<b>CI Permeability (coul)</b>	<b>ASTM C 1202</b>		<500 Coulombs.
<b>Direct Bond Strength</b>	<b>ASTM C 1583</b>	28 days	500 psi (substrate failure)
<b>Modulus of Elasticity</b>	<b>ASTM C 531</b>		2.94 x 10⁶ psi
<b>Initial Set Time (min)</b>	<b>ASTM C 266</b>		20-40
<b>Final Set Time (min)</b>	<b>ASTM C 266</b>		<75



**PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT [HTTP://USA.SIKA.COM/](http://USA.SIKA.COM/) OR BY CALLING SIKA'S TECHNICAL SERVICE DEPARTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.**

## How to Use

<b>Substrates</b>	Concrete, mortar, and masonry products.
<b>Surface Preparation</b>	Remove all deteriorated concrete, dirt, oil, grease and all bond inhibiting materials from surface. Be sure repair area is not less than 1/8 inch in depth. Preparation work should be done by high pressure water blast, scabber, or other appropriate mechanical means to obtain an exposed aggregate surface with a minimum surface profile of $\pm 1/16$ inch (CSP-5). Saturate surface with clean water. Substrate should be saturated surface dry (SSD) with no standing water during application.  <b>Reinforcing Steel:</b> Steel reinforcement should be thoroughly prepared by mechanical cleaning to remove all traces of rust. Where corrosion has occurred due to the presence of chlorides, the steel should be high-pressure washed with clean water after mechanical cleaning. For priming of reinforcing steel use Sika® Armatec® 110 EpoCem (consult Product Data Sheet).  <b>Priming Concrete Substrate:</b> Prime the prepared substrate with a brush or sprayed applied coat of Sika® Armatec® 110 EpoCem (consult Product Data Sheet). Alternately, a scrub coat of SikaTop® 123 PLUS can be applied prior to placement of the mortar. The repair mortar has to be applied into the wet scrub coat before it dries.
<b>Mixing</b>	Pour Component 'A' into mixing container. Add Component 'B' while mixing continuously. Mix mechanically with a low-speed drill (400 - 600 rpm) and mixing paddle or mortar mixer. Mix to a uniform consistency, maximum 3 minutes. Manual mixing can be tolerated only for less than a full unit. Thorough mixing and proper proportioning of the two components is necessary.
<b>Application</b>	SikaTop® 123 PLUS must be scrubbed into the substrate, filling all pores and voids. Force material against edge of repair, working toward center. After filling repair, consolidate, then screed. Material may be applied in multiple lifts. The thickness of each lift, not to be less than 1/8 inch minimum or more than 1.5 inches maximum. Where multiple lifts are required score top surface of each lift to produce a roughened surface for next lift. Allow preceding lift to reach initial set, 30 minutes minimum, before applying fresh material. Saturate surface of the lift with clean water. Scrub fresh mortar into preceding lift. Allow mortar or concrete to set to desired stiffness, then finish with wood or sponge float for a smooth surface.
<b>Tooling &amp; Finishing</b>	As per ACI recommendations for portland cement concrete, curing is required. Moist cure with wet burlap and polyethylene, a fine mist of water or a water based*, compatible curing compound (ASTM C 309 complaint). Curing compounds adversely affect the adhesion of following lifts of mortar, leveling mortar or protective coatings. Moist curing should commence immediately after finishing. If necessary protect newly applied material from direct sunlight, wind, rain and frost. *Pretesting of curing compound is recommended.
<b>Limitations</b>	<ul style="list-style-type: none"> <li>■ Application thickness: Minimum 1/8 inch (3 mm). Maximum in one lift - 1.5 in. (38 mm).</li> <li>■ Minimum ambient and surface temperatures 45°F (7°C) and rising at time of application.</li> <li>■ Do not use solvent-based curing compound.</li> <li>■ Size, shape and depth of repair must be carefully considered and consistent with practices recommended by ACI or ICRI. For additional information, contact Technical Service.</li> <li>■ For additional information on substrate preparation, refer to ICRI Guideline No. 310.2R re: Polymer Overlays and Concrete Repair.</li> <li>■ If aggressive means of substrate preparation is employed, substrate strength should be tested in accordance with ACI 503 Appendix A prior to the repair application.</li> <li>■ As with all cement based materials, avoid contact with aluminum to prevent adverse chemical reaction and possible product failure. Insulate potential areas of contact by coating aluminum bars, rails, posts etc. with an appropriate epoxy such as Sikadur® 32, Hi-Mod.</li> </ul>

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KEEP CONTAINER TIGHTLY CLOSED. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. FOR PROFESSIONAL USE ONLY.

For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet before using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at <http://usa.sika.com/> or by calling Sika's Technical Service Department at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. SALE OF SIKA PRODUCTS ARE SUBJECT SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT [HTTP://USA.SIKA.COM/](http://usa.sika.com/) OR BY CALLING 201-933-8800.

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## Section 03730 Concrete

### Part 1 - General

#### 1.01 Summary

This specification describes the patching of interior and/or exterior vertical or overhead surfaces with a polymer-modified, portland cement mortar.

#### 1.02 Quality Assurance

- A. Manufacturing qualifications: The manufacturer of the specified product shall be ISO 9001 certified and have in existence a recognized ongoing quality assurance program independently audited on a regular basis.
- B. Contractor qualifications: Contractor shall be qualified in the field of concrete repair and protection with a successful track record of 5 years or more. Contractor shall maintain qualified personnel who have received product training by a manufacturer's representative.
- C. Install materials in accordance with all safety and weather conditions required by manufacturer or as modified by applicable rules and regulations of local, state and federal authorities having jurisdiction. Consult Material Safety Data Sheets for complete handling recommendations.

#### 1.03 Delivery, Storage, and Handling

- A. All materials must be delivered in original, unopened containers with the manufacturer's name, labels, product identification, and batch numbers. Damaged material must be removed from the site immediately.
- B. Store all materials off the ground and protect from rain, freezing or excessive heat until ready for use.
- C. Condition the specified product as recommended by the manufacturer.

#### 1.04 Job Conditions

- A. Environmental Conditions: Do not apply material if it is raining or snowing or if such conditions appear to be imminent. Minimum application temperature 45°F (5°C) and rising.
- B. Protection: Precautions should be taken to avoid damage to any surface near the work zone due to mixing and handling of the specified material.

#### 1.05 Submittals

- A. Submit two copies of manufacturer's literature, to include: Product Data Sheets (PDS), and appropriate Safety Data Sheets (SDS).
- B. Submit copy of Certificate of Approved Contractor status by manufacturer.

#### 1.06 Warranty

Provide a written warranty from the manufacturer against defects of materials for a period of one (1) year, beginning with date of substantial completion of the project.

## Part 2 - Products

### 2.01 Manufacturer

SikaTop® 123 PLUS, as manufactured by Sika® Corporation, is considered to conform to the requirements of this specification.

### 2.02 Materials

Polymer-modified Portland cement mortar:

- A. Component A shall be a liquid polymer emulsion of an acrylic copolymer base and additives.
  - a. pH: 4.5-6.5
  - b. Film Forming Temperature: 73°F max.
  - c. Tear Strength: 950 psi min.
  - d. Elongation at Break: 500% min.
  - e. Particle Size: less than 0.1 micron
- B. Component A shall contain an organic, penetrating corrosion inhibitor which has been independently proven to reduce corrosion in concrete via ASTM G3 (half-cell potential tests). The corrosion inhibitor shall not be calcium nitrite, and shall have a minimum of 5 years of independent field testing to document performance on actual construction projects.
- C. Component B shall be a blend of selected portland cements, specially graded aggregates, admixtures for controlling setting time, water reducers for workability, and an organic accelerator.
- D. The materials shall be non-combustible, both before and after cure.
- E. The materials shall be supplied in a factory-proportioned unit.
- F. The polymer-modified, portland cement mortar must be placeable from 1/8" to 1½" in depth per lift for vertical applications and 1/8" to 1" in depth for overhead applications.

### 2.03 Performance Criteria

Typical Properties of the mixed polymer-modified, portland cement mortar:

1. Yield	Approximately 0.39 cu. ft. per 44 lb. bag
2. Color	Concrete gray
3. Density {wet mix} (ASTM C-185)	132 lbs/cu.ft
4. Mixing Ratio	1 gal of SikaTop® Component A per 44 lb. bag
5. Application Thickness	Min 1/8" (3 mm); Max 1.5 " (38 mm)
6. Application Temp	Min 50°F (10°C) ; Max 86°F (30°C)
7. Working Time	15 min.
8. Finishing Time	20 - 60 min
9. Compressive Strength (ASTM C-109)	1 day - 3,000 psi (21 MPa) 7 days - 4,000 psi (28 MPa) 28 days - 6,000 psi (41 MPa)
10. Flexural Strength @ 28 days (ASTM C-293 )	1,500 psi (10 MPa)
11. Bond Strength @ 28 days (ASTM C-882 Modified)	2,000 psi (14 MPa)
12. Permeability (ASTM C-1202)	< 500 Coulombs

**Note: Tests above were performed with the material and curing conditions @ 71°F – 75°F and 45 - 55% relative humidity.**

## Part 3 – Execution

### 3.01 Surface Preparation

- A. Areas to be repaired must be clean, sound, and free of contaminants. All loose and deteriorated concrete shall be removed by mechanical means. Mechanically prepare concrete substrate to obtain a surface profile of  $\pm 1/16$ " (CSP 5 or greater as per ICRI Guidelines) with a new exposed aggregate surface. Area to be patched shall not be less than  $1/8$ " in depth.
- B. Where reinforcing steel with active corrosion is encountered, sandblast the steel to a white metal finish to remove all contaminants and rust. Where corrosion has occurred due to the presence of chlorides, the steel shall be high pressure washed after mechanical cleaning. Prime steel with 2 coats of Sika® Armatec® 110 EpoCem as per the Product Data Sheet. (See Spec Component SC-201-0699)

### 3.02 Mixing and Application

- A. Mechanically mix in an appropriate sized mortar mixer or with a Sika mud paddle and low speed (400-600 rpm) drill. Pour approximately  $4/5$  gal Component A into the mixing container. Add Component B while continuing to mix. Mix to a uniform consistency for a maximum of three minutes. Add remaining Component A to mix for desired consistency. Should smaller quantities be needed, be sure the components are measured in the correct ratio and that the Component B is uniformly blended before mixing the components together. Mix only that amount of material that can be placed in 10 - 15 minutes. Do not retemper material.
- B. **Placement Procedure:** At the time of application, the substrate shall be saturated surface dry with no standing water. Mortar must be scrubbed into substrate filling all pores and voids. While the scrub coat is still plastic, force material against edge of repair, working toward center. If repair area is too large to fill while scrub coat is still wet use Sika® Armatec® 110 EpoCem in lieu of scrub coat. (See spec component SC-200-0699) After filling, consolidate then screed. Allow mortar to set to desired stiffness then finish with trowel for smooth surface. Wood float or sponge float for a rough surface. Areas where the depth of the repair area to sound concrete is greater than  $1-1/2$ ", the repair shall be made in lifts of  $1\frac{1}{2}$ " maximum thickness. The top surface of each lift shall be scored to produce a rough surface for the next lift. The preceding lift shall be allowed to reach final set before applying fresh material. The fresh mortar must be scrubbed into the preceding lift.
- C. As per ACI recommendations for portland cement concrete, curing is required. Moist cure with wet burlap and polyethylene, a fine mist of water or a water-based\* compatible curing compound. Moist curing should commence immediately after finishing and continue for 48 hours. Protect newly applied material from rain, sun, and wind until compressive strength is 70% of the 28 day compressive strength. To prevent from freezing cover with insulating material. Setting time is dependent on temperature and humidity.  
\*Pretesting of curing compound is recommended.
- D. Adhere to all procedures, limitations and cautions for the polymer-modified portland cement mortar in the manufacturers current printed technical data sheet and literature.

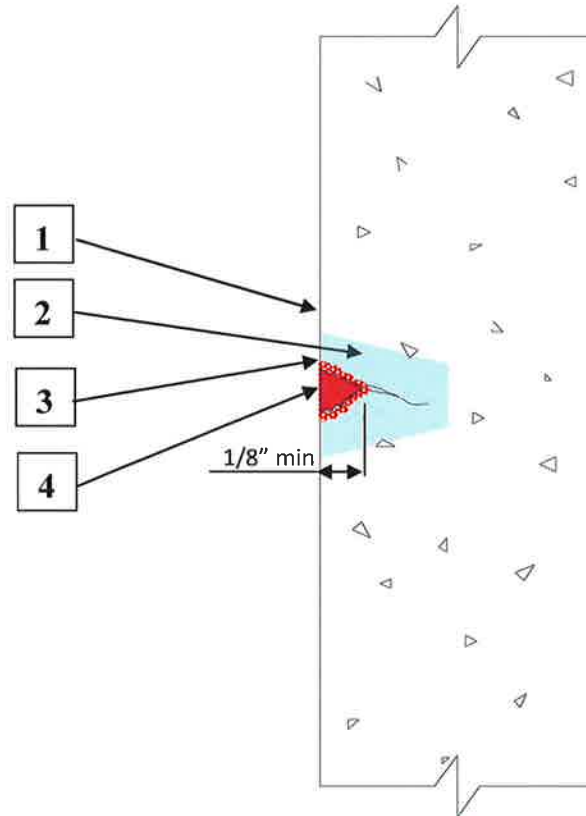
### 3.02 Cleaning

- A. The uncured polymer-modified portland cement mortar can be cleaned from tools with water. The cured polymer modified portland cement mortar can only be removed mechanically.
- B. Leave finished work and work area in a neat, clean condition without evidence of spillovers onto adjacent areas.

# SC-027

## SikaTop® 123 Plus Crack Filler (Vertical / Overhead)

1. Substrate shall be clean, sound and lattinance-free prior to repairing.
2. Pre-soak the substrate to provide saturated surface dry (SSD) condition prior to applying repair material. (Exception: not applicable if Sikadur 32 Hi-Mod or Sikadur Patch-Fix is used as an epoxy agent)
3. Apply scrub coat of the repair material to the prepared substrate. (Exception: not applicable if Sikadur® 32 Hi-Mod or Sikadur Patch-Fix is used as an epoxy agent)
4. While scrub coat is wet place SikaTop® 123 PLUS, filling the entire cavity. Strike off and finish as required. Wet cure or use Sikagard Curing Compound and protect as per the PDS.



**Concrete Restoration Systems by Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071**

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# Sika® Armatec® 110 EpoCem

## Bonding Agent and Reinforcement Protection

Construction

<b>Description</b>	Sika® Armatec® 110 EpoCem is a 3-component, solvent-free, moisture-tolerant, epoxy-modified, cementitious product specifically formulated as a bonding agent and anti-corrosion coating.
<b>Where to Use</b>	<ul style="list-style-type: none"><li>■ As an anti-corrosion coating for reinforcing steel in concrete restoration.</li><li>■ As added protection to reinforcing steel in areas of thin concrete cover.</li><li>■ As a bonding agent for repairs to concrete and steel.</li><li>■ As a bonding agent for placing fresh, plastic concrete to existing hardened concrete.</li></ul>
<b>Advantages</b>	<ul style="list-style-type: none"><li>■ Excellent adhesion to concrete and steel.</li><li>■ Acts as an effective barrier against penetration of water and chlorides.</li><li>■ Long open time - up to 16 hours.</li><li>■ Not a vapor barrier.</li><li>■ Can be used exterior on-grade.</li><li>■ Contains corrosion inhibitors.</li><li>■ Excellent bonding bridge for cement or epoxy based repair mortars.</li><li>■ High strength, unaffected by moisture when cured.</li><li>■ Spray, brush or roller application.</li><li>■ Non-flammable, solvent free.</li></ul>
<b>Coverage</b>	<b>Bonding agent:</b> minimum (theoretical) on smooth, even substrate 80 ft. <sup>2</sup> /gal. (=20 mils thickness). Coverage will vary depending on substrate profile and porosity. <b>Reinforcement Protection:</b> 40 ft. <sup>2</sup> /gal. (=20 mils thickness) (2 coat application).
<b>Packaging</b>	3.5 gal. unit. (47.6 fl. oz. Comp. A + 122.1 fl. oz. Comp. B + 46.82 lb. Comp. C) Comp. A + B in carton, Comp. C in multi-wall bag. 1.65 gal. unit. (22.7 fl. oz. A + 57.6 fl. oz. B + 4 bags @ 5.5 lb.) Factory-proportioned units in a pail.

### Typical Data (Material and curing conditions @ 73°F and 50% R.H.)

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

<b>Shelf Life</b>	1 year in original, unopened packaging.		
<b>Storage</b>	Store dry at 40°-95°F (4°-35°C). Condition material to 65°-75°F (18°-24°C) before using. If components A and B are frozen, discard. Protect Component C from humidity.		
<b>Color</b>	Concrete gray		
<b>Density (Mixed)</b>	125 lb./ft. <sup>3</sup> (2.0 kg.)		
<b>Pot Life</b>	Approximately 90 minutes		
<b>Compressive Strength (ASTM C-109)</b>	3 days	4500 psi	(31.0 MPa)
	7 days	6500 psi	(44.8 MPa)
	28 days	8500 psi	(58.6 MPa)
<b>Flexural Strength (ASTM C-348)</b>	28 days	1250 psi	(8.6 MPa)
<b>Splitting Tensile Strength (ASTM C-496)</b>	28 days	600 psi	(4.1 MPa)
<b>Important Data for Sika Armatec 110 as a Corrosion Protective Coating</b>			
<b>Water</b>	Water Permeability at 10 bar (145 psi)	Control	8.92 x 10 <sup>-15</sup> ft./sec.
		Water vapor diffusion coefficient μ H <sub>2</sub> O	7.32 x 10 <sup>-10</sup> ft./sec.
			110
<b>Carbon Dioxide</b>	Carbon dioxide diffusion coefficient μ CO <sub>2</sub>		14000

### TEST DATA: Time-to-Corrosion Study

- Sika® Armatec® 110 more than tripled the time to corrosion
- Reduced corrosion rate by over 40%



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## Important Data for Sika® Armatec® 110 as a Bonding Agent

<b>Bond Strength (ASTM C882)</b>	<b>14 days moist cure, plastic concrete to hardened concrete:</b>	
Wet on Wet	2800 psi	(19.3 MPa)
24 hr. Open Time	2600 psi	(17.9 MPa)
<b>Bond of Steel Reinforcement to Concrete (Pullout Test):</b>		
Sika® Armatec® 110 Coated	625 psi	(4.3 MPa)
Epoxy Coated	508 psi	(3.5 MPa)
Plain Reinforcement	573 psi	(3.95 MPa)

### How to Use

**Surface Preparation** **Cementitious substrates:** Should be cleaned and prepared to achieve a laitance and contaminant-free surface prepared in accordance with the requirements specified by the overlay or repair material by blast cleaning or equivalent mechanical means. Substrate must be saturated surface dry (SSD) with no standing water.

**Steel:** Should be fully exposed and have all corrosion removed by blast cleaning or other means of mechanical abrasion

**Mixing** Shake contents of both Component 'A' and Component 'B'. Empty entire contents of both Component 'A' and Component 'B' into a clean, dry mixing pail. Mix thoroughly for 30 seconds with a Sika paddle on a low speed (400-600 rpm) drill. Slowly add the entire contents of Component 'C' while continuing to mix for 3 minutes until blend is uniform and free of lumps. Mix only that quantity that can be applied within its pot life.

**Application** **As a bonding agent** - Apply by stiff-bristle brush or broom. Spray apply with Goldblatt Pattern Pistol or equal equipment. For best results, work the bonding slurry well into the substrate to ensure complete coverage of all surface irregularities. Apply the freshly mixed patching mortar or concrete wet on wet, or up to the maximum recommended open time, onto the bonding slurry.

Maximum recommended open time between application of Armatec® 110 and patching mortar or concrete:

80°-95°F (26°-35°C)	6 hours
65°-79°F (18°-26°C)	12 hours
50°-64°F (10°-17°C)	16 hours
40°-49°F (4°-9°C)	wet-on-wet

**For corrosion protection only** - Apply by stiff-bristle brush or spray at 80 ft.<sup>2</sup>/gal. (20 mils). Take special care to properly coat the underside of the totally exposed steel. Allow coating to dry 2-3 hours at 73°F, then apply a second coat at the same coverage. Allow to dry again before the repair mortar or concrete is applied. Pour or place repair within 7 days.

- Limitations**
- Substrate and ambient temperature: Minimum 40°F (5°C).
  - Maximum 95°F (35°C).
  - Minimum thickness: As a bonding agent 20 mils.
  - For reinforcement protection 40 mils.
  - (2 coats, 20 mils each).
  - Not recommended for use with expansive grouts.
  - Use of semi-dry mortars onto Sika® Armatec® 110 EpoCem must be applied "wet on wet".
  - When used in overhead applications with hand placed patching mortars, use "wet on wet" for maximum mortar built thickness.
  - Substrate profile as specified by the overlay or repair material is still required.
  - As with all cement based materials, avoid contact with aluminum to prevent adverse chemical reaction and possible product failure. Insulate potential areas of contact by coating aluminum bars, rails, posts etc. with an appropriate epoxy such as Sikadur® Hi-Mod 32.

**PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT [HTTP://USA.SIKA.COM/](http://usa.sika.com/) OR BY CALLING SIKA'S TECHNICAL SERVICE DEPARTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.**

KEEP CONTAINER TIGHTLY CLOSED. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. FOR PROFESSIONAL USE ONLY.

For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet before using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at <http://usa.sika.com/> or by calling Sika's Technical Service Department at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. SALE OF SIKA PRODUCTS ARE SUBJECT SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT [HTTP://USA.SIKA.COM/](http://USA.SIKA.COM/) OR BY CALLING 201-933-8800.

Visit our website at [usa.sika.com](http://usa.sika.com)

1-800-933-SIKA NATIONWIDE

**Regional Information and Sales Centers.** For the location of your nearest Sika sales office, contact your regional center.

**Sika Corporation**  
201 Polito Avenue  
Lyndhurst, NJ 07071  
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Fax: 201-933-6225

**Sika Canada Inc.**  
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Pointe Claire  
Quebec H9R 4A9  
Phone: 514-697-2610  
Fax: 514-694-2792

**Sika Mexicana S.A. de C.V.**  
Carretera Libre Celaya Km. 8.5  
Fracc. Industrial Balvanera  
Corregidora, Queretaro  
C.P. 76920  
Phone: 52 442 2385800  
Fax: 52 442 2250537



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Spec Component: SC-200-  
03/10  
Sika Armatec 110 EpoCem

**DIVISION 3 - CONCRETE**  
**Section 03300 - Cast-in-Place Concrete**  
**Bonding Agents for Concrete**

**Part 1 - General**

**1.01 Summary**

- A. This specification describes the use of a bonding bridge between new portland-cement mortar or concrete and hardened portland-cement mortar or concrete.

**1.02 Quality Assurance**

- A. Manufacturing qualifications: The manufacturer of the specified product shall be ISO 9001 certified and have in existence a recognized ongoing quality assurance program independently audited on a regular basis.
- B. Contractor qualifications: Contractor shall be qualified in the field of concrete repair and protection with a successful track record of 5 years or more. Contractor shall maintain qualified personnel who have received product training by a manufacturer's representative.
- C. Install materials in accordance with all safety and weather conditions required by manufacturer, or as modified by applicable rules and regulations of local, state and federal authorities having jurisdiction. Consult Material Safety Data Sheets for complete handling recommendations.

**1.03 Delivery, Storage, and Handling**

- A. All materials must be delivered in original, unopened containers with the manufacturer's name, labels, product identification, and batch numbers. Damaged material must be removed from the site immediately.
- B. Store all materials off the ground and protect from rain, freezing or excessive heat until ready for use.
- C. Condition the specified product as recommended by the manufacturer.

**1.04 Job Conditions**

- A. Environmental Conditions: Do not apply material if it is raining or snowing or if such conditions appear to be imminent. Minimum application temperature 40°F (5°C) and rising.
- B. Protection: Precautions should be taken to avoid damage to any surface near the work zone due to mixing and handling of the specified coating.

**1.05 Submittals**

- A. Submit two copies of manufacturer's literature, to include: Product Data Sheets, and appropriate Material Safety Data Sheets (MSDS).

**1.06 Warranty**

- A. Provide a written warranty from the manufacturer against defects of materials for a period of one (1) year, beginning with date of substantial completion of the project.

## Part 2 - Products

### 2.01 Manufacturers

- A. **Sika Armathec 110 EpoCem**, as manufactured by Sika Corporation, is considered to conform to the requirements of this specification.

### 2.02 Materials

- A. Epoxy resin/portland cement adhesive shall be **Sika Armathec 110 EpoCem**
1. Component "A" shall be an epoxy resin/water emulsion containing suitable viscosity control agents. It shall not contain butyl glycidyl ether.
  2. Component "B" shall be primarily a water solution of a polyamine.
  3. Component "C" shall be a blend of selected portland cements and sands.
  4. The material shall not contain asbestos.

### 2.03 Performance Criteria

- A. Properties of the mixed epoxy resin/portland cement adhesive.
1. Pot Life: 90 minutes @ 73° F
  2. Contact Time: 95°F (35°C) 6 hours  
80-95F (26-35C) 6 Hours  
65-79F (18-26C) 12 Hours  
50-64F (10-17C) 16 Hours  
40-49F (4-9C) wet on wet
  3. Color: dark gray
- B. Properties of the cured epoxy resin/portland cement adhesive.
1. Compressive Strength (ASTM C-109)
    - a. 3 day: 4500 psi (31.0 MPa)
    - b. 7 day: 6500 psi (44.8 MPa)
    - c. 28 day: 8500 psi (58.6 MPa)
  2. Splitting Tensile Strength (ASTM C-496)
    - a. 28 days: 600 psi (4.1 MPa)
  3. Flexural Strength (ASTM C-348)
    - a. 1250 psi (8.6 MPa)
  4. Bond Strength ASTM C-882 at 14 days
    - a. Wet on Wet, 0-hr. open time: 2800 psi (19.3 MPa)
    - b. 24-hr. open time: 2600 psi (17.9 MPa)
  5. Bond of Steel Reinforcement to Concrete (Pullout Test)
    - a. Sika Armathec 110 coated 625-psi (4.3 MPa)
    - b. Epoxy coated 508 psi (3.5 MPa)
    - c. Plain Reinforcement 573 psi (3.95 MPa)
  6. The epoxy resin/portland cement adhesive shall not produce a vapor barrier.
  7. Material must be proven to prevent corrosion of reinforcing steel when tested under the procedures as set forth by the Federal Highway Administration Program Report No. FHWA/RD86/193. Proof shall be in the form of an independent testing laboratory corrosion report showing prevention of corrosion of the reinforcing steel.

Note: Tests above were performed with material and curing conditions at 73°F and 45-55% relative humidity.

## **Part 3 - Execution**

### **3.01 Mixing and Application**

- A. Mixing the epoxy resin: Shake contents of Components "A" and Component "B". Completely empty both components into a clean, dry mixing pail. Mix thoroughly for 30 seconds using a jiffy paddle with a low-speed (400-600 rpm) drill. Slowly add the entire contents of Component "C" while continuing to mix for 3 minutes until uniform with no lumps. Mix only that quantity that can be applied within its pot life.
- B. Placement procedure:
  - 1. Apply to prepared surface with a stiff-bristle brush, broom or "hopper type" spray equipment.
    - a. For hand-applied mortars - Place fresh, plastic concrete/mortar while the bonding bridge adhesive is "wet" or within open times indicated in section 2.03.A.2.
    - b. For machine-applied mortars - Apply while the bonding bridge adhesive is "wet" or within the open times indicated in section 2.03.A.2.
- C. Adhere to all limitations and cautions for the epoxy resin/portland cement adhesive in the manufacturers current printed literature.

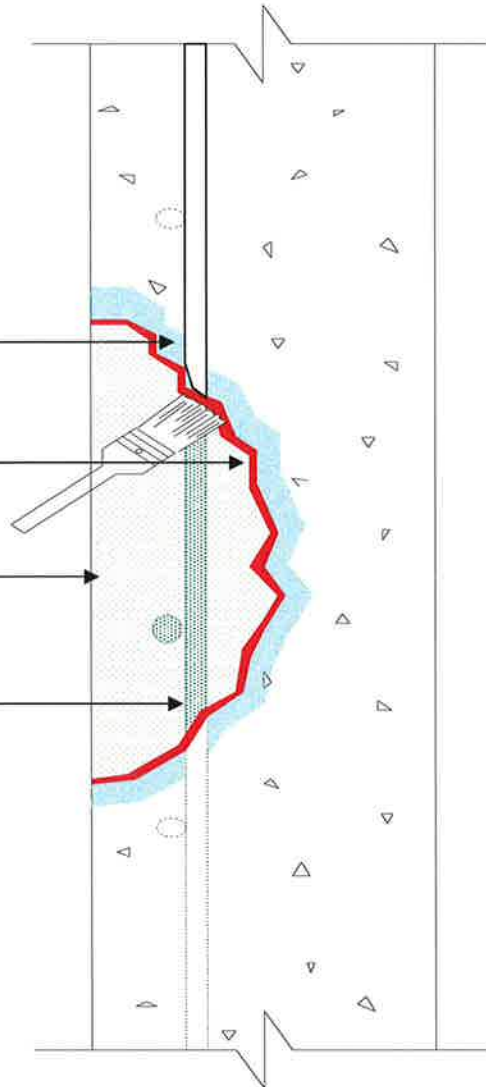
### **3.02 Cleaning**

- A. The uncured epoxy resin/portland cement adhesive can be cleaned from tools with water. The cured epoxy resin/portland cement adhesive can only be removed mechanically.
- B. Leave finished work and work area in a neat, clean condition without evidence of spillovers onto adjacent areas.

**SC-200**

# Sika® Armatec 110 EpoCem Bonding Bridge

1. Pre-wet surface to saturated surface dry (SSD).
2. Apply by stiff bristle brush or spray apply with "hopper type" or equal equipment.
3. Place repair material while Sika Armatec 110 EpoCem is still wet or within indicated open times.
4. Indicates Sika Armatec 110 EpoCem applied to reinforcing steel per Spec Component SC-201



The preceding specifications are provided by Sika Corporation as a guide for informational purposes only and are not intended to replace sound engineering practice and judgment and should not be relied upon for that purpose. **SIKA CORPORATION MAKES NO WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS OR THE CONTENTS OF THESE GUIDE SPECIFICATIONS.** Sika Corporation assumes no liability with respect to the provision or use of these guide specifications, nor shall any legal relationship be created by, or arise from, the provision of such specifications **SIKA SHALL NOT BE RESPONSIBLE UNDER ANY LEGAL THEORY TO ANY THIRD PARTY FOR ANY DIRECT OR CONSEQUENTIAL DAMAGES OF ANY KIND ARISING FROM THE USE OF THESE GUIDE SPECIFICATIONS.** The specifier, architect, engineer or design professional or contractor for a particular project bears the sole responsibility for the preparation and approval of the specifications and determining their suitability for a particular project or application.

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Lead-Based Paint Disclosure and/or Lead-Based Paint Hazard

Date: February 13, 2008

010 Center Park  
2121 26<sup>th</sup> Avenue S  
Seattle, WA 98144

Lead-Based Paint testing and inspection were completed on all interior and exterior buildings, which included units and common areas. It was determined that Lead-Based Paint exists in the following areas:

**EXTERIOR:**

- Siding
- Trims
- Doors and Frames
- Windows and Frames
- Porches and Decks
- Other Porch Handrails (Metal)
- All painted surfaces tested below EPA/HUD's allowable limits for lead in paint

**INTERIOR:**

- Ceilings
- Walls
- Trims
- Doors and Frames
- Windows and Frames
- Floors
- Cabinetry
- Other Basement floor
- All painted surfaces tested below EPA/HUD's allowable limits for lead in paint

*To review the complete Lead-Based Paint Inspection Report for this property, or would like a copy of any Lead-Based Paint documentation regarding this property please contact your property manager.*

**Certification of Accuracy**

The following parties have reviewed the information above and certify, to the best of their knowledge, that the information they have provided is true and accurate.

Resident has received the pamphlet, "Protect Your Family from Lead in Your Home".

\_\_\_\_\_  
Resident Signature

Date: \_\_\_\_\_

\_\_\_\_\_  
Lessee

Date: \_\_\_\_\_





**COPY**

## **Lead-Based Paint Inspection Report**

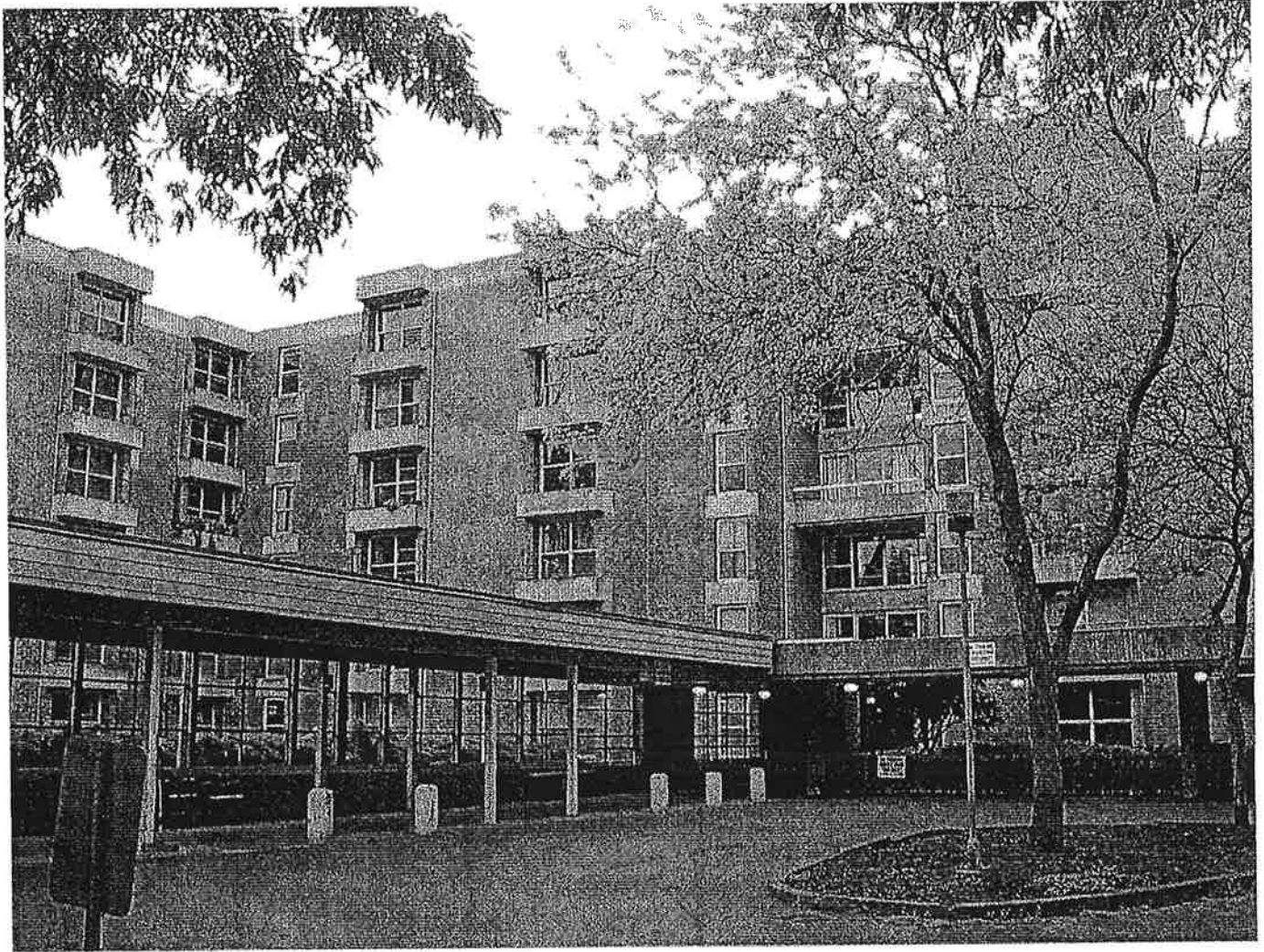
**"Center Park Apartments"**  
2121 26th Ave. S.  
Seattle, WA 98144

Date Prepared  
**May 25<sup>th</sup>, 2007**

Prepared for:

**Seattle Housing Authority**  
**Ms. Lorrie Harris**  
7500 Detroit Ave. SW  
Seattle, WA 98126

Prepared By: Antonio Herrera  
Washington Risk Assessor License #: 0172  
Expiration Date: September 8, 2008  
Dates Inspected: May 16th and 17th, 2007  
NVL Project #: 2007-382



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Attachment HUD Flow chart reference

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Risk Assessors Certifications & Lab. Qualifications	C

## 1.0 SUMMARY

A lead-based paint inspection was conducted at Center Park Apartments located at 2121 26th Ave. S., Seattle, Washington. At the request of Ms. Lorrie Harris of Seattle Housing Authority, Mr. Antonio Herrera, a Washington CTED- certified Lead Risk Assessor and representative of NVL Laboratories, Inc conducted this lead-based paint inspection on May 16th and 17th, 2007.

Painted surfaces were evaluated with a Niton XLP 300A spectrum analyzer, serial number 31566NR8116. Exterior and interior living areas were evaluated for lead hazards. The instrument was auto-calibrated just prior to testing. Immediately after a NIST reference sample was tested in triplicate. These values were averaged and found to be within the accepted limits (NIST SRM used for calibration was 1.04 +/- 0.06). Calibration check was also performed at the end of the testing for this dwelling.

All building components in each unit facing the front door are labeled as A and increases clockwise or anti clockwise depending on the floor plan. The components in the hallways for each floor which face 26<sup>th</sup> Ave. S. are labeled as A and increases clockwise. Room equivalent (an identifiable part of a residence such as a room, house exterior, staircase, hallway, or a painted exterior area) is numbered starting at the living room and increases clockwise or anti-clockwise (depending on the floor plan) as indicated in Appendix B (Floor Plan). Components are numbered from left to right when facing that particular side. Main entrance into laundry room is labeled as Side A and increases clockwise.

For exterior testing, 26<sup>th</sup> Ave. S. is considered to be Side A, and increased clockwise.

Twenty six (26) out of one hundred thirty six (136) units, exterior painted components, and common areas (laundry rooms) were tested for lead-based paint as per Table 7-3 of HUD Guidelines.

## SITE DESCRIPTION

- This is a 136 unit apartment building. The year of construction for this structure is 1969.
- The primary external component is brick with a concrete foundation.
- Gutters and downspouts are metal.
- Windows are vinyl framed windows with brick framing.
- Door systems (Doors, door casings and door jambs), closet door systems (closet doors, closet door casings and closet door jambs), window stools, and baseboards are wood without paint.
- The floor plan is different for each type of unit (studio, one bedroom, and two bedroom units). Each unit includes a kitchen/dinette, and one bathroom.
- The interior walls and ceilings are a mix of drywall and concrete blocks throughout.
- The kitchen has wooden cabinets split in two halves with clear stain/varnish.
- The floors are vinyl floor tile in the living room, bedroom, kitchen and halls, and sheet vinyl in the bathroom.
- The paint on the interior is mostly in "Fair" condition.

## 2.0 FINDINGS

### Painted Surfaces:

The lead-based paint inspection of Center Park Apartments lasted two days. A total of five hundred seventy five (575) shots of XRF (including calibration readings) were taken at different locations (Interior, Exterior and Common Areas) to identify lead-based paint (at or above 1.0 mg / cm<sup>2</sup>) as per WAC 365-230. Complete detail of components, locations, and results of inspection on May 16th and 17th, 2007 is attached in Appendix A (Instrument (XRF) & Calibration Data).

Out of five hundred sixty one (561) testing combinations tested within the subject structures, **TEN (10)** of the components tested positive for lead-based paint (at or above EPA/CTED threshold of 1.0 mg/cm<sup>2</sup>).

As per attached excerpt from EPA/HUD guideline, for lead-based paint inspection of multi family housing, if greater than 15% of positive XRF readings are present in the development, then the lead-based paint is considered to be present development wide. In the case of Center Park Apartments, 1.8% of the testing combinations tested positive for lead-based paint. As per attached flow chart excerpt from EPA/HUD guideline, lead-based paint is not present development wide in Center Park Apartments.

Following are the results of the components which tested Positive for lead-based paint (at or above EPA/CTED threshold of 1.0 mg/cm<sup>2</sup>) on May 16<sup>th</sup> and 17<sup>th</sup>, 2007.

### Sample Results

#	Unit #	Room	Side	Component	Substrate	Condition	Color	Pb mg/cm <sup>2</sup>
11	703	2	C	WALL	DRYWALL	INTACT	YELLOW	1.9
71	609	2	A	WALL	DRYWALL	INTACT	WHITE	1.7
72	609	2	B	WALL	DRYWALL	INTACT	WHITE	4.2
73	609	2	C	WALL	DRYWALL	INTACT	WHITE	1.7
76	609	3	B	WALL	DRYWALL	INTACT	WHITE	1.6
77	609	3	C	WALL	DRYWALL	INTACT	WHITE	1.6
78	609	3	D	WALL	DRYWALL	INTACT	WHITE	1.8
160	507	1	D	WALL	CONCRETE	INTACT	WHITE	2.0
162	507	2	B	WALL	CONCRETE	INTACT	WHITE	2.0
164	507	2	D	WALL	CONCRETE	INTACT	WHITE	2.6

### 3.0 LABORATORY INFORMATION

#### Laboratory Analysis

Samples showing inconclusive results by XRF are collected and analyzed in our laboratory using Flame Atomic Absorption or Graphite Furnace depending upon the detection limit requirement for a given sample. No paint chip sample for Flame AA analysis was collected from the site since none of the XRF results were reported as inconclusive.

#### Laboratory Accreditation

**AIHA-ELLAP:** American Industrial Hygiene Association (AIHA) under the Environmental Lead Laboratory Accreditation Program (ELLAP). The ELLAP accreditation is required for a lab performing paint, soil or dust analysis for the presence of lead (Pb) to be in compliance under EPA National Lead Laboratory Accreditation program (NLLAC)

**AIHA-IHLAP:** American Industrial Hygiene Association (AIHA) under the Industrial Hygiene Laboratory Accreditation Program (IHLAP). The IHLAP program is designed specifically for laboratories involved in analyzing samples to evaluate workplace exposure. (Cert. No. 101861).

**DOE:** Accredited by Department of Ecology for RCRA metals analysis.

#### 4.0 CONCLUSION AND RECOMMENDATION

- Lead-based paint was discovered during the lead-based paint inspection of "Center Park Apartments" located at 2121 26th Ave. S., Seattle, WA 98144 on May 16th and 17th, 2007.
- Since 1.8% of testing combinations have tested positive for lead-based paint, as per attached flow chart from EPA/HUD guideline, lead-based paint should not be considered to be present development wide in Center Park Apartments.
- Extreme caution should be exercised while doing any repair/repainting on any lead-based paint component. Any kind of paint stabilization/remediation on these components should be conducted by lead certified worker following lead safe work practices.
- A copy of this report must be provided to new tenants and purchasers of this property under Federal Law (24 CFR part 35 and 40 CFR part 745). Landlords and sellers are also required to distribute an educational pamphlet to ensure that parents have information they need to protect their children from lead-based paint hazards.
- Those surfaces that do not contain lead-based paint at or above federal standards (1.0 mg/cm<sup>2</sup> or 0.5 percent by weight) may still pose a hazard if disturbed.
- Occupational Safety and Health Administration (OSHA) has regulations covering worker safety and health that may apply when any painted surface (whether lead-based paint or not) is disturbed.



## 5.0 LIMITATIONS

This Lead-Based Paint Inspection Report has been prepared for the exclusive use of the Client named herein at the specified Site Address. Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. NVL Laboratories, Inc. (NVL) accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report. This report is based upon and conducted in accordance with HUD Guidelines and CTED rules in effect at the time of this inspection. NVL has no duty to update this report based on subsequent regulatory changes.

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This document is the sole property of NVL Laboratories and the property owner, or his agent, authorizing this Inspection.

Prepared by:



Antonio Herrera  
Project Manager  
WA/CTED Lead Risk Assessor  
License # 0172

Reviewed by:

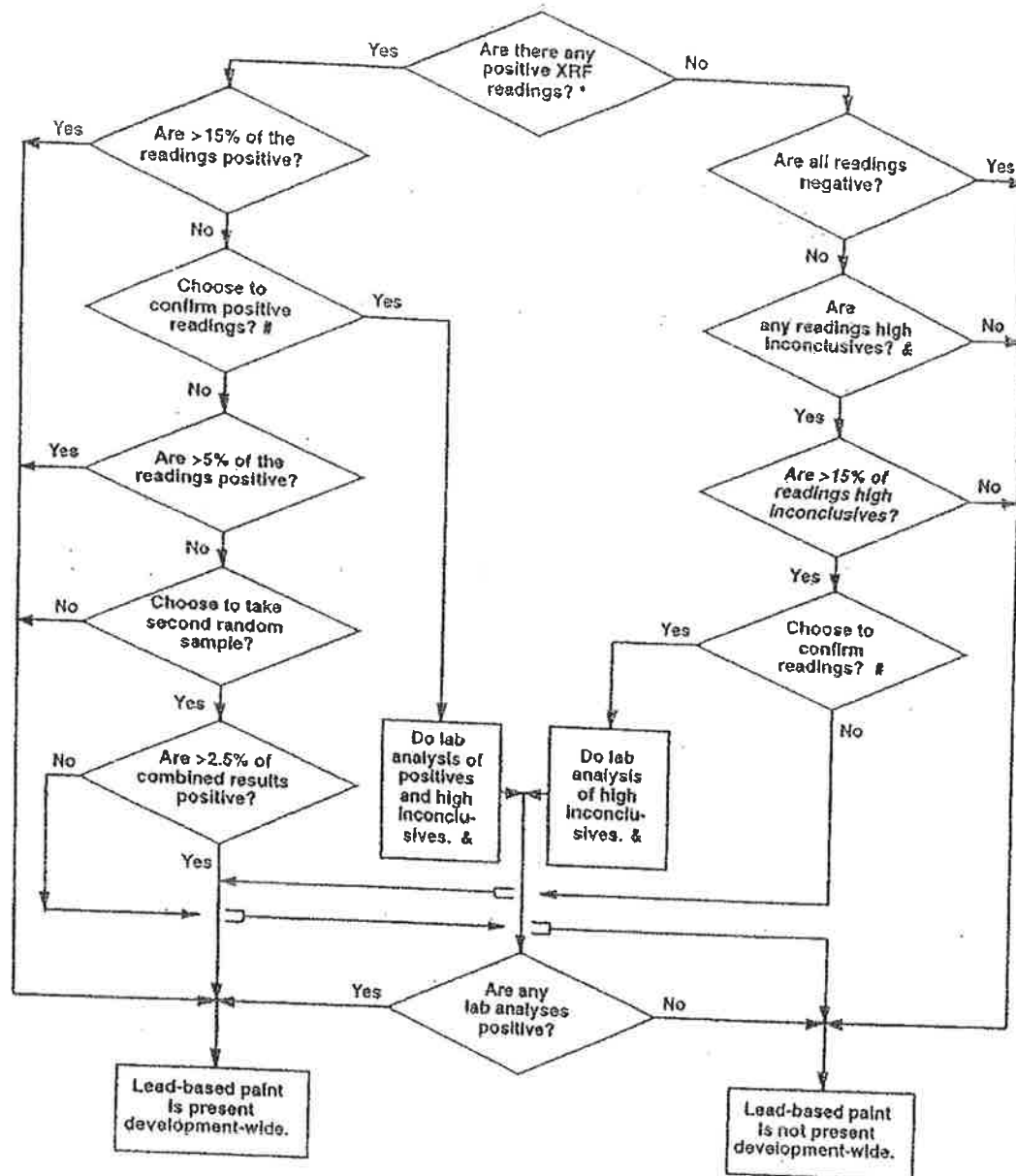


Syed Hasan  
Manager Field Services  
WA/CTED Lead Risk Assessor  
License # 0171



# Attachment

## HUD Flow Chart





# Appendix A

## INSTRUMENT (XRF) & CALIBRATION DATA

# NVL Laboratories, Inc.

4708 Aurora Ave. N., Seattle, WA 98103  
Tel: 206.547.0100, Fax: 206.634.1936

1.888.NVLLABS(685.5227), www.nvllabs.com

# Calibration Check Test Results



Date: May 16, 2007

Client: Seattle Housing Authority

Project Location: "Center Park" 2121 26th Ave. S.  
Seattle WA 98144

NVL Project #: 2007-382

Device: Niton XL 309 Spectrum Analyzer

XRF Serial #: 31566NR8116

Inspected by: Antonio Herrera

Certification #: 0172

Inspector Signature: 

Expiration Date: Sep 08, 2008

NIST SRM Used 1.04 mg/cm<sup>2</sup>

Calibration Check Tolerance Used

+/- 0.06 mg/cm<sup>2</sup>

### First Calibration Check

NIST SRM			Average
First Reading	Second Reading	Third Reading	
<u>1.1</u>	<u>1.1</u>	<u>1.0</u>	<u>1.07</u>

### Second Calibration Check

NIST SRM			Average
First Reading	Second Reading	Third Reading	
<u>1.1</u>	<u>1.1</u>	<u>1.1</u>	<u>1.1</u>

### Third Calibration Check (if required)

			Average
First Reading	Second Reading	Third Reading	

### Fourth Calibration Check (if required)

NIST SRM			Average
First Reading	Second Reading	Third Reading	

**NVL Laboratories, Inc.**


4708 Aurora Ave. N., Seattle, WA 98103  
 Tel: 206.547.0100, Fax: 206.634.1936  
 1.888.NVLLABS(685.5227), www.nvllabs.com

**Calibration Check  
 Test Results**



Date: May 17, 2007  
 Client: Seattle Housing Authority  
 Project Location: "Center Park" 2121 26th Ave. S.  
Seattle WA 98144  
 NVL Project #: 2007-382  
 Device: Niton XL 309 Spectrum Analyzer  
 Inspected by: Antonio Herrera  
 Certification #: 0172  
 Expiration Date: Sep 08, 2005

XRF Serial #: 31566NR8116

Inspector Signature: 

NIST SRM Used 1.04 mg/cm<sup>2</sup> Calibration Check Tolerance Used +/- 0.06 mg/cm<sup>2</sup>

**First Calibration Check**

NIST SRM			Average
First Reading	Second Reading	Third Reading	
<u>1.0</u>	<u>1.1</u>	<u>1.2</u>	<u>1.1</u>

**Second Calibration Check**

NIST SRM			Average
First Reading	Second Reading	Third Reading	
<u>1.1</u>	<u>1.1</u>	<u>1.2</u>	<u>1.13</u>

**Third Calibration Check (if required)**

			Average
First Reading	Second Reading	Third Reading	

**Fourth Calibration Check (if required)**

NIST SRM			Average
First Reading	Second Reading	Third Reading	

NITON  
 Serial # XLP 300A - 31566NR8116  
 PAINT

Inspected by: Antonio Herrera; WA / CTED Risk Assessor License # 0172 (Expires on; Sept 8, 2008)  
 Center Park Apartments", 2121 26th Ave. S., Seattle, WA 98144  
 Dates: 5/16/2007 & 5/17/07

Reading No	COMPONENT	SUBSTRATE	SIDE	CONDITION	COLOR	SITE	FLOOR	ROOM	Results	PbC
1									Positive	8.34
2									Positive	1.1
3									Positive	1.1
4									Positive	1
5	WALL	CONCRETE	B	INTACT	YELLOW	703	7	1	Negative	0
6	WALL	DRYWALL	C	INTACT	YELLOW	703	7	1	Negative	0
7	WALL	DRYWALL	D	INTACT	YELLOW	703	7	1	Negative	0
8	WALL	CONCRETE	D	INTACT	YELLOW	703	7	1	Negative	0
9	WALL	DRYWALL	A	INTACT	GRAY	703	7	2	Negative	0
10	WALL	DRYWALL	B	INTACT	YELLOW	703	7	2	Negative	0
11	WALL	DRYWALL	C	INTACT	YELLOW	703	7	2	Positive	1.9
13	WALL	DRYWALL	D	INTACT	YELLOW	703	7	2	Negative	0
14	WALL	CONCRETE	A	INTACT	YELLOW	703	7	3	Negative	0
15	WALL	DRYWALL	B	INTACT	YELLOW	703	7	3	Negative	0.01
16	WALL	DRYWALL	C	INTACT	YELLOW	703	7	3	Negative	0.1
17	WALL	DRYWALL	D	INTACT	YELLOW	703	7	3	Negative	0
18	WALL	CONCRETE	A	INTACT	YELLOW	703	7	4	Negative	0
19	WALL	DRYWALL	B	INTACT	YELLOW	703	7	4	Negative	0
20	WALL	DRYWALL	C	INTACT	YELLOW	703	7	4	Negative	0
21	WALL	CONCRETE	D	INTACT	YELLOW	703	7	4	Negative	0
22	DOOR	WOOD	A	INTACT	CLEAR COAT	703	7	4	Negative	0
23	DOOR JAMB	WOOD	A	INTACT	CLEAR COAT	703	7	4	Negative	0.01
24	WALL	CONCRETE	A	INTACT	WHITE	718	7	4	Negative	0
25	WALL	CONCRETE	B	INTACT	WHITE	718	7	1	Negative	0
26	WALL	DRYWALL	C	INTACT	WHITE	718	7	1	Negative	0
27	WALL	CONCRETE	D	INTACT	WHITE	718	7	1	Negative	0.01
28	WALL	DRYWALL	A	INTACT	WHITE	718	7	2	Negative	-0.17
29	WALL	CONCRETE	B	INTACT	WHITE	718	7	2	Negative	0

Reading No	COMPONENT	SUBSTRATE	SIDE	CONDITION	COLOR	SITE	FLOOR	ROOM	Results	PbC
30	WALL	DRYWALL	C	INTACT	WHITE	718	7	2	Negative	0
31	WALL	CONCRETE	D	INTACT	WHITE	718	7	2	Negative	0
32	WALL	CONCRETE	A	INTACT	WHITE	718	7	3	Negative	0
33	WALL	DRYWALL	B	INTACT	WHITE	718	7	3	Negative	0
34	WALL	DRYWALL	C	INTACT	WHITE	718	7	3	Negative	0.01
35	WALL	CONCRETE	D	INTACT	WHITE	718	7	3	Negative	0
36	WALL	CONCRETE	A	INTACT	WHITE	718	7	4	Negative	0
37	WALL	CONCRETE	B	INTACT	WHITE	718	7	4	Negative	0
38	WALL	DRYWALL	C	INTACT	WHITE	718	7	4	Negative	0.13
39	WALL	DRYWALL	D	INTACT	WHITE	718	7	4	Negative	0
40	DOOR	WOOD	A	INTACT	CLEAR COAT	718	7	4	Negative	0
41	DOOR JAMB	METAL	A	INTACT	BROWN	718	7	4	Negative	0.01
42	WALL	CONCRETE	A	INTACT	WHITE	7 HALL WEST	7	HALL	Negative	0
43	WALL	CONCRETE	B	INTACT	WHITE	7 HALL WEST	7	HALL	Negative	0.01
44	WALL	CONCRETE	B	INTACT	ORANGE	7 HALL WEST	7	HALL	Negative	0
45	WALL	CONCRETE	C	INTACT	WHITE	7 HALL WEST	7	HALL	Negative	0
46	WALL	CONCRETE	D	INTACT	ORANGE	7 HALL WEST	7	HALL	Negative	0
47	ELEVATOR DOOR	METAL	C	INTACT	ORANGE	7 HALL WEST	7	HALL	Negative	0.5
48	WALL	CONCRETE	A	INTACT	WHITE	613	6	1	Negative	0.01
49	WALL	CONCRETE	B	INTACT	WHITE	613	6	1	Negative	0
50	WALL	DRYWALL	C	INTACT	WHITE	613	6	1	Negative	0.01
51	WALL	CONCRETE	D	INTACT	WHITE	613	6	1	Negative	0
52	WALL	DRYWALL	A	INTACT	WHITE	613	6	2	Negative	0
53	WALL	CONCRETE	B	INTACT	WHITE	613	6	2	Negative	0
54	WALL	DRYWALL	C	INTACT	WHITE	613	6	2	Negative	0
55	WALL	DRYWALL	D	INTACT	WHITE	613	6	2	Negative	0
56	WALL	CONCRETE	A	INTACT	WHITE	613	6	3	Negative	0
57	WALL	CONCRETE	B	INTACT	WHITE	613	6	3	Negative	0.01
58	WALL	DRYWALL	C	INTACT	WHITE	613	6	3	Negative	0.13
59	WALL	DRYWALL	D	INTACT	WHITE	613	6	3	Negative	0
60	WALL	CONCRETE	A	INTACT	WHITE	613	6	4	Negative	0
61	WALL	DRYWALL	B	INTACT	WHITE	613	6	4	Negative	0
62	WALL	DRYWALL	C	INTACT	WHITE	613	6	4	Negative	0
63	WALL	CONCRETE	D	INTACT	WHITE	613	6	4	Negative	0
64	DOOR	WOOD	A	INTACT	CLEAR COAT	613	6	4	Negative	0



Reading No	COMPONENT	SUBSTRATE	SIDE	CONDITION	COLOR	SITE	FLOOR	ROOM	Results	PbC
65	DOOR JAMB	METAL	A	INTACT	BROWN	613	6	4	Negative	0.01
66	WALL	CONCRETE	A	INTACT	WHITE	609	6	1	Negative	0
67	WALL	CONCRETE	B	INTACT	WHITE	609	6	1	Negative	0
68	WALL	CONCRETE	B	INTACT	WHITE	609	6	1	Negative	0
69	WALL	DRYWALL	C	INTACT	WHITE	609	6	1	Negative	0
70	WALL	CONCRETE	D	INTACT	WHITE	609	6	1	Negative	0
71	WALL	DRYWALL	A	INTACT	WHITE	609	6	2	Positive	1.7
72	WALL	DRYWALL	B	INTACT	WHITE	609	6	2	Positive	4.2
73	WALL	DRYWALL	C	INTACT	WHITE	609	6	2	Positive	1.7
74	WALL	DRYWALL	D	INTACT	WHITE	609	6	2	Negative	0
75	WALL	CONCRETE	A	INTACT	WHITE	609	6	3	Negative	0.02
76	WALL	DRYWALL	B	INTACT	WHITE	609	6	3	Positive	1.6
77	WALL	DRYWALL	C	INTACT	WHITE	609	6	3	Positive	1.6
78	WALL	DRYWALL	D	INTACT	WHITE	609	6	3	Positive	1.8
79	WALL	CONCRETE	A	INTACT	WHITE	609	6	4	Negative	0
80	WALL	CONCRETE	B	INTACT	WHITE	609	6	4	Negative	0
81	WALL	CONCRETE	C	INTACT	WHITE	609	6	4	Negative	0
82	WALL	CONCRETE	D	INTACT	WHITE	609	6	4	Negative	0
83	DOOR	WOOD	A	INTACT	CLEAR COAT	609	6	4	Negative	0
84	DOOR	METAL	A	INTACT	BROWN	609	6	4	Negative	0.01
85	WALL	CONCRETE	A	INTACT	WHITE	604	6	1	Negative	0
86	WALL	CONCRETE	B	INTACT	WHITE	604	6	1	Negative	0
87	WALL	DRYWALL	C	INTACT	WHITE	604	6	1	Negative	0
88	WALL	DRYWALL	D	INTACT	WHITE	604	6	1	Negative	0
89	WALL	CONCRETE	A	INTACT	WHITE	604	6	2	Negative	0.01
90	WALL	DRYWALL	B	INTACT	WHITE	604	6	2	Negative	0.02
91	WALL	DRYWALL	C	INTACT	WHITE	604	6	2	Negative	0.01
92	WALL	DRYWALL	D	INTACT	WHITE	604	6	2	Negative	0
93	WALL	CONCRETE	A	INTACT	WHITE	604	6	3	Negative	0
94	WALL	DRYWALL	B	INTACT	WHITE	604	6	3	Negative	0
95	WALL	DRYWALL	C	INTACT	WHITE	604	6	3	Negative	0
96	WALL	CONCRETE	D	INTACT	WHITE	604	6	3	Negative	0
97	DOOR	WOOD	A	INTACT	CLEAR COAT	604	6	3	Negative	0.01
98	DOOR JAMB	METAL	A	INTACT	BROWN	604	6	3	Negative	0.01
99	WALL	CONCRETE	B	INTACT	WHITE	603	6	1	Negative	0

Reading No	COMPONENT	SUBSTRATE	SIDE	CONDITION	COLOR	SITE	FLOOR	ROOM	Results	Pb/C
100	WALL	DRYWALL	C	INTACT	WHITE	603	6	1	Negative	0
101	WALL	DRYWALL	D	INTACT	WHITE	603	6	1	Negative	0
102	WALL	DRYWALL	A	INTACT	WHITE	603	6	2	Negative	0
103	WALL	DRYWALL	B	INTACT	WHITE	603	6	2	Negative	0
104	WALL	DRYWALL	C	INTACT	WHITE	603	6	2	Negative	0
105	WALL	DRYWALL	D	INTACT	WHITE	603	6	2	Negative	0
106	WALL	CONCRETE	A	INTACT	WHITE	603	6	3	Negative	0
107	WALL	DRYWALL	B	INTACT	WHITE	603	6	3	Negative	0.02
108	WALL	DRYWALL	C	INTACT	WHITE	603	6	3	Negative	0.17
109	WALL	DRYWALL	D	INTACT	WHITE	603	6	3	Negative	0
110	WALL	CONCRETE	A	INTACT	WHITE	603	6	4	Negative	0
111	WALL	DRYWALL	B	INTACT	WHITE	603	6	4	Negative	0
112	WALL	DRYWALL	C	INTACT	WHITE	603	6	4	Negative	0
113	WALL	CONCRETE	D	INTACT	WHITE	603	6	4	Negative	0
114	DOOR	WOOD	A	INTACT	CLEAR COAT	603	6	4	Negative	0
115	DOOR JAMB	METAL	A	INTACT	BROWN	603	6	4	Negative	0
116	WALL	CONCRETE	A	INTACT	WHITE	601	6	1	Negative	0
117	WALL	CONCRETE	B	INTACT	WHITE	601	6	1	Negative	0
118	WALL	DRYWALL	C	INTACT	WHITE	601	6	1	Negative	0
119	WALL	DRYWALL	D	INTACT	WHITE	601	6	1	Negative	0
120	WALL	DRYWALL	A	INTACT	WHITE	601	6	2	Negative	0
121	WALL	CONCRETE	B	INTACT	WHITE	601	6	2	Negative	0
122	WALL	DRYWALL	C	INTACT	WHITE	601	6	2	Negative	0
123	WALL	DRYWALL	D	INTACT	WHITE	601	6	2	Negative	0.01
124	WALL	CONCRETE	A	INTACT	WHITE	601	6	3	Negative	0
125	WALL	CONCRETE	B	INTACT	WHITE	601	6	3	Negative	0
126	WALL	DRYWALL	C	INTACT	WHITE	601	6	3	Negative	0.01
127	WALL	DRYWALL	D	INTACT	WHITE	601	6	3	Negative	-0.09
128	WALL	CONCRETE	A	INTACT	WHITE	601	6	4	Negative	0
129	WALL	DRYWALL	B	INTACT	WHITE	601	6	4	Negative	0
130	WALL	DRYWALL	C	INTACT	WHITE	601	6	4	Negative	0
131	WALL	CONCRETE	D	INTACT	WHITE	601	6	4	Negative	0
132	DOOR	WOOD	A	INTACT	CLEAR COAT	601	6	4	Negative	0
133	DOOR JAMB	METAL	A	INTACT	BROWN	601	6	4	Negative	0.01
134	WALL	CONCRETE	A	INTACT	WHITE	6 HALL CENTER	6	4	Negative	0

Reading No.	COMPONENT	SUBSTRATE	SIDE	CONDITION	COLOR	SITE	FLOOR	ROOM	Results	PbC
135	WALL	CONCRETE	A	INTACT	WHITE	6 HALL CENTER	6	HALL	Negative	0
136	WALL	CONCRETE	B	INTACT	ORANGE	6 HALL CENTER	6	HALL	Negative	0
137	WALL	CONCRETE	C	INTACT	WHITE	6 HALL CENTER	6	HALL	Negative	0
138	WALL	CONCRETE	D	INTACT	ORANGE	6 HALL CENTER	6	HALL	Negative	0
139	ELEVATOR WALL	BRICK	C	INTACT	WHITE	6 HALL CENTER	6	HALL	Negative	0
140	ELEVATOR DOOR	METAL	C	INTACT	ORANGE	6 HALL CENTER	6	HALL	Negative	0.26
141	WALL	CONCRETE	B	INTACT	WHITE	502	5	1	Negative	0
142	WALL	DRYWALL	C	INTACT	WHITE	502	5	1	Negative	0.01
143	WALL	CONCRETE	D	INTACT	WHITE	502	5	1	Negative	0
144	WALL	DRYWALL	A	INTACT	WHITE	502	5	2	Negative	0
145	WALL	DRYWALL	B	INTACT	WHITE	502	5	2	Negative	0
146	WALL	DRYWALL	C	INTACT	WHITE	502	5	2	Negative	0.02
147	WALL	CONCRETE	D	INTACT	WHITE	502	5	2	Negative	0
148	WALL	CONCRETE	A	INTACT	WHITE	502	5	3	Negative	0
149	WALL	DRYWALL	B	INTACT	WHITE	502	5	3	Negative	0.5
150	WALL	DRYWALL	C	INTACT	WHITE	502	5	3	Negative	0.01
151	WALL	CONCRETE	D	INTACT	WHITE	502	5	3	Negative	0
152	WALL	CONCRETE	A	INTACT	WHITE	502	5	4	Negative	0
153	WALL	CONCRETE	B	INTACT	WHITE	502	5	4	Negative	0
154	WALL	DRYWALL	C	INTACT	WHITE	502	5	4	Negative	0
155	WALL	DRYWALL	D	INTACT	WHITE	502	5	4	Negative	0
156	DOOR	WOOD	A	INTACT	CLEAR COAT	502	5	4	Negative	0
157	DOOR JAMB	METAL	A	INTACT	BROWN	502	5	4	Negative	0.01
158	WALL	CONCRETE	B	INTACT	WHITE	507	5	1	Negative	0
159	WALL	DRYWALL	C	INTACT	WHITE	507	5	1	Negative	0
160	WALL	CONCRETE	D	INTACT	WHITE	507	5	1	Positive	2
161	WALL	DRYWALL	A	INTACT	WHITE	507	5	2	Negative	0.01
162	WALL	CONCRETE	B	INTACT	WHITE	507	5	2	Positive	2
163	WALL	CONCRETE	C	INTACT	WHITE	507	5	2	Negative	0
164	WALL	CONCRETE	D	INTACT	WHITE	507	5	2	Positive	2.6
165	WALL	CONCRETE	A	INTACT	WHITE	507	5	3	Negative	0
166	WALL	DRYWALL	B	INTACT	WHITE	507	5	3	Negative	0
167	WALL	DRYWALL	C	INTACT	WHITE	507	5	3	Negative	0
168	WALL	CONCRETE	D	INTACT	WHITE	507	5	3	Negative	0
169	WALL	CONCRETE	A	INTACT	WHITE	507	5	4	Negative	0

Reading No	COMPONENT	SUBSTRATE	SIDE	CONDITION	COLOR	SITE	FLOOR	ROOM	Results	PbC
170	WALL	CONCRETE	B	INTACT	WHITE	507	5	4	Negative	0
171	WALL	DRYWALL	C	INTACT	WHITE	507	5	4	Negative	0
172	WALL	DRYWALL	C	INTACT	WHITE	507	5	4	Negative	0
173	WALL	DRYWALL	D	INTACT	WHITE	507	5	4	Negative	0.01
174	DOOR	WOOD	A	INTACT	CLEAR COAT	507	5	4	Negative	0.04
175	DOOR JAMB	METAL	A	INTACT	BROWN	507	5	4	Negative	0.01
176	WALL	CONCRETE	B	INTACT	WHITE	514	5	1	Negative	0.01
177	WALL	DRYWALL	C	INTACT	WHITE	514	5	1	Negative	0.01
178	WALL	CONCRETE	D	INTACT	WHITE	514	5	1	Negative	0
179	WALL	DRYWALL	A	INTACT	WHITE	514	5	2	Negative	0
180	WALL	CONCRETE	B	INTACT	WHITE	514	5	2	Negative	0
181	WALL	DRYWALL	C	INTACT	WHITE	514	5	2	Negative	0
182	WALL	CONCRETE	D	INTACT	WHITE	514	5	2	Negative	0.01
183	WALL	CONCRETE	A	INTACT	WHITE	514	5	3	Negative	0
184	WALL	DRYWALL	B	INTACT	WHITE	514	5	3	Negative	0
185	WALL	DRYWALL	C	INTACT	WHITE	514	5	3	Negative	0.18
186	WALL	CONCRETE	D	INTACT	WHITE	514	5	3	Negative	0
187	WALL	CONCRETE	A	INTACT	WHITE	514	5	4	Negative	0
188	WALL	CONCRETE	B	INTACT	WHITE	514	5	4	Negative	0
189	WALL	CONCRETE	C	INTACT	WHITE	514	5	4	Negative	0
190	WALL	DRYWALL	D	INTACT	WHITE	514	5	4	Negative	0
191	DOOR	WOOD	A	INTACT	CLEAR COAT	514	5	4	Negative	0.01
192	DOOR JAMB	METAL	A	INTACT	BROWN	514	5	4	Negative	0.02
193	WALL	CONCRETE	A	INTACT	WHITE	518	5	1	Negative	0
194	WALL	CONCRETE	B	INTACT	WHITE	518	5	1	Negative	0
195	WALL	DRYWALL	C	INTACT	WHITE	518	5	1	Negative	0
196	WALL	CONCRETE	D	INTACT	WHITE	518	5	1	Negative	0
197	WALL	DRYWALL	A	INTACT	WHITE	518	5	2	Negative	0
198	WALL	DRYWALL	B	INTACT	WHITE	518	5	2	Negative	0
199	WALL	DRYWALL	C	INTACT	WHITE	518	5	2	Negative	0
200	WALL	CONCRETE	D	INTACT	WHITE	518	5	2	Negative	0
201	CABINET	WOOD	A	INTACT	BROWN	518	5	2	Negative	0
202	WALL	CONCRETE	A	INTACT	WHITE	518	5	3	Negative	0
203	WALL	DRYWALL	B	INTACT	WHITE	518	5	3	Negative	0
204	WALL	DRYWALL	C	INTACT	WHITE	518	5	3	Negative	0.03

Reading No	COMPONENT	SUBSTRATE	SIDE	CONDITION	COLOR	SITE	FLOOR	ROOM	Results	PbC
205	WALL	CONCRETE	D	INTACT	WHITE	518	5	3	Negative	0
206	WALL	CONCRETE	A	INTACT	WHITE	518	5	4	Negative	0
207	WALL	CONCRETE	B	INTACT	WHITE	518	5	4	Negative	0
208	WALL	DRYWALL	C	INTACT	WHITE	518	5	4	Negative	0
209	WALL	DRYWALL	D	INTACT	WHITE	518	5	4	Negative	0
210	DOOR	WOOD	A	INTACT	CLEAR COAT	518	5	4	Negative	0.01
211	DOOR JAMB	METAL	A	INTACT	BROWN	518	5	4	Negative	0.01
212	WALL	CONCRETE	A	INTACT	WHITE	5 HALL CENTER	5	HALL	Negative	0
213	WALL	CONCRETE	B	INTACT	ORANGE	5 HALL CENTER	5	HALL	Negative	0
214	WALL	CONCRETE	C	INTACT	WHITE	5 HALL CENTER	5	HALL	Negative	0
215	WALL	CONCRETE	D	INTACT	ORANGE	5 HALL CENTER	5	HALL	Negative	0
216	ELEVATOR WALL	BRICK	C	INTACT	WHITE	5 HALL CENTER	5	HALL	Negative	0.01
217	ELEVATOR DOOR	METAL	C	INTACT	ORANGE	5 HALL CENTER	5	HALL	Negative	0.6
218	WALL	CONCRETE	A	INTACT	WHITE	405	4	1	Negative	0
219	WALL	CONCRETE	B	INTACT	WHITE	405	4	1	Negative	0
220	WALL	DRYWALL	C	INTACT	WHITE	405	4	1	Negative	0
221	WALL	CONCRETE	D	INTACT	WHITE	405	4	1	Negative	0
222	WALL	DRYWALL	A	INTACT	WHITE	405	4	2	Negative	0
223	WALL	CONCRETE	B	INTACT	WHITE	405	4	2	Negative	0
224	WALL	CONCRETE	C	INTACT	WHITE	405	4	2	Negative	0
225	WALL	DRYWALL	D	INTACT	WHITE	405	4	2	Negative	0
226	WALL	CONCRETE	A	INTACT	WHITE	405	4	3	Negative	0.01
227	WALL	CONCRETE	B	INTACT	WHITE	405	4	3	Negative	0
228	WALL	DRYWALL	C	INTACT	WHITE	405	4	3	Negative	0.01
229	WALL	DRYWALL	D	INTACT	WHITE	405	4	3	Negative	0
230	WALL	CONCRETE	A	INTACT	WHITE	405	4	4	Negative	0.01
231	WALL	DRYWALL	B	INTACT	WHITE	405	4	4	Negative	0
232	WALL	DRYWALL	C	INTACT	WHITE	405	4	4	Negative	0
233	WALL	CONCRETE	D	INTACT	WHITE	405	4	4	Negative	0.01
234	DOOR	WOOD	A	INTACT	CLEAR COAT	405	4	4	Negative	0.02
235	DOOR JAMB	METAL	A	INTACT	BROWN	405	4	4	Negative	0.01
236	WALL	DRYWALL	B	INTACT	WHITE	425	4	1	Negative	0
237	WALL	DRYWALL	C	INTACT	WHITE	425	4	1	Negative	0
238	WALL	DRYWALL	D	INTACT	WHITE	425	4	1	Negative	0
239	WALL	CONCRETE	D	INTACT	WHITE	425	4	1	Negative	0

Reading No	COMPONENT	SUBSTRATE	SIDE	CONDITION	COLOR	SITE	FLOOR	ROOM	Results	PbC
240	WALL	DRYWALL	A	INTACT	WHITE	425	4	2	Negative	0
241	WALL	DRYWALL	B	INTACT	WHITE	425	4	2	Negative	0
242	WALL	DRYWALL	C	INTACT	WHITE	425	4	2	Negative	0
243	WALL	CONCRETE	D	INTACT	WHITE	425	4	2	Negative	0
244	WALL	CONCRETE	A	INTACT	WHITE	425	4	3	Negative	0
245	WALL	DRYWALL	B	INTACT	WHITE	425	4	3	Negative	0.03
246	WALL	DRYWALL	C	INTACT	WHITE	425	4	3	Negative	0.01
247	WALL	CONCRETE	D	INTACT	WHITE	425	4	3	Negative	0.02
248	WALL	CONCRETE	A	INTACT	WHITE	425	4	4	Negative	0
249	WALL	CONCRETE	B	INTACT	WHITE	425	4	4	Negative	0
250	WALL	CONCRETE	C	INTACT	WHITE	425	4	4	Negative	0
251	WALL	DRYWALL	D	INTACT	WHITE	425	4	4	Negative	0
252	DOOR	WOOD	A	INTACT	CLEAR COAT	425	4	4	Negative	0
253	DOOR JAMB	METAL	A	INTACT	BROWN	425	4	4	Negative	-0.1
254	WALL	CONCRETE	A	INTACT	WHITE	4 HALL CENTER	4	HALL	Negative	0
255	WALL	CONCRETE	B	INTACT	ORANGE	4 HALL CENTER	4	HALL	Negative	0
256	WALL	CONCRETE	C	INTACT	WHITE	4 HALL CENTER	4	HALL	Negative	0
257	WALL	CONCRETE	D	INTACT	ORANGE	4 HALL CENTER	4	HALL	Negative	0
258	ELEVATOR WALL	BRICK	C	INTACT	WHITE	4 HALL CENTER	4	HALL	Negative	0.01
259	ELEVATOR DOOR	METAL	C	INTACT	ORANGE	4 HALL CENTER	4	HALL	Negative	0.3
260									Positive	1.1
261			CALIBRATE						Positive	1.1
262			CALIBRATE						Positive	1.1
263			SHUTTER CAL						Positive	1.1
264			CALIBRATE						Positive	8.85
265			CALIBRATE						Positive	1
266			CALIBRATE						Positive	1.1
267	WALL	CONCRETE	A	INTACT	WHITE	312	3	1	Negative	0
268	WALL	CONCRETE	B	INTACT	WHITE	312	3	1	Negative	0
269	WALL	DRYWALL	C	INTACT	WHITE	312	3	1	Negative	0
270	WALL	CONCRETE	D	INTACT	WHITE	312	3	1	Negative	0
271	WALL	DRYWALL	A	INTACT	WHITE	312	3	2	Negative	0
272	WALL	CONCRETE	B	INTACT	WHITE	312	3	2	Negative	0
273	WALL	DRYWALL	C	INTACT	WHITE	312	3	2	Negative	0
274	WALL	DRYWALL	D	INTACT	WHITE	312	3	2	Negative	0

Reading No	COMPONENT	SUBSTRATE	SIDE	CONDITION	COLOR	SITE	FLOOR	ROOM	Results	PbC
275	WALL	CONCRETE	A	INTACT	WHITE	312	3	3	Negative	0
276	WALL	DRYWALL	B	INTACT	WHITE	312	3	3	Negative	0
277	WALL	DRYWALL	C	INTACT	WHITE	312	3	3	Negative	0.01
278	WALL	CONCRETE	D	INTACT	WHITE	312	3	3	Negative	0
279	WALL	CONCRETE	A	INTACT	WHITE	312	3	4	Negative	0
280	WALL	CONCRETE	B	INTACT	WHITE	312	3	4	Negative	0
281	WALL	DRYWALL	C	INTACT	WHITE	312	3	4	Negative	0
282	WALL	DRYWALL	D	INTACT	WHITE	312	3	4	Negative	0
283	DOOR	WOOD	A	INTACT	CLEAR COAT	312	3	4	Negative	0
284	DOOR JAMB	METAL	A	INTACT	BROWN	312	3	4	Negative	0.03
285	WALL	CONCRETE	A	INTACT	WHITE	302	3	1	Negative	0
286	WALL	CONCRETE	B	INTACT	WHITE	302	3	1	Negative	0
287	WALL	DRYWALL	C	INTACT	WHITE	302	3	1	Negative	0.01
288	WALL	CONCRETE	D	INTACT	WHITE	302	3	1	Negative	0
289	WALL	DRYWALL	A	INTACT	WHITE	302	3	2	Negative	0
290	WALL	DRYWALL	B	INTACT	WHITE	302	3	2	Negative	0.01
291	WALL	DRYWALL	C	INTACT	WHITE	302	3	2	Negative	0.01
292	WALL	CONCRETE	D	INTACT	WHITE	302	3	2	Negative	0
293	WALL	CONCRETE	A	INTACT	WHITE	302	3	3	Negative	0
294	WALL	DRYWALL	B	INTACT	WHITE	302	3	3	Negative	0.03
295	WALL	DRYWALL	C	INTACT	WHITE	302	3	3	Negative	0.07
296	WALL	CONCRETE	D	INTACT	WHITE	302	3	3	Negative	0.01
297	WALL	CONCRETE	A	INTACT	WHITE	302	3	4	Negative	0
298	WALL	CONCRETE	B	INTACT	WHITE	302	3	4	Negative	0
299	WALL	DRYWALL	C	INTACT	WHITE	302	3	4	Negative	0
300	WALL	DRYWALL	D	INTACT	WHITE	302	3	4	Negative	0.22
301	DOOR	WOOD	A	INTACT	CLEAR COAT	302	3	4	Negative	0
302	DOOR JAMB	METAL	A	INTACT	BROWN	302	3	4	Negative	0.01
303	WALL	DRYWALL	B	INTACT	WHITE	325	3	1	Negative	0
304	WALL	DRYWALL	C	INTACT	WHITE	325	3	1	Negative	0
305	WALL	CONCRETE	D	INTACT	WHITE	325	3	1	Negative	0
306	WALL	DRYWALL	A	INTACT	WHITE	325	3	2	Negative	0
307	WALL	DRYWALL	A	INTACT	WHITE	325	3	2	Negative	0
308	WALL	DRYWALL	B	INTACT	WHITE	325	3	2	Negative	0
309	WALL	DRYWALL	C	INTACT	WHITE	325	3	2	Negative	0

Reading No	COMPONENT	SUBSTRATE	SIDE	CONDITION	COLOR	SITE	FLOOR	ROOM	Results	PbC
310	WALL	CONCRETE	D	INTACT	WHITE	325	3	2	Negative	0
311	WALL	CONCRETE	A	INTACT	WHITE	325	3	3	Negative	0
312	WALL	DRYWALL	B	INTACT	WHITE	325	3	3	Negative	0
313	WALL	DRYWALL	B	INTACT	WHITE	325	3	3	Negative	0
314	WALL	DRYWALL	B	INTACT	WHITE	325	3	3	Negative	0
315	WALL	DRYWALL	C	INTACT	WHITE	325	3	3	Negative	0.16
316	WALL	CONCRETE	D	INTACT	WHITE	325	3	3	Negative	0
317	WALL	CONCRETE	A	INTACT	WHITE	325	3	4	Negative	0.01
318	WALL	CONCRETE	B	INTACT	WHITE	325	3	4	Negative	0
319	WALL	CONCRETE	C	INTACT	WHITE	325	3	4	Negative	0
320	WALL	DRYWALL	D	INTACT	WHITE	325	3	4	Negative	0
321	DOOR	WOOD	A	INTACT	CLEAR COAT	325	3	4	Negative	0
322	DOOR JAMB	METAL	A	INTACT	BROWN	325	3	4	Negative	0.01
323	WALL	CONCRETE	A	INTACT	WHITE	323	3	1	Negative	0
324	WALL	CONCRETE	B	INTACT	WHITE	323	3	1	Negative	0
325	WALL	DRYWALL	C	INTACT	WHITE	323	3	1	Negative	0
326	WALL	CONCRETE	D	INTACT	WHITE	323	3	1	Negative	0
327	WALL	DRYWALL	A	INTACT	WHITE	323	3	2	Negative	0
328	WALL	DRYWALL	B	INTACT	WHITE	323	3	2	Negative	0
329	WALL	CONCRETE	C	INTACT	WHITE	323	3	2	Negative	0
330	WALL	CONCRETE	D	INTACT	WHITE	323	3	2	Negative	0
331	WALL	CONCRETE	A	INTACT	WHITE	323	3	3	Negative	0
332	WALL	DRYWALL	B	INTACT	WHITE	323	3	3	Negative	0
333	WALL	DRYWALL	C	INTACT	WHITE	323	3	3	Negative	0.02
334	WALL	DRYWALL	D	INTACT	WHITE	323	3	3	Negative	0
335	WALL	CONCRETE	A	INTACT	WHITE	323	3	4	Negative	0
336	WALL	CONCRETE	B	INTACT	WHITE	323	3	4	Negative	0
337	WALL	CONCRETE	B	INTACT	WHITE	323	3	4	Negative	0
338	WALL	DRYWALL	C	INTACT	WHITE	323	3	4	Negative	0
339	WALL	CONCRETE	D	INTACT	WHITE	323	3	4	Negative	0
340	DOOR	WOOD	A	INTACT	CLEAR COAT	323	3	4	Negative	0
341	DOOR JAMB	METAL	A	INTACT	BROWN	323	3	4	Negative	0.07
342	WALL	CONCRETE	A	INTACT	WHITE	3 HALL CENTER	3	HALL	Negative	0
343	WALL	CONCRETE	B	INTACT	ORANGE	3 HALL CENTER	3	HALL	Negative	0
344	WALL	CONCRETE	C	INTACT	WHITE	3 HALL CENTER	3	HALL	Negative	0



Reading No.	COMPONENT	SUBSTRATE	SIDE	CONDITION	COLOR	SITE	FLOOR	ROOM	Results	PbC
345	WALL	CONCRETE	D	INTACT	ORANGE	3 HALL CENTER	3	HALL	Negative	0
346	ELEVATOR WALL	BRICK	C	INTACT	WHITE	3 HALL CENTER	3	HALL	Negative	0.02
347	ELEVATOR DOOR	METAL	C	INTACT	ORANGE	3 HALL CENTER	3	HALL	Negative	0.4
348	WALL	CONCRETE	A	INTACT	WHITE	304	3	1	Negative	0
349	WALL	CONCRETE	B	INTACT	WHITE	304	3	1	Negative	0
350	WALL	DRYWALL	C	INTACT	WHITE	304	3	1	Negative	0
351	WALL	DRYWALL	D	INTACT	WHITE	304	3	1	Negative	0.03
352	WALL	CONCRETE	A	INTACT	WHITE	304	3	2	Negative	0
353	WALL	DRYWALL	B	INTACT	WHITE	304	3	2	Negative	0.01
354	WALL	DRYWALL	C	INTACT	WHITE	304	3	2	Negative	0.11
355	WALL	DRYWALL	D	INTACT	WHITE	304	3	2	Negative	0.01
356	WALL	CONCRETE	A	INTACT	WHITE	304	3	3	Negative	0
357	WALL	DRYWALL	B	INTACT	WHITE	304	3	3	Negative	0
358	WALL	DRYWALL	C	INTACT	WHITE	304	3	3	Negative	0
359	WALL	DRYWALL	D	INTACT	WHITE	304	3	3	Negative	0
360	DOOR	WOOD	A	INTACT	CLEAR COAT	304	3	3	Negative	0
361	DOOR JAMB	METAL	A	INTACT	BROWN	304	3	3	Negative	0.03
362	WALL	CONCRETE	A	INTACT	WHITE	206	2	1	Negative	0
363	WALL	CONCRETE	B	INTACT	WHITE	206	2	1	Negative	0
364	WALL	DRYWALL	C	INTACT	WHITE	206	2	1	Negative	0
365	WALL	CONCRETE	D	INTACT	WHITE	206	2	1	Negative	0
366	WALL	DRYWALL	A	INTACT	WHITE	206	2	2	Negative	0.01
367	WALL	CONCRETE	B	INTACT	WHITE	206	2	2	Negative	0
368	WALL	DRYWALL	C	INTACT	WHITE	206	2	2	Negative	0
369	WALL	DRYWALL	D	INTACT	WHITE	206	2	2	Negative	0
370	WALL	CONCRETE	A	INTACT	WHITE	206	2	3	Negative	0
371	WALL	CONCRETE	B	INTACT	WHITE	206	2	3	Negative	0
372	WALL	DRYWALL	C	INTACT	WHITE	206	2	3	Negative	0
373	WALL	DRYWALL	D	INTACT	WHITE	206	2	3	Negative	0
374	WALL	CONCRETE	A	INTACT	WHITE	206	2	4	Negative	0
375	WALL	DRYWALL	B	INTACT	WHITE	206	2	4	Negative	0
376	WALL	DRYWALL	C	INTACT	WHITE	206	2	4	Negative	0
377	WALL	CONCRETE	D	INTACT	WHITE	206	2	4	Negative	0
378	DOOR	WOOD	A	INTACT	CLEAR COAT	206	2	4	Negative	0
379	DOOR JAMB	METAL	A	INTACT	BROWN	206	2	4	Negative	0.02

Reading No	COMPONENT	SUBSTRATE	SIDE	CONDITION	COLOR	SITE	FLOOR	ROOM	Results	PbC
380	WALL	CONCRETE	A	INTACT	WHITE	208	2	1	Negative	0.01
381	WALL	CONCRETE	B	INTACT	WHITE	208	2	1	Negative	0
382	WALL	DRYWALL	C	INTACT	WHITE	208	2	1	Negative	0
383	WALL	CONCRETE	D	INTACT	WHITE	208	2	1	Negative	0
384	WALL	DRYWALL	A	INTACT	WHITE	208	2	2	Negative	0
385	WALL	DRYWALL	B	INTACT	WHITE	208	2	2	Negative	0
386	WALL	DRYWALL	C	INTACT	WHITE	208	2	2	Negative	0
387	WALL	CONCRETE	D	INTACT	WHITE	208	2	2	Negative	0
388	WALL	CONCRETE	A	INTACT	WHITE	208	2	3	Negative	0
389	WALL	DRYWALL	B	INTACT	WHITE	208	2	3	Negative	0
390	WALL	DRYWALL	C	INTACT	WHITE	208	2	3	Negative	0.3
391	WALL	CONCRETE	D	INTACT	WHITE	208	2	3	Negative	0
392	WALL	CONCRETE	A	INTACT	WHITE	208	2	4	Negative	0
393	WALL	CONCRETE	B	INTACT	WHITE	208	2	4	Negative	0
394	WALL	DRYWALL	C	INTACT	WHITE	208	2	4	Negative	0
395	WALL	DRYWALL	D	INTACT	WHITE	208	2	4	Negative	0.01
396	DOOR	WOOD	A	INTACT	CLEAR COAT	208	2	4	Negative	0
397	DOOR JAMB	METAL	A	INTACT	BROWN	208	2	4	Negative	0.01
398	WALL	CONCRETE	B	INTACT	WHITE	212	2	1	Negative	0
399	WALL	DRYWALL	C	INTACT	WHITE	212	2	1	Negative	0
400	WALL	DRYWALL	D	INTACT	WHITE	212	2	1	Negative	0
401	WALL	CONCRETE	A	INTACT	WHITE	212	2	2	Negative	0.01
402	WALL	DRYWALL	B	INTACT	WHITE	212	2	2	Negative	0
403	WALL	DRYWALL	C	INTACT	WHITE	212	2	2	Negative	0.01
404	WALL	DRYWALL	D	INTACT	WHITE	212	2	2	Negative	0
405	WALL	CONCRETE	A	INTACT	WHITE	212	2	3	Negative	0
406	WALL	DRYWALL	B	INTACT	WHITE	212	2	3	Negative	0
407	WALL	DRYWALL	C	INTACT	WHITE	212	2	3	Negative	0.03
408	WALL	CONCRETE	D	INTACT	WHITE	212	2	3	Negative	0
409	WALL	CONCRETE	A	INTACT	WHITE	212	2	4	Negative	0
410	WALL	CONCRETE	B	INTACT	WHITE	212	2	4	Negative	0
411	WALL	CONCRETE	C	INTACT	WHITE	212	2	4	Negative	0.02
412	WALL	DRYWALL	D	INTACT	WHITE	212	2	4	Negative	0
413	DOOR	WOOD	A	INTACT	CLEAR COAT	212	2	4	Negative	0
414	DOOR JAMB	METAL	A	INTACT	BROWN	212	2	4	Negative	0.01

Reading No	COMPONENT	SUBSTRATE	SIDE	CONDITION	COLOR	SITE	FLOOR	ROOM	Results	PbC
415	WALL	CONCRETE	A	INTACT	WHITE	223	2	1	Negative	0.01
416	WALL	CONCRETE	A	INTACT	WHITE	223	2	1	Negative	0
417	WALL	CONCRETE	B	INTACT	WHITE	223	2	1	Negative	0
418	WALL	DRYWALL	C	INTACT	WHITE	223	2	1	Negative	0
419	WALL	DRYWALL	D	INTACT	WHITE	223	2	1	Negative	0
420	WALL	DRYWALL	A	INTACT	WHITE	223	2	2	Negative	0
421	WALL	DRYWALL	B	INTACT	WHITE	223	2	2	Negative	0
422	WALL	CONCRETE	C	INTACT	WHITE	223	2	2	Negative	0
423	WALL	CONCRETE	D	INTACT	WHITE	223	2	2	Negative	0
424	WALL	CONCRETE	A	INTACT	WHITE	223	2	3	Negative	0
425	WALL	DRYWALL	B	INTACT	WHITE	223	2	3	Negative	0
426	WALL	DRYWALL	C	INTACT	WHITE	223	2	3	Negative	0.21
427	WALL	CONCRETE	D	INTACT	WHITE	223	2	3	Negative	0
428	WALL	CONCRETE	A	INTACT	WHITE	223	2	4	Negative	0
429	WALL	CONCRETE	B	INTACT	WHITE	223	2	4	Negative	0
430	WALL	CONCRETE	C	INTACT	WHITE	223	2	4	Negative	0
431	WALL	CONCRETE	D	INTACT	WHITE	223	2	4	Negative	0
432	DOOR	WOOD	A	INTACT	CLEAR COAT	223	2	4	Negative	0
433	DOOR JAMB	METAL	A	INTACT	BROWN	223	2	4	Negative	0
434	WALL	CONCRETE	A	INTACT	YELLOW	219	2	1	Negative	0
435	WALL	DRYWALL	B	INTACT	YELLOW	219	2	1	Negative	0
436	WALL	DRYWALL	C	INTACT	YELLOW	219	2	1	Negative	0
437	WALL	CONCRETE	D	INTACT	YELLOW	219	2	1	Negative	0
438	WALL	DRYWALL	A	INTACT	WHITE	219	2	2	Negative	0
439	WALL	CONCRETE	B	INTACT	WHITE	219	2	2	Negative	0
440	WALL	CONCRETE	B	INTACT	WHITE	219	2	2	Negative	0
441	WALL	DRYWALL	C	INTACT	WHITE	219	2	2	Negative	0
442	WALL	DRYWALL	D	INTACT	WHITE	219	2	2	Negative	0
443	WALL	CONCRETE	B	INTACT	WHITE	219	2	3	Negative	0
444	WALL	DRYWALL	C	INTACT	WHITE	219	2	3	Negative	0.01
445	WALL	CONCRETE	D	INTACT	WHITE	219	2	3	Negative	0
446	WALL	CONCRETE	A	INTACT	YELLOW	219	2	4	Negative	0
447	WALL	CONCRETE	B	INTACT	YELLOW	219	2	4	Negative	0
448	WALL	DRYWALL	C	INTACT	YELLOW	219	2	4	Negative	0.02
449	WALL	DRYWALL	D	INTACT	YELLOW	219	2	4	Negative	0

Reading No.	COMPONENT	SUBSTRATE	SIDE	CONDITION	COLOR	SITE	FLOOR	ROOM	Results	PbC
450	WALL	CONCRETE	A	INTACT	YELLOW	219	2	5	Negative	0
451	WALL	DRYWALL	B	INTACT	YELLOW	219	2	5	Negative	0.03
452	WALL	DRYWALL	C	INTACT	YELLOW	219	2	5	Negative	0.01
453	WALL	DRYWALL	D	INTACT	YELLOW	219	2	5	Negative	0.17
454	WALL	DRYWALL	A	INTACT	YELLOW	219	2	6	Negative	0
455	WALL	DRYWALL	B	INTACT	YELLOW	219	2	6	Negative	0.5
456	WALL	DRYWALL	C	INTACT	YELLOW	219	2	6	Negative	0
457	WALL	CONCRETE	D	INTACT	YELLOW	219	2	6	Negative	0.01
458	DOOR	WOOD	A	INTACT	CLEAR COAT	219	2	6	Negative	0
459	DOOR JAMB	METAL	A	INTACT	BROWN	219	2	6	Negative	0.01
460	WALL	CONCRETE	A	INTACT	WHITE	224	2	1	Negative	0
461	WALL	CONCRETE	B	INTACT	WHITE	224	2	1	Negative	0
462	WALL	DRYWALL	C	INTACT	WHITE	224	2	1	Negative	0
463	WALL	CONCRETE	D	INTACT	WHITE	224	2	1	Negative	0
464	WALL	DRYWALL	A	INTACT	WHITE	224	2	2	Negative	0
465	WALL	DRYWALL	A	INTACT	WHITE	224	2	2	Negative	0
466	WALL	DRYWALL	A	INTACT	WHITE	224	2	2	Negative	0
467	WALL	CONCRETE	B	INTACT	WHITE	224	2	2	Negative	0
468	WALL	DRYWALL	C	INTACT	WHITE	224	2	2	Negative	0
469	WALL	DRYWALL	D	INTACT	WHITE	224	2	2	Negative	0
470	WALL	CONCRETE	A	INTACT	WHITE	224	2	3	Negative	0
471	WALL	CONCRETE	B	INTACT	WHITE	224	2	3	Negative	0
472	WALL	DRYWALL	C	INTACT	WHITE	224	2	3	Negative	0.02
473	WALL	DRYWALL	D	INTACT	WHITE	224	2	3	Negative	0.5
474	WALL	CONCRETE	A	INTACT	WHITE	224	2	4	Negative	0
475	WALL	DRYWALL	B	INTACT	WHITE	224	2	4	Negative	0
476	WALL	DRYWALL	B	INTACT	WHITE	224	2	4	Negative	0
477	WALL	DRYWALL	C	INTACT	WHITE	224	2	4	Negative	0
478	WALL	CONCRETE	D	INTACT	WHITE	224	2	4	Negative	0
479	DOOR	WOOD	A	INTACT	CLEAR COAT	224	2	4	Negative	0.01
480	DOOR JAMB	METAL	A	INTACT	BROWN	224	2	4	Negative	0.01
481	WALL	CONCRETE	A	INTACT	WHITE	2 HALL CENTER	2	HALL	Negative	0
482	WALL	CONCRETE	B	INTACT	ORANGE	2 HALL CENTER	2	HALL	Negative	0
483	WALL	CONCRETE	C	INTACT	WHITE	2 HALL CENTER	2	HALL	Negative	0
484	WALL	CONCRETE	D	INTACT	ORANGE	2 HALL CENTER	2	HALL	Negative	0

Reading No	COMPONENT	SUBSTRATE	SIDE	CONDITION	COLOR	SITE	FLOOR	ROOM	Results	PbC
485	ELEVATOR WALL	BRICK	A	INTACT	WHITE	2 HALL CENTER	2	HALL	Negative	0.01
486	ELEVATOR DOOR	METAL	A	INTACT	ORANGE	2 HALL CENTER	2	HALL	Negative	0.4
487	WALL	CONCRETE	A	INTACT	WHITE	119	1	1	Negative	0
488	WALL	DRYWALL	B	INTACT	WHITE	119	1	1	Negative	0
489	WALL	DRYWALL	C	INTACT	WHITE	119	1	1	Negative	0
490	WALL	CONCRETE	D	INTACT	WHITE	119	1	1	Negative	0
491	WALL	DRYWALL	A	INTACT	WHITE	119	1	2	Negative	0
492	WALL	CONCRETE	B	INTACT	WHITE	119	1	2	Negative	0
493	WALL	DRYWALL	C	INTACT	WHITE	119	1	2	Negative	0
494	WALL	DRYWALL	D	INTACT	WHITE	119	1	2	Negative	0
495	WALL	CONCRETE	A	INTACT	WHITE	119	1	3	Negative	0
496	WALL	CONCRETE	B	INTACT	WHITE	119	1	3	Negative	0
497	WALL	DRYWALL	C	INTACT	WHITE	119	1	3	Negative	0
498	WALL	CONCRETE	D	INTACT	WHITE	119	1	3	Negative	0
499	WALL	CONCRETE	A	INTACT	WHITE	119	1	4	Negative	0
500	WALL	CONCRETE	B	INTACT	WHITE	119	1	4	Negative	0
501	WALL	CONCRETE	C	INTACT	WHITE	119	1	4	Negative	0
502	WALL	DRYWALL	D	INTACT	WHITE	119	1	4	Negative	0
503	WALL	CONCRETE	A	INTACT	WHITE	119	1	5	Negative	0
504	WALL	DRYWALL	B	INTACT	WHITE	119	1	5	Negative	0
505	WALL	DRYWALL	C	INTACT	WHITE	119	1	5	Negative	0
506	WALL	DRYWALL	D	INTACT	WHITE	119	1	5	Negative	0
507	WALL	DRYWALL	A	INTACT	WHITE	119	1	6	Negative	0.09
508	WALL	CONCRETE	B	INTACT	WHITE	119	1	6	Negative	0
509	WALL	DRYWALL	C	INTACT	WHITE	119	1	6	Negative	0
510	WALL	CONCRETE	D	INTACT	WHITE	119	1	6	Negative	0
511	DOOR	WOOD	A	INTACT	CLEAR COAT	119	1	6	Negative	0.01
512	DOOR JAMB	METAL	A	INTACT	BROWN	119	1	6	Negative	0
513	WALL	CONCRETE	B	INTACT	WHITE	122	1	6	Negative	0.01
514	WALL	DRYWALL	C	INTACT	WHITE	122	1	1	Negative	0
515	WALL	CONCRETE	D	INTACT	WHITE	122	1	1	Negative	0
516	WALL	DRYWALL	A	INTACT	WHITE	122	1	1	Negative	0
517	WALL	DRYWALL	B	INTACT	WHITE	122	1	2	Negative	0
518	WALL	DRYWALL	C	INTACT	WHITE	122	1	2	Negative	0
519	WALL	CONCRETE	D	INTACT	WHITE	122	1	2	Negative	0

**STATE OF WASHINGTON**

Department of Community, Trade and Economic Development

Lead-Based Paint Program

**Antonio D Herrera**

**RISK ASSESSOR**

Has fulfilled the certification requirements of Washington Administrative code (WAC) 365-230 and has been certified to conduct lead-based paint activities pursuant to WAC 365-230-200 83.a

Certification # 0172      Issuance Date 4/8/2005      Expiration Date 9/8/2008



# Certificate of Achievement

Antonio Herrera  
NWL Laboratories, Inc.

*Has successfully completed the Manufacturer's Training Course  
for the NITON Spectrum Analyzer and is now certified  
in radiation safety and monitoring, measurement technology,  
and machine maintenance of the NITON XRF Spectrum Analyzer.  
(CIH's - The ABH Awards 1 CM point, approval # 05-396)*

A4061650823

Certificate Number

04/06/05 Seattle, WA

Date & Site of Course

*Marianne Grogan*

Training Coordinator

*Marianne Grogan*

Director of Training



## **Appendix A**

### **LABORATORY ANALYSIS REPORT**



# NVL Laboratories, Inc.

4708 Aurora Ave. N., Seattle, WA 98103  
Tel: 206.547.0100, Fax: 206.634.1936  
www.nvllabs.com



AIHA - IH # 101861  
WA - DOE # C1765

## Analysis Report

### Total Lead (Pb)

Client: NVL Field Services Division  
Address: 4708 Aurora Ave. N.  
Seattle, WA 98103

Attention: Mr. Syed Hasan

Project Location: "Center Park" 2121 26th Ave S Seattle, WA 98144

Batch #: 2714129.00

Matrix: Paint Chips

Method: EPA 7000B

Client Project #: 2007-730-7

Date Received: 10/01/2007

Samples Received: 10

Samples Analyzed: 10

Lab ID	Client Sample #	Sample Area (cm <sup>2</sup> )	RL in mg/cm <sup>2</sup>	Results mg/cm <sup>2</sup>
27092818	730-7-Pb-1	6.45	0.00200	< 0.00100
27092819	730-7-Pb-2	6.45	0.00200	< 0.00100
27092820	730-7-Pb-3	6.45	0.00200	< 0.00100
27092821	730-7-Pb-4	6.45	0.00200	< 0.00100
27092822	730-7-Pb-5	6.45	0.00200	< 0.00100
27092823	730-7-Pb-6	6.45	0.00200	0.00200
27092824	730-7-Pb-7	6.45	0.00200	< 0.00100
27092825	730-7-Pb-8	6.45	0.00200	0.00100
27092826	730-7-Pb-9	6.45	0.00200	0.00200
27092827	730-7-Pb-10	6.45	0.00200	< 0.00100

Sampled by: Client

Analyzed by: Tanveer Khan

Reviewed by: Nick Ly

Date Analyzed: 10/03/2007

Date Issued: 10/03/2007

A handwritten signature in black ink, appearing to read "Nick Ly".

Nick Ly, Technical Director

mg = Milligrams  
cm<sup>2</sup> = Square centimeter

RL = Reporting Limit  
'<' = Below the reporting Limit

Note: Method QC results are acceptable unless stated otherwise.

Unless otherwise indicated, the condition of all samples was acceptable at time of receipt.

**NVL Laboratories, Inc.**

4708 Aurora Ave N, Seattle, WA 98103  
 Tel: 206.547.0100 Emerg. Cell: 206.914.4646  
 1.888.NVL.LABS (685.5227) www.nvllabs.com

**CHAIN of CUSTODY  
 SAMPLE LOG**

BATCH ID  
**2714129.00**

Client NVL Laboratories Inc  
 Street 4708 Aurora Ave N  
Seattle, WA 98103  
 Project Manager Syed Hasan  
 Project Location "Center Park" 2121 26th Ave. S  
Seattle, WA 98144

NVL Batch Number \_\_\_\_\_  
 Client Job Number 2007-730-7  
 Total Samples 10  
 Turn Around Time  1-Hr  8-Hrs  2 Days  5 Days  
 2-Hrs  12-Hrs  3 Days  6-10 Day  
 4-Hrs  24-Hrs  4 Days  
 Please call for TAT less than 24 Hrs  
 Email address lharris@seattlehousing.org  
 Phone: (206) 716-1310 Fax: (206) 767-4350 Cell: (206) 255-8364

<input type="checkbox"/> Asbestos Air	<input type="checkbox"/> PCM (NIOSH 7400)	<input type="checkbox"/> TEM (NIOSH 7402)	<input type="checkbox"/> TEM (AHERA)	<input type="checkbox"/> TEM (EPA Level II)	<input type="checkbox"/> Other
<input type="checkbox"/> Asbestos Bulk	<input type="checkbox"/> PLM (EPA/600/R-93/116)	<input type="checkbox"/> PLM (EPA Point Count)	<input type="checkbox"/> PLM (EPA Gravimetry)	<input type="checkbox"/> TEM BULK	
<input type="checkbox"/> Mold/Fungus	<input type="checkbox"/> Mold Air	<input type="checkbox"/> Mold Bulk	<input type="checkbox"/> Rotometer Calibration		
<b>METALS</b>	<b>Det. Limit</b>	<b>Matrix</b>	<b>RCRA Metals</b>	<input type="checkbox"/> All 8	<b>Other Metals</b>
<input checked="" type="checkbox"/> Total Metals	<input checked="" type="checkbox"/> FAA (ppm)	<input type="checkbox"/> Air Filter	<input type="checkbox"/> Arsenic (As)	<input type="checkbox"/> Chromium (Cr)	<input type="checkbox"/> All 3
<input type="checkbox"/> TCLP	<input type="checkbox"/> ICP (ppm)	<input type="checkbox"/> Drinking water	<input type="checkbox"/> Barium (Ba)	<input checked="" type="checkbox"/> Lead (Pb)	<input type="checkbox"/> Copper (Cu)
<input type="checkbox"/> Cr 6	<input type="checkbox"/> GFAA (ppb)	<input type="checkbox"/> Dust/wipe (Area)	<input type="checkbox"/> Cadmium (Cd)	<input type="checkbox"/> Mercury (Hg)	<input type="checkbox"/> Nickel (Ni)
		<input checked="" type="checkbox"/> Paint Chips in cn			<input type="checkbox"/> Zinc (Zn)
<input type="checkbox"/> Other Types of Analysis	<input type="checkbox"/> Fiberglass <input type="checkbox"/> Silica <input type="checkbox"/> Nuisance Dust <input type="checkbox"/> Respirable Dust <input type="checkbox"/> Other (Specify) _____				

Condition of Package:  Good  Damaged (no spillage)  Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments	A/R
1		730-7-Pb-1	UNIT 507, Room 1, Side D	Inv <sup>2</sup>
2		-2	Room 2, Side B	
3		-3	Room 2, Side D	
4		-4	UNIT 609, Room 2, Side A	
5		-5	Room 2, Side B	
6		-6	Room 2, Side D	
7		-7	Room 3, Side B	
8		-8	Room 3, Side C	
9		-9	Room 3, Side D	
10		-10	UNIT 703, Room 2, Room Side C	
11				
12				
13				
14				
15				

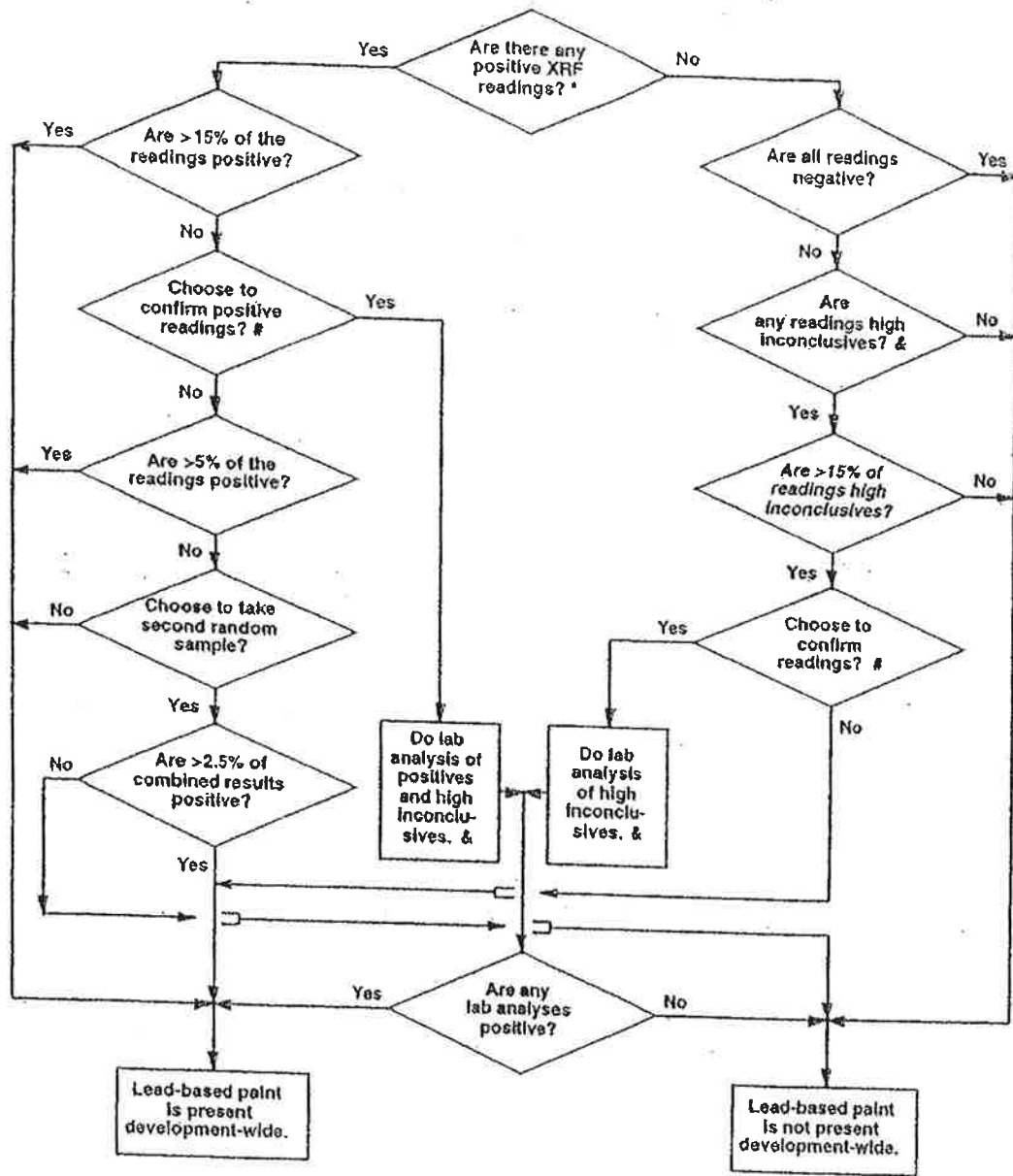
	Print Below	Sign Below	Company	Date	Time
Sampled by	S. Hasan	[Signature]	NVL	10-1-07	10:00 AM
Relinquished by	[Signature]	[Signature]	NVL		1:00 PM
Received by	[Signature]	[Signature]	NVL	10/01/07	12:30
Analyzed by	Tamzee Khan	Tamzee Khan	NVL	10-3-07	1:00 PM
Results Called by					
Results Faxed by					

**Special Instructions:** Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

Results report to



## **Appendix B HUD FLOW CHART**





## **Appendix C**

### **Risk Assessor Certification & Laboratory Qualifications**

**STATE OF WASHINGTON**

Department of Community, Trade and Economic Development  
Lead-Based Paint Program

**NVL Laboratories Inc.**

*Has fulfilled the certification requirements of Washington Administrative code (WAC) 365-230 and has been certified to conduct lead-based paint activities pursuant to WAC 365-230-200.*

<u>Certification #</u>	<u>Issuance Date</u>	<u>Expiration Date</u>
0291	4/10/2006	5/31/2009

Reading No COMPONENT SUBSTRATE SIDE CONDITION COLOR SITE FLOOR ROOM Results Pbc

Reading No	COMPONENT	SUBSTRATE	SIDE	CONDITION	COLOR	SITE	FLOOR	ROOM	Results	Pbc
520	WALL	CONCRETE	A	INTACT	WHITE	122	1	3	Negative	0
521	WALL	DRYWALL	B	INTACT	WHITE	122	1	3	Negative	0
522	WALL	DRYWALL	C	INTACT	WHITE	122	1	3	Negative	0.06
523	WALL	CONCRETE	D	INTACT	WHITE	122	1	3	Negative	0
524	WALL	CONCRETE	A	INTACT	WHITE	122	1	4	Negative	0
525	WALL	CONCRETE	B	INTACT	WHITE	122	1	4	Negative	0
526	WALL	DRYWALL	C	INTACT	WHITE	122	1	4	Negative	0
527	WALL	DRYWALL	D	INTACT	WHITE	122	1	4	Negative	0
528	DOOR	WOOD	A	INTACT	CLEAR COAT	122	1	4	Negative	0
529	DOOR JAMB	METAL	A	INTACT	BROWN	122	1	4	Negative	0.01
530	WALL	CONCRETE	A	INTACT	WHITE	1 HALL CENTER	1	HALL	Negative	0
531	WALL	CONCRETE	B	INTACT	ORANGE	1 HALL CENTER	1	HALL	Negative	0
532	WALL	CONCRETE	C	INTACT	WHITE	1 HALL CENTER	1	HALL	Negative	0
533	WALL	DRYWALL	D	INTACT	ORANGE	1 HALL CENTER	1	HALL	Negative	0
534	PIPE	METAL	D	INTACT	WHITE	1 HALL CENTER	1	HALL	Negative	0.04
535	ELEVATOR WALL	DRYWALL	C	INTACT	WHITE	1 HALL CENTER	1	HALL	Negative	0.04
536	ELEVATOR DOOR	METAL	C	INTACT	ORANGE	1 HALL CENTER	1	HALL	Negative	0.7
537	WALL	CONCRETE	A	INTACT	WHITE	1 LAUNDRY	1	LAUNDRY	Negative	0
538	WALL	CONCRETE	B	INTACT	WHITE	1 LAUNDRY	1	LAUNDRY	Negative	0
539	WALL	DRYWALL	C	INTACT	WHITE	1 LAUNDRY	1	LAUNDRY	Negative	0
540	WALL	CONCRETE	D	INTACT	WHITE	1 LAUNDRY	1	LAUNDRY	Negative	0.02
541	CEILING	DRYWALL	D	INTACT	WHITE	1 LAUNDRY	1	LAUNDRY	Negative	0
542	DOOR	WOOD	A	INTACT	CLEAR COAT	1 LAUNDRY	1	LAUNDRY	Negative	0.01
543	DOOR JAMB	METAL	A	INTACT	BROWN	1 LAUNDRY	1	LAUNDRY	Negative	0.01
544	WALL	CONCRETE	A	INTACT	WHITE	COMMUNITY ROOM	2	1	Negative	0
545	WALL	CONCRETE	B	INTACT	WHITE	COMMUNITY ROOM	2	1	Negative	0
546	WALL	DRYWALL	C	INTACT	WHITE	COMMUNITY ROOM	2	1	Negative	0
547	WALL	DRYWALL	D	INTACT	WHITE	COMMUNITY ROOM	2	1	Negative	0.4
548	WALL	CONCRETE	A	INTACT	WHITE	COMMUNITY ROOM	2	2	Negative	0
549	WALL	DRYWALL	B	INTACT	WHITE	COMMUNITY ROOM	2	2	Negative	0
550	WALL	DRYWALL	C	INTACT	WHITE	COMMUNITY ROOM	2	2	Negative	0.7
551	WALL	DRYWALL	D	INTACT	WHITE	COMMUNITY ROOM	2	2	Negative	0.01
552	WALL	DRYWALL	B	INTACT	WHITE	COMMUNITY ROOM	2	3	Negative	0
553	WALL	DRYWALL	C	INTACT	WHITE	COMMUNITY ROOM	2	3	Negative	0
554	WALL	CONCRETE	D	INTACT	WHITE	COMMUNITY ROOM	2	3	Negative	0

Reading No.	COMPONENT	SUBSTRATE	SIDE	CONDITION	COLOR	SITE	FLOOR	ROOM	Results	PbC
555	PIPE	METAL	B	INTACT	WHITE	COMMUNITY ROOM	2	2	Negative	0.06
556	WALL	CONCRETE	A	INTACT	WHITE	LIBRARY	2	1	Negative	0.5
557	WALL	CONCRETE	B	INTACT	WHITE	LIBRARY	2	1	Negative	0
558	WALL	DRYWALL	C	INTACT	WHITE	LIBRARY	2	1	Negative	0.03
560	WALL	CONCRETE	D	INTACT	WHITE	LIBRARY	2	1	Negative	0
561	WALL	CONCRETE	A	INTACT	WHITE	LIBRARY	2	2	Negative	0
562	WALL	CONCRETE	B	INTACT	WHITE	LIBRARY	2	2	Negative	0
563	WALL	DRYWALL	C	INTACT	WHITE	LIBRARY	2	2	Negative	0.27
564	WALL	CONCRETE	D	INTACT	WHITE	LIBRARY	2	2	Negative	0
565	WALL	CONCRETE	D	INTACT	WHITE	LIBRARY	2	2	Negative	0
566	FLOOR	CONCRETE	C	INTACT	GRAY	BACK DECK	2	OUTSIDE	Negative	0
567	HALF WALL	CONCRETE	C	INTACT	GRAY	BACK DECK	2	OUTSIDE	Negative	0
568	RAILING	METAL	C	INTACT	WHITE	BACK DECK	2	OUTSIDE	Negative	0.8
569	TABLE	WOOD	C	INTACT	GREEN	BACK DECK	2	OUTSIDE	Negative	0
570	STAIR RAIL	METAL	C	INTACT	BROWN	NORTH STAIRS	2	STAIR	Negative	0.01
571	WINDOW BARS	METAL	C	INTACT	WHITE	NORTH STAIRS	2	STAIR	Negative	0
572	WALL	DRYWALL	A	INTACT	WHITE	NORTH STAIRS	2	STAIR	Negative	0.02
573			CALIBRATE						Positive	1.1
574			CALIBRATE						Positive	1.1
575			CALIBRATE						Positive	1.2





# Appendix B

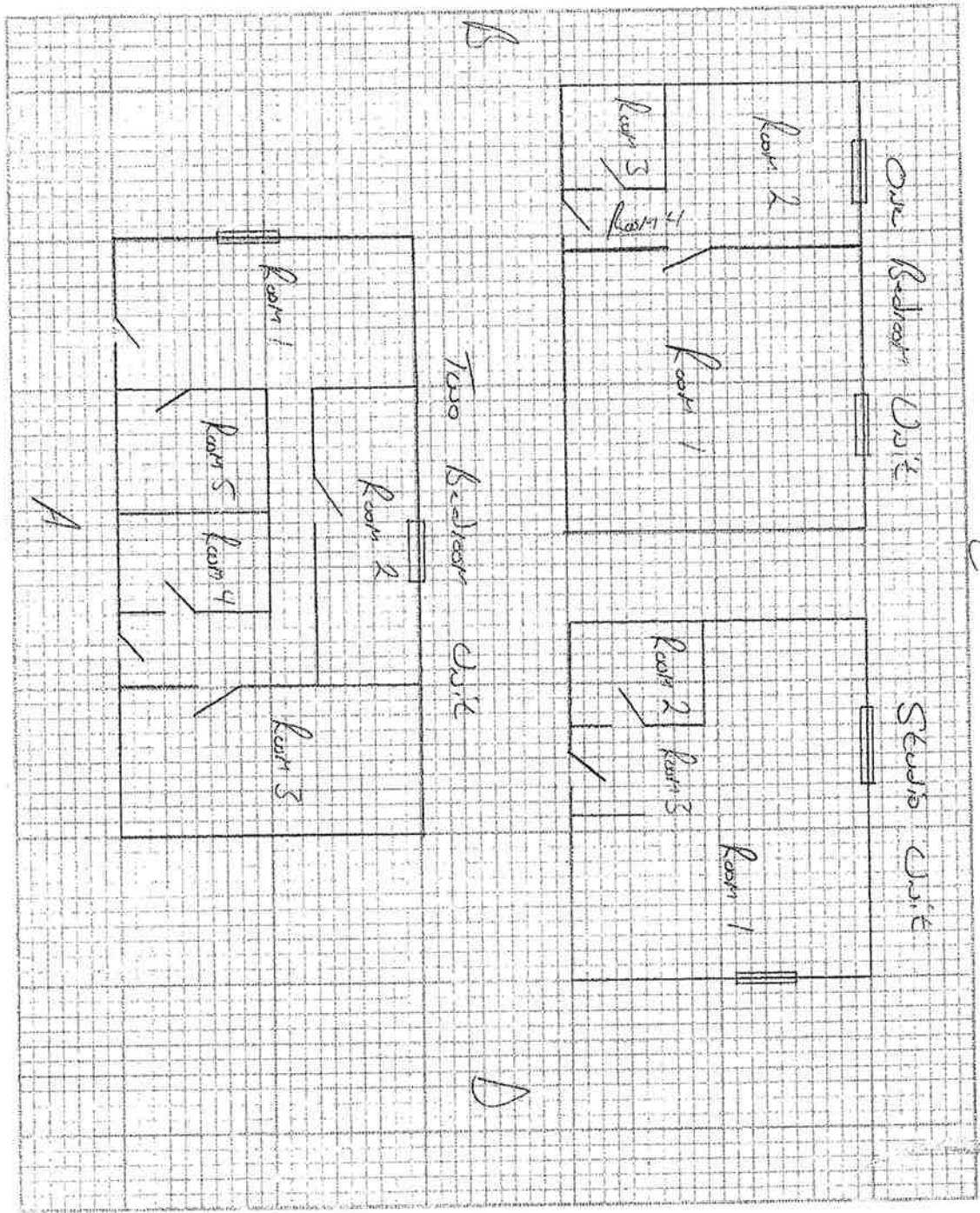
## FLOOR PLAN



4708 AURORA AVE N SEATTLE WA 98103.6516  
TEL 206.547.0100 FAX 206.634.1936

Page 1 of 2  
Proj # 2007-382  
Date 5/25/07  
Made by AN

Location Center Park Apartments  
Client Seattle Housing Authority



ASBESTOS, LEAD, HEAVY METALS, PCB, MOLD  
Testing • Sampling • Inspection

www.nvlabs.com  
1.888.NVL.LABS (695.9227)

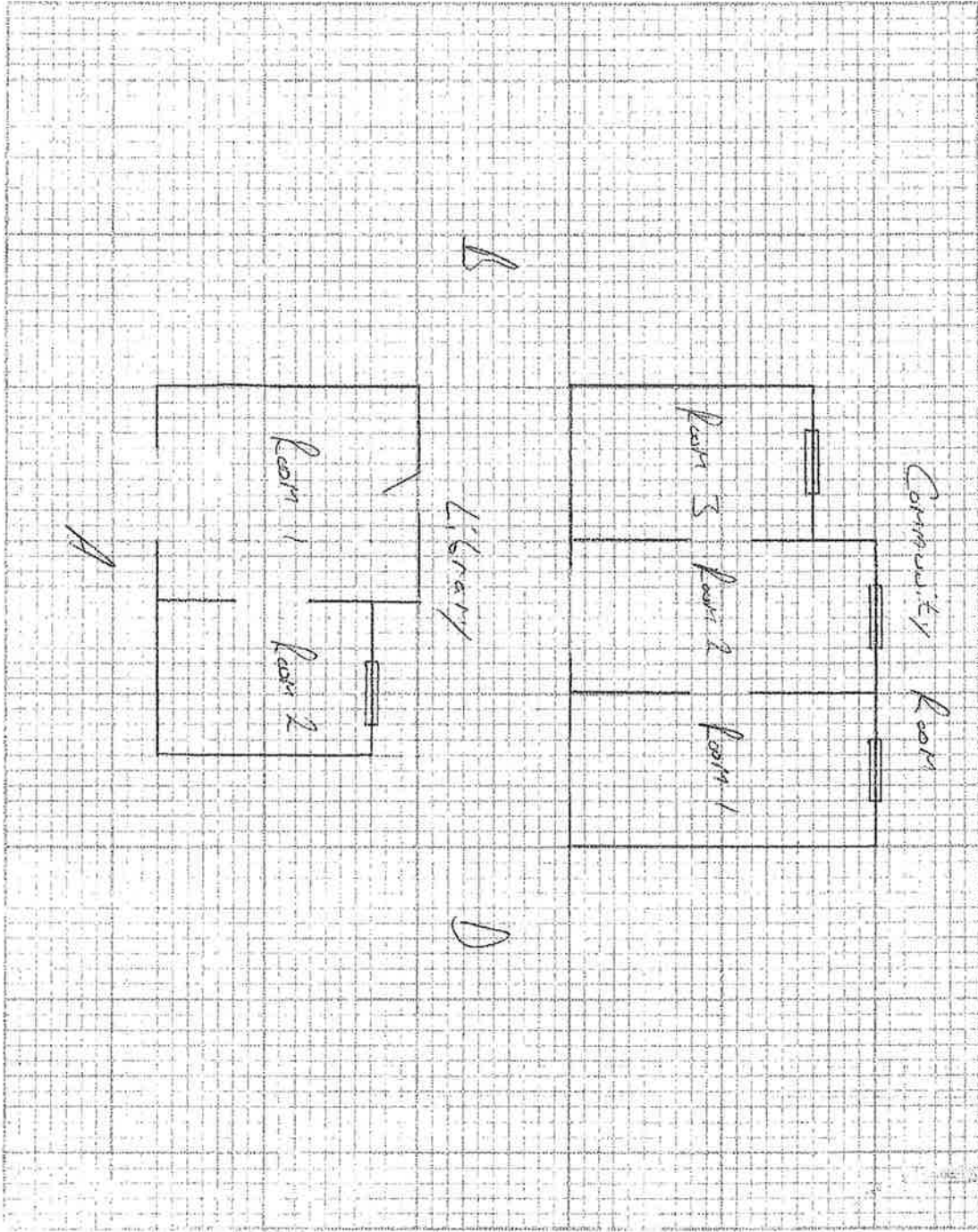
*Your project partner!*



4708 AURORA AVE N SEATTLE, WA 98103 8516  
TEL 206.547.0100 FAX 206.634.1936

Page 2 of 2  
Proj # 2007-382  
Date 5/25/07  
Made by AH

Location Carter Park Apartments  
Client Seattle Housing Authority



ASBESTOS, LEAD, PCB METALS, PCP, MOLE

Test by 3rd Party Inspection

Water Project Analysis

www.nvllabs.com

1.888.NVL.LABS (695.5027)



## **Appendix C**

### **Risk Assessor Certification & Laboratory Qualifications**

**STATE OF WASHINGTON**

Department of Community, Trade and Economic Development  
Lead-Based Paint Program

**NVL Laboratories Inc.**

*Has fulfilled the certification requirements of Washington Administrative code (WAC) 365-230 and has been certified to conduct lead-based paint activities pursuant to WAC 365-230-200.*

Certification #	Issuance Date	Expiration Date
0291	4/10/2006	5/31/2009



HAZARDOUS  
MATERIALS  
SERVICES

ORIGINAL

October 15, 2007

Ms. Lorrie Harris  
Seattle Housing Authority  
7500 Detroit Ave. S.W.  
Seattle, WA 98126

Subject: Confirmatory Testing at "Center Park"  
Located @ 2121 26<sup>th</sup> Ave. S., Seattle, WA 98144

**INTRODUCTION**

As a follow up of lead-based paint inspection conducted on Center Park by NVL Laboratories Inc, Mr. Syed Hasan (CTED Certified Lead Risk Assessor) conducted confirmatory paint chip sampling of "Positive Testing Combinations" of the subject property on October 1, 2007.

Initial lead-based paint inspection was conducted using a Niton XLP 300A spectrum analyzer, serial number 31566NR8116. Painted surfaces were evaluated for presence of Lead-Based Paint.

As per options available in the attached HUD guideline flow chart, paint chip sampling method was chosen to confirm all positive readings. Known area of paint chip samples were collected from the testing combinations which had earlier tested positive for lead-based paint during XRF inspection. These paint chip samples were then analyzed using flame atomic absorption (FAA), method EPA 700B for total lead (Pb) content.

Following are the results of paint chip samples collected on October 1, 2007.

**Sample Results**

SAMPLE #	LOCATION*	RESULTS (mg/cm <sup>2</sup> )	LESS THEN REGULATORY LIMIT OF 1 mg/cm <sup>2</sup>
730-7-Pb-1	Unit 507, Room 1, Side D	<0.00100	Yes
730-7-Pb-2	Unit 507, Room2, Side B	<0.00100	Yes
730-7-Pb-3	Unit 507, Room 2, Side D	<0.00100	Yes
730-7-Pb-4	Unit 609, Room 2, Side A	<0.00100	Yes

### Sample Results (continued)

SAMPLE #	LOCATION*	RESULTS (mg/cm <sup>2</sup> )	LESS THEN REGULATORY LIMIT OF 1 mg/cm <sup>2</sup>
730-7-Pb-5	Unit 609, Room 2, Side B	<0.00100	Yes
730-7-Pb-6	Unit 609, Room 2, Side D	0.00200	Yes
730-7-Pb-7	Unit 609, Room 3, Side B	<0.00100	Yes
730-7-Pb-8	Unit 609, Room 3, Side C	0.00100	Yes
730-7-Pb-9	Unit 609, Room 3, Side D	0.00200	Yes
730-7-Pb-10	Unit 703, Room 2, Side C	<0.00100	Yes

\* Floor plan/testing combination as per initial XRF testing

### CONCLUSION

The confirmatory paint chip sample results indicate that **NONE** of the testing combination is above EPA/CTED threshold of 1.0 mg/cm<sup>2</sup>. Please refer to attached HUD Flow Chart (Appendix B)

## LIMITATIONS

This limited Lead-Based Paint Inspection Report has been prepared for the exclusive use of the Client named herein at the specified Site Address. Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. NVL Laboratories, Inc. (NVL) accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report. This report is based upon and conducted in accordance with HUD Guidelines and EPA rules in effect at the time of this inspection. NVL has no duty to update this report based on subsequent regulatory changes.

NVL also notes that the facts and conditions referenced in this report may change overtime, and that the conclusions set forth here are applicable to the facts and conditions as described at the time of this report. We believe that the conditions stated here are factual, but no guarantee is made or implied.

This document is the sole property of NVL Laboratories and the property owner, or his agent, authorizing this Inspection. If you have any further questions, please do not hesitate to contact me at 206-547-0100.

Sincerely,



Syed Hasan  
Manager Field Services  
Washington Risk Assessor certification # 0171  
Expiration Date: Dec 12, 2008

Enclosed: Appendix A: Laboratory Analysis report  
Appendix B: HUD Flow Chart  
Appendix C: Certifications





## **Appendix A**

### **LABORATORY ANALYSIS REPORT**

# NVL Laboratories, Inc.

4708 Aurora Ave. N., Seattle, WA 98103  
Tel: 206.547.0100, Fax: 206.634.1936  
www.nvllabs.com

AIHA - IH # 101861  
WA - DOE # C1765



## Analysis Report

### Total Lead (Pb)

Client: NVL Field Services Division

Address: 4708 Aurora Ave. N.  
Seattle, WA 98103

Attention: Mr. Syed Hasan

Project Location: "Center Park" 2121 26th Ave S Seattle, WA 98144

Batch #: 2714129.00

Matrix: Paint Chips

Method: EPA 7000B

Client Project #: 2007-730-7

Date Received: 10/01/2007

Samples Received: 10

Samples Analyzed: 10

Lab ID	Client Sample #	Sample Area (cm <sup>2</sup> )	RL in mg/cm <sup>2</sup>	Results mg/cm <sup>2</sup>
27092818	730-7-Pb-1	6.45	0.00200	< 0.00100
27092819	730-7-Pb-2	6.45	0.00200	< 0.00100
27092820	730-7-Pb-3	6.45	0.00200	< 0.00100
27092821	730-7-Pb-4	6.45	0.00200	< 0.00100
27092822	730-7-Pb-5	6.45	0.00200	< 0.00100
27092823	730-7-Pb-6	6.45	0.00200	0.00200
27092824	730-7-Pb-7	6.45	0.00200	< 0.00100
27092825	730-7-Pb-8	6.45	0.00200	0.00100
27092826	730-7-Pb-9	6.45	0.00200	0.00200
27092827	730-7-Pb-10	6.45	0.00200	< 0.00100

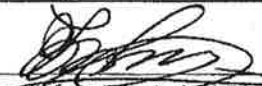
Sampled by: Client

Analyzed by: Tanveer Khan

Reviewed by: Nick Ly

Date Analyzed: 10/03/2007

Date Issued: 10/03/2007

  
Nick Ly, Technical Director

mg = Milligrams

cm<sup>2</sup> = Square centimeter

RL = Reporting Limit

'<' = Below the reporting Limit

Note: Method QC results are acceptable unless stated otherwise.

Unless otherwise indicated, the condition of all samples was acceptable at time of receipt.

**NVL Laboratories, Inc.**

4708 Aurora Ave N, Seattle, WA 98103  
 Tel: 206.547.0100 Emerg. Cell: 206.914.4646  
 1.888.NVL.LABS (685.5227) www.nvllabs.com

**CHAIN of CUSTODY  
 SAMPLE LOG**

BATCH ID  
**2714129.00**

Client NVL Laboratories Inc  
 Street 4708 Aurora Ave N  
Seattle, WA 98103  
 Project Manager Syed Hasan  
 Project Location "Center Park" 2121 26th Ave. S.  
Seattle, WA 98144

NVL Batch Number \_\_\_\_\_  
 Client Job Number 2007-730 - 7  
 Total Samples 10  
 Turn Around Time  1-Hr  8-Hrs  2 Days  5 Days  
 2-Hrs  12-Hrs  3 Days  6-10 Day  
 4-Hrs  24-Hrs  4 Days

Please call for TAT less than 24 Hrs

Email address lharris@seattlehousing.org

Phone: (206) 716-1310 Fax: (206) 767-4350

Cell: (206) 255-8364

<input type="checkbox"/> Asbestos Air	<input type="checkbox"/> PCM (NIOSH 7400)	<input type="checkbox"/> TEM (NIOSH 7402)	<input type="checkbox"/> TEM (AHERA)	<input type="checkbox"/> TEM (EPA Level II)	<input type="checkbox"/> Other
<input type="checkbox"/> Asbestos Bulk	<input type="checkbox"/> PLM (EPA/600/R-93/116)	<input type="checkbox"/> PLM (EPA Point Count)	<input type="checkbox"/> PLM (EPA Gravimetry)	<input type="checkbox"/> TEM BULK	
<input type="checkbox"/> Mold/Fungus	<input type="checkbox"/> Mold Air	<input type="checkbox"/> Mold Bulk	<input type="checkbox"/> Rotometer Calibration		
<b>METALS</b>	<b>Det. Limit</b>	<b>Matrix</b>	<b>RCRA Metals</b>	<input type="checkbox"/> All 8	<b>Other Metals</b>
<input checked="" type="checkbox"/> Total Metals	<input checked="" type="checkbox"/> FAA (ppm)	<input type="checkbox"/> Air Filter	<input type="checkbox"/> Arsenic (As)	<input type="checkbox"/> Chromium (Cr)	<input type="checkbox"/> All 3
<input type="checkbox"/> TCLP	<input type="checkbox"/> ICP (ppm)	<input type="checkbox"/> Drinking water	<input type="checkbox"/> Barium (Ba)	<input checked="" type="checkbox"/> Lead (Pb)	<input type="checkbox"/> Copper (Cu)
<input type="checkbox"/> Cr 6	<input type="checkbox"/> GFAA (ppb)	<input type="checkbox"/> Dust/wipe (Area)	<input type="checkbox"/> Cadmium (Cd)	<input type="checkbox"/> Mercury (Hg)	<input type="checkbox"/> Nickel (Ni)
		<input checked="" type="checkbox"/> Paint Chips in cn			<input type="checkbox"/> Zinc (Zn)
<input type="checkbox"/> Other Types of Analysis	<input type="checkbox"/> Fiberglass	<input type="checkbox"/> Silica	<input type="checkbox"/> Nuisance Dust	<input type="checkbox"/> Respirable Dust	<input type="checkbox"/> Other (Specify) _____

Condition of Package:  Good  Damaged (no spillage)  Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments	A/R
1		730-7-Pb-1	Unit 507, Room 1, Side D	INC 2
2		-2	Room 2, Side B	
3		-3	Room 2, Side D	
4		-4	Unit 609, Room 2, Side A	
5		-5	Room 2, Side B	
6		-6	Room 2, Side D	
7		-7	Room 3, Side B	
8		-8	Room 3, Side C	
9		-9	Room 3, Side D	
10		-10	Unit 703, Room 2, Side C	
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12				
13				
14				
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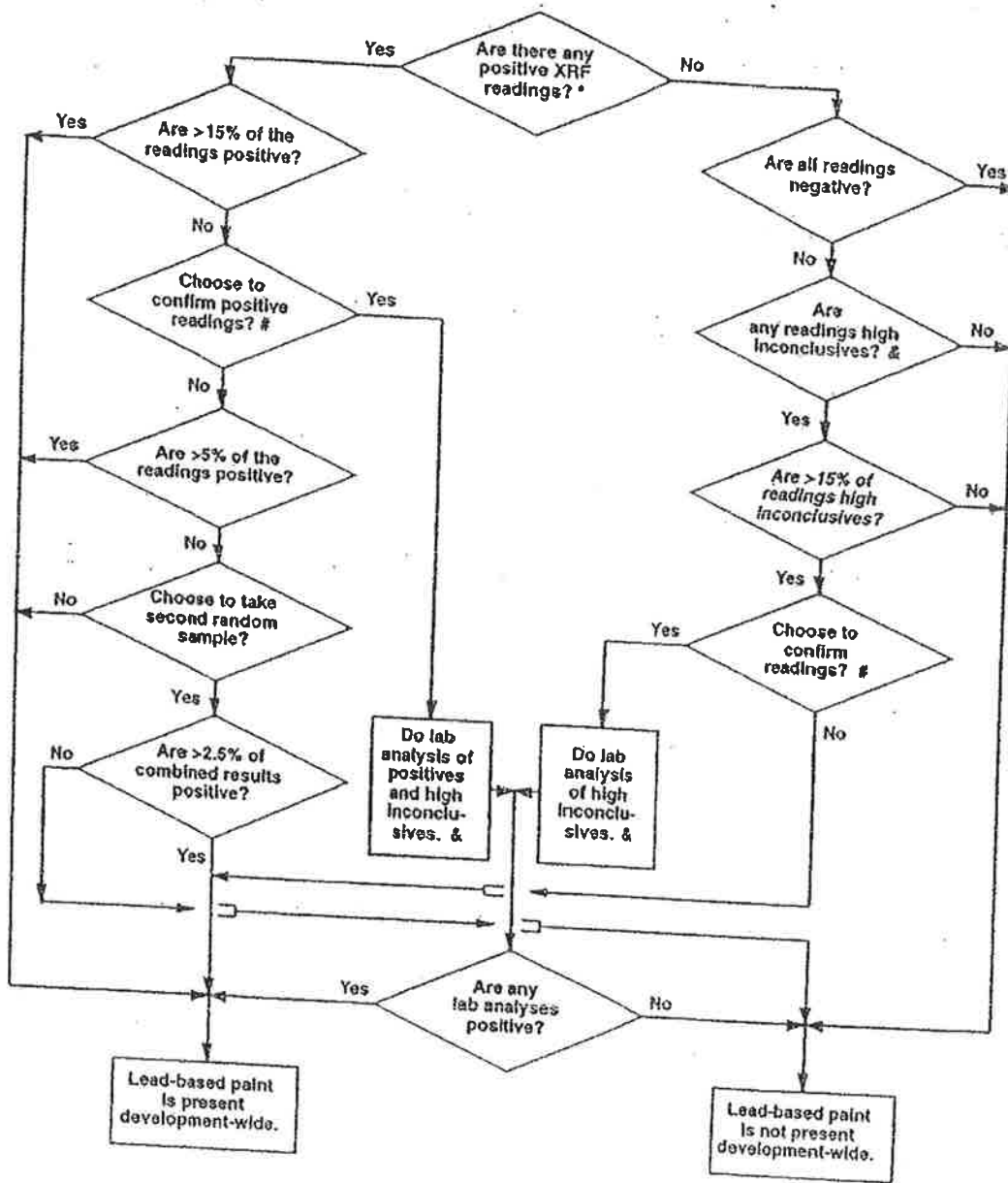
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Sampled by	S. Hasan	[Signature]	NVL	10-1-07	10:00 AM
Relinquished by	[Signature]	[Signature]	NVL		1:00 PM
Received by	[Signature]	[Signature]	NVL	10/01/07	12:30
Analyzed by	Tawees Khan	Tawees Khan	NVL	10-3-07	1:00 PM
Results Called by					
Results Faxed by					

**Special Instructions:** Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

Results report to



**Appendix B**  
**HUD FLOW CHART**





## **Appendix C**

### **Risk Assessor Certification & Laboratory Qualifications**

**STATE OF WASHINGTON**

Department of Community, Trade and Economic Development  
Lead-Based Paint Program

**NVL Laboratories Inc.**

*Has fulfilled the certification requirements of Washington Administrative code (WAC) 365-230 and has been certified to conduct lead-based paint activities pursuant to WAC 365-230-1200.*

Certification #	Issuance Date	Expiration Date
0291	4/10/2006	5/31/2009



**LABORATORY QUALITY ASSURANCE PROGRAMS**

**AIHA**

*Your Essential Connection: Advancing Occupational and Environmental Health and Safety Globally*

2700 Prosperity Ave., Suite 250, Fairfax, VA 22031 U.S.A.  
(703) 849-8888; Fax (703) 207-3561; www.aiha.org

## AIHA Laboratory Quality Assurance Programs SCOPE OF ACCREDITATION

**NVL Laboratories, Inc.**  
4708 Aurora Avenue North, Seattle, WA 98103

Laboratory ID: **101861**  
Issue Date: 08/09/2006

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or revocation. A complete listing of currently accredited Industrial Hygiene laboratories is available on the AIHA website at:  
<http://www.aiha.org/Content/LOAP/accred/AccreditedLabs.htm>

The EPA recognizes the AIHA ELLAP program as meeting the requirements of the National Lead Laboratory Accreditation Program (NLLAP) established under Title X of the Residential Lead-Based Paint Hazard Reduction Act of 1992 and includes paint, soil and dust wipe analysis. Air analysis is not included as part of the NLLAP.

### Environmental Lead Laboratory Accreditation Program (ELLAP)

**Initial Accreditation Date: 02/07/1997**

Field of Testing (FoT)	Method	Method Description <i>(for internal methods only)</i>
Airborne Dust	NIOSH 7082	
Paint	EPA SW-846 7000B	
Settled Dust by Wipe	EPA SW-846 7000B	
Soil	EPA SW-846 7000B	

**The laboratory participates in the following AIHA testing programs:**

- ✓ Paint
- ✓ Soil
- ✓ Airborne Dust
- ✓ Settled Dust by Wipe



**STATE OF WASHINGTON**

Department of Community, Trade and Economic Development  
Lead-Based Paint Program

**Syed K Hasan**

Has fulfilled the certification requirements of Washington Administrative code (WAC) 365-230 and has been certified to conduct lead-based paint activities pursuant to WAC 365-230-290 as a:

Risk Assessor

Certification # 0171 Issuance Date 12/16/2005 Expiration Date 12/12/2008

January 29, 2008

Lorrie Harris  
**Seattle Housing Authority**  
7500 Detroit Ave. SW  
Seattle, WA 98126



**RE: Metals Analysis; NVL Batch # 2801128.00**

Dear Ms. Harris,

Enclosed please find the test results for samples submitted to our laboratory for analysis. Examination of these samples was conducted using analytical instruments in accordance to U.S. EPA, NIOSH, OSHA and other ASTM methods.

For matrix materials submitted as paint, dust wipe, soil or TCLP samples, analysis for the presence of total metals is conducted using published U.S. EPA Methods. Paint and soil results are usually expressed in mg/Kg which is equivalent to parts per million (ppm). Lead (Pb) in paint is usually expressed in mg/Kg (ppm), Percent (%) or mg/cm<sup>2</sup> by area. Dust wipe sample results are usually expressed in ug/wipe and ug/ft<sup>2</sup>. TCLP samples are reported in mg/L (ppm). For air filter samples, analyses are conducted using NIOSH and OSHA Methods. Results are expressed in ug/filter and ug/m<sup>3</sup>. Other matrix materials are analyzed accordingly using published methods or specified by client. The reported test results pertain only to items tested. Lead test results are not blank corrected.

For recent regulation updates pertaining to current regulatory levels or permissible exposure levels, please call your local regulatory agencies for more details.

This report is considered highly confidential and will not be released without your approval. Samples are archived for two weeks following analysis. Samples that are not retrieved by the client are discarded after two weeks.

Thank you for using our laboratory services. If you need further assistance please feel free to call us at 206-547-0100 or 1-888-NVLLABS.

Sincerely,

A handwritten signature in black ink, appearing to read 'Nick Ly', is written over a circular stamp.

Nick Ly, Technical Director

Enclosure:



AIHA - IH  
#101861

NVL LABORATORIES, INC  
4709 AURORA AVE N  
SEATTLE, WA 98103.6516  
TEL 206.547.0100  
FAX 206.634.1936  
nvlabs@nvlabs.com

The logo for NVL LABS features the letters 'NVL' in a large, bold, sans-serif font, with 'LABS' in a smaller font below it. To the right of 'LABS' is a small graphic of a person. Below the main text, the words 'HAZARDOUS MATERIALS SERVICES' are stacked in a smaller, all-caps font.

www.nvlabs.com  
1.888.NVL.LABS (698.5227)

**NVL Laboratories, Inc.**

4708 Aurora Ave N, Seattle, WA 98103  
 Tel: 206.547.0100 Emerg. Cell: 206.914.4646  
 Fax: 206.634.1936 1.888.NVL.LABS (685.5227)

**CHAIN of CUSTODY  
 SAMPLE LOG**

BATCH ID  
**2801128.00**

Client Seattle Housing Authority  
 Street 7500 Detroit Ave. SW  
Seattle, WA 98126  
 Project Manager Ms. Lorrie Harris  
 Project Location 010 Center Park  
Basement floor

NVL Batch Number \_\_\_\_\_  
 Client Job Number 72432  
 Total Samples 2  
 Turn Around Time  1-Hr  8-Hrs  2 Days  5 Days  
 2-Hrs  12-Hrs  3 Days  6-10 Day  
 4-Hrs  24-Hrs  4 Days

Phone: (206) 716-1310 Fax: (206) 767-4350

Please call for TAT less than 24 Hrs  
 Email address lharris@seattlehousing.org  
 Cell: (206) 255-8364

Asbestos Air  PCM (NIOSH 7400)  TEM (NIOSH 7402)  TEM (AHERA)  TEM (EPA Level II)  Other

Asbestos Bulk  PLM (EPA/600/R-93/116)  PLM (EPA Point Count)  PLM (EPA Gravimetry)  TEM BULK

Mold/Fungus  Mold Air  Mold Bulk  Rotometer Calibration

**METALS**  
 Total Metals  
 TCLP

Det. Limit  
 FAA (ppm)  
 ICP (ppm)  
 GFAA (ppl)

Matrix  
 Air Filter  Soil  
 Drinking water  Paint Chips in %  
 Dust/wipe (Area)  Paint Chips in cr

RCRA Metals  
 Arsenic (As)  Chromium (Cr)  
 Barium (Ba)  Lead (Pb)  
 Cadmium (Cd)  Mercury (Hg)

Other Metals  
 All 3  
 Copper (Cu)  
 Nickel (Ni)  
 Zinc (Zn)

Other Types of Analysis  
 Fiberglass  Silica  Nuisance Dust  Respirable Dust  Other (Specify) \_\_\_\_\_

Condition of Package:  Good  Damaged (no spillage)  Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments (e.g Sample are, Sample Volume, etc)	A/R
1		010 Basement LB01	Floor @ elevator Basement	
2		02	" @ C wall edge Basement	
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

	Print Below	Sign Below	Company	Date	Time
Sampled by	Lorrie Harris	Lorrie Harris	SHA	1/29/08	11: AM
Relinquished by	"	"	"	1/28/08	11:50
Received by	K. Austin	[Signature]	NVL	1/28/08	11:50
Analyzed by	Mr. Douglbeety	[Signature]	NVL	1/29/08	10:50
Results Called by					
Results Faxed by					

**Special Instructions:** Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

# NVL Laboratories, Inc.

4708 Aurora Ave. N., Seattle, WA 98103  
Tel: 206.547.0100, Fax: 206.634.1936  
www.nvllabs.com



## Analysis Report

AIHA - IH # 101861  
WA - DOE # C1765

### Total Lead (Pb)

Client: Seattle Housing Authority  
Address: 7500 Detroit Ave. SW  
Seattle, WA 98126

**Batch #: 2801128.00**

Matrix: Paint Chips

Method: EPA 7000B

Client Project #: 72432

Date Received: 01/28/2008

Samples Received: 2

Samples Analyzed: 2

**Attention: Ms. Lorrie Harris**

Project Location: 010 Center Park  
Basement Floor

Lab ID	Client Sample #	Sample Weight	RL in mg/Kg	Results in mg/Kg	Results in percent
28006397	010 BasementLB01	0.2426	38.0	7300.0	0.7300
28006398	010 BasementLB02	0.1966	47.0	19000.0	1.9000

Sampled by: Client

Analyzed by: Michael Dougherty

Reviewed by: Nick Ly

Date Analyzed: 01/29/2008

Date Issued: 01/29/2008

  
Nick Ly, Technical Director

mg/ Kg =Milligrams per kilogram

Percent = Milligrams per kilogram / 10000

Note : Method QC results are acceptable unless stated otherwise.

Unless otherwise indicated, the condition of all samples was acceptable at time of receipt.

RL = Reporting Limit

'<' = Below the reporting Limit

**Contract No. 5077**

**CONSTRUCTION AND MAINTENANCE SERVICES**

for

**Center Park Spalling Concrete Repair**

This Contract is made and entered into as of the last signature date below between the Seattle Housing Authority, a public body corporate and politic, hereinafter referred to as "Owner," and Contractor To Be Determined, hereinafter referred to as the "Contractor." The Contractor and the Owner agree as follows:

**SECTION 1:** This Contract incorporates by reference and is subject to the following as though fully included herein, whether attached or not attached:

- The Contractor's response to the Request for Bids (by Fax) (attached)
- Attachment A, version 2 (attached)
- Technical scope of work included as part of the Request for Bids (by Fax)
- Owner's General Conditions
- Prevailing wage rates as established in Washington State Prevailing Wage, effective date 5/10/18

**SECTION 2:** The Contractor shall perform or cause to be performed all work and shall furnish or cause to be furnished all labor, materials, tools, and equipment necessary to complete the above-referenced project in strict accordance with the Contract Documents and documents described in Section 1 above for the following Contract Sum:

Base Bid	\$
Additive No.(s)	\$
Deductive No.(s)	\$
Subtotal	\$
Sales Tax	\$
Contract Sum	\$

**SECTION 3:** The Contractor shall begin the work of the Contract immediately after receipt of a written Notice to Proceed issued by the Owner, and to perform the work regularly and without interruption thereafter (unless the Owner shall otherwise, in writing, specifically direct) with such forces as necessary to complete said work in a manner acceptable to the owner within 125 consecutive calendar days from the date of the Notice to Proceed.

The parties have executed this Contract by having their authorized representatives sign below.

**Seattle Housing Authority**  
190 Queen Anne Avenue North  
P.O. Box 19028  
Seattle, WA 98109-1028

By: \_\_\_\_\_

Date

By: \_\_\_\_\_

Date

Contracts & Procurement Manager

CENTER PARK SPALLING CONCRETE REPAIR  
SEATTLE WA  
SHA SOLICITATION #5077

INFORMAL SOLICITATION  
PREVAILING WAGE SCHEDULES

## WAGE RATE SCHEDULE

Washington State Prevailing Wage, Effective Date 5/10/18

**State of Washington**  
**Department of Labor & Industries**  
 Prevailing Wage Section - Telephone 360-902-5335  
 PO Box 44540, Olympia, WA 98504-4540

**Washington State Prevailing Wage**

The PREVAILING WAGES listed here include both the hourly wage rate and the hourly rate of fringe benefits. On public works projects, worker's wage and benefit rates must add to not less than this total. A brief description of overtime calculation requirements are provided on the Benefit Code Key.

**Journey Level Prevailing Wage Rates for the Effective Date: 5/10/2018**

<u>County</u>	<u>Trade</u>	<u>Job Classification</u>	<u>Wage</u>	<u>Holiday</u>	<u>Overtime</u>	<u>Note</u>
King	<u>Asbestos Abatement Workers</u>	Journey Level	\$46.57	<u>5D</u>	<u>1H</u>	
King	<u>Boilermakers</u>	Journey Level	\$66.54	<u>5N</u>	<u>1C</u>	
King	<u>Brick Mason</u>	Journey Level	\$55.82	<u>5A</u>	<u>1M</u>	
King	<u>Brick Mason</u>	Pointer-Caulker-Cleaner	\$55.82	<u>5A</u>	<u>1M</u>	
King	<u>Building Service Employees</u>	Janitor	\$23.73	<u>5S</u>	<u>2F</u>	
King	<u>Building Service Employees</u>	Traveling Waxer/Shampooer	\$24.18	<u>5S</u>	<u>2F</u>	
King	<u>Building Service Employees</u>	Window Cleaner (Non-Scaffold)	\$27.23	<u>5S</u>	<u>2F</u>	
King	<u>Building Service Employees</u>	Window Cleaner (Scaffold)	\$28.13	<u>5S</u>	<u>2F</u>	
King	<u>Cabinet Makers (In Shop)</u>	Journey Level	\$22.74		<u>1</u>	
King	<u>Carpenters</u>	Acoustical Worker	\$57.18	<u>5D</u>	<u>4C</u>	
King	<u>Carpenters</u>	Bridge, Dock And Wharf Carpenters	\$57.18	<u>5D</u>	<u>4C</u>	
King	<u>Carpenters</u>	Carpenter	\$57.18	<u>5D</u>	<u>4C</u>	
King	<u>Carpenters</u>	Carpenters on Stationary Tools	\$57.31	<u>5D</u>	<u>4C</u>	
King	<u>Carpenters</u>	Creosoted Material	\$57.28	<u>5D</u>	<u>4C</u>	
King	<u>Carpenters</u>	Floor Finisher	\$57.18	<u>5D</u>	<u>4C</u>	
King	<u>Carpenters</u>	Floor Layer	\$57.18	<u>5D</u>	<u>4C</u>	
King	<u>Carpenters</u>	Scaffold Erector	\$57.18	<u>5D</u>	<u>4C</u>	
King	<u>Cement Masons</u>	Journey Level	\$57.21	<u>7A</u>	<u>1M</u>	
King	<u>Divers &amp; Tenders</u>	Bell/Vehicle or Submersible Operator (Not Under Pressure)	\$110.54	<u>5D</u>	<u>4C</u>	
King	<u>Divers &amp; Tenders</u>	Dive Supervisor/Master	\$72.97	<u>5D</u>	<u>4C</u>	
King	<u>Divers &amp; Tenders</u>	Diver	\$110.54	<u>5D</u>	<u>4C</u>	<u>8V</u>
King	<u>Divers &amp; Tenders</u>	Diver On Standby	\$67.97	<u>5D</u>	<u>4C</u>	
King	<u>Divers &amp; Tenders</u>	Diver Tender	\$61.65	<u>5D</u>	<u>4C</u>	
King	<u>Divers &amp; Tenders</u>	Manifold Operator	\$61.65	<u>5D</u>	<u>4C</u>	
King	<u>Divers &amp; Tenders</u>	Manifold Operator Mixed Gas	\$66.65	<u>5D</u>	<u>4C</u>	
King	<u>Divers &amp; Tenders</u>	Remote Operated Vehicle Operator/Technician	\$61.65	<u>5D</u>	<u>4C</u>	
King	<u>Divers &amp; Tenders</u>		\$57.43	<u>5A</u>	<u>4C</u>	

		Remote Operated Vehicle Tender				
King	<u>Dredge Workers</u>	Assistant Engineer	\$56.44	<u>5D</u>	<u>3F</u>	
King	<u>Dredge Workers</u>	Assistant Mate (Deckhand)	\$56.00	<u>5D</u>	<u>3F</u>	
King	<u>Dredge Workers</u>	Boatmen	\$56.44	<u>5D</u>	<u>3F</u>	
King	<u>Dredge Workers</u>	Engineer Welder	\$57.51	<u>5D</u>	<u>3F</u>	
King	<u>Dredge Workers</u>	Leverman, Hydraulic	\$58.67	<u>5D</u>	<u>3F</u>	
King	<u>Dredge Workers</u>	Mates	\$56.44	<u>5D</u>	<u>3F</u>	
King	<u>Dredge Workers</u>	Oiler	\$56.00	<u>5D</u>	<u>3F</u>	
King	<u>Drywall Applicator</u>	Journey Level	\$56.78	<u>5D</u>	<u>1H</u>	
King	<u>Drywall Tapers</u>	Journey Level	\$57.43	<u>5P</u>	<u>1E</u>	
King	<u>Electrical Fixture Maintenance Workers</u>	Journey Level	\$28.99	<u>5L</u>	<u>1E</u>	
King	<u>Electricians - Inside</u>	Cable Splicer	\$76.96	<u>7C</u>	<u>4E</u>	
King	<u>Electricians - Inside</u>	Cable Splicer (tunnel)	\$82.24	<u>7C</u>	<u>4E</u>	
King	<u>Electricians - Inside</u>	Certified Welder	\$74.38	<u>7C</u>	<u>4E</u>	
King	<u>Electricians - Inside</u>	Certified Welder (tunnel)	\$79.80	<u>7C</u>	<u>4E</u>	
King	<u>Electricians - Inside</u>	Construction Stock Person	\$39.69	<u>7C</u>	<u>4E</u>	
King	<u>Electricians - Inside</u>	Journey Level	\$71.80	<u>7C</u>	<u>4E</u>	
King	<u>Electricians - Inside</u>	Journey Level (tunnel)	\$76.96	<u>7C</u>	<u>4E</u>	
King	<u>Electricians - Motor Shop</u>	Craftsman	\$15.37		<u>1</u>	
King	<u>Electricians - Motor Shop</u>	Journey Level	\$14.69		<u>1</u>	
King	<u>Electricians - Powerline Construction</u>	Cable Splicer	\$79.43	<u>5A</u>	<u>4D</u>	
King	<u>Electricians - Powerline Construction</u>	Certified Line Welder	\$69.75	<u>5A</u>	<u>4D</u>	
King	<u>Electricians - Powerline Construction</u>	Groundperson	\$46.28	<u>5A</u>	<u>4D</u>	
King	<u>Electricians - Powerline Construction</u>	Heavy Line Equipment Operator	\$69.75	<u>5A</u>	<u>4D</u>	
King	<u>Electricians - Powerline Construction</u>	Journey Level Lineperson	\$69.75	<u>5A</u>	<u>4D</u>	
King	<u>Electricians - Powerline Construction</u>	Line Equipment Operator	\$59.01	<u>5A</u>	<u>4D</u>	
King	<u>Electricians - Powerline Construction</u>	Meter Installer	\$46.28	<u>5A</u>	<u>4D</u>	<u>8W</u>
King	<u>Electricians - Powerline Construction</u>	Pole Sprayer	\$69.75	<u>5A</u>	<u>4D</u>	
King	<u>Electricians - Powerline Construction</u>	Powderperson	\$52.20	<u>5A</u>	<u>4D</u>	
King	<u>Electronic Technicians</u>	Journey Level	\$31.00		<u>1</u>	
King	<u>Elevator Constructors</u>	Mechanic	\$91.24	<u>7D</u>	<u>4A</u>	
King	<u>Elevator Constructors</u>	Mechanic In Charge	\$98.51	<u>7D</u>	<u>4A</u>	
King	<u>Fabricated Precast Concrete Products</u>	All Classifications - In-Factory Work Only	\$17.72	<u>5B</u>	<u>1R</u>	
King	<u>Fence Erectors</u>	Fence Erector	\$15.18		<u>1</u>	
King	<u>Flaggers</u>	Journey Level	\$39.48	<u>7A</u>	<u>3I</u>	
King	<u>Glaziers</u>	Journey Level	\$61.81	<u>7L</u>	<u>1Y</u>	



King	<u>Heat &amp; Frost Insulators And Asbestos Workers</u>	Journeyman	\$67.93	<u>5J</u>	<u>4H</u>	
King	<u>Heating Equipment Mechanics</u>	Journey Level	\$78.17	<u>7F</u>	<u>1E</u>	
King	<u>Hod Carriers &amp; Mason Tenders</u>	Journey Level	\$48.02	<u>7A</u>	<u>3I</u>	
King	<u>Industrial Power Vacuum Cleaner</u>	Journey Level	\$11.50		<u>1</u>	
King	<u>Inland Boatmen</u>	Boat Operator	\$61.41	<u>5B</u>	<u>1K</u>	
King	<u>Inland Boatmen</u>	Cook	\$56.48	<u>5B</u>	<u>1K</u>	
King	<u>Inland Boatmen</u>	Deckhand	\$57.48	<u>5B</u>	<u>1K</u>	
King	<u>Inland Boatmen</u>	Deckhand Engineer	\$58.81	<u>5B</u>	<u>1K</u>	
King	<u>Inland Boatmen</u>	Launch Operator	\$58.89	<u>5B</u>	<u>1K</u>	
King	<u>Inland Boatmen</u>	Mate	\$57.31	<u>5B</u>	<u>1K</u>	
King	<u>Inspection/Cleaning/Sealing Of Sewer &amp; Water Systems By Remote Control</u>	Cleaner Operator, Foamer Operator	\$31.49		<u>1</u>	
King	<u>Inspection/Cleaning/Sealing Of Sewer &amp; Water Systems By Remote Control</u>	Grout Truck Operator	\$11.50		<u>1</u>	
King	<u>Inspection/Cleaning/Sealing Of Sewer &amp; Water Systems By Remote Control</u>	Head Operator	\$24.91		<u>1</u>	
King	<u>Inspection/Cleaning/Sealing Of Sewer &amp; Water Systems By Remote Control</u>	Technician	\$19.33		<u>1</u>	
King	<u>Inspection/Cleaning/Sealing Of Sewer &amp; Water Systems By Remote Control</u>	Tv Truck Operator	\$20.45		<u>1</u>	
King	<u>Insulation Applicators</u>	Journey Level	\$57.18	<u>5D</u>	<u>4C</u>	
King	<u>Ironworkers</u>	Journeyman	\$67.88	<u>7N</u>	<u>1O</u>	
King	<u>Laborers</u>	Air, Gas Or Electric Vibrating Screed	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Airtrac Drill Operator	\$48.02	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Ballast Regular Machine	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Batch Weighman	\$39.48	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Brick Pavers	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Brush Cutter	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Brush Hog Feeder	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Burner	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Caisson Worker	\$48.02	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Carpenter Tender	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Caulker	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Cement Dumper-paving	\$47.44	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Cement Finisher Tender	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Change House Or Dry Shack	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Chipping Gun (under 30 Lbs.)	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Chipping Gun(30 Lbs. And Over)	\$47.44	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Choker Setter	\$46.57	<u>7A</u>	<u>3I</u>	

King	<u>Laborers</u>	Chuck Tender	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Clary Power Spreader	\$47.44	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Clean-up Laborer	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Concrete Dumper/chute Operator	\$47.44	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Concrete Form Stripper	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Concrete Placement Crew	\$47.44	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Concrete Saw Operator/core Driller	\$47.44	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Crusher Feeder	\$39.48	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Curing Laborer	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Demolition: Wrecking & Moving (incl. Charred Material)	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Ditch Digger	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Diver	\$48.02	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Drill Operator (hydraulic, diamond)	\$47.44	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Dry Stack Walls	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Dump Person	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Epoxy Technician	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Erosion Control Worker	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Faller & Bucker Chain Saw	\$47.44	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Fine Graders	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Firewatch	\$39.48	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Form Setter	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Gabian Basket Builders	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	General Laborer	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Grade Checker & Transit Person	\$48.02	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Grinders	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Grout Machine Tender	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Groutmen (pressure)including Post Tension Beams	\$47.44	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Guardrail Erector	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Hazardous Waste Worker (level A)	\$48.02	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Hazardous Waste Worker (level B)	\$47.44	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Hazardous Waste Worker (level C)	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	High Scaler	\$48.02	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Jackhammer	\$47.44	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Laserbeam Operator	\$47.44	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Maintenance Person	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Manhole Builder-mudman	\$47.44	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Material Yard Person	\$46.57	<u>7A</u>	<u>3I</u>	

King	<u>Laborers</u>	Motorman-dinky Locomotive	\$47.44	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Nozzleman (concrete Pump, Green Cutter When Using Combination Of High Pressure Air & Water On Concrete & Rock, Sandblast, Gunite, Shotcrete, Water Bla	\$47.44	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Pavement Breaker	\$47.44	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Pilot Car	\$39.48	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Pipe Layer Lead	\$48.02	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Pipe Layer/tailor	\$47.44	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Pipe Pot Tender	\$47.44	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Pipe Reliner	\$47.44	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Pipe Wrapper	\$47.44	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Pot Tender	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Powderman	\$48.02	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Powderman's Helper	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Power Jacks	\$47.44	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Railroad Spike Puller - Power	\$47.44	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Raker - Asphalt	\$48.02	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Re-timberman	\$48.02	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Remote Equipment Operator	\$47.44	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Rigger/signal Person	\$47.44	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Rip Rap Person	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Rivet Buster	\$47.44	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Rodder	\$47.44	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Scaffold Erector	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Scale Person	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Sloper (over 20")	\$47.44	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Sloper Sprayer	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Spreader (concrete)	\$47.44	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Stake Hopper	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Stock Piler	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Tamper & Similar Electric, Air & Gas Operated Tools	\$47.44	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Tamper (multiple & Self-propelled)	\$47.44	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Timber Person - Sewer (lagger, Shorer & Cribber)	\$47.44	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Toolroom Person (at Jobsite)	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Topper	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Track Laborer	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Track Liner (power)	\$47.44	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Traffic Control Laborer	\$42.22	<u>7A</u>	<u>3I</u>	<u>8R</u>
King	<u>Laborers</u>	Traffic Control Supervisor	\$42.22	<u>7A</u>	<u>3I</u>	<u>8R</u>
King	<u>Laborers</u>	Truck Spotter	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Tugger Operator	\$47.44	<u>7A</u>	<u>3I</u>	

King	<u>Laborers</u>	Tunnel Work-Compressed Air Worker 0-30 psi	\$92.60	<u>7A</u>	<u>3I</u>	<u>8Q</u>
King	<u>Laborers</u>	Tunnel Work-Compressed Air Worker 30.01-44.00 psi	\$97.63	<u>7A</u>	<u>3I</u>	<u>8Q</u>
King	<u>Laborers</u>	Tunnel Work-Compressed Air Worker 44.01-54.00 psi	\$101.31	<u>7A</u>	<u>3I</u>	<u>8Q</u>
King	<u>Laborers</u>	Tunnel Work-Compressed Air Worker 54.01-60.00 psi	\$107.01	<u>7A</u>	<u>3I</u>	<u>8Q</u>
King	<u>Laborers</u>	Tunnel Work-Compressed Air Worker 60.01-64.00 psi	\$109.13	<u>7A</u>	<u>3I</u>	<u>8Q</u>
King	<u>Laborers</u>	Tunnel Work-Compressed Air Worker 64.01-68.00 psi	\$114.23	<u>7A</u>	<u>3I</u>	<u>8Q</u>
King	<u>Laborers</u>	Tunnel Work-Compressed Air Worker 68.01-70.00 psi	\$116.13	<u>7A</u>	<u>3I</u>	<u>8Q</u>
King	<u>Laborers</u>	Tunnel Work-Compressed Air Worker 70.01-72.00 psi	\$118.13	<u>7A</u>	<u>3I</u>	<u>8Q</u>
King	<u>Laborers</u>	Tunnel Work-Compressed Air Worker 72.01-74.00 psi	\$120.13	<u>7A</u>	<u>3I</u>	<u>8Q</u>
King	<u>Laborers</u>	Tunnel Work-Guage and Lock Tender	\$48.12	<u>7A</u>	<u>3I</u>	<u>8Q</u>
King	<u>Laborers</u>	Tunnel Work-Miner	\$48.12	<u>7A</u>	<u>3I</u>	<u>8Q</u>
King	<u>Laborers</u>	Vibrator	\$47.44	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Vinyl Seamer	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Watchman	\$35.88	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Welder	\$47.44	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Well Point Laborer	\$47.44	<u>7A</u>	<u>3I</u>	
King	<u>Laborers</u>	Window Washer/cleaner	\$35.88	<u>7A</u>	<u>3I</u>	
King	<u>Laborers - Underground Sewer &amp; Water</u>	General Laborer & Topman	\$46.57	<u>7A</u>	<u>3I</u>	
King	<u>Laborers - Underground Sewer &amp; Water</u>	Pipe Layer	\$47.44	<u>7A</u>	<u>3I</u>	
King	<u>Landscape Construction</u>	Irrigation Or Lawn Sprinkler Installers	\$13.56		<u>1</u>	
King	<u>Landscape Construction</u>	Landscape Equipment Operators Or Truck Drivers	\$28.17		<u>1</u>	
King	<u>Landscape Construction</u>	Landscaping or Planting Laborers	\$17.87		<u>1</u>	
King	<u>Lathers</u>	Journey Level	\$56.78	<u>5D</u>	<u>1H</u>	
King	<u>Marble Setters</u>	Journey Level	\$55.82	<u>5A</u>	<u>1M</u>	
King	<u>Metal Fabrication (In Shop)</u>	Fitter	\$15.86		<u>1</u>	
King	<u>Metal Fabrication (In Shop)</u>	Laborer	\$11.50		<u>1</u>	
King	<u>Metal Fabrication (In Shop)</u>	Machine Operator	\$13.04		<u>1</u>	
King	<u>Metal Fabrication (In Shop)</u>	Painter	\$11.50		<u>1</u>	
King	<u>Metal Fabrication (In Shop)</u>	Welder	\$15.48		<u>1</u>	
King	<u>Millwright</u>	Journey Level	\$58.68	<u>5D</u>	<u>4C</u>	
King	<u>Modular Buildings</u>	Cabinet Assembly	\$11.56		<u>1</u>	
King	<u>Modular Buildings</u>	Electrician	\$11.56		<u>1</u>	
King	<u>Modular Buildings</u>	Equipment Maintenance	\$11.56		<u>1</u>	
King	<u>Modular Buildings</u>	Plumber	\$11.56		<u>1</u>	

King	<u>Modular Buildings</u>	Production Worker	\$11.50		<u>1</u>	
King	<u>Modular Buildings</u>	Tool Maintenance	\$11.56		<u>1</u>	
King	<u>Modular Buildings</u>	Utility Person	\$11.56		<u>1</u>	
King	<u>Modular Buildings</u>	Welder	\$11.56		<u>1</u>	
King	<u>Painters</u>	Journey Level	\$41.60	<u>6Z</u>	<u>2B</u>	
King	<u>Pile Driver</u>	Crew Tender	\$52.37	<u>5D</u>	<u>4C</u>	
King	<u>Pile Driver</u>	Hyperbaric Worker - Compressed Air Worker 0-30.00 PSI	\$71.35	<u>5D</u>	<u>4C</u>	
King	<u>Pile Driver</u>	Hyperbaric Worker - Compressed Air Worker 30.01 - 44.00 PSI	\$76.35	<u>5D</u>	<u>4C</u>	
King	<u>Pile Driver</u>	Hyperbaric Worker - Compressed Air Worker 44.01 - 54.00 PSI	\$80.35	<u>5D</u>	<u>4C</u>	
King	<u>Pile Driver</u>	Hyperbaric Worker - Compressed Air Worker 54.01 - 60.00 PSI	\$85.35	<u>5D</u>	<u>4C</u>	
King	<u>Pile Driver</u>	Hyperbaric Worker - Compressed Air Worker 60.01 - 64.00 PSI	\$87.85	<u>5D</u>	<u>4C</u>	
King	<u>Pile Driver</u>	Hyperbaric Worker - Compressed Air Worker 64.01 - 68.00 PSI	\$92.85	<u>5D</u>	<u>4C</u>	
King	<u>Pile Driver</u>	Hyperbaric Worker - Compressed Air Worker 68.01 - 70.00 PSI	\$94.85	<u>5D</u>	<u>4C</u>	
King	<u>Pile Driver</u>	Hyperbaric Worker - Compressed Air Worker 70.01 - 72.00 PSI	\$96.85	<u>5D</u>	<u>4C</u>	
King	<u>Pile Driver</u>	Hyperbaric Worker - Compressed Air Worker 72.01 - 74.00 PSI	\$98.85	<u>5D</u>	<u>4C</u>	
King	<u>Pile Driver</u>	Journey Level	\$57.43	<u>5D</u>	<u>4C</u>	
King	<u>Plasterers</u>	Journey Level	\$54.89	<u>7Q</u>	<u>1R</u>	
King	<u>Playground &amp; Park Equipment Installers</u>	Journey Level	\$11.50		<u>1</u>	
King	<u>Plumbers &amp; Pipefitters</u>	Journey Level	\$81.69	<u>6Z</u>	<u>1G</u>	
King	<u>Power Equipment Operators</u>	Asphalt Plant Operators	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Assistant Engineer	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Barrier Machine (zipper)	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Batch Plant Operator, Concrete	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Bobcat	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Brokk - Remote Demolition Equipment	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Brooms	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Bump Cutter	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Cableways	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Chipper	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>

King	<u>Power Equipment Operators</u>	Compressor	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Concrete Pump: Truck Mount With Boom Attachment Over 42 M	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Concrete Finish Machine -laser Screed	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure.	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Conveyors	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Cranes Friction: 200 tons and over	\$62.33	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Cranes: 20 Tons Through 44 Tons With Attachments	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Cranes: 100 Tons Through 199 Tons, Or 150' Of Boom (Including Jib With Attachments)	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Cranes: 200 tons- 299 tons, or 250' of boom including jib with attachments	\$61.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Cranes: 300 tons and over or 300' of boom including jib with attachments	\$62.33	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Cranes: 45 Tons Through 99 Tons, Under 150' Of Boom (including Jib With Attachments)	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Cranes: A-frame - 10 Tons And Under	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Cranes: Friction cranes through 199 tons	\$61.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Cranes: Through 19 Tons With Attachments A-frame Over 10 Tons	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Crusher	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Deck Engineer /deck Winches (power)	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Derricks, On Building Work	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Dozers D-9 & Under	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Drill Oilers: Auger Type, Truck Or Crane Mount	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Drilling Machine	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Elevator And Man-lift: Permanent And Shaft Type	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Finishing Machine, Bidwell And Gamaco & Similar Equipment	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>		\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>

		Forklift: 3000 Lbs And Over With Attachments				
King	<u>Power Equipment Operators</u>	Forklifts: Under 3000 Lbs. With Attachments	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Grade Engineer: Using Blue Prints, Cut Sheets, Etc	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Gradechecker/stakeman	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Guardrail Punch	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Horizontal/directional Drill Locator	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Horizontal/directional Drill Operator	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Hydralifts/boom Trucks Over 10 Tons	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Hydralifts/boom Trucks, 10 Tons And Under	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Loader, Overhead 8 Yards. & Over	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Loader, Overhead, 6 Yards. But Not Including 8 Yards	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Loaders, Overhead Under 6 Yards	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Loaders, Plant Feed	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Loaders: Elevating Type Belt	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Locomotives, All	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Material Transfer Device	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Mechanics, All (leadmen - \$0.50 Per Hour Over Mechanic)	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Motor Patrol Graders	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Oil Distributors, Blower Distribution & Mulch Seeding Operator	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Outside Hoists (elevators And Manlifts), Air Tuggers, strato	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Overhead, Bridge Type Crane: 20 Tons Through 44 Tons	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Overhead, Bridge Type: 100 Tons And Over	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Overhead, Bridge Type: 45 Tons Through 99 Tons	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Pavement Breaker	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>

King	<u>Power Equipment Operators</u>	Pile Driver (other Than Crane Mount)	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Plant Oiler - Asphalt, Crusher	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Posthole Digger, Mechanical	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Power Plant	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Pumps - Water	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Quad 9, Hd 41, D10 And Over	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Quick Tower - No Cab, Under 100 Feet In Height Based To Boom	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Remote Control Operator On Rubber Tired Earth Moving Equipment	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Rigger And Bellman	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Rigger/Signal Person, Bellman (Certified)	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Rollagon	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Roller, Other Than Plant Mix	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Roller, Plant Mix Or Multi-lift Materials	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Roto-mill, Roto-grinder	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Saws - Concrete	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Scraper, Self Propelled Under 45 Yards	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Scrapers - Concrete & Carry All	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Scrapers, Self-propelled: 45 Yards And Over	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Service Engineers - Equipment	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Shotcrete/gunite Equipment	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Shovel , Excavator, Backhoe, Tractors Under 15 Metric Tons.	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Shovel, Excavator, Backhoes: Over 90 Metric Tons	\$61.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Slipform Pavers	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Spreader, Topsider & Screedman	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Subgrader Trimmer	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Tower Bucket Elevators	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Tower Crane Up To 175' In Height Base To Boom	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>



King	<u>Power Equipment Operators</u>	Tower Crane: over 175' through 250' in height, base to boom	\$61.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Tower Cranes: over 250' in height from base to boom	\$62.33	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Transporters, All Track Or Truck Type	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Trenching Machines	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Truck Crane Oiler/driver - 100 Tons And Over	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Truck Crane Oiler/driver Under 100 Tons	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Truck Mount Portable Conveyor	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Welder	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Wheel Tractors, Farmall Type	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators</u>	Yo Yo Pay Dozer	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators-Underground Sewer &amp; Water</u>	Asphalt Plant Operators	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators-Underground Sewer &amp; Water</u>	Assistant Engineer	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators-Underground Sewer &amp; Water</u>	Barrier Machine (zipper)	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators-Underground Sewer &amp; Water</u>	Batch Plant Operator, Concrete	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators-Underground Sewer &amp; Water</u>	Bobcat	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators-Underground Sewer &amp; Water</u>	Brokk - Remote Demolition Equipment	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators-Underground Sewer &amp; Water</u>	Brooms	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators-Underground Sewer &amp; Water</u>	Bump Cutter	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators-Underground Sewer &amp; Water</u>	Cableways	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators-Underground Sewer &amp; Water</u>	Chipper	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators-Underground Sewer &amp; Water</u>	Compressor	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators-Underground Sewer &amp; Water</u>	Concrete Pump: Truck Mount With Boom Attachment Over 42 M	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators-Underground Sewer &amp; Water</u>	Concrete Finish Machine -laser Screed	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators-Underground Sewer &amp; Water</u>	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure.	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators-Underground Sewer &amp; Water</u>	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King		Conveyors	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>

	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>					
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Cranes Friction: 200 tons and over	\$62.33	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Cranes: 20 Tons Through 44 Tons With Attachments	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Cranes: 100 Tons Through 199 Tons, Or 150' Of Boom (Including Jib With Attachments)	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Cranes: 200 tons- 299 tons, or 250' of boom including jib with attachments	\$61.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Cranes: 300 tons and over or 300' of boom including jib with attachments	\$62.33	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Cranes: 45 Tons Through 99 Tons, Under 150' Of Boom (including Jib With Attachments)	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Cranes: A-frame - 10 Tons And Under	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Cranes: Friction cranes through 199 tons	\$61.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Cranes: Through 19 Tons With Attachments A-frame Over 10 Tons	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Crusher	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Deck Engineer/deck Winches (power)	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Derricks, On Building Work	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Dozers D-9 & Under	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Drill Oilers: Auger Type, Truck Or Crane Mount	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Drilling Machine	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Elevator And Man-lift: Permanent And Shaft Type	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Finishing Machine, Bidwell And Gamaco & Similar Equipment	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Forklift: 3000 Lbs And Over With Attachments	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Forklifts: Under 3000 Lbs. With Attachments	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Grade Engineer: Using Blue Prints, Cut Sheets, Etc	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Gradechecker/stakeman	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>

King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Guardrail Punch	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Horizontal/directional Drill Locator	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Horizontal/directional Drill Operator	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Hydralifts/boom Trucks Over 10 Tons	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Hydralifts/boom Trucks, 10 Tons And Under	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Loader, Overhead 8 Yards. & Over	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Loader, Overhead, 6 Yards. But Not Including 8 Yards	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Loaders, Overhead Under 6 Yards	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Loaders, Plant Feed	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Loaders: Elevating Type Belt	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Locomotives, All	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Material Transfer Device	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Mechanics, All (leadmen - \$0.50 Per Hour Over Mechanic)	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Motor Patrol Graders	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Oil Distributors, Blower Distribution & Mulch Seeding Operator	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Outside Hoists (elevators And Manlifts), Air Tuggers, strato	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Overhead, Bridge Type Crane: 20 Tons Through 44 Tons	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Overhead, Bridge Type: 100 Tons And Over	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Overhead, Bridge Type: 45 Tons Through 99 Tons	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Pavement Breaker	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King			\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>

	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Pile Driver (other Than Crane Mount)				
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Plant Oiler - Asphalt, Crusher	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Posthole Digger, Mechanical	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Power Plant	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Pumps - Water	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Quad 9, Hd 41, D10 And Over	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Quick Tower - No Cab, Under 100 Feet In Height Based To Boom	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Remote Control Operator On Rubber Tired Earth Moving Equipment	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Rigger And Bellman	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Rigger/Signal Person, Bellman (Certified)	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Rollagon	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Roller, Other Than Plant Mix	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Roller, Plant Mix Or Multi-lift Materials	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Roto-mill, Roto-grinder	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Saws - Concrete	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Scraper, Self Propelled Under 45 Yards	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Scrapers - Concrete & Carry All	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Scrapers, Self-propelled: 45 Yards And Over	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Service Engineers - Equipment	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Shotcrete/gunite Equipment	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Shovel , Excavator, Backhoe, Tractors Under 15 Metric Tons.	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>		\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>

		Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons				
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Shovel, Excavator, Backhoes: Over 90 Metric Tons	\$61.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Slipform Pavers	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Spreader, Toppers & Screedman	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Subgrader Trimmer	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Tower Bucket Elevators	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Tower Crane Up To 175' In Height Base To Boom	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Tower Crane: over 175' through 250' in height, base to boom	\$61.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Tower Cranes: over 250' in height from base to boom	\$62.33	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Transporters, All Track Or Truck Type	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Trenching Machines	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Truck Crane Oiler/driver - 100 Tons And Over	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Truck Crane Oiler/driver Under 100 Tons	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Truck Mount Portable Conveyor	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Welder	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Wheel Tractors, Farmall Type	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Equipment Operators- Underground Sewer &amp; Water</u>	Yo Yo Pay Dozer	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Power Line Clearance Tree Trimmers</u>	Journey Level In Charge	\$50.02	<u>5A</u>	<u>4A</u>	
King	<u>Power Line Clearance Tree Trimmers</u>	Spray Person	\$47.43	<u>5A</u>	<u>4A</u>	
King	<u>Power Line Clearance Tree Trimmers</u>	Tree Equipment Operator	\$50.02	<u>5A</u>	<u>4A</u>	
King	<u>Power Line Clearance Tree Trimmers</u>	Tree Trimmer	\$44.64	<u>5A</u>	<u>4A</u>	
King	<u>Power Line Clearance Tree Trimmers</u>	Tree Trimmer Groundperson	\$33.67	<u>5A</u>	<u>4A</u>	
King	<u>Refrigeration &amp; Air Conditioning Mechanics</u>	Journey Level	\$77.86	<u>6Z</u>	<u>1G</u>	
King	<u>Residential Brick Mason</u>	Journey Level	\$55.82	<u>5A</u>	<u>1M</u>	
King	<u>Residential Carpenters</u>	Journey Level	\$28.20		<u>1</u>	
King	<u>Residential Cement Masons</u>	Journey Level	\$22.64		<u>1</u>	

King	<u>Residential Drywall Applicators</u>	Journey Level	\$42.86	<u>5D</u>	<u>4C</u>
King	<u>Residential Drywall Tapers</u>	Journey Level	\$57.43	<u>5P</u>	<u>1E</u>
King	<u>Residential Electricians</u>	Journey Level	\$30.44		<u>1</u>
King	<u>Residential Glaziers</u>	Journey Level	\$41.05	<u>7L</u>	<u>1H</u>
King	<u>Residential Insulation Applicators</u>	Journey Level	\$26.28		<u>1</u>
King	<u>Residential Laborers</u>	Journey Level	\$23.03		<u>1</u>
King	<u>Residential Marble Setters</u>	Journey Level	\$24.09		<u>1</u>
King	<u>Residential Painters</u>	Journey Level	\$24.46		<u>1</u>
King	<u>Residential Plumbers &amp; Pipefitters</u>	Journey Level	\$34.69		<u>1</u>
King	<u>Residential Refrigeration &amp; Air Conditioning Mechanics</u>	Journey Level	\$77.86	<u>6Z</u>	<u>1G</u>
King	<u>Residential Sheet Metal Workers</u>	Journey Level (Field or Shop)	\$44.56	<u>7F</u>	<u>1R</u>
King	<u>Residential Soft Floor Layers</u>	Journey Level	\$47.61	<u>5A</u>	<u>3J</u>
King	<u>Residential Sprinkler Fitters (Fire Protection)</u>	Journey Level	\$46.58	<u>5C</u>	<u>2R</u>
King	<u>Residential Stone Masons</u>	Journey Level	\$55.82	<u>5A</u>	<u>1M</u>
King	<u>Residential Terrazzo Workers</u>	Journey Level	\$51.36	<u>5A</u>	<u>1M</u>
King	<u>Residential Terrazzo/Tile Finishers</u>	Journey Level	\$21.46		<u>1</u>
King	<u>Residential Tile Setters</u>	Journey Level	\$20.00		<u>1</u>
King	<u>Roofers</u>	Journey Level	\$51.02	<u>5A</u>	<u>3H</u>
King	<u>Roofers</u>	Using Irritable Bituminous Materials	\$54.02	<u>5A</u>	<u>3H</u>
King	<u>Sheet Metal Workers</u>	Journey Level (Field or Shop)	\$78.17	<u>7F</u>	<u>1E</u>
King	<u>Shipbuilding &amp; Ship Repair</u>	Boilermaker	\$43.31	<u>7M</u>	<u>1H</u>
King	<u>Shipbuilding &amp; Ship Repair</u>	Carpenter	\$41.06	<u>7T</u>	<u>2B</u>
King	<u>Shipbuilding &amp; Ship Repair</u>	Electrician	\$42.07	<u>7T</u>	<u>4B</u>
King	<u>Shipbuilding &amp; Ship Repair</u>	Heat & Frost Insulator	\$67.93	<u>5J</u>	<u>4H</u>
King	<u>Shipbuilding &amp; Ship Repair</u>	Laborer	\$41.99	<u>7T</u>	<u>4B</u>
King	<u>Shipbuilding &amp; Ship Repair</u>	Machinist	\$42.00	<u>7T</u>	<u>4B</u>
King	<u>Shipbuilding &amp; Ship Repair</u>	Operator	\$41.95	<u>7T</u>	<u>4B</u>
King	<u>Shipbuilding &amp; Ship Repair</u>	Painter	\$42.00	<u>7T</u>	<u>4B</u>
King	<u>Shipbuilding &amp; Ship Repair</u>	Pipefitter	\$41.96	<u>7T</u>	<u>4B</u>
King	<u>Shipbuilding &amp; Ship Repair</u>	Rigger	\$42.05	<u>7T</u>	<u>4B</u>
King	<u>Shipbuilding &amp; Ship Repair</u>	Sheet Metal	\$41.98	<u>7T</u>	<u>4B</u>
King	<u>Shipbuilding &amp; Ship Repair</u>	Shipfitter	\$42.05	<u>7T</u>	<u>4B</u>
King	<u>Shipbuilding &amp; Ship Repair</u>	Trucker	\$41.91	<u>7T</u>	<u>4B</u>
King	<u>Shipbuilding &amp; Ship Repair</u>	Warehouse	\$41.94	<u>7T</u>	<u>4B</u>
King	<u>Shipbuilding &amp; Ship Repair</u>	Welder/Burner	\$42.05	<u>7T</u>	<u>4B</u>
King	<u>Sign Makers &amp; Installers (Electrical)</u>	Sign Installer	\$22.92		<u>1</u>
King	<u>Sign Makers &amp; Installers (Electrical)</u>	Sign Maker	\$21.36		<u>1</u>

King	<u>Sign Makers &amp; Installers (Non-Electrical)</u>	Sign Installer	\$27.28		<u>1</u>	
King	<u>Sign Makers &amp; Installers (Non-Electrical)</u>	Sign Maker	\$33.25		<u>1</u>	
King	<u>Soft Floor Layers</u>	Journey Level	\$47.61	<u>5A</u>	<u>3J</u>	
King	<u>Solar Controls For Windows</u>	Journey Level	\$12.44		<u>1</u>	
King	<u>Sprinkler Fitters (Fire Protection)</u>	Journey Level	\$75.64	<u>5C</u>	<u>1X</u>	
King	<u>Stage Rigging Mechanics (Non Structural)</u>	Journey Level	\$13.23		<u>1</u>	
King	<u>Stone Masons</u>	Journey Level	\$55.82	<u>5A</u>	<u>1M</u>	
King	<u>Street And Parking Lot Sweeper Workers</u>	Journey Level	\$19.09		<u>1</u>	
King	<u>Surveyors</u>	Assistant Construction Site Surveyor	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Surveyors</u>	Chainman	\$58.93	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Surveyors</u>	Construction Site Surveyor	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	<u>Telecommunication Technicians</u>	Journey Level	\$22.76		<u>1</u>	
King	<u>Telephone Line Construction - Outside</u>	Cable Splicer	\$40.52	<u>5A</u>	<u>2B</u>	
King	<u>Telephone Line Construction - Outside</u>	Hole Digger/Ground Person	\$22.78	<u>5A</u>	<u>2B</u>	
King	<u>Telephone Line Construction - Outside</u>	Installer (Repairer)	\$38.87	<u>5A</u>	<u>2B</u>	
King	<u>Telephone Line Construction - Outside</u>	Special Aparatus Installer I	\$40.52	<u>5A</u>	<u>2B</u>	
King	<u>Telephone Line Construction - Outside</u>	Special Apparatus Installer II	\$39.73	<u>5A</u>	<u>2B</u>	
King	<u>Telephone Line Construction - Outside</u>	Telephone Equipment Operator (Heavy)	\$40.52	<u>5A</u>	<u>2B</u>	
King	<u>Telephone Line Construction - Outside</u>	Telephone Equipment Operator (Light)	\$37.74	<u>5A</u>	<u>2B</u>	
King	<u>Telephone Line Construction - Outside</u>	Telephone Lineperson	\$37.74	<u>5A</u>	<u>2B</u>	
King	<u>Telephone Line Construction - Outside</u>	Television Groundperson	\$21.60	<u>5A</u>	<u>2B</u>	
King	<u>Telephone Line Construction - Outside</u>	Television Lineperson/Installer	\$28.68	<u>5A</u>	<u>2B</u>	
King	<u>Telephone Line Construction - Outside</u>	Television System Technician	\$34.10	<u>5A</u>	<u>2B</u>	
King	<u>Telephone Line Construction - Outside</u>	Television Technician	\$30.69	<u>5A</u>	<u>2B</u>	
King	<u>Telephone Line Construction - Outside</u>	Tree Trimmer	\$37.74	<u>5A</u>	<u>2B</u>	
King	<u>Terrazzo Workers</u>	Journey Level	\$51.36	<u>5A</u>	<u>1M</u>	
King	<u>Tile Setters</u>	Journey Level	\$51.36	<u>5A</u>	<u>1M</u>	
King	<u>Tile, Marble &amp; Terrazzo Finishers</u>	Finisher	\$42.19	<u>5A</u>	<u>1B</u>	
King	<u>Traffic Control Stripers</u>	Journey Level	\$45.43	<u>7A</u>	<u>1K</u>	

King	<u>Truck Drivers</u>	Asphalt Mix Over 16 Yards (W. WA-Joint Council 28)	\$52.70	<u>5D</u>	<u>3A</u>	<u>8L</u>
King	<u>Truck Drivers</u>	Asphalt Mix To 16 Yards (W. WA-Joint Council 28)	\$51.86	<u>5D</u>	<u>3A</u>	<u>8L</u>
King	<u>Truck Drivers</u>	Dump Truck & Trailer	\$52.70	<u>5D</u>	<u>3A</u>	<u>8L</u>
King	<u>Truck Drivers</u>	Dump Truck (W. WA-Joint Council 28)	\$51.86	<u>5D</u>	<u>3A</u>	<u>8L</u>
King	<u>Truck Drivers</u>	Other Trucks (W. WA-Joint Council 28)	\$52.70	<u>5D</u>	<u>3A</u>	<u>8L</u>
King	<u>Truck Drivers</u>	Transit Mixer	\$43.23		<u>1</u>	
King	<u>Well Drillers &amp; Irrigation Pump Installers</u>	Irrigation Pump Installer	\$17.71		<u>1</u>	
King	<u>Well Drillers &amp; Irrigation Pump Installers</u>	Oiler	\$12.97		<u>1</u>	
King	<u>Well Drillers &amp; Irrigation Pump Installers</u>	Well Driller	\$18.00		<u>1</u>	



Benefit Code Key – Effective 3/3/2018 thru 8/30/2018

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Overtime Codes

**Overtime calculations** are based on the hourly rate actually paid to the worker. On public works projects, the hourly rate must be not less than the prevailing rate of wage minus the hourly rate of the cost of fringe benefits actually provided for the worker.

1. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.
  - B. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
  - C. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other overtime hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
  - D. The first two (2) hours before or after a five-eight (8) hour workweek day or a four-ten (10) hour workweek day and the first eight (8) hours worked the next day after either workweek shall be paid at one and one-half times the hourly rate of wage. All additional hours worked and all worked on Sundays and holidays shall be paid at double the hourly rate of wage.
  - E. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
  - F. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other overtime hours worked, except Labor Day, shall be paid at double the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.
  - G. The first ten (10) hours worked on Saturdays and the first ten (10) hours worked on a fifth calendar weekday in a four-ten hour schedule, shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of ten (10) hours per day Monday through Saturday and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
  - H. All hours worked on Saturdays (except makeup days if work is lost due to inclement weather conditions or equipment breakdown) shall be paid at one and one-half times the hourly rate of wage. All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
  - I. All hours worked on Sundays and holidays shall also be paid at double the hourly rate of wage.
  - J. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked over ten (10) hours Monday through Saturday, Sundays and holidays shall be paid at double the hourly rate of wage.
  - K. All hours worked on Saturdays and Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.
  - M. All hours worked on Saturdays (except makeup days if work is lost due to inclement weather conditions) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
  - N. All hours worked on Saturdays (except makeup days) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

Benefit Code Key – Effective 3/3/2018 thru 8/30/2018

**Overtime Codes Continued**

1. O. The first ten (10) hours worked on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays, holidays and after twelve (12) hours, Monday through Friday and after ten (10) hours on Saturday shall be paid at double the hourly rate of wage.
- P. All hours worked on Saturdays (except makeup days if circumstances warrant) and Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.
- Q. The first two (2) hours after eight (8) regular hours Monday through Friday and up to ten (10) hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of ten (10) hours per day Monday through Saturday and all hours worked on Sundays and holidays (except Christmas day) shall be paid at double the hourly rate of wage. All hours worked on Christmas day shall be paid at two and one-half times the hourly rate of wage.
- R. All hours worked on Sundays and holidays shall be paid at two times the hourly rate of wage.
- S. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays and all other overtime hours worked, except Labor Day, shall be paid at double the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.
- U. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays (except Labor Day) shall be paid at two times the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.
- V. All hours worked on Sundays and holidays (except Thanksgiving Day and Christmas day) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Thanksgiving Day and Christmas day shall be paid at double the hourly rate of wage.
- W. All hours worked on Saturdays and Sundays (except make-up days due to conditions beyond the control of the employer) shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.
- X. The first four (4) hours after eight (8) regular hours Monday through Friday and the first twelve (12) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked over twelve (12) hours Monday through Saturday, Sundays and holidays shall be paid at double the hourly rate of wage. When holiday falls on Saturday or Sunday, the day before Saturday, Friday, and the day after Sunday, Monday, shall be considered the holiday and all work performed shall be paid at double the hourly rate of wage.
- Y. All hours worked outside the hours of 5:00 am and 5:00 pm (or such other hours as may be agreed upon by any employer and the employee) and all hours worked in excess of eight (8) hours per day (10 hours per day for a 4 x 10 workweek) and on Saturdays and holidays (except labor day) shall be paid at one and one-half times the hourly rate of wage. (except for employees who are absent from work without prior approval on a scheduled workday during the workweek shall be paid at the straight-time rate until they have worked 8 hours in a day (10 in a 4 x 10 workweek) or 40 hours during that workweek.) All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and Labor Day shall be paid at double the hourly rate of wage.
- Z. All hours worked on Saturdays and Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid the straight time rate of pay in addition to holiday pay.

Benefit Code Key – Effective 3/3/2018 thru 8/30/2018

**Overtime Codes Continued**

2. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.
- B. All hours worked on holidays shall be paid at one and one-half times the hourly rate of wage.
  - C. All hours worked on Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at two times the hourly rate of wage.
  - F. The first eight (8) hours worked on holidays shall be paid at the straight hourly rate of wage in addition to the holiday pay. All hours worked in excess of eight (8) hours on holidays shall be paid at double the hourly rate of wage.
  - G. All hours worked on Sunday shall be paid at two times the hourly rate of wage. All hours worked on paid holidays shall be paid at two and one-half times the hourly rate of wage including holiday pay.
  - H. All hours worked on Sunday shall be paid at two times the hourly rate of wage. All hours worked on holidays shall be paid at one and one-half times the hourly rate of wage.
  - O. All hours worked on Sundays and holidays shall be paid at one and one-half times the hourly rate of wage.
  - R. All hours worked on Sundays and holidays and all hours worked over sixty (60) in one week shall be paid at double the hourly rate of wage.
  - U. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked over 12 hours in a day or on Sundays and holidays shall be paid at double the hourly rate of wage.
  - W. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage. On a four-day, ten-hour weekly schedule, either Monday thru Thursday or Tuesday thru Friday schedule, all hours worked after ten shall be paid at double the hourly rate of wage. The first eight (8) hours worked on the fifth day shall be paid at one and one-half times the hourly rate of wage. All other hours worked on the fifth, sixth, and seventh days and on holidays shall be paid at double the hourly rate of wage.
3. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.
- A. Work performed in excess of eight (8) hours of straight time per day, or ten (10) hours of straight time per day when four ten (10) hour shifts are established, or forty (40) hours of straight time per week, Monday through Friday, or outside the normal shift, and all work on Saturdays shall be paid at time and one-half the straight time rate. Hours worked over twelve hours (12) in a single shift and all work performed after 6:00 pm Saturday to 6:00 am Monday and holidays shall be paid at double the straight time rate of pay. Any shift starting between the hours of 6:00 pm and midnight shall receive an additional one dollar (\$1.00) per hour for all hours worked that shift. The employer shall have the sole discretion to assign overtime work to employees. Primary consideration for overtime work shall be given to employees regularly assigned to the work to be performed on overtime situations. After an employee has worked eight (8) hours at an applicable overtime rate, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more.
  - C. Work performed in excess of eight (8) hours of straight time per day, or ten (10) hours of straight time per day when four ten (10) hour shifts are established, or forty (40) hours of straight time per week, Monday through Friday, or outside the normal shift, and all work on Saturdays shall be paid at one and one-half times the hourly rate of wage. All work performed after 6:00 pm Saturday to 5:00 am Monday and Holidays shall be paid at double the hourly rate of wage. After an employee has worked eight (8) hours at an applicable overtime rate, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more.

**Overtime Codes Continued**

3.
  - E. All hours worked Sundays and holidays shall be paid at double the hourly rate of wage. Each week, once 40 hours of straight time work is achieved, then any hours worked over 10 hours per day Monday through Saturday shall be paid at double the hourly wage rate.
  - F. All hours worked on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sunday shall be paid at two times the hourly rate of wage. All hours worked on paid holidays shall be paid at two and one-half times the hourly rate of wage including holiday pay.
  - H. All work performed on Sundays between March 16th and October 14th and all Holidays shall be compensated for at two (2) times the regular rate of pay. Work performed on Sundays between October 15th and March 15th shall be compensated at one and one half (1-1/2) times the regular rate of pay.
  - I. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. In the event the job is down due to weather conditions during a five day work week (Monday through Friday,) or a four day-ten hour work week (Tuesday through Friday,) then Saturday may be worked as a voluntary make-up day at the straight time rate. However, Saturday shall not be utilized as a make-up day when a holiday falls on Friday. All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
  - J. All hours worked between the hours of 10:00 pm and 5:00 am, Monday through Friday, and all hours worked on Saturdays shall be paid at a one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
  
4. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.
  - A. All hours worked in excess of eight (8) hours per day or forty (40) hours per week shall be paid at double the hourly rate of wage. All hours worked on Saturdays, Sundays and holidays shall be paid at double the hourly rate of wage.
  - B. All hours worked over twelve (12) hours per day and all hours worked on holidays shall be paid at double the hourly rate of wage.
  - C. On Monday through Friday, the first four (4) hours of overtime after eight (8) hours of straight time work shall be paid at one and one half (1-1/2) times the straight time rate of pay, unless a four (4) day ten (10) hour workweek has been established. On a four (4) day ten (10) hour workweek scheduled Monday through Thursday, or Tuesday through Friday, the first two (2) hours of overtime after ten (10) hours of straight time work shall be paid at one and one half (1-1/2) times the straight time rate of pay. On Saturday, the first twelve (12) hours of work shall be paid at one and one half (1-1/2) times the straight time rate of pay, except that if the job is down on Monday through Friday due to weather conditions or other conditions outside the control of the employer, the first ten (10) hours on Saturday may be worked at the straight time rate of pay. All hours worked over twelve (12) hours in a day and all hours worked on Sunday and Holidays shall be paid at two (2) times the straight time rate of pay.

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**Overtime Codes Continued**

4. D. All hours worked in excess of eight (8) hours per day or forty (40) hours per week shall be paid at double the hourly rate of wage. All hours worked on Saturday, Sundays and holidays shall be paid at double the hourly rate of pay. Rates include all members of the assigned crew.

**EXCEPTION:**

On all multipole structures and steel transmission lines, switching stations, regulating, capacitor stations, generating plants, industrial plants, associated installations and substations, except those substations whose primary function is to feed a distribution system, will be paid overtime under the following rates:

The first two (2) hours after eight (8) regular hours Monday through Friday of overtime on a regular workday, shall be paid at one and one-half times the hourly rate of wage. All hours in excess of ten (10) hours will be at two (2) times the hourly rate of wage. The first eight (8) hours worked on Saturday will be paid at one and one-half (1-1/2) times the hourly rate of wage. All hours worked in excess of eight (8) hours on Saturday, and all hours worked on Sundays and holidays will be at the double the hourly rate of wage.

All overtime eligible hours performed on the above described work that is energized, shall be paid at the double the hourly rate of wage.

- E. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

On a four-day, ten-hour weekly schedule, either Monday thru Thursday or Tuesday thru Friday schedule, all hours worked after ten shall be paid at double the hourly rate of wage. The Monday or Friday not utilized in the normal four-day, ten hour work week, and Saturday shall be paid at one and one half (1½) times the regular shift rate for the first eight (8) hours. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

- F. All hours worked between the hours of 6:00 pm and 6:00 am, Monday through Saturday, shall be paid at a premium rate of 20% over the hourly rate of wage. All hours worked on Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.
- G. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
- H. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other overtime hours worked, except Labor Day, and all hours on Sunday shall be paid at double the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.

**Holiday Codes**

5. A. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, and Christmas Day (7).
- B. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, the day before Christmas, and Christmas Day (8).
- C. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8).

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**Holiday Codes Continued**

5. D. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8).
- H. Holidays: New Year's Day, Memorial Day, Independence Day, Thanksgiving Day, the Day after Thanksgiving Day, And Christmas (6).
- I. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day (6).
- J. Holidays: New Year's Day, Memorial Day, Independence Day, Thanksgiving Day, Friday after Thanksgiving Day, Christmas Eve Day, And Christmas Day (7).
- K. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday After Thanksgiving Day, The Day Before Christmas, And Christmas Day (9).
- L. Holidays: New Year's Day, Martin Luther King Jr. Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, And Christmas Day (8).
- N. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, The Friday After Thanksgiving Day, And Christmas Day (9).
- P. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday And Saturday After Thanksgiving Day, The Day Before Christmas, And Christmas Day (9). If A Holiday Falls On Sunday, The Following Monday Shall Be Considered As A Holiday.
- Q. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day (6).
- R. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Day After Thanksgiving Day, One-Half Day Before Christmas Day, And Christmas Day. (7 1/2).
- S. Paid Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, And Christmas Day (7).
- T. Paid Holidays: New Year's Day, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, Christmas Day, And The Day Before Or After Christmas (9).
- Z. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8).
6. A. Paid Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8).
- E. Paid Holidays: New Year's Day, Day Before Or After New Year's Day, Presidents Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and a Half-Day On Christmas Eve Day. (9 1/2).
- G. Paid Holidays: New Year's Day, Martin Luther King Jr. Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and Christmas Eve Day (11).

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**Holiday Codes Continued**

6. H. Paid Holidays: New Year's Day, New Year's Eve Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday After Thanksgiving Day, Christmas Day, The Day After Christmas, And A Floating Holiday (10).
- I. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday After Thanksgiving Day, And Christmas Day (7).
- T. Paid Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, The Last Working Day Before Christmas Day, And Christmas Day (9).
- Z. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, And Christmas Day (7). If a holiday falls on Saturday, the preceding Friday shall be considered as the holiday. If a holiday falls on Sunday, the following Monday shall be considered as the holiday.
7. A. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8). Any Holiday Which Falls On A Sunday Shall Be Observed As A Holiday On The Following Monday. If any of the listed holidays falls on a Saturday, the preceding Friday shall be a regular work day.
- B. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- C. Holidays: New Year's Day, Martin Luther King Jr. Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- D. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8). Unpaid Holidays: President's Day. Any paid holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any paid holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- E. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- F. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the last working day before Christmas day and Christmas day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- G. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day (6). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday.
- H. Holidays: New Year's Day, Martin Luther King Jr. Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the Last Working Day before Christmas Day and Christmas Day (9). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

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**Holiday Codes Continued**

7. I. Holidays: New Year's Day, President's Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, The Day Before Christmas Day And Christmas Day (9). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- J. Holidays: New Year's Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day and Christmas Day (6). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- K. Holidays: New Year's Day, Memorial Day, Independence Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- L. Holidays: New Year's Day, Memorial Day, Labor Day, Independence Day, Thanksgiving Day, the Last Work Day before Christmas Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- M. Paid Holidays: New Year's Day, The Day after or before New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, And the Day after or before Christmas Day (10). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- N. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. When Christmas falls on a Saturday, the preceding Friday shall be observed as a holiday.
- P. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday.
- Q. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the Last Working Day before Christmas Day and Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. If any of the listed holidays falls on a Saturday, the preceding Friday shall be a regular work day.
- R. Paid Holidays: New Year's Day, the day after or before New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and the day after or before Christmas Day (10). If any of the listed holidays fall on Saturday, the preceding Friday shall be observed as the holiday. If any of the listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly.
- S. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, Christmas Day, the Day after Christmas, and A Floating Holiday (9). If any of the listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly.



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**Holiday Codes Continued**

- T. Paid Holidays: New Year's Day, the Day after or before New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and The Day after or before Christmas Day. (10). If any of the listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

**Note Codes**

8. D. Workers working with supplied air on hazmat projects receive an additional \$1.00 per hour.
- L. Workers on hazmat projects receive additional hourly premiums as follows -Level A: \$0.75, Level B: \$0.50, And Level C: \$0.25.
- M. Workers on hazmat projects receive additional hourly premiums as follows: Levels A & B: \$1.00, Levels C & D: \$0.50.
- N. Workers on hazmat projects receive additional hourly premiums as follows -Level A: \$1.00, Level B: \$0.75, Level C: \$0.50, And Level D: \$0.25.
- P. Workers on hazmat projects receive additional hourly premiums as follows -Class A Suit: \$2.00, Class B Suit: \$1.50, Class C Suit: \$1.00, And Class D Suit \$0.50.
- Q. The highest pressure registered on the gauge for an accumulated time of more than fifteen (15) minutes during the shift shall be used in determining the scale paid.
- R. Effective August 31, 2012 – A Traffic Control Supervisor shall be present on the project whenever flagging or spotting or other traffic control labor is being utilized. A Traffic Control Laborer performs the setup, maintenance and removal of all temporary traffic control devices and construction signs necessary to control vehicular, bicycle, and pedestrian traffic during construction operations. Flaggers and Spotters shall be posted where shown on approved Traffic Control Plans or where directed by the Engineer. All flaggers and spotters shall possess a current flagging card issued by the State of Washington, Oregon, Montana, or Idaho. These classifications are only effective on or after August 31, 2012.
- S. Effective August 31, 2012 – A Traffic Control Supervisor shall be present on the project whenever flagging or spotting or other traffic control labor is being utilized. Flaggers and Spotters shall be posted where shown on approved Traffic Control Plans or where directed by the Engineer. All flaggers and spotters shall possess a current flagging card issued by the State of Washington, Oregon, Montana, or Idaho. This classification is only effective on or after August 31, 2012.
- T. Effective August 31, 2012 – A Traffic Control Laborer performs the setup, maintenance and removal of all temporary traffic control devices and construction signs necessary to control vehicular, bicycle, and pedestrian traffic during construction operations. Flaggers and Spotters shall be posted where shown on approved Traffic Control Plans or where directed by the Engineer. All flaggers and spotters shall possess a current flagging card issued by the State of Washington, Oregon, Montana, or Idaho. This classification is only effective on or after August 31, 2012.

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**Note Codes Continued**

8. U. Workers on hazmat projects receive additional hourly premiums as follows – Class A Suit: \$2.00, Class B Suit: \$1.50, And Class C Suit: \$1.00. Workers performing underground work receive an additional \$0.40 per hour for any and all work performed underground, including operating, servicing and repairing of equipment. The premium for underground work shall be paid for the entire shift worked. Workers who work suspended by a rope or cable receive an additional \$0.50 per hour. The premium for work suspended shall be paid for the entire shift worked. Workers who do “pioneer” work (break open a cut, build road, etc.) more than one hundred fifty (150) feet above grade elevation receive an additional \$0.50 per hour.
- V. In addition to the hourly wage and fringe benefits, the following depth and enclosure premiums shall be paid. The premiums are to be calculated for the maximum depth and distance into an enclosure that a diver reaches in a day. The premiums are to be paid one time for the day and are not used in calculating overtime pay.
- Depth premiums apply to depths of fifty feet or more. Over 50' to 100' - \$2.00 per foot for each foot over 50 feet. Over 101' to 150' - \$3.00 per foot for each foot over 101 feet. Over 151' to 220' - \$4.00 per foot for each foot over 220 feet. Over 221' - \$5.00 per foot for each foot over 221 feet.
- Enclosure premiums apply when divers enter enclosures (such as pipes or tunnels) where there is no vertical ascent and is measured by the distance travelled from the entrance. 25' to 300' - \$1.00 per foot from entrance. 300' to 600' - \$1.50 per foot beginning at 300'. Over 600' - \$2.00 per foot beginning at 600'.
- W. Meter Installers work on single phase 120/240V self-contained residential meters. The Lineman/Groundmen rates would apply to meters not fitting this description.