

City of Sumner
Pierce County, Washington



CITY OF
SUMNER
WASHINGTON

CONTRACT PROVISIONS

BID DOCUMENTS

Contract Documents
Bid Proposal
Project Specifications
and Special Provisions

FOR

CITY HALL ROOF REPLACEMENT

(CIP 23-05)

CERTIFICATION PAGE

The technical material and data contained in this document were prepared under the supervision and direction of the undersigned, whose seal, as a professional engineer licensed to practice as such, is affixed below.

Drew McCarty
Prepared By

Approved By



CITY OF SUMNER

Approved for Construction
City of Sumner Public Works Department

By: _____
Signature

Date

Printed Name

TABLE OF CONTENTS

PART I - LEGAL DOCUMENTS

<u>CALL FOR BIDS</u>	1-2
<u>BIDDER'S CHECKLIST</u>	3
<u>PROPOSAL – SIGNATURE PAGE</u>	4
<u>PROPOSAL</u>	5-6
<u>SUBCONTRACTOR LIST</u>	7
<u>PROPOSAL BOND</u>	8
<u>CERTIFICATE AS TO ENTITY PRINCIPAL</u>	9
<u>CERTIFICATE AS TO ENTITY SEAL</u>	10
<u>NON-COLLUSION DECLARATION</u>	11
<u>CERTIFICATION OF COMPLIANCE WITH WAGE PAYMENT STATUTES</u>	12
<u>EXAMPLE CONTRACT</u>	14-26
<u>PAYMENT AND PERFORMANCE BOND</u>	27-28
<u>CERTIFICATE OF INSURANCE</u>	29
<u>PREVAILING WAGES</u>	30-33
<u>REQUEST FOR RELEASE</u>	34

PART II - SPECIAL PROVISIONS

DIVISION 1 – GENERAL REQUIREMENTS

Minor Changes.....	35
Insurance	35-39
Liquidated Damages.....	39

DIV 8 – MISCELLANEOUS CONSTRUCTION

Description of Work	39
Materials	39-42
Measurement & Payment.....	42-43

PART III - APPENDICES

APPENDIX A - WASHINGTON STATE PREVAILING WAGE RATES	44-62
APPENDIX B – MALARKEY INSTALLATION INSTRUCTIONS.....	63-72
APPENDIX C – OATEY ROOF FLASHINGS.....	73
APPENDIX D – SITE PLAN & CITY HALL ROOF PLAN DATED 09/07/2000.....	74

PART I

LEGAL DOCUMENTS

**CALL FOR BIDS
CITY OF SUMNER
City Hall Roof Replacement
(CIP 23-05)**

The City of Sumner will accept Sealed Bids at the Permit Center counter located on the second floor of Sumner City Hall, 1104 Maple Street, Sumner, WA 98390, until **10:00 a.m. Tuesday, May 9, 2023 (Bid Opening Date)** as displayed at <https://www.time.gov/>. If a Bidder chooses to submit a sealed bid before the Bid Opening Date, the Bidder shall call to schedule an appointment to deliver their bid. A staff member will be present at the Permit Center counter on the Bid Opening Date to receive sealed bids between 8:00 a.m. and 10:00 a.m. Just after 10:00 a.m. on the Bid Opening Date, bids will be formally opened and publicly read aloud in the City Council Chambers, located on the first floor of Sumner City Hall. Bids received after the Bid Opening Date will be deemed non-responsive.

A pre-bid meeting will be held on Tuesday, May 2, 2023 at 10:00 am at the project site located at 1104 Maple Street, Sumner WA 98390. Prospective bidders are encouraged to participate. Attendance of the pre-bid conference is voluntary.

The City of Sumner reserves the right to waive informalities in the bidding, accept a bid proposal of the lowest responsible and responsive bidder (Successful Bidder), reject any or all Bids, republish the Call for Bids, revise or cancel the scope of work, or require the work to be done in another way if doing so is in the best interest of the City.

All submitted bids shall be accompanied by a bid proposal deposit (certified or cashier's check or approved bond) payable to the City of Sumner in an amount not less than five percent (5%) of the amount of the proposal price. Should the Successful Bidder fail to enter into a contract with the City and furnish a satisfactory performance bond within the time stated in the specifications, the bid proposal deposit shall be forfeited to the City of Sumner.

The City of Sumner, as an Affirmative Action/Equal Opportunity employer, and in accordance with Title VI of the Civil Rights Act of 1964, 78 Stat. 252, 42 U.S.C. 2000d to 2000d-4 and Title 49, Code of Federal Regulations, Department of Transportation, Subtitle A, Office of the Secretary, Part 21, Nondiscrimination in Federally Assisted Programs of the Department of Transportation issued pursuant to such Act, hereby notifies all bidders that it will affirmatively ensure that in any contract entered into pursuant to this advertisement, disadvantaged business enterprises as defined at 49 CFR Part 26 will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, national origin, or sex in consideration for an award.

The Successful Bidder will be required to conform to the wage requirements prescribed by the federal Davis-Bacon and Related Acts which requires that all laborers and mechanics employed by contractors and subcontractors performing on contracts funded in whole or in part by SRF appropriations in excess of \$2,000 pay their laborers and mechanics not less than the prevailing wage rates and fringe benefits, as determined by the Secretary of Labor, for corresponding classes of laborers and mechanics employed on similar projects in the area.

Plans, Specifications, and addenda for this project may be viewed online at the MRSC Roster Bonfire electronic bidding portal at:
<https://mrscrosters.bonfirehub.com/portal/?tab=openOpportunities>.

Free vendor registration is required to use this platform. It is the Bidder's responsibility to check for addenda and other new documents online.

The public work for which bids are being accepted is described as follows:

The current roof of City Hall and generator storage building is a composition shingle roof and will need to be removed and replaced. Some sections of the underlying plywood sheets may also need to be replaced depending on their conditions. City Hall is approximately 27,350 square feet. The tenant will occupy the site and existing building during construction.

Work shall commence within ten (10) calendar days after execution of the contract and the issuance of a notice to proceed; and shall be completed within **thirty (30) working days**.

The Engineer's estimate range for this project is between \$350,000 and \$400,000. For technical questions, please reach out to Drew McCarty, Engineering Specialist, at 253-299-5719, drewm@sumnerwa.gov.

Dated this 19th day of April 2023.

By: _____
Drew McCarty – Engineering Specialist

Dates of publication in the Courier Herald: April 19, 2023

Dates of publication in the Seattle Daily Journal of Commerce: April 19, 2023

BIDDER'S CHECKLIST

The Bidder's attention is especially called to the following forms, which must be completed in full as required and submitted collectively as the Bid Proposal package. Any bid that does not contain all these items may be deemed nonresponsive in the sole discretion of the City.

1. Proposal Signature Page

2. Proposal/Bid

The "Price Per Unit" and "Total Amount" for all schedules must be shown in the spaces provided. "Total Bid" must be completed.

3. Subcontractor List - DOT Form 271-015 EF

4. Bid Proposal Deposit

The "Proposal Bond" form is to be completed by the Bidder and the surety company unless Bid is accompanied by a certified check, postal money order, cash, or cashier's check. The amount of this deposit shall not be less than five (5) percent of the total amount of the Bid Proposal and may be shown in dollars or on a percentage basis.

5. Certificate as to Entity Principal

6. Certificate as to Entity Seal

7. Non-Collusion Declaration

8. Certification of Compliance with Wage Payment Statutes

9. Five (5) completed Work Experience Forms:

- **Provide for five (5) similar shingle roof system commercial installations completed in the last ten (10) years.**

PROPOSAL – SIGNATURE PAGE

The bidder is hereby advised that by signature of this proposal he/she is deemed to have acknowledged all requirements and signed all certificates contained herein.

A proposal guaranty in an amount of five percent (5%) of the total bid, based upon the approximate estimate of quantities at the above prices and in the form as indicated below is attached hereto:

- Cash In the Amount of _____
- Cashier's Check _____ Dollars
- Certified Check (\$ _____) Payable to the City of Sumner
- Proposal Bond In the Amount of 5% of the Bid

Receipt is hereby acknowledged of addendum(s) No.(s) _____ , _____ , & _____

Signature of Authorized Official(s)

Proposal Must be Signed

_____ →

Title:

Firm Name:

Address:

Phone Number

**State of Washington
Contractor's License No.:**

DUNS No. (if acquired)

CAGE Code (if acquired)

UBI #

**Sumner Business License
No. (if acquired)**

Note:

- (1) This proposal form is not transferable, and any alteration of the firm's name entered hereon without prior permission from the City of Sumner will be cause for considering the proposal irregular and subsequent rejection of the bid.
- (2) Please refer to Section 1-02.6 of the 2023 WSDOT standard specifications, re: "Preparation of Proposal," or "Item 6" of the Instruction to Bidders for building construction jobs.
- (3) Should it be necessary to modify this proposal either in writing or by electronic means, please make reference to the following proposal number in your communication: CIP 23-05.

PROPOSAL

To: City of Sumner

- Pursuant to and in compliance with your Advertisement for Bids and the other documents relating thereto, the undersigned Bidder, having familiarized themselves with the terms of the project related to those items herein bid, being aware of the local conditions affecting the performance of a Contract covering the items bid, having knowledge of the cost of the work at the place where the work is to be done and having familiarized themselves with the Contract Documents, hereby proposes and agrees to perform the work and/or to furnish the equipment, any or all of the labor, materials, tools, expendable equipment and all utility and transportation services necessary to perform a Contract covering any or all of those items herein bid and to complete in a workmanlike manner all work covered by said Contract in connection with the **City Hall Roof Replacement, CIP 23-05**, for the amounts stated below.

BID ITEMS (See Special Provisions and 2023 WSDOT Standard Specifications for description of bid items)

Bid Item Schedule

CIP 23-05 City Hall Roof Replacement					
Item No.	Estimated Quantity	Unit	Description of Item	Unit Price	Amount
1	1	Lump Sum	Mobilization \$ _____	\$ _____	\$ _____
2	1	Lump Sum	Minor Change \$ _____	\$10,000	\$10,000
3	1	Lump Sum	Replace Existing Roof and Underlayment on City Hall Building and Generator/Storage Building \$ _____	\$ _____	\$ _____
4	15	Each	1/2" Thick 4'x8' Plywood Sheets (estimate of 15 sheets) \$ _____	\$ _____	\$ _____

Bid Total \$ _____

To Be Submitted with the Bid Proposal

Project Name _____

Failure to list subcontractors with whom the bidder, if awarded the contract, will directly subcontract for performance of the structural steel installation, rebar installation, heating, ventilation and air conditioning, plumbing, as described in Chapter 18.106 RCW, and electrical, as described in Chapter 19.28 RCW or naming more than one subcontractor to perform the same work will result in your bid being non-responsive and therefore void.

Subcontractor(s) with whom the bidder will directly subcontract that are proposed to perform the work of structural steel installation, rebar installation, heating, ventilation and air conditioning, plumbing, as described in Chapter 18.106 RCW, and electrical as described in Chapter 19.28 RCW must be listed below. The work to be performed is to be listed below the subcontractor(s) name.

To the extent the Project includes one or more categories of work referenced in RCW 39.30.060, and no subcontractor is listed below to perform such work, the bidder certifies that the work will either (i) be performed by the bidder itself, or (ii) be performed by a lower tier subcontractor who will not contract directly with the bidder.

Subcontractor Name _____
 Work to be performed _____

Subcontractor Name _____
 Work to be performed _____

Subcontractor Name _____
 Work to be performed _____

Subcontractor Name _____
 Work to be performed _____

Subcontractor Name _____
 Work to be performed _____

* Bidder's are notified that is the opinion of the enforcement agency that PVC or metal conduit, junction boxes, etc, are considered electrical equipment and therefore considered part of electrical work, even if the installation is for future use and no wiring or electrical current is connected during the project.
 DOT Form 271-015 (Revised 06/2020)

Proposal Bond

KNOW ALL PERSONS BY THESE PRESENTS, That we, _____
Of _____ as principal, and the _____
a corporation duly organized under the laws of the state of _____,
and authorized to do business in the State of Washington, as surety, are held and firmly bound
unto the City of Sumner in the full and penal sum of five (5) percent of the total amount of the
bid proposal of said principal for the work hereinafter described, for the payment of which, well
and truly to be made, we bind our heirs, executors, administrators and assigns, and successors
and assigns, firmly by these presents.

The condition of this bond is such, that whereas the principal herein is herewith submitting his or
its sealed proposal for the following highway construction, to wit:

said bid and proposal, by reference thereto, being made a part hereof.

NOW, THEREFORE, if the said proposal bid by said principal be accepted, and the contract be
awarded to said principal, and if said principal shall duly make and enter into and execute said
contract and shall furnish bond as required by the City of Sumner within a period of twenty (20)
days from and after said award, exclusive of the day of such award, then this obligation shall be
null and void, otherwise it shall remain and be in full force and effect.

IN TESTIMONY WHEREOF, the principal and surety have caused these presents to be signed
and sealed this _____ day of _____, _____.

(Principal)

(Surety)

(Attorney-in-fact)

CERTIFICATE AS TO ENTITY PRINCIPAL

I, _____, certify that I am the _____ of the Entity named as Contractor in the agreement attached hereto, that _____, who signed said agreement on behalf of the Contractor, is the _____ of said entity; that said agreement was duly signed on and in behalf of said entity by authority of its governing persons, and is within the scope of its powers.

By: _____
 Title: _____

State of _____)
) ss.
 County of _____)

_____ being duly sworn deposes and says that he/she/they is/are

_____ of _____
 (Title) (Name of Entity)

Subscribed and sworn to before me this ____ day of _____, 20____.

 Notary Public
 My commission expires _____, 20____
 Bond No. _____

CERTIFICATE AS TO ENTITY SEAL

I hereby certify that I am the _____ of the Entity named as Principal in the within Bond; that _____ who signed the said Bond on behalf of the Principal is _____ of said Entity; that I know their signature thereon is genuine, and that said Bond was duly signed, sealed, and attested for on behalf of said Entity by authority of its governing persons.

(Signature)

(Title)

Failure to return this Declaration as part of the bid proposal package will make the bid nonresponsive and ineligible for award.

NON-COLLUSION DECLARATION

I, by signing the proposal, hereby declare, under penalty of perjury under the laws of the United States that the following statements are true and correct:

1. That the undersigned person(s), firm, association or corporation has (have) not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with the project for which this proposal is submitted.
2. **That by signing the signature page of this proposal, I am deemed to have signed and to have agreed to the provisions of this declaration.**

NOTICE TO ALL BIDDERS

To report rigging activities call:

1-800-424-9071

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

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

SR

DOT Form 272-036H EF
Revised 5/06



Certification of Compliance with Wage Payment Statutes

The bidder hereby certifies that, within the three-year period immediately preceding the bid solicitation date of _____, the bidder is not a "willful" violator, as defined in RCW 49.48.082, of any provision of RCW chapters 49.46, 49.48, or 49.52, as determined by a final and binding citation and notice of assessment issued by the Department of Labor and Industries or through a civil judgment entered by a court of limited or general jurisdiction.

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
- LLC

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

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

* For 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). For a co-partnership, proposal must be executed by a partner.



Work Experience Form

Please complete one form per project and include the minimum number of projects (and forms) as requested. You may include any additional work experience you deem relevant to determining bidder responsibility. Please be sure to provide a thorough description of the work to demonstrate how your firm meets any required experience detailed in the specifications. You may attach additional documentation if needed.

PAST PROJECT EXPERIENCE DETAIL			
BIDDER'S COMPANY NAME		BIDDER CONTACT NAME & PHONE NUMBER	
PROJECT NAME			PROJECT CONTRACT NUMBER
PROJECT OWNER		PROJECT LOCATION	
PROJECT OWNER CONTACT NAME & TITLE		OWNER'S TELEPHONE NUMBER	
CONTRACT DAYS SPECIFIED AT BID:	ACTUAL CONTRACT DAYS:	AWARDED CONTRACT VALUE	FINAL CONTRACT VALUE
PRIME CONTRACTOR NAME (IF NOT BIDDER)		CONTRACTOR CONTACT NAME & PHONE NUMBER (IF NOT BIDDER)	
BRIEF PROJECT DESCRIPTION			

BRIEF SUMMARY OF TECHNICAL WORK COMPLETED BY BIDDER, INCLUDING ANY RELEVANT DETAILS TTO DEMONSTRATE SIMILAR EXPERIENCE AND ANY REQUIRED EXPERIENCE DETAILED IN THE SPEC.

PUBLIC WORKS CONTRACT between City of Sumner and

THIS AGREEMENT, made and entered into this _____ day of _____, _____, between the City of Sumner under and by virtue of Title 35 RCW (Cities and towns) as amended and _____, hereinafter called the Contractor.

WITNESSETH:

That in consideration of the terms and conditions contained herein and attached and made a part of this agreement, the parties hereto covenant and agree as follows:

- I. The Contractor shall do all work and furnish all tools, materials, and equipment for

CITY HALL ROOF REPLACEMENT

in accordance with and as described in the (a) attached maps, and special provisions, and (b) the 2023 standard specifications of the Washington State Department of Transportation all of which are considered the "Contract Documents" which are by the reference incorporated herein and made part hereof and, shall perform any changes in the work in accord with the Contract Documents.

The Contractor shall provide and bear the expense of all equipment, work and labor, of any sort whatsoever that may be required for the transfer of materials and for constructing and completing the work provided for in these Contract Documents except those items mentioned therein to be furnished by the City of Sumner.

- II. The City of Sumner hereby promises and agrees with the Contractor to employ, and does employ the Contractor to provide the materials and to do and cause to be done the above described work and to complete and finish the same in accord with the attached plans and specifications and the terms and conditions herein contained and hereby contracts to pay for the same according to the attached specifications and the schedule of unit or itemized prices at the time and in the manner upon the conditions provided for in this contract.
- III. The Contractor for themselves, and for their heirs, executors, administrators, successors, and kin, does hereby agree to the full performance of all the covenants herein contained upon the part of the Contractor.
- IV. Contractor's Employees – Employment Eligibility Requirements (E-Verify).

The Contractor and any subcontractors shall comply with E-Verify as set forth in Sumner Municipal Code Chapter 3.30. E-Verify is an Internet-based system operated by United States Citizenship and Immigration Services in partnership with the Social Security Administration. E-Verify is free to employers and is available in all 50 states. E-Verify provides an automated link to federal databases to help employers determine employment eligibility of new hires and the validity of their Social Security numbers. The Contractor shall enroll in, participate in and document use of E-Verify as a condition of the award of this contract. The Contractor shall continue participation in E-Verify throughout the course of the Contractor's contractual relationship with the City. If the Contractor uses or employs any subcontractor in the performance of work under this contract, or any subsequent renewals, modifications or extension of this contract, the subcontractor shall register in and participate in E-Verify and certify such participation to the Contractor. Upon execution of this Contract, the Contractor shall provide proof of compliance with this section by filling out and signing the attached Certification of Compliance with Sumner's Municipal Code 3.30 "E-Verify" attached hereto as Exhibit B.

- V. It is further provided that no liability shall attach to the City of Sumner by reason of entering into this contract except as provided herein.
- VI. Debarment. The Contractor must certify that it, and its subcontractors, have not been and are not currently on the Federal or the Washington State Debarment List and if the Contractor or its subcontractors become listed on the Federal or State Debarment List, the City will be notified immediately.
- VII. Application of Uniform Guidance. If this contract involves the use, in whole or in part, of federal award(s), provisions (A)-(K) in Appendix II to Part 200 of the Uniform Guidance (2 CFR Ch. 11 (1-1-14 edition)) are hereby incorporated, as applicable, as if fully set forth herein. See attached Exhibit C.

IN WITNESS WHEREOF, the Contractor has executed this instrument, on the day and year first below written and the Local Agency Approving Authority has caused this instrument to be executed by and in the name of said City of Sumner the day and year first above written.

CONTRACTOR:
By: _____
(signature)
Print Name: _____
Its _____
(Title)
DATE: _____

CITY OF SUMNER:
By: _____
(signature)
Print Name: Kathy Hayden
Its Mayor
(Title)
DATE: _____
By: _____
(signature) Print
Name: Jason Wilson
Its City Administrator

	<i>(Title)</i> DATE: _____
	Attest: _____ Approved as to form: _____
	City Clerk _____ City Attorney _____
	DATE: _____ DATE: _____

NOTICES TO BE SENT TO:
CONTRACTOR:

(telephone)
(facsimile)

NOTICES TO BE SENT TO: CITY
OF SUMNER:

City of Sumner 1104
Maple Street
Sumner, WA 98390
253-299-XXXX (telephone) 253-
299-XXXX (facsimile)

"EXHIBIT B"
CITY OF SUMNER

CERTIFICATION OF COMPLIANCE WITH SUMNER MUNICIPAL
CODE CHAPTER 3.30 "E-VERIFY"

As the person duly authorized to enter into such commitment for

I hereby certify that the Company or Organization named herein will

(check one box below)

- Be in compliance with all of the requirements of City of Sumner Municipal Code Chapter 3.30 for the duration of the contract entered into between the City of Sumner and the Company or Organization.

OR

- Hire no employees for the term of the contract between the City and the Company or Organization.

NAME

TITLE

DATE

EXHIBIT C

APPENDIX II TO PART 200---CONTRACT PROVISIONS FOR NON-FEDERAL ENTITY CONTRACTS UNDER FEDERAL AWARDS

In addition to other provisions required by the Federal agency or non-Federal entity, all contracts made by the City of Sumner under federal award(s) are subject to the following provisions, as applicable.

(A) Contracts for more than the simplified acquisition threshold currently set at \$150,000, which is the inflation adjusted amount determined by the Civilian Agency Acquisition Council and the Defense Acquisition Regulations Council (Councils) as authorized by 41 U.S.C. 1908, must address administrative, contractual, or legal remedies in instances where contractors violate or breach contract terms, and provide for such sanctions and penalties as appropriate.

(B) All contracts in excess of \$10,000 must address termination for cause and for convenience by the non-Federal entity including the manner by which it will be effected and the basis for settlement.

(C) Equal Employment Opportunity. Except as otherwise provided under 41 CFR Part 60, all contracts that meet the definition of "federally assisted construction contract" in 41 CFR Part 60-1.3 must include the equal opportunity clause provided under 41 CFR 60-1.4(b), in accordance with Executive Order 11246, "Equal Employment Opportunity" (30 FR 12319, 12935, 3 CFR Part, 1964- 1965 Comp., p. 339), as amended by Executive Order 11375, "Amending Executive Order 11246 Relating to Equal Employment Opportunity," and implementing at 41 CFR part 60, "Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor."

(D) Davis-Bacon Act, as amended (40 U.S.C. 3141-3148). When required by Federal program legislation, all prime construction contracts in excess of \$2,000 awarded by non-Federal entities must include a provision for compliance with the Davis-Bacon Act (40 U.S .C. 3141-3144, and 3146-3148) as supplemented by Department of Labor regulations (29 CFR Part 5, "Labor Standards Provisions Applicable to Contracts Covering Federally Financed and Assisted Construction"). In accordance with the statute, the following language is hereby incorporated into the contract as if fully set forth therein:

Application of Uniform Guidance. If this contract involves the use, in whole or in part, of federal award(s), the following provisions (29 CFR, Subtitle A Part 5, Subpart A, § 5.5, subsections (a)(1) – (a)(10)) shall apply:

(1) Minimum wages.

(i) All laborers and mechanics employed or working upon the site of the work (or under the United States Housing Act of 1937 or under the Housing Act of 1949 in the construction or development of the project), will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics. Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph (a)(1)(iv) of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in § 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph (a)(1)(ii) of this section) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

(ii)

(A) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

- (1) The work to be performed by the classification requested is not performed by a classification in the wage determination; and
- (2) The classification is utilized in the area by the construction industry; and
- (3) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(B) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(C) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Administrator for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(D) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs (a)(1)(ii) (B) or (C) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

(iii) Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

(iv) If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

(2) Withholding. The City of Sumner shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld from the contractor under this contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon

prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work (or under the United States Housing Act of 1937 or under the Housing Act of 1949 in the construction or development of the project), all or part of the wages required by the contract, the (Agency) may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

(3) Payrolls and basic records.

(i) Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work (or under the United States Housing Act of 1937, or under the Housing Act of 1949, in the construction or development of the project). Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

(ii) (A) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the City if the agency is a party to the contract, but if the agency is not such a party, the contractor will submit the payrolls to the applicant, sponsor, or owner, as the case may be, for transmission to the City. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g., the last four digits of the employee's social security number). The required weekly

payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at <http://www.dol.gov/esa/whd/forms/wh347instr.htm> or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the City if the agency is a party to the contract, but if the agency is not such a party, the contractor will submit them to the applicant, sponsor, or owner, as the case may be, for transmission to the City, the contractor, or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the sponsoring government agency (or the applicant, sponsor, or owner).

(B) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(1) That the payroll for the payroll period contains the information required to be provided under § 5.5 (a)(3)(ii) of Regulations, 29 CFR part 5, the appropriate information is being maintained under § 5.5 (a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete;

(2) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR part 3;

(3) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(C) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph (a)(3)(ii)(B) of this section.

(D) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.

(iii) The contractor or subcontractor shall make the records required under paragraph (a)(3)(i) of this section available for inspection, copying, or transcription by authorized representatives of the City or the Department of

Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the Federal agency may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

(4) Apprentices and trainees.

(i) Apprentices. Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice. The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed. Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination. In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an

apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(ii) Trainees. Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration. The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(iii) Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.

(5) Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract.

(6) Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses contained in 29 CFR 5.5(a)(1) through (10) and such other clauses as the City may by appropriate instructions require, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

(7) Contract termination: debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

(8) Compliance with Davis-Bacon and Related Act requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.

(9) Disputes concerning labor standards. Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7.. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

(10) Certification of eligibility.

(i) By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

(ii) No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

(iii) The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

(E) Contract Work Hours and Safety Standards Act (40 U.S.C. 3701-3708). Where applicable, all contracts awarded by the non-Federal entity in excess of \$100,000 that involve the employment of mechanics or laborers must include a provision for compliance with 40 U.S.C. 3702 and 3704, as supplemented by Department of Labor regulations (29 CFR Part 5). Under 40 U.S.C. 3702 of the Act, each contractor must be required to compute the wages of every mechanic and laborer on the basis of a standard work week of 40 hours. Work in excess of the standard work week is permissible provided that the worker is compensated at a rate of not less than one and a half times the basic rate of pay for all hours worked in excess of 40 hours in the work week. The requirements of 40 U.S.C. 3704 are applicable to construction work and provide that no laborer or mechanic must be required to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous. These requirements do not apply to the purchases of supplies or materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence.

(F) Rights to Inventions Made Under a Contract or Agreement. If the Federal award meets the definition of "funding agreement" under 37 CFR §401.2 (a) and the recipient or sub recipient wishes to enter into a contract with a small business firm or nonprofit organization regarding the substitution of parties, assignment or performance of experimental, developmental, or research work under that "funding agreement," the recipient or sub recipient must comply with the requirements of 37 CFR Part 401, "Rights

to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements," and any implementing regulations issued by the awarding agency.

(G) Clean Air Act (42 U.S .C. 7401-7671q.) and the Federal Water Pollution Control Act (33 U.S.C. 1251-1387), as amended-Contracts and sub grants of amounts in excess of \$150,000 must contain a provision that requires the non-Federal award to agree to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401-7671q) and the Federal Water Pollution Control Act as amended (33 U.S.C. 1251-1387). Violations must be reported to the Federal awarding agency and the Regional Office of the Environmental Protection Agency (EPA).

(H) 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 (42 U.S .C. 6201).

(I) Debarment and Suspension (Executive Orders 12549 and 12689)-A contract award (see 2 CFR 180.220) must not be made to parties listed on the government wide Excluded Parties List System in the System for Award Management (SAM), in accordance with the OMB guidelines at 2 CFR 180 that implement Executive Orders 12549 (3 CFR Part 1986 Comp., p. 189) and 12689 (3 CFR Part 1989 Comp., p. 235), " Debarment and Suspension." The Excluded Parties List System in SAM contains the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than Executive Order 12549.

(J) Byrd Anti-Lobbying Amendment (31 U.S.C. 1352)-Contractors that apply or bid for an award of \$100,000 or more must file the required certification. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or at tempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant or any other award covered by 31 U.S.C . 1352. Each tier must also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the non-Federal award.



PAYMENT AND PERFORMANCE BOND TO CITY OF SUMNER

KNOW ALL PERSONS BY THESE PRESENTS:

That we, the undersigned, _____

as Principal, as and _____

A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF WASHINGTON, AS A SURETY CORPORATION, AND QUALIFIED UNDER THE LAWS OF THE STATE OF WASHINGTON TO BECOME SURETY UPON BONDS OF CONTRACTORS WITH MUNICIPAL CORPORATIONS, AS SURETY, ARE JOINTLY AND SEVERALLY HELD AND FIRMLY BOUND TO THE CITY OF SUMNER IN THE PENAL SUM OF \$ _____, TOGETHER WITH ANY ADJUSTMENTS, UP OR DOWN, IN THE TOTAL CONTRACT PRICE BECAUSE OF CHANGES IN THE CONTRACT WORK, FOR THE PAYMENT OF WHICH SUM ON DEMAND WE BIND OURSELVES AND OUR SUCCESSORS, HEIRS, ADMINISTRATORS OR PERSONAL REPRESENTATIVES, AS THE CASE MAY BE.

This obligation is entered into in pursuance of the statutes of the State of Washington, and the Codes and Ordinances of the CITY OF SUMNER.

Nevertheless, the conditions of the above obligation are such that:

WHEREAS, under and pursuant to a motion, duly made, seconded and passed by the City Council of the City of Sumner, Pierce County, Washington, the Mayor of the City of Sumner has let or is about to let to the above bounden Principal, a certain contract, the said contract providing for construction of **City Hall Roof Replacement** (which contract is referred to herein and is made a part hereof as though attached hereto), and

WHEREAS, the Principal has accepted, or is about to accept, the contract, and undertake to perform the work therein provided for in the manner and within the time set forth:

NOW, THEREFORE, if the Principal shall faithfully perform all the provisions of said contract in the manner and within the time herein set forth, or within such extensions of time as may be granted under the said contract, and shall pay all laborers, mechanics, subcontractors and material persons, and all persons who shall supply the Principal or subcontractors with provisions and supplies for the carrying on of said work and shall indemnify and hold the CITY OF SUMNER harmless from any damage or expense by reason of failure of performance as specified in said contract or from defects appearing or developing in the material or workmanship provided or performed under said contract, then and in that event this obligation shall be void; but otherwise it shall be and remain in full force and effect.

WARRANTY, Upon acceptance of the contract work, Contractor must provide the City a two-year warranty bond in the amount of 20% of the contract value specified above and in a

form acceptable to the City. The contractor shall correct all defects in workmanship and materials within two (2) years from the date of the city's acceptance of the Contract work. In the event any parts are repaired or replaced, only original replacement parts shall be used, rebuilt or used parts will not be acceptable. When defects are corrected, the warranty for that portion of the work shall extend for one (1) year from the date such correction is complete and accepted by the City. The Contractor shall begin to correct any defects within seven (7) calendar days of its receipt of notice from the City of the defect. If the Contractor does not complete the corrections within a reasonable time as determined by the City, the City may complete the corrections and the Contractor shall pay all costs incurred by the City in order to accomplish the correction.

IN WITNESS WHEREOF, THE ABOVE BOUNDEN PARTIES HAVE EXECUTED THIS INSTRUMENT UNDER THEIR SEPARATE SEALS. THE NAME AND CORPORATE SEAL (IF REQUIRED BY LAW) OF EACH CORPORATE PARTY IS HERETO AFFIXED AND DULY SIGNED BY ITS UNDERSIGNED REPRESENTATIVES PURSUANT TO AUTHORITY OF ITS GOVERNING BODY.

TWO WITNESSES:

PRINCIPAL (enter principal's name above)

_____ BY:

_____ TITLE:

DATE: _____

DATE: _____

_____ CORPORATE SEAL:

PRINT NAME

DATE: _____

SURETY

CORPORATE SEAL:

BY: _____

DATE: _____

TITLE: _____

ADDRESS: _____

CERTIFICATE OF INSURANCE (SAMPLE)

ACORD CERTIFICATE OF LIABILITY INSURANCE		POLICY ID NO. PARIN-1	DATE (MM/DD/YY) 10/02/00		
PRODUCER Hurley, Atkins & Stewart, Inc. 1800 Ninth Ave., #1500 Seattle WA 98101 Phone: 206-682-5656		THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.			
INSURED		INSURERS AFFORDING COVERAGE			
		INSURER A:			
		INSURER B:			
		INSURER C:			
		INSURER D:			
		INSURER E:			
COVERAGES					
THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.					
INSR LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS
	GENERAL LIABILITY COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS MADE <input type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC				EACH OCCURRENCE \$ FIRE DAMAGE (Any one fire) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ PRODUCTS - COMP/OP AGG \$
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS				COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
	GARAGE LIABILITY <input type="checkbox"/> ANY AUTO				AUTO ONLY - EA ACCIDENT \$ OTHER THAN EA ACC \$ AUTO ONLY: AGG \$
	EXCESS LIABILITY <input type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS MADE <input type="checkbox"/> DEDUCTIBLE RETENTION \$				EACH OCCURRENCE \$ AGGREGATE \$ \$ \$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY				WC STATU-TORY LIMITS: OTH-ER E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$
	OTHER				
DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/EXCLUSIONS ADDED BY ENDORSEMENT/SPECIAL PROVISIONS					
CERTIFICATE HOLDER		ADDITIONAL INSURED; INSURER LETTER:		CANCELLATION	
				SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL _____ DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT. BUT FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES.	

SAMPLE

STATEMENT OF INTENT TO PAY PREVAILING WAGES (Public Works Contract)

This project is subject to all provisions of RCW 39.12. A copy of the applicable prevailing wage schedule will be furnished upon request or can be obtained at Labor and Industries website at <https://secure.lni.wa.gov/wagelookup/> No payment shall be issued until the City receives a "Statement of Intent to Pay Prevailing Wages" form, approved by the State Department of Labor and Industries from the Contractor and every Subcontractor performing work on the site. No release of retainage will be made until 45 days after the City receives an "Affidavit of Wages Paid" from all contractors performing work on the site; receipt of releases from the Department of Revenue, Department of Labor & Industries, and the Employment Security Department; and settlement of any liens filed under Chapter 60.28 RCW, whichever is later.

RCW 39.12.040

Statement of intent to pay prevailing wages, affidavit of wages paid — Duty of public agencies to require

— Approval — Prerequisite to payment — Alternative procedure.

- (1) Except as provided in subsection (2) of this section, before payment is made by or on behalf of the state, or any county, municipality, or political subdivision created by its laws, of any sum or sums due on account of a public works contract, it shall be the duty of the officer or person charged with the custody and disbursement of public funds to require the contractor and each and every subcontractor from the contractor or a subcontractor to submit to such officer a "Statement of Intent to Pay Prevailing Wages." For a contract in excess of ten thousand dollars, the statement of intent to pay prevailing wages shall include:
 - (a) The contractor's registration certificate number; and
 - (b) The prevailing rate of wage for each classification of workers entitled to prevailing wages under RCW 39.12.020 and the estimated number of workers in each classification.

Each statement of intent to pay prevailing wages must be approved by the industrial statistician of the department of labor and industries before it is submitted to said officer. Unless otherwise authorized by the department of labor and industries, each voucher claim submitted by a contractor for payment on a project estimate shall state that the prevailing wages have been paid in accordance with the prefilled statement or statements of intent to pay prevailing wages on file with the public agency. Following the final acceptance of a public works project, it shall be the duty of the officer charged with the disbursement of public funds, to require the contractor and each and every subcontractor from the contractor or a subcontractor to submit to such officer an "Affidavit of Wages Paid" before the funds retained according to the provisions of RCW 60.28.010 are released to the contractor. Each affidavit of wages paid must be certified by the industrial statistician of the department of labor and industries before it is submitted to said officer.

- (2) As an alternate to the procedures provided for in subsection (1) of this section, for public works projects of two thousand five hundred dollars or less:

- (a) An awarding agency may authorize the contractor or subcontractor to submit the statement of intent to pay prevailing wages directly to the officer or person charged with the custody or disbursement of public funds in the awarding agency without approval by the industrial statistician of the department of labor and industries. The awarding agency shall retain such statement of intent to pay prevailing wages for a period of not less than three years.
- (b) Upon final acceptance of the public works project, the awarding agency shall require the contractor or subcontractor to submit an affidavit of wages paid. Upon receipt of the affidavit of wages paid, the awarding agency may pay the contractor or subcontractor in full, including funds that would otherwise be retained according to the provisions of RCW 60.28.010. Within thirty days of receipt of the affidavit of wages paid, the awarding agency shall submit the affidavit of wages paid to the industrial statistician of the department of labor and industries for approval.
- (c) A statement of intent to pay prevailing wages and an affidavit of wages paid shall be on forms approved by the department of labor and industries.
- (d) In the event of a wage claim and a finding for the claimant by the department of labor and industries where the awarding agency has used the alternative process provided for in subsection (2) of this section, the awarding agency shall pay the wages due directly to the claimant. If the contractor or subcontractor did not pay the wages stated in the affidavit of wages paid, the awarding agency may take action at law to seek reimbursement from the contractor or subcontractor of wages paid to the claimant, and may prohibit the contractor or subcontractor from bidding on any public works contract of the awarding agency for up to one year.
- (e) Nothing in this section shall be interpreted to allow an awarding agency to subdivide any public works project of more than two thousand five hundred dollars for the purpose of circumventing the procedures required by RCW 39.12.040(1).



STATEMENT OF INTENT TO PAY PREVAILING WAGES

Public Works Contract
 \$40.00 Filing Fee Required

Intent ID # (Assigned by L&I) _____

- This form **must** be typed or printed in ink.
- **Fill in all blanks or the form will be returned for correction (see instructions).**
- Please allow a **minimum** of 10 working days for processing.
- Once approved, your form will be posted online at <https://fortress.wa.gov/lmi/pwigrub/SearchFor.asp>

Your Company Information				Awarding Agency Information			
Your Company Name				Project Name		Contract Number	
Your Address				Awarding Agency			
City		State	Zip+4	Awarding Agency Address			
Your Contractor Registration Number		Your UBI Number		City		State	Zip+4
Your Industrial Insurance Account Number				Awarding Agency Contact Name		Phone Number	
Your Email Address (required for notification of approval)		Your Phone Number		County Where Work Will Be Performed		City Where Work Will Be Performed	
Additional Details:				Contract Detail:			
Your Expected Job Start Date (mm-dd-yyyy)				Bid Due Date (Prime Contractor's)		Award Date (Prime Contractor's)	
Job Site Address/Directions				Total Dollar Amount of Your Contract (including sales tax) or indicate time and materials, if applicable. \$ <input type="checkbox"/> T&M			
ARRA Fund:				Weatherization or Energy Efficient Funds			
Does this project utilize American Recovery and Reinvestment Act (ARRA) funds? <input type="checkbox"/> Yes <input type="checkbox"/> No				Does this project utilize any weatherization or energy efficiency upgrade funds (ARRA or otherwise)? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Prime Contractor's Company Information				Hiring Contractor's Company Information			
Prime Contractor's Company Name		Prime Contractor's Inter Number		Hiring Contractor's Company Name			
Prime Contractor's Registration Number		Prime Contractor's UBI Number		Hiring Company's Contractor Registration Number		Hiring Contractor's UBI Number	
Employment Information							
Do you intend to use ANY subcontractors?		<input type="checkbox"/> Yes	<input type="checkbox"/> No	Will employees perform work on this project?		<input type="checkbox"/> Yes	<input type="checkbox"/> No
Will ALL work be subcontracted?		<input type="checkbox"/> Yes	<input type="checkbox"/> No	Do you intend to use apprentice employees?		<input type="checkbox"/> Yes	<input type="checkbox"/> No
Number of Owners/Operators who own at least 30% of the company who will perform work on this project:				<input type="checkbox"/> None (0)	<input type="checkbox"/> One (1)	<input type="checkbox"/> Two (2)	<input type="checkbox"/> Three (3)
Crafts/Trades/Occupations - (Do not list apprentices. They are listed on the Affidavit of Wages Paid only.) If an employee works in more than one trade, ensure that all hours worked in each trade are reported below. For additional crafts/trades/occupations please use Addendum A.				Number of Workers	Rate of Hourly Pay	Rate of Hourly Usual ("Fringe") Benefits	
Signature Block							
I hereby certify that I have read and understood the instructions to complete this form and that the information, including any addenda, are correct and that all workers I employ on this Public Works Project will be paid no less than the Prevailing Wage Rate(s) as determined by the Industrial Statistician of the Department of Labor and Industries.							
Print Name:		Print Title:		Signature:		Date:	
For L&I Use Only							
Approved by signature of the Department of Labor and Industries Industrial Statistician:							

NOTICE: If the prime contract is at a cost of over one million dollars (\$1,000,000.00), RCW 39.04.170 requires you to complete the EHB 2805 (RCW 39.04.170) Addendum and attach it to your Affidavit of Wages of Paid when your work on the project concludes. This is only a notice. The EHB 2805 Addendum is not submitted with this Intent. F700-029-000 Statement of Intent to Pay Prevailing Wages 03-2011

Department of Labor and Industries
 Prevailing Wage Program
 (360) 902-5335
www.lni.wa.gov/TradesLicensing/PrevWage/default.asp



Affidavit of Wages Paid
Public Works Contract
\$40.00 Filing Fee Required*

*Exemption may apply. See instruction 9.

Affidavit ID # (Assigned by L&I):

WA67554-9090

This form must be typed or printed in Ink.
 Fill in ALL blanks or the form will be returned for correction
 (see instructions).
 Please allow a minimum of 10 business days for processing.
 Once approved, your form will be posted online at:
<https://fdress.wa.gov/lm/wagelookup/searchforms.aspx>

Your Company Information		Awarding Agency Information		
Your Company Name ABC Company		Project Name Road Repair	Contract Number 123-456	
Your Company Address 1234 Main Street		Awarding Agency WA St Department of Transportation		
City Olympia	State WA	City Olympia	State WA	
Zip+4 98501-1234	Your UBI Number 123456789	City Olympia	Zip+4 98501	
Your Contractor Registration Number ABCCI*0123AA	Your Industrial Insurance Account Number 111,111-11	Awarding Agency Address PO Box 123		
Your Email Address (required for notification of approval) prevailingwage@lni.wa.gov	Your Phone Number (555) 555-5555	City Where Work Was Performed Thurston		
Additional Details		Contract Details		
Your Job Start Date (mm/dd/yyyy) 2/1/2011	Your Date Work Completed (mm/dd/yyyy) 3/1/2011	Bid Due Date (Prime Contractor's) 1/1/2011	Award Date (Prime Contractor's) 1/5/2011	
Job Site Address/Directions Plum and State Street		Indicate Total Dollar Amount of Your Contract (including sales tax). \$ \$10,000.00		
Your Approved Intent ID # 123456		EHB 2805 (RCW 39.04.370) - is the Prime Contractor's contract at a cost of over one million dollars (\$1,000,000)? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes		
ARRA Funds Does this project utilize American Recovery and Reinvestment Act (ARRA) funds? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Weatherization or Energy Efficient Funds Does this project utilize any weatherization or energy efficiency upgrade funds (ARRA or otherwise)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Prime Contractor's Company Information		Hiring Contractor's Company Information		
Prime Contractor's Company Name XYZ Company		Hiring Contractor's Company Name CBA Company		
Prime Contractor's Registration Number XYZCI*0123AA	Prime Contractor's UBI Number 987654321	Hiring Contractor's Registration Number CBACI*0123AA	Hiring Contractor's UBI Number 456789123	
Employment Information				
Did you use ANY subcontractors? <input type="checkbox"/> Yes (Addendum B Required) <input checked="" type="checkbox"/> No	Did employees perform work on this project? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Was ALL work subcontracted? <input type="checkbox"/> Yes (Addendum B Required) <input checked="" type="checkbox"/> No		
Did you use apprentice employees? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Number of Owner/Operators who own at least 30% of the company who performed work on this project: You must list the First and Last Name(s) of any Owner/Operator performing work below <input type="checkbox"/> None (0) <input checked="" type="checkbox"/> One (1) <input type="checkbox"/> Two (2) <input type="checkbox"/> Three (3)		
List your Crafts/Trades/Occupations Below - For Journey Level Workers you must provide all of the information below. Owner/Operators - must provide their First and Last name no other information required. ** Apprentices are not recorded below. You must use Addendum D to list Apprentices.		Number of Workers	Total # of Hours Worked	Rate of Hourly Pay
General Labor	2	153	41.23	Rate of Hourly Usual ("Fringe") Benefits 8.54
Carpenter	5	210	52.26	10.13
Signature Block				
I hereby certify that I have read and understand the instructions to complete this form and that the information on the form and any addenda is correct and that all workers I employed on this Public Works Project were paid no less than the Prevailing Wage Rate(s) as determined by the Industrial Statistician of the Department of Labor and Industries.				
Print Name:	Print Title:	Signature:	Date:	
For L&I Use Only				
Department of Labor and Industries APPROVED BY: _____ Industrial Statistician				

F700-007-000 Affidavit of Wages Paid

REQUEST FOR RELEASE

**Department of Labor and Industries
General Administration Building
Olympia, WA 98504**

The undersigned contractor requests that the property owner/general contractor be notified of their release from liability for industrial insurance premiums on the following work:

Name of Project _____ Contract No. _____

Location of Project _____

Description of Work _____

Amount of Contract	Date Work Started	Date Work Completed	Property Owner/General Contractor

Address of Property Owner/General Contractor _____

Were Subcontractors Used? _____

Yes No

IF YES, ATTACH A LIST SHOWING NAME, ADDRESS, CURRENT CONTRACTOR REGISTRATION NO., INDUSTRIAL INSURANCE ACCOUNT NO., NATURE OF WORK PERFORMED, AND COMPLETION DATE. SUPPLIERS FOR MATERIALS ONLY ARE NOT TO BE INCLUDED.

This Request Submitted by <input type="checkbox"/> General Contractor <input type="checkbox"/> Subcontractor	Date	Industrial Insurance Account #
---	------	--------------------------------

Name of Firm	Signed
--------------	--------

Address	Title
---------	-------

ALL WORKER HOURS THROUGH THE COMPLETION DATE OF THIS PROJECT MUST HAVE BEEN REPORTED AND PREMIUM PAID THEREON BEFORE A RELEASE WILL BE ISSUED.

THIS FORM MUST BE COMPLETED AND ALL INFORMATION FURNISHED BY PARTY REQUESTING RELEASE. SEND TO DEPARTMENT OF LABOR AND INDUSTRIES, INDUSTRIAL INSURANCE DIVISION, CONTRACT COMPLIANCE UNIT, OLYMPIA, WA 98504.

PART II

SPECIAL PROVISIONS

All Work, equipment and materials shall conform to the 2023 Washington State Standard Specifications and 2018 IBC

DIVISION 1 – GENERAL REQUIREMENTS

1-04 SCOPE OF WORK

DESCRIPTIONS IN SECTIONS 1-04.4(1) IS REMOVED AND REPLACED WITH THE FOLLOWING:

1-04.4(1) MINOR CHANGES

Payments or credits for changes amounting to \$10,000 or less may be made under the bid item "Minor Change".

The Contractor will be provided a copy of the completed order for Minor Change. The agreement for the minor change will be documented by the signature of the contractor, or notation of verbal agreement. If the Contractor is in disagreement with anything required by the order for minor change, the contractor shall provide written protest to owner within two calendar days.

For the purpose of providing a common proposal for all bidders, the City has entered an amount for "Minor Change" in the proposal to become a part of the total bid by the Contractor.

1-07.18 PUBLIC LIABILITY AND PROPERTY DAMAGE INSURANCE

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

1-07.18 Insurance

(December 30, 2022 APWA GSP)

1-07.18(1) General Requirements

- A. The Contractor shall procure and maintain the insurance described in all subsections of section 1-07.18 of these Special Provisions, from insurers with a current A. M. Best rating of not less than A-: VII and licensed to do business in the State of Washington. The Contracting Agency reserves the right to approve or reject the insurance provided, based on the insurer's financial condition.
- B. The Contractor shall keep this insurance in force without interruption from the commencement of the Contractor's Work through the term of the Contract and for thirty (30) days after the Physical Completion date, unless otherwise indicated below.
- C. If any insurance policy is written on a claims-made form, its retroactive date, and that of all subsequent renewals, shall be no later than the effective date of this Contract. The policy shall state that coverage is claims made and

state the retroactive date. Claims-made form coverage shall be maintained by the Contractor for a minimum of 36 months following the Completion Date or earlier termination of this Contract, and the Contractor shall annually provide the Contracting Agency with proof of renewal. If renewal of the claims made form of coverage becomes unavailable, or economically prohibitive, the Contractor shall purchase an extended reporting period ("tail") or execute another form of guarantee acceptable to the Contracting Agency to assure financial responsibility for liability for services performed.

- D. The Contractor's Automobile Liability, Commercial General Liability and Excess or Umbrella Liability insurance policies shall be primary and non-contributory insurance as respects the Contracting Agency's insurance, self-insurance, or self-insured pool coverage. Any insurance, self-insurance, or self-insured pool coverage maintained by the Contracting Agency shall be excess of the Contractor's insurance and shall not contribute with it.
- E. The Contractor shall provide the Contracting Agency and all additional insureds with written notice of any policy cancellation, within two business days of their receipt of such notice.
- F. The Contractor shall not begin work under the Contract until the required insurance has been obtained and approved by the Contracting Agency
- G. Failure on the part of the Contractor to maintain the insurance as required shall constitute a material breach of contract, upon which the Contracting Agency may, after giving five business days' notice to the Contractor to correct the breach, immediately terminate the Contract or, at its discretion, procure or renew such insurance and pay any and all premiums in connection therewith, with any sums so expended to be repaid to the Contracting Agency on demand, or at the sole discretion of the Contracting Agency, offset against funds due the Contractor from the Contracting Agency.
- H. All costs for insurance shall be incidental to and included in the unit or lump sum prices of the Contract and no additional payment will be made.

1-07.18(2) Additional Insured

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

- the Contracting Agency and its officers, elected officials, employees, agents, and volunteers

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

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

1-07.18(3) Subcontractors

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

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

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

1-07.18(4) Verification of Coverage

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

Verification of coverage shall include:

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

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

1-07.18(5) Coverages and Limits

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

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

1-07.18(5)A Commercial General Liability

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

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

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

Such policy must provide the following minimum limits:

- \$1,000,000 Each Occurrence
- \$2,000,000 General Aggregate
- \$2,000,000 Products & Completed Operations Aggregate
- \$1,000,000 Personal & Advertising Injury each offence
- \$1,000,000 Stop Gap / Employers’ Liability each accident

1-07.18(5)B Automobile Liability

Automobile Liability shall cover owned, non-owned, hired, and leased vehicles; and shall be written on a coverage form at least as broad as ISO form CA 00 01. If the work involves the transport of pollutants, the automobile liability policy shall include MCS 90 and CA 99 48 endorsements.

Such policy must provide the following minimum limit:

- \$1,000,000 Combined single limit each accident

1-07.18(5)C Workers’ Compensation

The Contractor shall comply with Workers' Compensation coverage as required by the Industrial Insurance laws of the State of Washington.

1-08.9 LIQUIDATED DAMAGES

Liquidated damages in the amount of \$2,500 per working day will be assessed for failure to physically complete the Contract within the physical completion time specified.

DIVISION 8 – MISCELLANEOUS CONSTRUCTION

ADD SECTION 8-33 TO THE END OF DIVISION 8

Section 8-33 ROOFING

8-33.1 Description of Work

The work specified in this Section consists of furnishing all labor, materials, and equipment necessary for removal and replacement of an asphalt shingle roof.

Construction quality shall be professional and equal to that normally expected delivered at the journeyman level from all trades utilized. Periodic and final inspections during and at the completion of the project shall ensure that quality. Construction of an aesthetically pleasing overall appearance of the finished surfaces is a standard for this project. On a daily basis, all debris generated by the contractor shall be cleaned and organized in a professional manner. The contractor shall clean up new roof surfaces, gutters, down spouts and grounds including using a magnetic sweep to pick up nails and metal fragments and remove equipment and debris promptly. The contractor will make all necessary preparations, utilize recommended application techniques, apply the specific materials with all associated accessories, and exercise care in ensuring that the finished product is acceptable to the City of Sumner.

8-33.2 Materials

Replace Existing Roof and Underlayment:

Payment for this bid item shall be lump sum. This per lump sum price shall include, but is not limited to: full compensation for all labor, materials, tools and equipment necessary to replace the existing composition roofing (approximately 166 squares) with Malarky Legacy Scotchgard architectural shingles natural wood color with algae block or equivalent. This bid item is further described below:

Demo of existing roof and underlayment and dispose of removed materials:

This item shall be incidental to bid item #3. This item shall cover all costs in connection with cleanup, removal, haul, and other "fixed" costs related

to the project not materially affected by change in quantities of work performed. Contractor shall remove and properly dispose existing roof materials, base metal flashings, valley flashings, drip edges and all roof accessories, associated with roof replacement for City Hall. All materials used in connection with the shingle removal shall be included under the lump sum unit price.

Ice and Water Shield and Underlayment:

This item shall be incidental to bid item #3. This item shall include all costs in connection with the application of the ice and water shield and preparing the roof deck for installation of the ice and water shield. The ice and water shield type shall be a "Malarkey Arctic Seal 401" or approved equivalent. Contractor shall fill knotholes and surface cracks with latex filler. The contractor shall broom clean deck surfaces before installing the underlayment. Temporary protective covering shall be provided over uncovered deck surfaces. Contractor shall verify that deck surfaces are dry. Installation shall include the cost for application of the ice and water shield on all eaves, gables, valleys, roof-to-walls and around penetrations. Contractor shall install 36" wide ice and water shield from top to bottom of the valley, centered on the centerline of the valley. All remaining area not covered by ice and water shield shall be covered with "Malarkey Right Start UDL 501" underlayment or approved equivalent. All materials used in connection with the ice and water shield and roofing underlayment shall be included under the lump sum unit price for bid item #3.

Architectural Shingles:

This item shall be incidental to bid item #3. This item shall include, but is not limited to: full compensation for all labor, material, tools, and equipment necessary to install architectural shingles over the entire roof. Contractor shall install "Malarkey Smart Start" starter shingle or approved equivalent at roof leading edges including, but not limited to: drip edges at eaves and gable ends prior to first course of shingles. Architectural shingles shall be installed according to the manufacturer's installation specification and current building code. Shingle shall be fastened with a minimum of 1 1/4" HDG roofing nails, mechanically driven per manufacturer's installation instructions. Shingles shall be placed with 5 5/8" weather exposure to produce double layer over full roof area. All architectural shingles installed shall be "Malarkey Legacy Scotchgard Architectural Shingles, Natural Wood Color" with algae block or equivalent. All architectural shingles installed shall have a 50-year manufacturer's full system warranty and a 10-year labor warranty. Contractor shall check installation of roofing shingles to ensure parallel alignment with eaves and ridge. All materials used in connection with the architectural shingles shall be included under the lump sum unit price for bid item #3.

Install Metal Flashing:

This item shall be incidental to bid item #3. This item shall include, but is not limited to: full compensation for all labor, material, tools, and equipment necessary to install metal at all flashed locations including, but not limited to: step flashing, gables, eaves, W-Valleys, and ridge caps. The Contractor shall install W-metal valley flashings per manufacturer's installation instructions. The Contractor shall install drip edge metal flashings and eave metal flashings with minimum of 2" lap on joints, and seal tight with plastic cement. All edge metal flashings are to be nailed per manufacturer's installation instructions. All flashing metal shall be 24GA pre-finished baked enamel. All roof penetrations and adjoining walls will need to be properly flashed. All existing ridge vents and gable vents shall be replaced with galvanized RVO38 metal roof vents. Contractor shall coordinate installation of roof mounted components or work projecting through roof with weather tight placement of flanges, shingles and counter flashings. Pipe penetration boots shall be replaced with Oatey Roof Flashing, product number 11872 and product number 11875. All materials used in connection with the metal installation shall be included under the lump sum unit price for bid item #3. Contractor shall provide brown flashing and provide submittal to the Owner prior to install.

Install Ridge Cap and Zinc Flashing:

This item shall be incidental to bid item #3. This item shall include, but is not limited to: full compensation for all labor, material, tools, and equipment necessary to install ridge caps and zinc flashing at all needed locations on the roof. Contractor shall cap hips and ridges with "Malarkey SBS Modified Scotchgard 12" Hip and Ridge Strip", or approved equivalent, maintaining a 5 5/8" weather exposure. Contractor shall install ridges facing laps away from direction of prevailing winds. Contractor shall use 2" roofing nails to install ridges over ridge vents. Contractor shall install zinc flashing at all ridge caps. All materials used in connection with the installation of ridge caps shall be included under the lump sum unit price for bid item #3.

Install Ridge Vent:

This item shall be incidental to bid item #3. This item shall include, but is not limited to: full compensation for all labor, material, tools, and equipment necessary to install 11" "Cor-A-Vent" or "Smartvent", or equivalent, ridge vents and end wall vents at all existing locations on the roof. Contractor shall install ridge and end-wall ventilation according to manufacturer's installation specification. All materials used in connection with the installation of ridge vents shall be included under the lump sum unit price for bid item #3.

½" Thick 4'x8' Plywood Sheets:

Payment for this bid item shall be per each. This per each unit price shall include, but is not limited to: full compensation for all labor, material, tools, and equipment necessary to install plywood sheets at all needed locations on the roof. The Contractor shall verify existing conditions prior to installing the plywood sheets. The Contractor shall also verify that the plywood sheet is properly nailed and of sufficient thickness to accept the required fasteners. Contractor shall verify that existing plywood sheets contain ridges, warps, or voids before being replaced with new ones. All materials used in connection with the installation of plywood sheets and disposal of replaced/demolished sheets shall be included under the per each unit price.

8-33.3 Measurement and Payment

- a. Mobilization
 - i. Measurement: Shall be a lump sum estimated cost.
 - ii. Payment: The lump sum contract price for MOBILIZATION shall include cost for the preparatory work and operations necessary for the movement of personnel, equipment, supplies, and incidentals to the project site.
- b. Minor Changes
 - i. Measurement: Shall be an estimated cost, with a value not to exceed \$10,000.
 - ii. Payment: The Contractor shall be paid under MINOR CHANGES as pre-approved by the Engineer for additional work required to construct this project due to remedying unforeseen conditions, conflicts, or other minor work as may be necessary.
- c. Replace Existing Roof and Underlayment
 - i. Measurement: Shall be a lump sum estimated cost.
 - ii. Payment: The lump sum contract price for REPLACE EXISITING ROOF AND UNDERLAYMENT shall include all costs for labor, materials and equipment required to complete work.

- d. 1/2" thick 4'x8' plywood sheets (estimate of 15 sheets)
 - i. Measurement: Shall be a unit price estimated cost.
 - ii. Payment: The lump sum contract price for REPLACE EXISTING ROOF AND UNDERLAYMENT shall include all costs for labor, materials and equipment required to complete work.

PART III

APPENDICES

APPENDIX A

4/6/23, 2:58 PM

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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: 4/6/2023

<u>County</u>	<u>Trade</u>	<u>Job Classification</u>	<u>Wage</u>	<u>Holiday</u>	<u>Overtime</u>	<u>Note</u>	<u>*Risk Class</u>
Pierce	Asbestos Abatement Workers	Journey Level	\$56.80	5D	1H		View
Pierce	Boilermakers	Journey Level	\$74.29	5N	1C		View
Pierce	Brick Mason	Journey Level	\$66.32	7E	1N		View
Pierce	Brick Mason	Pointer-Caulker-Cleaner	\$66.32	7E	1N		View
Pierce	Building Service Employees	Janitor	\$21.79	5S	2F		View
Pierce	Building Service Employees	Traveling Waxer / Shampooer	\$22.74	5S	2F		View
Pierce	Building Service Employees	Window Cleaner (High Time)	\$30.74	5S	2F		View
Pierce	Building Service Employees	Window Cleaner (Non-High Time)	\$29.24	5S	2F		View
Pierce	Cabinet Makers (In Shop)	Journey Level	\$28.36		1		View
Pierce	Carpenters	Acoustical Worker	\$71.53	15J	4C		View
Pierce	Carpenters	Bridge, Dock And Wharf Carpenters	\$71.53	15J	4C		View
Pierce	Carpenters	Floor Layer & Floor Finisher	\$71.53	15J	4C		View
Pierce	Carpenters	Journey Level	\$71.53	15J	4C		View
Pierce	Carpenters	Scaffold Erector	\$71.53	15J	4C		View
Pierce	Cement Masons	Application of all Composition Mastic	\$70.09	15J	4U		View
Pierce	Cement Masons	Application of all Epoxy Material	\$69.59	15J	4U		View
Pierce	Cement Masons	Application of all Plastic Material	\$70.09	15J	4U		View
Pierce	Cement Masons	Application of Sealing Compound	\$69.59	15J	4U		View
Pierce	Cement Masons	Application of Underlayment	\$70.09	15J	4U		View
Pierce	Cement Masons	Building General	\$69.59	15J	4U		View
Pierce	Cement Masons	Composition or Kalman Floors	\$70.09	15J	4U		View
Pierce	Cement Masons	Concrete Paving	\$69.59	15J	4U		View
Pierce	Cement Masons	Curb & Gutter Machine	\$70.09	15J	4U		View
Pierce	Cement Masons	Curb & Gutter, Sidewalks	\$69.59	15J	4U		View
Pierce	Cement Masons	Curing Concrete	\$69.59	15J	4U		View

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1/18

Pierce	Cement Masons	Finish Colored Concrete	\$70.09	<u>15J</u>	<u>4U</u>		View
Pierce	Cement Masons	Floor Grinding	\$70.09	<u>15J</u>	<u>4U</u>		View
Pierce	Cement Masons	Floor Grinding/Polisher	\$69.59	<u>15J</u>	<u>4U</u>		View
Pierce	Cement Masons	Green Concrete Saw, self-powered	\$70.09	<u>15J</u>	<u>4U</u>		View
Pierce	Cement Masons	Grouting of all Plates	\$69.59	<u>15J</u>	<u>4U</u>		View
Pierce	Cement Masons	Grouting of all Tilt-up Panels	\$69.59	<u>15J</u>	<u>4U</u>		View
Pierce	Cement Masons	Guniting Nozzleman	\$70.09	<u>15J</u>	<u>4U</u>		View
Pierce	Cement Masons	Hand Powered Grinder	\$70.09	<u>15J</u>	<u>4U</u>		View
Pierce	Cement Masons	Journey Level	\$69.59	<u>15J</u>	<u>4U</u>		View
Pierce	Cement Masons	Patching Concrete	\$69.59	<u>15J</u>	<u>4U</u>		View
Pierce	Cement Masons	Pneumatic Power Tools	\$70.09	<u>15J</u>	<u>4U</u>		View
Pierce	Cement Masons	Power Chipping & Brushing	\$70.09	<u>15J</u>	<u>4U</u>		View
Pierce	Cement Masons	Sand Blasting Architectural Finish	\$70.09	<u>15J</u>	<u>4U</u>		View
Pierce	Cement Masons	Screed & Rodding Machine	\$70.09	<u>15J</u>	<u>4U</u>		View
Pierce	Cement Masons	Spackling or Skim Coat Concrete	\$69.59	<u>15J</u>	<u>4U</u>		View
Pierce	Cement Masons	Troweling Machine Operator	\$70.09	<u>15J</u>	<u>4U</u>		View
Pierce	Cement Masons	Troweling Machine Operator on Colored Slabs	\$70.09	<u>15J</u>	<u>4U</u>		View
Pierce	Cement Masons	Tunnel Workers	\$70.09	<u>15J</u>	<u>4U</u>		View
Pierce	Divers & Tenders	Bell/Vehicle or Submersible Operator (Not Under Pressure)	\$126.05	<u>15J</u>	<u>4C</u>		View
Pierce	Divers & Tenders	Dive Supervisor/Master	\$89.94	<u>15J</u>	<u>4C</u>		View
Pierce	Divers & Tenders	Diver	\$126.05	<u>15J</u>	<u>4C</u>	<u>8V</u>	View
Pierce	Divers & Tenders	Diver On Standby	\$84.94	<u>15J</u>	<u>4C</u>		View
Pierce	Divers & Tenders	Diver Tender	\$77.16	<u>15J</u>	<u>4C</u>		View
Pierce	Divers & Tenders	Hyperbaric Worker - Compressed Air Worker 0-30.00 PSI	\$89.09	<u>15J</u>	<u>4C</u>		View
Pierce	Divers & Tenders	Hyperbaric Worker - Compressed Air Worker 30.01 - 44.00 PSI	\$94.09	<u>15J</u>	<u>4C</u>		View
Pierce	Divers & Tenders	Hyperbaric Worker - Compressed Air Worker 44.01 - 54.00 PSI	\$107.09	<u>15J</u>	<u>4C</u>		View
Pierce	Divers & Tenders	Hyperbaric Worker - Compressed Air Worker 54.01 - 60.00 PSI	\$103.09	<u>15J</u>	<u>4C</u>		View
Pierce	Divers & Tenders	Hyperbaric Worker - Compressed Air Worker 60.01 - 64.00 PSI	\$105.59	<u>15J</u>	<u>4C</u>		View
Pierce	Divers & Tenders	Hyperbaric Worker - Compressed Air Worker 64.01 - 68.00 PSI	\$110.59	<u>15J</u>	<u>4C</u>		View
Pierce	Divers & Tenders	Hyperbaric Worker - Compressed Air Worker 68.01 - 70.00 PSI	\$112.59	<u>15J</u>	<u>4C</u>		View
Pierce	Divers & Tenders	Hyperbaric Worker - Compressed Air Worker 70.01 -	\$114.59	<u>15J</u>	<u>4C</u>		View

		72.00 PSI				
Pierce	Divers & Tenders	Hyperbaric Worker - Compressed Air Worker 72.01 - 74.00 PSI	\$116.59	15J	4C	View
Pierce	Divers & Tenders	Manifold Operator	\$77.16	15J	4C	View
Pierce	Divers & Tenders	Manifold Operator Mixed Gas	\$82.16	15J	4C	View
Pierce	Divers & Tenders	Remote Operated Vehicle Operator/Technician	\$77.16	15J	4C	View
Pierce	Divers & Tenders	Remote Operated Vehicle Tender	\$71.98	15J	4C	View
Pierce	Dredge Workers	Assistant Engineer	\$76.56	5D	3F	View
Pierce	Dredge Workers	Assistant Mate (Deckhand)	\$75.97	5D	3F	View
Pierce	Dredge Workers	Boatmen	\$76.56	5D	3F	View
Pierce	Dredge Workers	Engineer Welder	\$78.03	5D	3F	View
Pierce	Dredge Workers	Leverman, Hydraulic	\$79.59	5D	3F	View
Pierce	Dredge Workers	Mates	\$76.56	5D	3F	View
Pierce	Dredge Workers	Oiler	\$75.97	5D	3F	View
Pierce	Drywall Applicator	Journey Level	\$71.53	15J	4C	View
Pierce	Drywall Tapers	Journey Level	\$70.61	5P	1E	View
Pierce	Electrical Fixture Maintenance Workers	Journey Level	\$17.76		1	View
Pierce	Electricians - Inside	Cable Splicer	\$86.25	5C	1G	View
Pierce	Electricians - Inside	Journey Level	\$80.57	5C	1G	View
Pierce	Electricians - Inside	Lead Covered Cable Splicer	\$91.94	5C	1G	View
Pierce	Electricians - Inside	Welder	\$86.25	5C	1G	View
Pierce	Electricians - Motor Shop	Craftsman	\$15.74		1	View
Pierce	Electricians - Motor Shop	Journey Level	\$15.74		1	View
Pierce	Electricians - Powerline Construction	Cable Splicer	\$93.00	5A	4D	View
Pierce	Electricians - Powerline Construction	Certified Line Welder	\$85.42	5A	4D	View
Pierce	Electricians - Powerline Construction	Groundperson	\$55.27	5A	4D	View
Pierce	Electricians - Powerline Construction	Heavy Line Equipment Operator	\$85.42	5A	4D	View
Pierce	Electricians - Powerline Construction	Journey Level Lineperson	\$85.42	5A	4D	View
Pierce	Electricians - Powerline Construction	Line Equipment Operator	\$73.35	5A	4D	View
Pierce	Electricians - Powerline Construction	Meter Installer	\$55.27	5A	4D	8W View
Pierce	Electricians - Powerline Construction	Pole Sprayer	\$85.42	5A	4D	View
Pierce	Electricians - Powerline Construction	Powderperson	\$63.50	5A	4D	View
Pierce	Electronic Technicians	Journey Level	\$51.14	6Z	1B	View
Pierce	Elevator Constructors	Mechanic	\$107.49	7D	4A	View
Pierce	Elevator Constructors	Mechanic In Charge	\$116.13	7D	4A	View
Pierce	Fabricated Precast Concrete Products	Journey Level	\$15.74		1	View

Pierce	Fence Erectors	Fence Erector	\$48.14	15J	4V	8Y	View
Pierce	Fence Erectors	Fence Laborer	\$48.14	15J	4V	8Y	View
Pierce	Flaggers	Journey Level	\$48.14	15J	4V	8Y	View
Pierce	Glaziers	Journey Level	\$75.91	7L	1Y		View
Pierce	Heat & Frost Insulators And Asbestos Workers	Journey Level	\$84.84	15H	11C		View
Pierce	Heating Equipment Mechanics	Journey Level	\$94.11	7F	1E		View
Pierce	Hod Carriers & Mason Tenders	Journey Level	\$59.85	15J	4V	8Y	View
Pierce	Industrial Power Vacuum Cleaner	Journey Level	\$15.74		1		View
Pierce	Inland Boatmen	Boat Operator	\$61.41	5B	1K		View
Pierce	Inland Boatmen	Cook	\$56.48	5B	1K		View
Pierce	Inland Boatmen	Deckhand	\$57.48	5B	1K		View
Pierce	Inland Boatmen	Deckhand Engineer	\$58.81	5B	1K		View
Pierce	Inland Boatmen	Launch Operator	\$58.89	5B	1K		View
Pierce	Inland Boatmen	Mate	\$57.31	5B	1K		View
Pierce	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Cleaner Operator, Foamer Operator	\$15.74		1		View
Pierce	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Grout Truck Operator	\$15.74		1		View
Pierce	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Head Operator	\$15.74		1		View
Pierce	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Technician	\$15.74		1		View
Pierce	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Tv Truck Operator	\$15.74		1		View
Pierce	Insulation Applicators	Journey Level	\$71.53	15J	4C		View
Pierce	Ironworkers	Journeyman	\$83.79	7N	1Q		View
Pierce	Laborers	Air, Gas Or Electric Vibrating Screed	\$56.80	15J	4V	8Y	View
Pierce	Laborers	Airtrac Drill Operator	\$58.56	15J	4V	8Y	View
Pierce	Laborers	Ballast Regular Machine	\$56.80	15J	4V	8Y	View
Pierce	Laborers	Batch Weighman	\$48.14	15J	4V	8Y	View
Pierce	Laborers	Brick Pavers	\$56.80	15J	4V	8Y	View
Pierce	Laborers	Brush Cutter	\$56.80	15J	4V	8Y	View
Pierce	Laborers	Brush Hog Feeder	\$56.80	15J	4V	8Y	View
Pierce	Laborers	Burner	\$56.80	15J	4V	8Y	View
Pierce	Laborers	Caisson Worker	\$58.56	15J	4V	8Y	View
Pierce	Laborers	Carpenter Tender	\$56.80	15J	4V	8Y	View
Pierce	Laborers	Cement Dumper-paving	\$57.84	15J	4V	8Y	View
Pierce	Laborers	Cement Finisher Tender	\$56.80	15J	4V	8Y	View
Pierce	Laborers	Change House Or Dry Shack	\$56.80	15J	4V	8Y	View
Pierce	Laborers	Chipping Gun (30 Lbs. And Over)	\$57.84	15J	4V	8Y	View
Pierce	Laborers	Chipping Gun (Under 30 Lbs.)	\$56.80	15J	4V	8Y	View

Pierce	Laborers	Choker Setter	\$56.80	15J	4V	8Y	View
Pierce	Laborers	Chuck Tender	\$56.80	15J	4V	8Y	View
Pierce	Laborers	Clary Power Spreader	\$57.84	15J	4V	8Y	View
Pierce	Laborers	Clean-up Laborer	\$56.80	15J	4V	8Y	View
Pierce	Laborers	Concrete Dumper/Chute Operator	\$57.84	15J	4V	8Y	View
Pierce	Laborers	Concrete Form Stripper	\$56.80	15J	4V	8Y	View
Pierce	Laborers	Concrete Placement Crew	\$57.84	15J	4V	8Y	View
Pierce	Laborers	Concrete Saw Operator/Core Driller	\$57.84	15J	4V	8Y	View
Pierce	Laborers	Crusher Feeder	\$48.14	15J	4V	8Y	View
Pierce	Laborers	Curing Laborer	\$56.80	15J	4V	8Y	View
Pierce	Laborers	Demolition: Wrecking & Moving (Incl. Charred Material)	\$56.80	15J	4V	8Y	View
Pierce	Laborers	Ditch Digger	\$56.80	15J	4V	8Y	View
Pierce	Laborers	Diver	\$58.56	15J	4V	8Y	View
Pierce	Laborers	Drill Operator (Hydraulic, Diamond)	\$57.84	15J	4V	8Y	View
Pierce	Laborers	Dry Stack Walls	\$56.80	15J	4V	8Y	View
Pierce	Laborers	Dump Person	\$56.80	15J	4V	8Y	View
Pierce	Laborers	Epoxy Technician	\$56.80	15J	4V	8Y	View
Pierce	Laborers	Erosion Control Worker	\$56.80	15J	4V	8Y	View
Pierce	Laborers	Faller & Bucker Chain Saw	\$57.84	15J	4V	8Y	View
Pierce	Laborers	Fine Graders	\$56.80	15J	4V	8Y	View
Pierce	Laborers	Firewatch	\$48.14	15J	4V	8Y	View
Pierce	Laborers	Form Setter	\$57.84	15J	4V	8Y	View
Pierce	Laborers	Gabian Basket Builders	\$56.80	15J	4V	8Y	View
Pierce	Laborers	General Laborer	\$56.80	15J	4V	8Y	View
Pierce	Laborers	Grade Checker & Transit Person	\$59.85	15J	4V	8Y	View
Pierce	Laborers	Grinders	\$56.80	15J	4V	8Y	View
Pierce	Laborers	Grout Machine Tender	\$56.80	15J	4V	8Y	View
Pierce	Laborers	Groutmen (Pressure) Including Post Tension Beams	\$57.84	15J	4V	8Y	View
Pierce	Laborers	Guardrail Erector	\$56.80	15J	4V	8Y	View
Pierce	Laborers	Hazardous Waste Worker (Level A)	\$58.56	15J	4V	8Y	View
Pierce	Laborers	Hazardous Waste Worker (Level B)	\$57.84	15J	4V	8Y	View
Pierce	Laborers	Hazardous Waste Worker (Level C)	\$56.80	15J	4V	8Y	View
Pierce	Laborers	High Scaler	\$58.56	15J	4V	8Y	View
Pierce	Laborers	Jackhammer	\$57.84	15J	4V	8Y	View
Pierce	Laborers	Laserbeam Operator	\$57.84	15J	4V	8Y	View
Pierce	Laborers	Maintenance Person	\$56.80	15J	4V	8Y	View
Pierce	Laborers	Manhole Builder-Mudman	\$57.84	15J	4V	8Y	View
Pierce	Laborers	Material Yard Person	\$56.80	15J	4V	8Y	View
Pierce	Laborers	Mold Abatement Worker	\$56.80	15J	4V	8Y	View
Pierce	Laborers	Motorman-Dinky Locomotive	\$59.95	15J	4V	8Y	View

Pierce	Laborers	nozzleman (concrete pump, green cutter when using combination of high pressure air & water on concrete & rock, sandblast, gunite, shotcrete, water blaster, vacuum blaster)	\$59.85	15J	4V	8Y	View
Pierce	Laborers	Pavement Breaker	\$57.84	15J	4V	8Y	View
Pierce	Laborers	Pilot Car	\$48.14	15J	4V	8Y	View
Pierce	Laborers	Pipe Layer (Lead)	\$59.85	15J	4V	8Y	View
Pierce	Laborers	Pipe Layer/Tailor	\$57.84	15J	4V	8Y	View
Pierce	Laborers	Pipe Pot Tender	\$57.84	15J	4V	8Y	View
Pierce	Laborers	Pipe Reliner	\$57.84	15J	4V	8Y	View
Pierce	Laborers	Pipe Wrapper	\$57.84	15J	4V	8Y	View
Pierce	Laborers	Pot Tender	\$56.80	15J	4V	8Y	View
Pierce	Laborers	Powderman	\$58.56	15J	4V	8Y	View
Pierce	Laborers	Powderman's Helper	\$56.80	15J	4V	8Y	View
Pierce	Laborers	Power Jacks	\$57.84	15J	4V	8Y	View
Pierce	Laborers	Railroad Spike Puller - Power	\$57.84	15J	4V	8Y	View
Pierce	Laborers	Raker - Asphalt	\$59.85	15J	4V	8Y	View
Pierce	Laborers	Re-timberman	\$58.56	15J	4V	8Y	View
Pierce	Laborers	Remote Equipment Operator	\$57.84	15J	4V	8Y	View
Pierce	Laborers	Rigger/Signal Person	\$57.84	15J	4V	8Y	View
Pierce	Laborers	Rip Rap Person	\$56.80	15J	4V	8Y	View
Pierce	Laborers	Rivet Buster	\$57.84	15J	4V	8Y	View
Pierce	Laborers	Rodder	\$57.84	15J	4V	8Y	View
Pierce	Laborers	Scaffold Erector	\$56.80	15J	4V	8Y	View
Pierce	Laborers	Scale Person	\$56.80	15J	4V	8Y	View
Pierce	Laborers	Sloper (Over 20")	\$57.84	15J	4V	8Y	View
Pierce	Laborers	Sloper Sprayer	\$56.80	15J	4V	8Y	View
Pierce	Laborers	Spreader (Concrete)	\$57.84	15J	4V	8Y	View
Pierce	Laborers	Stake Hopper	\$56.80	15J	4V	8Y	View
Pierce	Laborers	Stock Piler	\$56.80	15J	4V	8Y	View
Pierce	Laborers	Swinging Stage/Boatswain Chair	\$48.14	15J	4V	8Y	View
Pierce	Laborers	Tamper & Similar Electric, Air & Gas Operated Tools	\$57.84	15J	4V	8Y	View
Pierce	Laborers	Tamper (Multiple & Self-propelled)	\$57.84	15J	4V	8Y	View
Pierce	Laborers	Timber Person - Sewer (Lagger, Shorer & Cribber)	\$57.84	15J	4V	8Y	View
Pierce	Laborers	Toolroom Person (at Jobsite)	\$56.80	15J	4V	8Y	View
Pierce	Laborers	Topper	\$56.80	15J	4V	8Y	View
Pierce	Laborers	Track Laborer	\$56.80	15J	4V	8Y	View
Pierce	Laborers	Track Liner (Power)	\$57.84	15J	4V	8Y	View
Pierce	Laborers	Traffic Control Laborer	\$51.48	15J	4V	9C	View
Pierce	Laborers	Traffic Control Supervisor	\$54.55	15J	4V	9C	View
Pierce	Laborers	Truck Spotter	\$56.80	15J	4V	8Y	View
Pierce	Laborers	Tugger Operator	\$57.84	15J	4V	8Y	View

Pierce	Laborers	Tunnel Work-Compressed Air Worker 0-30 psi	\$158.87	15J	4V	9B	View
Pierce	Laborers	Tunnel Work-Compressed Air Worker 30.01-44.00 psi	\$163.90	15J	4V	9B	View
Pierce	Laborers	Tunnel Work-Compressed Air Worker 44.01-54.00 psi	\$167.58	15J	4V	9B	View
Pierce	Laborers	Tunnel Work-Compressed Air Worker 54.01-60.00 psi	\$173.28	15J	4V	9B	View
Pierce	Laborers	Tunnel Work-Compressed Air Worker 60.01-64.00 psi	\$175.40	15J	4V	9B	View
Pierce	Laborers	Tunnel Work-Compressed Air Worker 64.01-68.00 psi	\$180.50	15J	4V	9B	View
Pierce	Laborers	Tunnel Work-Compressed Air Worker 68.01-70.00 psi	\$182.40	15J	4V	9B	View
Pierce	Laborers	Tunnel Work-Compressed Air Worker 70.01-72.00 psi	\$184.40	15J	4V	9B	View
Pierce	Laborers	Tunnel Work-Compressed Air Worker 72.01-74.00 psi	\$186.40	15J	4V	9B	View
Pierce	Laborers	Tunnel Work-Guage and Lock Tender	\$59.95	15J	4V	8Y	View
Pierce	Laborers	Tunnel Work-Miner	\$59.95	15J	4V	8Y	View
Pierce	Laborers	Vibrator	\$57.84	15J	4V	8Y	View
Pierce	Laborers	Vinyl Seamer	\$56.80	15J	4V	8Y	View
Pierce	Laborers	Watchman	\$43.76	15J	4V	8Y	View
Pierce	Laborers	Welder	\$57.84	15J	4V	8Y	View
Pierce	Laborers	Well Point Laborer	\$57.84	15J	4V	8Y	View
Pierce	Laborers	Window Washer/Cleaner	\$43.76	15J	4V	8Y	View
Pierce	Laborers - Underground Sewer & Water	General Laborer & Topman	\$56.80	15J	4V	8Y	View
Pierce	Laborers - Underground Sewer & Water	Pipe Layer	\$57.84	15J	4V	8Y	View
Pierce	Landscape Construction	Landscape Construction/Landscaping Or Planting Laborers	\$43.76	15J	4V	8Y	View
Pierce	Landscape Construction	Landscape Operator	\$75.97	15J	3K	8X	View
Pierce	Landscape Maintenance	Groundskeeper	\$17.07		1		View
Pierce	Lathers	Journey Level	\$71.53	15J	4C		View
Pierce	Marble Setters	Journey Level	\$66.32	7E	1N		View
Pierce	Metal Fabrication (In Shop)	Fitter	\$15.74		1		View
Pierce	Metal Fabrication (In Shop)	Laborer	\$15.74		1		View
Pierce	Metal Fabrication (In Shop)	Machine Operator	\$15.74		1		View
Pierce	Metal Fabrication (In Shop)	Welder	\$15.74		1		View
Pierce	Millwright	Journey Level	\$73.08	15J	4C		View
Pierce	Modular Buildings	Journey Level	\$15.74		1		View
Pierce	Painters	Journey Level	\$49.46	6Z	11J		View
Pierce	Pile Driver	Crew Tender	\$77.16	15J	4C		View
Pierce	Pile Driver	Journey Level	\$71.98	15J	4C		View
Pierce	Plasterers	Journey Level	\$67.49	7Q	1R		View
Pierce	Plasterers	Nozzleman	\$71.49	7Q	1R		View

Pierce	Playground & Park Equipment Installers	Journey Level	\$15.74		1		View
Pierce	Plumbers & Pipefitters	Journey Level	\$84.72	5A	1G		View
Pierce	Power Equipment Operators	Asphalt Plant Operator	\$77.24	15J	3K	8X	View
Pierce	Power Equipment Operators	Assistant Engineer	\$75.55	7A	11H	8X	View
Pierce	Power Equipment Operators	Barrier Machine (zipper)	\$76.56	15J	3K	8X	View
Pierce	Power Equipment Operators	Batch Plant Operator: Concrete	\$76.56	15J	3K	8X	View
Pierce	Power Equipment Operators	Bobcat	\$72.66	15J	3K	8X	View
Pierce	Power Equipment Operators	Brokk - Remote Demolition Equipment	\$72.66	15J	3K	8X	View
Pierce	Power Equipment Operators	Brooms	\$72.66	15J	3K	8X	View
Pierce	Power Equipment Operators	Bump Cutter	\$76.56	15J	3K	8X	View
Pierce	Power Equipment Operators	Cableways	\$77.24	15J	3K	8X	View
Pierce	Power Equipment Operators	Chipper	\$76.56	15J	3K	8X	View
Pierce	Power Equipment Operators	Compressor	\$72.66	15J	3K	8X	View
Pierce	Power Equipment Operators	Concrete Pump: Truck Mount With Boom Attachment Over 42m	\$77.24	15J	3K	8X	View
Pierce	Power Equipment Operators	Concrete Finish Machine -laser Screed	\$72.66	15J	3K	8X	View
Pierce	Power Equipment Operators	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure	\$75.97	15J	3K	8X	View
Pierce	Power Equipment Operators	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	\$76.56	15J	3K	8X	View
Pierce	Power Equipment Operators	Conveyors	\$75.97	15J	3K	8X	View
Pierce	Power Equipment Operators	Cranes Friction: 200 tons and over	\$82.76	7A	11H	8X	View
Pierce	Power Equipment Operators	Cranes, A-frame: 10 tons and under	\$75.55	7A	11H	8X	View
Pierce	Power Equipment Operators	Cranes: 100 tons through 199 tons, or 150' of boom (including jib with attachments)	\$81.12	7A	11H	8X	View
Pierce	Power Equipment Operators	Cranes: 20 tons through 44 tons with attachments	\$79.62	7A	11H	8X	View
Pierce	Power Equipment Operators	Cranes: 200 tons- 299 tons, or 250' of boom including jib with attachments	\$81.97	7A	11H	8X	View
Pierce	Power Equipment Operators	Cranes: 300 tons and over or 300' of boom including jib with attachments	\$82.76	7A	11H	8X	View
Pierce	Power Equipment Operators	Cranes: 45 tons through 99 tons, under 150' of boom(including jib with attachments)	\$80.33	7A	11H	8X	View
Pierce	Power Equipment Operators	Cranes: Friction cranes through 199 tons	\$81.97	7A	11H	8X	View
Pierce	Power Equipment Operators	Cranes: through 19 tons with attachments, A-frame over 10	\$79.00	7A	11H	8X	View

		tons					
Pierce	Power Equipment Operators	Crusher	\$76.56	15J	3K	8X	View
Pierce	Power Equipment Operators	Deck Engineer/deck Winches (power)	\$76.56	15J	3K	8X	View
Pierce	Power Equipment Operators	Derricks: on building work	\$80.33	7A	11H	8X	View
Pierce	Power Equipment Operators	Dozers D-9 & Under	\$75.97	15J	3K	8X	View
Pierce	Power Equipment Operators	Drill Oilers: Auger Type, Truck Or Crane Mount	\$75.97	15J	3K	8X	View
Pierce	Power Equipment Operators	Drilling Machine	\$78.03	15J	3K	8X	View
Pierce	Power Equipment Operators	Elevator and man-lift: permanent and shaft type	\$75.55	7A	11H	8X	View
Pierce	Power Equipment Operators	Finishing Machine, Bidwell And Gamaco & Similar Equipment	\$76.56	15J	3K	8X	View
Pierce	Power Equipment Operators	Forklift: 3000 lbs and over with attachments	\$79.00	7A	11H	8X	View
Pierce	Power Equipment Operators	Forklifts: under 3000 lbs. with attachments	\$75.55	7A	11H	8X	View
Pierce	Power Equipment Operators	Grade Engineer: Using Blueprints, Cut Sheets, etc.	\$76.56	15J	3K	8X	View
Pierce	Power Equipment Operators	Gradechecker/stakeman	\$72.66	15J	3K	8X	View
Pierce	Power Equipment Operators	Guardrail punch/Auger	\$76.56	15J	3K	8X	View
Pierce	Power Equipment Operators	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	\$77.24	15J	3K	8X	View
Pierce	Power Equipment Operators	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	\$76.56	15J	3K	8X	View
Pierce	Power Equipment Operators	Horizontal/directional Drill Locator	\$75.97	15J	3K	8X	View
Pierce	Power Equipment Operators	Horizontal/directional Drill Operator	\$76.56	15J	3K	8X	View
Pierce	Power Equipment Operators	Hydralifts/boom trucks: 10 tons and under	\$75.55	7A	11H	8X	View
Pierce	Power Equipment Operators	Hydralifts/boom trucks: over 10 tons	\$79.00	7A	11H	8X	View
Pierce	Power Equipment Operators	Loader, Overhead 8 Yards. & Over	\$78.03	15J	3K	8X	View
Pierce	Power Equipment Operators	Loader, Overhead, 6 Yards. But Not Including 8 Yards	\$77.24	15J	3K	8X	View
Pierce	Power Equipment Operators	Loaders, Overhead Under 6 Yards	\$76.56	15J	3K	8X	View
Pierce	Power Equipment Operators	Loaders, Plant Feed	\$76.56	15J	3K	8X	View
Pierce	Power Equipment Operators	Loaders: Elevating Type Belt	\$75.97	15J	3K	8X	View
Pierce	Power Equipment Operators	Locomotives, All	\$76.56	15J	3K	8X	View
Pierce	Power Equipment Operators	Material Transfer Device	\$76.56	15J	3K	8X	View
Pierce	Power Equipment Operators	Mechanics: all (Leadmen - \$0.50 per hour over mechanic)	\$81.12	7A	11H	8X	View
Pierce	Power Equipment Operators	Motor patrol graders	\$77.24	15J	3K	8X	View
Pierce	Power Equipment Operators	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	\$77.24	15J	3K	8X	View

Pierce	Power Equipment Operators	Oil Distributors, Blower Distribution & Mulch Seeding Operator	\$72.66	15J	3K	8X	View
Pierce	Power Equipment Operators	Outside Hoists (elevators and manlifts), Air Tuggers, Strato	\$79.00	7A	11H	8X	View
Pierce	Power Equipment Operators	Overhead, bridge type Crane: 20 tons through 44 tons	\$79.62	7A	11H	8X	View
Pierce	Power Equipment Operators	Overhead, bridge type: 100 tons and over	\$81.12	7A	11H	8X	View
Pierce	Power Equipment Operators	Overhead, bridge type: 45 tons through 99 tons	\$80.33	7A	11H	8X	View
Pierce	Power Equipment Operators	Pavement Breaker	\$72.66	15J	3K	8X	View
Pierce	Power Equipment Operators	Pile Driver (other Than Crane Mount)	\$76.56	15J	3K	8X	View
Pierce	Power Equipment Operators	Plant Oiler - Asphalt, Crusher	\$75.97	15J	3K	8X	View
Pierce	Power Equipment Operators	Posthole Digger, Mechanical	\$72.66	15J	3K	8X	View
Pierce	Power Equipment Operators	Power Plant	\$72.66	15J	3K	8X	View
Pierce	Power Equipment Operators	Pumps - Water	\$72.66	15J	3K	8X	View
Pierce	Power Equipment Operators	Quad 9, HD 41, D10 And Over	\$77.24	15J	3K	8X	View
Pierce	Power Equipment Operators	Quick Tower: no cab, under 100 feet in height based to boom	\$75.55	7A	11H	8X	View
Pierce	Power Equipment Operators	Remote Control Operator On Rubber Tired Earth Moving Equipment	\$77.24	15J	3K	8X	View
Pierce	Power Equipment Operators	Rigger and Bellman	\$75.55	7A	11H	8X	View
Pierce	Power Equipment Operators	Rigger/Signal Person, Bellman(Certified)	\$79.00	7A	11H	8X	View
Pierce	Power Equipment Operators	Rollagon	\$77.24	15J	3K	8X	View
Pierce	Power Equipment Operators	Roller, Other Than Plant Mix	\$72.66	15J	3K	8X	View
Pierce	Power Equipment Operators	Roller, Plant Mix Or Multi-lift Materials	\$75.97	15J	3K	8X	View
Pierce	Power Equipment Operators	Roto-mill, Roto-grinder	\$76.56	15J	3K	8X	View
Pierce	Power Equipment Operators	Saws - Concrete	\$75.97	15J	3K	8X	View
Pierce	Power Equipment Operators	Scraper, Self Propelled Under 45 Yards	\$76.56	15J	3K	8X	View
Pierce	Power Equipment Operators	Scrapers - Concrete & Carry All	\$75.97	15J	3K	8X	View
Pierce	Power Equipment Operators	Scrapers, Self-propelled: 45 Yards And Over	\$77.24	15J	3K	8X	View
Pierce	Power Equipment Operators	Service Engineers: equipment	\$79.00	7A	11H	8X	View
Pierce	Power Equipment Operators	Shotcrete/gunite Equipment	\$72.66	15J	3K	8X	View
Pierce	Power Equipment Operators	Shovel, Excavator, Backhoe, Tractors Under 15 Metric Tons	\$75.97	15J	3K	8X	View
Pierce	Power Equipment Operators	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	\$77.24	15J	3K	8X	View
Pierce	Power Equipment Operators	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	\$76.56	15J	3K	8X	View
Pierce	Power Equipment Operators	Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons	\$78.03	15J	3K	8X	View

Pierce	Power Equipment Operators	Shovel, Excavator, Backhoes: Over 90 Metric Tons	\$78.81	15J	3K	8X	View
Pierce	Power Equipment Operators	Slipform Pavers	\$77.24	15J	3K	8X	View
Pierce	Power Equipment Operators	Spreader, Toppers & Screedman	\$77.24	15J	3K	8X	View
Pierce	Power Equipment Operators	Subgrader Trimmer	\$76.56	15J	3K	8X	View
Pierce	Power Equipment Operators	Tower Bucket Elevators	\$75.97	15J	3K	8X	View
Pierce	Power Equipment Operators	Tower Crane: over 175' through 250' in height, base to boom	\$81.97	7A	11H	8X	View
Pierce	Power Equipment Operators	Tower crane: up to 175' in height base to boom	\$81.12	7A	11H	8X	View
Pierce	Power Equipment Operators	Tower Cranes: over 250' in height from base to boom.	\$82.76	7A	11H	8X	View
Pierce	Power Equipment Operators	Transporters, All Track Or Truck Type	\$77.24	15J	3K	8X	View
Pierce	Power Equipment Operators	Trenching Machines	\$75.97	15J	3K	8X	View
Pierce	Power Equipment Operators	Truck Crane Oiler/Driver: 100 tons and over	\$79.62	7A	11H	8X	View
Pierce	Power Equipment Operators	Truck crane oiler/driver: under 100 tons	\$79.00	7A	11H	8X	View
Pierce	Power Equipment Operators	Truck Mount Portable Conveyor	\$76.56	15J	3K	8X	View
Pierce	Power Equipment Operators	Vac Truck (Vactor Guzzler, Hydro Excavator)	\$76.56	15J	3K	8X	View
Pierce	Power Equipment Operators	Welder	\$80.33	7A	11H	8X	View
Pierce	Power Equipment Operators	Wheel Tractors, Farmall Type	\$72.66	15J	3K	8X	View
Pierce	Power Equipment Operators	Yo Yo Pay Dozer	\$76.56	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Asphalt Plant Operator	\$77.24	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Assistant Engineer	\$75.55	7A	11H	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Barrier Machine (zipper)	\$76.56	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Batch Plant Operator: Concrete	\$76.56	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Bobcat	\$72.66	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Brokk - Remote Demolition Equipment	\$72.66	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Brooms	\$72.66	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Bump Cutter	\$76.56	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Cableways	\$77.24	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Chipper	\$76.56	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Compressor	\$72.66	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Concrete Pump: Truck Mount With Boom Attachment Over 42m	\$77.24	15J	3K	8X	View

Pierce	Power Equipment Operators-Underground Sewer & Water	Concrete Finish Machine -laser Screed	\$72.66	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure	\$75.97	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	\$76.56	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Conveyors	\$75.97	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Cranes Friction: 200 tons and over	\$82.76	7A	11H	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Cranes, A-frame: 10 tons and under	\$75.55	7A	11H	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Cranes: 100 tons through 199 tons, or 150' of boom (including jib with attachments)	\$81.12	7A	11H	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Cranes: 20 tons through 44 tons with attachments	\$79.62	7A	11H	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Cranes: 200 tons- 299 tons, or 250' of boom including jib with attachments	\$81.97	7A	11H	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Cranes: 300 tons and over or 300' of boom including jib with attachments	\$82.76	7A	11H	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Cranes: 45 tons through 99 tons, under 150' of boom(including jib with attachments)	\$80.33	7A	11H	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Cranes: Friction cranes through 199 tons	\$81.97	7A	11H	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Cranes: through 19 tons with attachments, A-frame over 10 tons	\$79.00	7A	11H	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Crusher	\$76.56	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Deck Engineer/deck Winches (power)	\$76.56	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Derricks: on building work	\$80.33	7A	11H	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Dozers D-9 & Under	\$75.97	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Drill Oilers: Auger Type, Truck Or Crane Mount	\$75.97	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Drilling Machine	\$78.03	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Elevator and man-lift: permanent and shaft type	\$75.55	7A	11H	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Finishing Machine, Bidwell And Gamaco & Similar Equipment	\$76.56	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Forklift: 3000 lbs and over with attachments	\$79.00	7A	11H	8X	View

Pierce	Power Equipment Operators-Underground Sewer & Water	Forklifts: under 3000 lbs. with attachments	\$75.55	7A	11H	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Grade Engineer: Using Blueprints, Cut Sheets, etc.	\$76.56	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Gradechecker/stakeman	\$72.66	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Guardrail punch/Auger	\$76.56	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	\$77.24	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	\$76.56	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Horizontal/directional Drill Locator	\$75.97	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Horizontal/directional Drill Operator	\$76.56	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Hydralifts/boom trucks: 10 tons and under	\$75.55	7A	11H	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Hydralifts/boom trucks: over 10 tons	\$79.00	7A	11H	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Loader, Overhead 8 Yards. & Over	\$78.03	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Loader, Overhead, 6 Yards. But Not Including 8 Yards	\$77.24	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Loaders, Overhead Under 6 Yards	\$76.56	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Loaders, Plant Feed	\$76.56	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Loaders: Elevating Type Belt	\$75.97	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Locomotives, All	\$76.56	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Material Transfer Device	\$76.56	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Mechanics: all (Leadmen - \$0.50 per hour over mechanic)	\$81.12	7A	11H	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Motor patrol graders	\$77.24	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	\$77.24	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Oil Distributors, Blower Distribution & Mulch Seeding Operator	\$72.66	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Outside Hoists (elevators and manlifts), Air Tuggers, Strato	\$79.00	7A	11H	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Overhead, bridge type Crane: 20 tons through 44 tons	\$79.62	7A	11H	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Overhead, bridge type: 100 tons and over	\$81.12	7A	11H	8X	View

Pierce	Power Equipment Operators-Underground Sewer & Water	Overhead, bridge type: 45 tons through 99 tons	\$80.33	7A	11H	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Pavement Breaker	\$72.66	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Pile Driver (other Than Crane Mount)	\$76.56	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Plant Oiler - Asphalt, Crusher	\$75.97	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Posthole Digger, Mechanical	\$72.66	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Power Plant	\$72.66	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Pumps - Water	\$72.66	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Quad 9, HD 41, D10 And Over	\$77.24	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Quick Tower: no cab, under 100 feet in height based to boom	\$75.55	7A	11H	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Remote Control Operator On Rubber Tired Earth Moving Equipment	\$77.24	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Rigger and Bellman	\$75.55	7A	11H	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Rigger/Signal Person, Bellman(Certified)	\$79.00	7A	11H	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Rollagon	\$77.24	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Roller, Other Than Plant Mix	\$72.66	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Roller, Plant Mix Or Multi-lift Materials	\$75.97	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Roto-mill, Roto-grinder	\$76.56	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Saws - Concrete	\$75.97	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Scraper, Self Propelled Under 45 Yards	\$76.56	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Scrapers - Concrete & Carry All	\$75.97	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Scrapers, Self-propelled: 45 Yards And Over	\$77.24	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Service Engineers: equipment	\$79.00	7A	11H	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Shotcrete/gunite Equipment	\$72.66	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Shovel, Excavator, Backhoe, Tractors Under 15 Metric Tons	\$75.97	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	\$77.24	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	\$76.56	15J	3K	8X	View

Pierce	Power Equipment Operators-Underground Sewer & Water	Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons	\$78.03	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Slipform Pavers	\$77.24	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Spreader, Toppers & Screedman	\$77.24	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Subgrader Trimmer	\$76.56	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Tower Bucket Elevators	\$75.97	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Tower Crane: over 175' through 250' in height, base to boom	\$81.97	7A	11H	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Tower crane: up to 175' in height base to boom	\$81.12	7A	11H	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Tower Cranes: over 250' in height from base to boom.	\$82.76	7A	11H	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Transporters, All Track Or Truck Type	\$77.24	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Trenching Machines	\$75.97	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Truck Crane Oiler/Driver: 100 tons and over	\$79.62	7A	11H	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Truck crane oiler/driver: under 100 tons	\$79.00	7A	11H	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Truck Mount Portable Conveyor	\$76.56	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Vac Truck (Vactor Guzzler, Hydro Excavator)	\$76.56	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Welder	\$80.33	7A	11H	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Wheel Tractors, Farmall Type	\$72.66	15J	3K	8X	View
Pierce	Power Equipment Operators-Underground Sewer & Water	Yo Yo Pay Dozer	\$76.56	15J	3K	8X	View
Pierce	Power Line Clearance Tree Trimmers	Journey Level In Charge	\$57.22	5A	4A		View
Pierce	Power Line Clearance Tree Trimmers	Spray Person	\$54.32	5A	4A		View
Pierce	Power Line Clearance Tree Trimmers	Tree Equipment Operator	\$57.22	5A	4A		View
Pierce	Power Line Clearance Tree Trimmers	Tree Trimmer	\$51.18	5A	4A		View
Pierce	Power Line Clearance Tree Trimmers	Tree Trimmer Groundperson	\$38.99	5A	4A		View
Pierce	Refrigeration & Air Conditioning Mechanics	Journey Level	\$85.71	5A	1G		View
Pierce	Residential Brick Mason	Journey Level	\$27.02		1		View
Pierce	Residential Carpenters	Journey Level	\$49.92	15J	4C		View
Pierce	Residential Cement Masons	Journey Level	\$45.99		1		View
Pierce	Residential Drywall Applicators	Journey Level	\$71.53	15J	4C		View
Pierce	Residential Drywall Tapers	Journey Level	\$70.61	5P	1E		View

Pierce	Residential Electricians	Journey Level	\$44.11		1	View
Pierce	Residential Glaziers	Journey Level	\$75.91	<u>7L</u>	<u>1Y</u>	View
Pierce	Residential Insulation Applicators	Journey Level	\$24.52		1	View
Pierce	Residential Laborers	Journey Level	\$33.97		1	View
Pierce	Residential Marble Setters	Journey Level	\$29.29		1	View
Pierce	Residential Painters	Journey Level	\$49.46	<u>6Z</u>	<u>11J</u>	View
Pierce	Residential Plumbers & Pipefitters	Journey Level	\$84.72	<u>5A</u>	<u>1G</u>	View
Pierce	Residential Refrigeration & Air Conditioning Mechanics	Journey Level	\$84.72	<u>5A</u>	<u>1G</u>	View
Pierce	Residential Sheet Metal Workers	Journey Level	\$94.11	<u>7F</u>	<u>1E</u>	View
Pierce	Residential Soft Floor Layers	Journey Level	\$55.76	<u>5A</u>	<u>3J</u>	View
Pierce	Residential Sprinkler Fitters (Fire Protection)	Journey Level	\$58.26	<u>5C</u>	<u>2R</u>	View
Pierce	Residential Stone Masons	Journey Level	\$29.29		1	View
Pierce	Residential Terrazzo Workers	Journey Level	\$15.74		1	View
Pierce	Residential Terrazzo/Tile Finishers	Journey Level	\$21.96		1	View
Pierce	Residential Tile Setters	Journey Level	\$25.98		1	View
Pierce	Roofers	Journey Level	\$60.90	<u>5A</u>	<u>2O</u>	View
Pierce	Roofers	Using Irritable Bituminous Materials	\$63.90	<u>5A</u>	<u>2O</u>	View
Pierce	Sheet Metal Workers	Journey Level (Field or Shop)	\$94.11	<u>7F</u>	<u>1E</u>	View
Pierce	Shipbuilding & Ship Repair	New Construction Boilermaker	\$41.83	<u>7V</u>	1	View
Pierce	Shipbuilding & Ship Repair	New Construction Carpenter	\$41.83	<u>7V</u>	1	View
Pierce	Shipbuilding & Ship Repair	New Construction Crane Operator	\$41.83	<u>7V</u>	1	View
Pierce	Shipbuilding & Ship Repair	New Construction Electrician	\$41.83	<u>7V</u>	1	View
Pierce	Shipbuilding & Ship Repair	New Construction Heat & Frost Insulator	\$84.84	<u>15H</u>	<u>11C</u>	View
Pierce	Shipbuilding & Ship Repair	New Construction Laborer	\$41.83	<u>7V</u>	1	View
Pierce	Shipbuilding & Ship Repair	New Construction Machinist	\$41.83	<u>7V</u>	1	View
Pierce	Shipbuilding & Ship Repair	New Construction Operating Engineer	\$41.83	<u>7V</u>	1	View
Pierce	Shipbuilding & Ship Repair	New Construction Painter	\$41.83	<u>7V</u>	1	View
Pierce	Shipbuilding & Ship Repair	New Construction Pipefitter	\$41.83	<u>7V</u>	1	View
Pierce	Shipbuilding & Ship Repair	New Construction Rigger	\$41.83	<u>7V</u>	1	View
Pierce	Shipbuilding & Ship Repair	New Construction Sheet Metal	\$41.83	<u>7V</u>	1	View
Pierce	Shipbuilding & Ship Repair	New Construction Shipfitter	\$41.83	<u>7V</u>	1	View
Pierce	Shipbuilding & Ship Repair	New Construction Warehouse/Teamster	\$41.83	<u>7V</u>	1	View
Pierce	Shipbuilding & Ship Repair	New Construction Welder / Burner	\$41.83	<u>7V</u>	1	View
Pierce	Shipbuilding & Ship Repair	Ship Repair Boilermaker	\$50.35	<u>7X</u>	<u>4J</u>	View
Pierce	Shipbuilding & Ship Repair	Ship Repair Carpenter	\$50.95	<u>7X</u>	<u>4J</u>	View
Pierce	Shipbuilding & Ship Repair	Ship Repair Crane Operator	\$45.06	<u>7Y</u>	<u>4K</u>	View
Pierce	Shipbuilding & Ship Repair	Ship Repair Electrician	\$50.42	<u>7X</u>	<u>4J</u>	View

Pierce	Shipbuilding & Ship Repair	Ship Repair Heat & Frost Insulator	\$84.84	<u>15H</u>	<u>11C</u>		View
Pierce	Shipbuilding & Ship Repair	Ship Repair Laborer	\$50.95	<u>7X</u>	<u>4J</u>		View
Pierce	Shipbuilding & Ship Repair	Ship Repair Machinist	\$50.95	<u>7X</u>	<u>4J</u>		View
Pierce	Shipbuilding & Ship Repair	Ship Repair Operating Engineer	\$45.06	<u>7Y</u>	<u>4K</u>		View
Pierce	Shipbuilding & Ship Repair	Ship Repair Painter	\$50.95	<u>7X</u>	<u>4J</u>		View
Pierce	Shipbuilding & Ship Repair	Ship Repair Pipefitter	\$50.95	<u>7X</u>	<u>4J</u>		View
Pierce	Shipbuilding & Ship Repair	Ship Repair Rigger	\$50.35	<u>7X</u>	<u>4J</u>		View
Pierce	Shipbuilding & Ship Repair	Ship Repair Sheet Metal	\$50.35	<u>7X</u>	<u>4J</u>		View
Pierce	Shipbuilding & Ship Repair	Ship Repair Shipwright	\$50.95	<u>7X</u>	<u>4J</u>		View
Pierce	Shipbuilding & Ship Repair	Ship Repair Warehouse / Teamster	\$45.06	<u>7Y</u>	<u>4K</u>		View
Pierce	Sign Makers & Installers (Electrical)	Sign Installer	\$26.17		<u>1</u>		View
Pierce	Sign Makers & Installers (Electrical)	Sign Maker	\$20.33		<u>1</u>		View
Pierce	Sign Makers & Installers (Non-Electrical)	Sign Installer	\$33.43		<u>1</u>		View
Pierce	Sign Makers & Installers (Non-Electrical)	Sign Maker	\$22.79		<u>1</u>		View
Pierce	Soft Floor Layers	Journey Level	\$62.39	<u>15J</u>	<u>4C</u>		View
Pierce	Solar Controls For Windows	Journey Level	\$15.74		<u>1</u>		View
Pierce	Sprinkler Fitters (Fire Protection)	Journey Level	\$92.49	<u>5C</u>	<u>1X</u>		View
Pierce	Stage Rigging Mechanics (Non Structural)	Journey Level	\$15.74		<u>1</u>		View
Pierce	Stone Masons	Journey Level	\$66.32	<u>7E</u>	<u>1N</u>		View
Pierce	Street And Parking Lot Sweeper Workers	Journey Level	\$21.69		<u>1</u>		View
Pierce	Surveyors	Assistant Construction Site Surveyor	\$79.00	<u>7A</u>	<u>11H</u>	<u>8X</u>	View
Pierce	Surveyors	Chainman	\$75.55	<u>7A</u>	<u>11H</u>	<u>8X</u>	View
Pierce	Surveyors	Construction Site Surveyor	\$80.33	<u>7A</u>	<u>11H</u>	<u>8X</u>	View
Pierce	Surveyors	Drone Operator (when used in conjunction with surveying work only)	\$75.55	<u>7A</u>	<u>11H</u>	<u>8X</u>	View
Pierce	Surveyors	Ground Penetrating Radar	\$75.55	<u>7A</u>	<u>11H</u>	<u>8X</u>	View
Pierce	Telecommunication Technicians	Journey Level	\$51.14	<u>6Z</u>	<u>1B</u>		View
Pierce	Telephone Line Construction - Outside	Cable Splicer	\$39.15	<u>5A</u>	<u>2B</u>		View
Pierce	Telephone Line Construction - Outside	Hole Digger/Ground Person	\$26.29	<u>5A</u>	<u>2B</u>		View
Pierce	Telephone Line Construction - Outside	Telephone Equipment Operator (Light)	\$32.72	<u>5A</u>	<u>2B</u>		View
Pierce	Telephone Line Construction - Outside	Telephone Lineperson	\$37.00	<u>5A</u>	<u>2B</u>		View
Pierce	Terrazzo Workers	Journey Level	\$60.36	<u>7E</u>	<u>1N</u>		View
Pierce	Tile Setters	Journey Level	\$60.36	<u>7E</u>	<u>1N</u>		View
Pierce	Tile, Marble & Terrazzo Finishers	Finisher	\$51.19	<u>7E</u>	<u>1N</u>		View

Pierce	Traffic Control Stripers	Journey Level	\$51.90	7A	1K		View
Pierce	Truck Drivers	Asphalt Mix Over 16 Yards	\$72.45	15J	11M	8L	View
Pierce	Truck Drivers	Asphalt Mix To 16 Yards	\$71.61	15J	11M	8L	View
Pierce	Truck Drivers	Dump Truck	\$71.61	15J	11M	8L	View
Pierce	Truck Drivers	Dump Truck & Trailer	\$72.45	15J	11M	8L	View
Pierce	Truck Drivers	Other Trucks	\$72.45	15J	11M	8L	View
Pierce	Truck Drivers - Ready Mix	Transit Mix	\$72.45	15J	11M	8L	View
Pierce	Well Drillers & Irrigation Pump Installers	Irrigation Pump Installer	\$16.09		1		View
Pierce	Well Drillers & Irrigation Pump Installers	Oiler	\$15.74		1		View
Pierce	Well Drillers & Irrigation Pump Installers	Well Driller	\$18.30		1		View

APPENDIX B

Directions for Applying Malarkey Laminate Shingles

GENERAL INSTRUCTIONS

Install Malarkey laminate shingles according to adopted building code and local amendments. To qualify for warranty protection and obtain stated coverage, the installation instructions detailed here must be followed. Contact Malarkey Technical Services or check our website at WWW.MALARKEYROOFING.COM for the most current version.

We assume no responsibility when there has been improper application, failure to properly prepare the surface or provide proper ventilation according to FHA or HUD minimum property standard requirements and adopted building code.

For current warranty information, visit WWW.MALARKEYROOFING.COM/warranties.

Standard exposure is 5/8" (143 mm) to the weather. Offset between courses is 8" (203 mm). Minimum offset for shingle installation is 4" (102 mm).

These step-by-step application instructions apply to standard slopes/inclines of not less than 4" (102 mm) per 12" (305 mm) or more than 21" (533 mm) per 12" (305 mm). For lower slopes [2" (51 mm) to less than 4" (102 mm) per 12" (305 mm)] and steep slopes [more than 21" (533 mm) per 12" (305 mm)], modify the installation as described below. Do not apply shingles on roofs having a slope less than 2" (51 mm) per 12" (305 mm).

Note: The film strips on each shingle, front and back, prevent shingles from sticking together while in the bundle and are not designed to be removed.

IMPORTANT

- ALWAYS wear fall protection when working on a roof.
- Underlayments can be slippery, particularly when wet or covered with frost. Be careful when walking on them.

Ventilation: To prevent harmful condensation or heat buildup, air must circulate freely under the roof deck. Install roof vents at ridges and eaves. Ventilation provisions must meet or exceed current FHA or HUD requirements and adopted building codes.

Roof Deck: The surface to receive the new roofing should be in good shape and solidly sheathed, constructed of a minimum 3/8" (10 mm) thick, exterior-grade plywood, 7/16" (11 mm) thick oriented strand board (OSB), or seasoned lumber, nominally 1" (25 mm) thick. Boards should be positioned tight to each other and securely nailed to framing members. Deteriorated or rotted boards should be replaced. For excessively resinous areas and loose knots, cover with sheet metal patches.

Malarkey strongly recommends installing sheathing when wood board decking is the existing substrate. Problems with the performance of your roofing system, such as leaks and buckling, increase if installed directly over wood board decks. Failure to use properly conditioned deck materials can result in deck movement which can damage the roof covering and may void your warranty.

Drip Edge Flashing: In accordance with 2018 International Building Code, Section 1507.2.8.3, and 2018 International

Residential (Building) Code, Section R905.2.8.5, *drip edge flashing* (drip edge, eave or rake metal) is required along the eave and rake edges of shingle roofs.

Install drip edge first along the eaves, and later on the rakes once the field underlayment has been applied.

UNDERLAYMENT

Malarkey makes two types of underlayment, the first being water-resistant, *mechanically-attached* field underlayments Right Start™ UDL and our Secure Start® line of synthetic underlayments.

The second type are waterproof, *self-adhering* underlayments, Arctic Seal® and Secure Start® HT products which are intended for use in cold weather climates that produce ice dams.

Self-adhering underlayment can also be installed as a flashing membrane in areas susceptible to leaks such as roof valleys, roof-to-vertical transitions, and around vents, curbs, skylights and other roof penetrations.

Underlayment is required on roof decks prior to the installation of Malarkey shingles. Your geographical location, weather, degree of roof slope, and type of roof covering will help determine which Malarkey underlayment is right for your situation. Consult local building code for additional guidance.

Complete installation instructions are available on our website at WWW.MALARKEYROOFING.COM.

Other Instructions Common to the Installations that Follow:

- Underlayment is installed parallel to the eaves.
- End laps in the same course should be 6" (152 mm), and staggered 6' (1.8 m) apart in subsequent courses.
- Extend field underlayments 6" (152 mm) over hips, ridges and valleys. Where the roof meets a vertical surface, run the underlayment a minimum of 3" (76 mm) up the wall and secure.
- Once an expanse of roof is covered by underlayment up to the ridge, apply drip edge flashing to the rakes, over the ends of underlayment.

INSTALLATION IN NON-ICE DAM REGIONS

Roof Slopes 4:12 and Greater

Roof slopes 4:12 (4" [102 mm] per 12" [305 mm]) and greater require the installation of a single (1) layer of Malarkey's field underlayment (or code-compliant equivalent) over the entire roof deck.

Install the initial course flush to the eave and trim at the rake. Fasten sufficiently to hold the underlayment in place and work safely until shingles are applied or according to adopted building code. Secure Start® underlayments have bullseye imprints on the material to act as guides for fastening.

Continue working up the roof, subsequent courses overlapping the preceding by 2"-4" (51-102 mm), depending on the type of underlayment being applied. (See Figure 1)

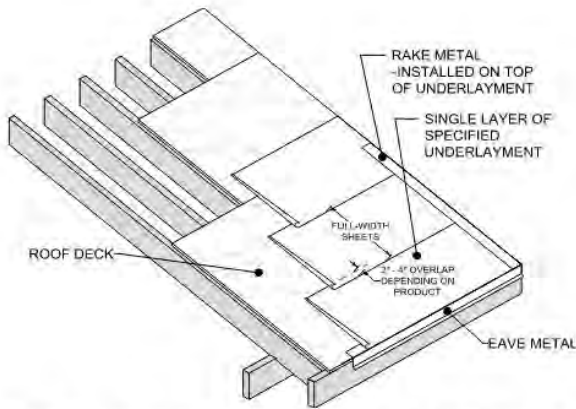


Figure 1 - Application of Field Underlayment on Roof Slopes 4:12 and Greater (Non-Ice Dam Regions)

Roof Slopes 2:12 Up to 4:12

Install a *double layer* of any Malarkey underlayments. If local building code has adopted 2015 or later IBC or IRC, a *single layer* of ASTM D1970 underlayment (Arctic Seal[®], Secure Start[®] HT) is acceptable as an exception per the I-Codes.

For a double layer, start at a lower corner of roof and begin by applying a half-width *starter strip* of field underlayment (or code-compliant equivalent) along the eaves.

Succeeding courses are all full-width, the first course completely overlapping the starter, and followed by courses half-lapped over preceding courses, on up the roof.

Fasten sufficiently to hold in place and work safely until shingles are applied or according to adopted building code. (See **Figure 2**)

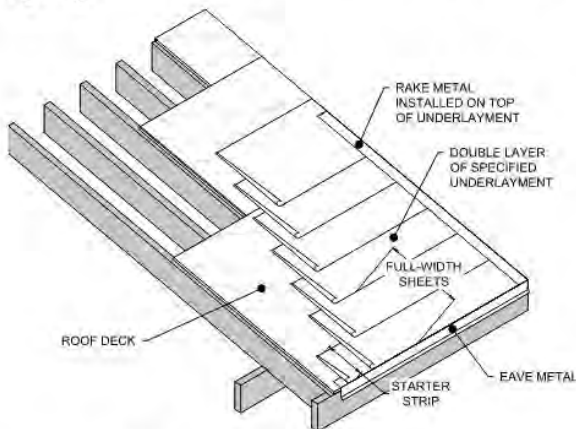


Figure 2 - Application of Field Underlayment on Roof Slopes 2:12 Up to 4:12 (Non-Ice Dam Regions)

Optional installation for low slope roofs: For superior protection in coastal regions, areas of wind-driven rain, or homes with double-slope construction, the roof deck can be covered with a double layer of Arctic Seal[®] self-adhering underlayment or equivalent conforming to ASTM D1970.

When choosing this option, make sure proper ventilation and moisture control issues are addressed.

INSTALLATION IN ICE DAM REGIONS

Roof Slopes 4:12 and Greater

In geographic regions that experience the possibility of ice dams along the eaves (or if required by building code), install a full-width sheet of *self-adhering* underlayment (or equivalent underlayment conforming to ASTM D1970) along the eaves.

Continue installing self-adhering underlayment up and out onto the roof no less than 24" (610 mm) past the inside, warm interior wall of the house or above the expected level of ice dams or according to building code requirements.

If additional courses of self-adhering underlayment are necessary to reach that point, *course lap guide lines* (lay lines) on the sheets show how far to lap the material. Firmly hand-roll these overlaps to ensure a complete, watertight bond.

Once past 24" (610 mm), follow with full-width courses of your specified field underlayment, the first course lapped 6" (152 mm) over the termination of self-adhering underlayment and the rest with 2"-4" (51-102 mm) side laps, depending on the type of underlayment being applied. Lay lines show how far to lap the material.

Fasten as described above.

For extra protection at the eaves and prior to the installation of drip edge, install a 6"-wide (152 mm) stripping ply of Arctic Seal[®], and ensure it covers the junction of roof and fascia. (See **Figure 3**)

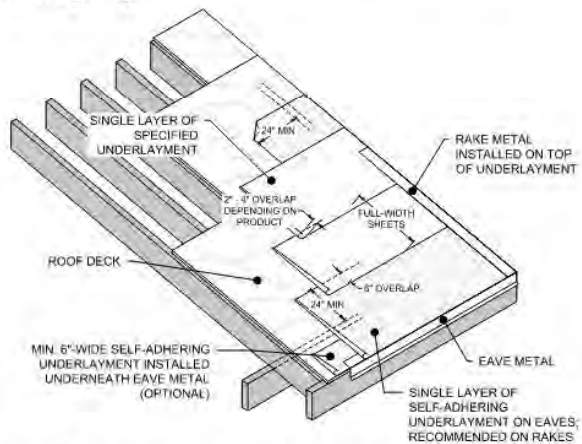


Figure 3 - Application of Self-Adhering and Field Underlayments on Roof Slopes 4:12 and Greater (Ice Dam Regions)

Roof Slopes 2:12 Up to 4:12

Like 4:12 and greater slopes, begin with a full-width sheet of self-adhering underlayment (or equivalent compliant with ASTM D1970) along the eaves.

Continue application up and out onto the roof as necessary to a point not less than 24" (610 mm) past the inside, warm interior wall of the house or above the expected level of ice dams or according to building code requirements.

Once that point is reached, switch to *double layers* of your specified field underlayment, the first course a half-width *starter strip* lapped 6" (152 mm) over the termination of self-adhering underlayment.

Succeeding courses are full-width, the first course completely overlapping the starter, and followed by courses half-lapped over preceding courses, on up the roof.

Fasten as described above. (See Figure 4)

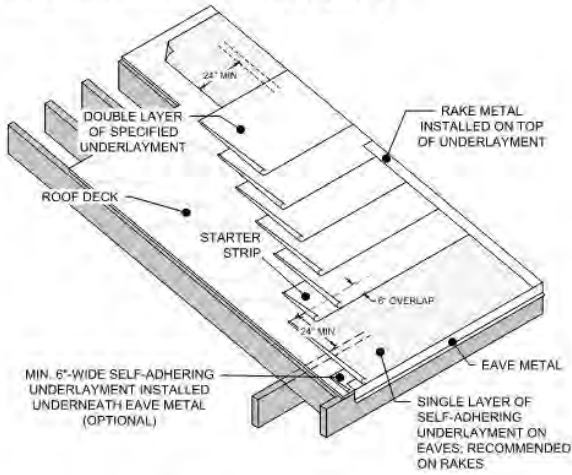


Figure 4 - Application of Self-Adhering and Field Underlayments on Roof Slopes 2:12 Up to 4:12 (Ice Dam Regions)

SHINGLE FASTENING

Type of Fasteners: Fasteners must be minimum 12-gauge (0.105 inch [3 mm]) shank, galvanized steel, stainless steel, aluminum or copper roofing nails, with a 3/8" (10 mm) head, compliant with ASTM F1667, and long enough to penetrate through all layers of roofing materials and at least 3/4" (19 mm) into the roof sheathing. Where the roof sheathing is less than 3/4" (19 mm) thick, the fasteners shall penetrate through the sheathing.

Malarkey approves the use of hand-nailing and/or pneumatic nailers for applying fasteners, but nails must be driven flush to the shingle surface and not overdriven, underdriven or driven at an angle, especially on low slope installations where water runs off less freely and leaks could result. When fastening adjacent shingles, butt them loosely together to prevent buckling.

The use of staples is not an approved fastening method. (See Figure 5)

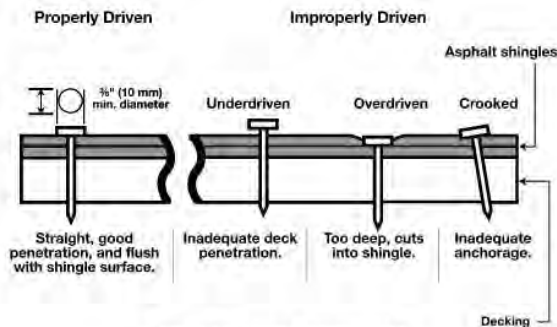


Figure 5 - Nailing Instructions

Nailing Pattern: Under normal conditions, use four (4) fasteners for each full shingle.

Malarkey laminate shingles feature The Zone®, an enlarged, 1 3/16" (33 mm) wide nailing area that helps ensure correct fastener placement. Place fasteners in this nailing area approximately 1" (25 mm) in from each edge and the remaining fasteners evenly spaced between. (See Figure 6)

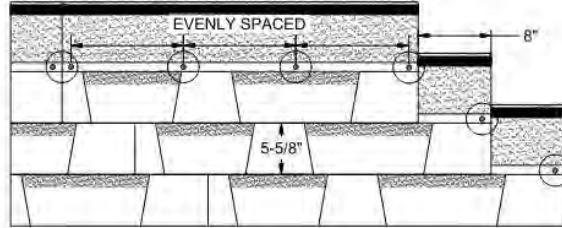


Figure 6 - Lamine, 4-Nail Fastening Pattern

Wind Resistance and Hand-Sealing: Malarkey shingles are manufactured with strips of a factory-applied, thermal sealant that is activated by the heat of the sun after the shingle is on the roof. Exposure to the sun's heat bonds each shingle to the one below for wind resistance.

A variety of conditions like cold weather, high winds or blowing dust, however, can affect the ability of the sealant strip to activate and prevent shingles from self-sealing during, or shortly after, installation. If shingles have not sealed after a reasonable time period, hand-sealing (also called hand-tapping) is strongly recommended.

Note: Malarkey's wind warranties apply only when shingles are sealed, whether by hand-sealing or activation of the self-sealing strips. Failure to seal under adverse circumstances like those described above is not a manufacturing defect.

To hand-seal a shingle, apply four (4) quarter-size dabs of asphalt roof cement conforming to ASTM D4586 evenly spaced under each shingle, and press shingles firmly into the cement. Excessive use may cause blistering; correct amounts should not bleed out from under the shingle. (See Figure 7)

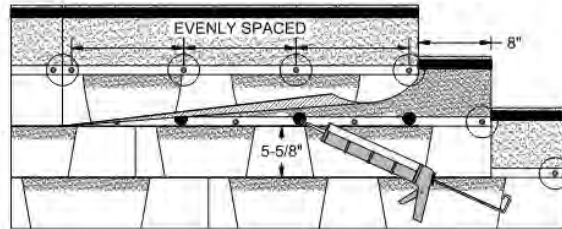


Figure 7 - Hand-Sealing Lamine Shingles

Steep Slope Fastening of Lamine Shingles: Roof decks with slopes greater than 21" (533 mm) per 12" (305 mm) require installation with six (6) fasteners per shingle and hand-sealing underneath.

Two methods for fastening can be used, but for each, the outer fasteners must be placed in the nailing area approximately 1" (25 mm) in from each edge. The first method has the remaining four (4) fasteners also placed in the nailing area and evenly spaced between. (See Figure 8)

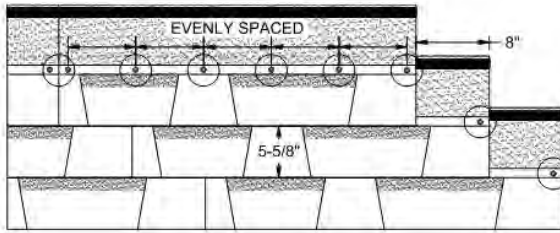


Figure 8 - Laminate, 6-Nail Fastening Pattern

The second, alternate way has the interior fasteners as indicated to accommodate shingle offsets and ensures no nail is less than 2" (51 mm) from the joint of the underlying shingles. (See Figure 9)

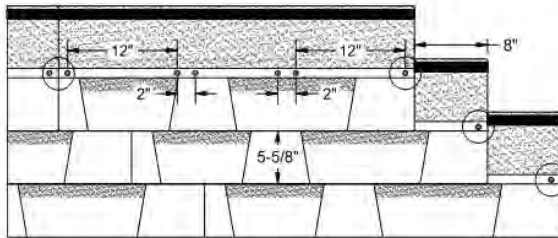


Figure 9 - Laminate, 6-Nail Alternate Fastening Pattern

Note: See Malarkey's *Shingle and Accessory Warranty* online for any additional requirements related to specific coverages.

SHINGLE PATTERN LAYOUT AND APPLICATION

Important: The diagonal application procedures described below are necessary to prevent objectionable patterning. Malarkey is not responsible for such patterning on roofs where this diagonal application is not used. Exposures should be even along the courses as well, or an objectionable appearance may occur.

Malarkey Smart Start™ Starter Shingles: Smart Start™ starter shingles are designed to be separated lengthwise at a perforation so you get two, full-size starter shingles in one. The perforation is in the middle of the shingle, 8^{3/16}" (208 mm) from each edge, and both pieces have seal-down strips. Besides eaves, it is recommended Smart Start™ starter shingles be installed on the rake edges of roof to provide a clean edge and increase wind resistance.

LAMINATE SHINGLE PATTERN LAYOUT (8" [203 MM] OFFSET, FIVE COURSE DIAGONAL METHOD)

Starter Course: Install Malarkey Smart Start™ starter shingles or equivalent conforming to ASTM D3462. Ensure they are positioned with the factory-applied sealant strip face up and the strip adjacent to the eave edge of roof.

Cut 6" (152 mm) off one end of the first starter shingle, and lay it on a lower corner of the roof, overhanging the rake and eave edges by ¼"- ¾" (6-19 mm).

Fasten with 4 nails, 1½"- 3" (38-76 mm) up from the eave, with one fastener 1" (25 mm) from each side of the starter and

the remaining two evenly spaced on the same line as the end fasteners. Do not place fasteners in the seal-down strip.

Continue across the eave with full-length starter shingles, butting them loosely together to prevent buckling.

First Course of Shingles: Start the first course with a full-length shingle laid directly over the starter course.

Begin at the same lower corner of roof and apply flush with the edges of the starter course on both eave and rake sides (maintaining the ¼"- ¾" [6-19 mm] roof overhang).

Fasten as described in the *Shingle Fastening* section above.

Second through Succeeding Courses: Start the second course with a shingle from which 8" (203 mm) has been cut from one end.

Position the remaining piece over the underlying, first course shingle, and align the bottom edge along a line level with the "sawtooth" overlay, leaving an exposure of 5½" (143 mm). Secure with fasteners.

Courses three through five are begun with partial shingles, each progressively 8" (203 mm) shorter, establishing the overall diagonal pattern. Pieces cut from shingles along the left rake can be used either to continue the diagonal installation pattern or finish off courses at the right rake.

Apply a full-length shingle adjacent to each of the first five courses to extend the pattern. Join the shingles loosely together to prevent buckling. Butt factory edge to factory edge when installing the stairstep method. This helps maintain a straight layout of the remaining shingles.

The sixth course begins again with a full length shingle, so repeat the 1-to-5 course cycle on up the roof.

Shingles may be laid from either lower corner of roof; follow layout and cutting instructions as required for proper application.

Note: Other shingle offsets are acceptable but no less than 4" (102 mm). Straight up application of shingles, or *racking*, is not recommended. (See Figure 10)

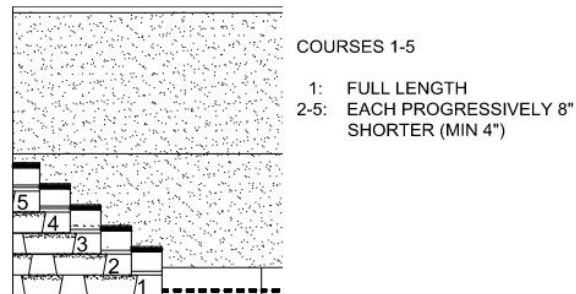


Figure 10 - Laminate Shingle Layout Pattern

CONSTRUCTING ROOF VALLEYS

Similar to a roof deck being prepared for shingles by first applying an underlayment, roof valleys must be likewise prepared before they can be "constructed" with shingles.

Closed-cut and *Open Metal Valley* applications are recommended for laminate shingles (instructions to follow); the *Open Membrane Valley* style is also acceptable.

Valley Underlayment: Center a full-width strip of self-adhering underlayment (or equivalent conforming to ASTM D1970)

in the valley, and apply it directly to the roof deck. Ensure this valley liner is tight to the deck without bridging in the center of the valley.

Field underlayment can be woven across the valley liner and up the opposite side at least 12" (305 mm) or lapped over each side a minimum of 6" (152 mm). When fastening, be aware no fasteners are allowed within 6" (152 mm) of the valley centerline.

Valley underlayment must be in place for each method described next.

Closed-Cut Valley Construction: Lay a first course of shingles along the eave on one side of the roof, and continue it across the valley and onto the adjoining roof at least 12" (305 mm). Do not make a joint in the valley. Should a shingle fall short, add-in one or two tab sections so the joint falls outside the line of the valley.

Press the shingles well into the break of the valley, and nail using normal fastening methods, remembering no fasteners are allowed closer than 6" (152 mm) to the valley centerline.

Besides the nails used to secure the shingle, add another in the upper corner at the end of each shingle crossing the valley.

Repeat these procedures with the first course of shingles on the intersecting roof, extending it across the valley, over the top of the shingles laid before, and at least 12" (305 mm) onto the adjoining roof surface. Press into the valley, and fasten as before.

Note: The first course of shingles are the only ones woven in this fashion.

Return to the side of the roof you began with, and resume laying shingle courses across the valley and onto the adjoining roof at least 12" (305 mm). Complete the installation of shingles on that roof section.

Snap a chalk line 2" (51 mm) from the centerline of the valley on the unshingled side. Begin applying shingle courses on the unshingled side, trimming them diagonally at the chalk line to match the centerline angle, and cropping the upper corner of the last shingle at a 1" (25 mm), 45 degree cut. Doing this will direct water into the valley.

Embed the ends of the cut valley shingles in a continuous 3" (76 mm) wide bead of asphalt roof cement conforming to ASTM D4586, and press them into the adhesive.

Complete the installation of shingles on that roof section. (See Figure 11)

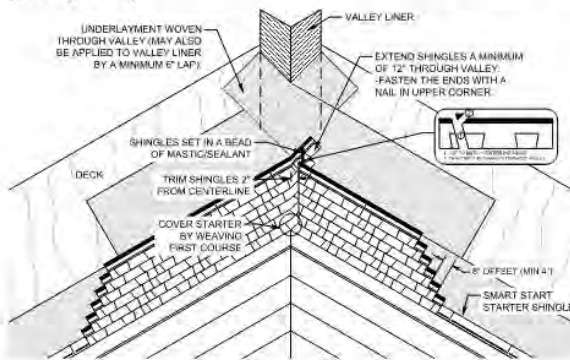


Figure 11 - Closed-Cut Valley Application

Open Metal Valley Construction: Metal valley flashing ("valley metal") used with Malarkey shingles must be minimum 24" (610 mm) wide and 26 gauge. Preformed, "W"-shaped flashing is recommended.

Center the valley metal over the valley liner, press it into the break of the valley, and secure with fasteners no more than 1" (25 mm) from the outside edges at a spacing of 10" (254 mm) to 12" (305 mm) O.C.

Set overlapping ends of the valley metal in a continuous bead of sealant, achieving a lap of 4" (102 mm). DO NOT FASTEN THE METAL LAP.

For additional sealing, a continuous 6" (152 mm) strip of self-adhering Arctic Seal® may be applied over the fasteners on each side of the valley metal.

Never use a shingle trimmed to less than 12" (305 mm) in length to finish a course running into a valley. If necessary, trim a tab off the adjacent shingle in the course to allow a longer portion to be used. Make sure each shingle extends far enough into the valley so in a future step, a shingle's full width (or height) will be trimmed back.

Nail no closer than 6" (152 mm) to the valley centerline.

Now trim shingles a minimum of 2" (51 mm) back from the centerline, cut the ends diagonally to match the centerline angle, and crop the top of each shingle at a 1" (25 mm), 45 degree cut.

Embed the ends of the cut valley shingles in a continuous 3" (76 mm) wide bead of asphalt roof cement conforming to ASTM D4586, and press them into the adhesive. (See Figure 12)

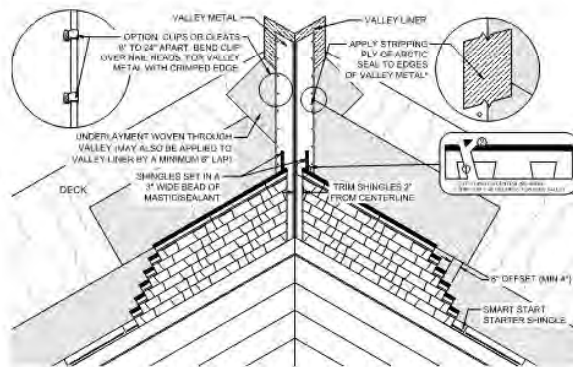


Figure 12 - Open Metal Valley Application

FLASHING APPLICATIONS

Intersections of Roof and Vertical Sidewall: Minimum 26-gauge, metal step flashing is used in the junction between a sloping roof and intersecting sidewall (on a dormer, for example) to protect this vulnerable area from moisture intrusion.

Step flashing can be square or rectangular, but 8-inch (203 mm) by 8-inch (203 mm) dimensions are common and satisfactory for our purposes.

Being 8" wide allows the flashing to be bent at 90 degrees and pushed against the transition of roof to wall, the horizontal flange extending 4" (127 mm) out onto the roof deck and the vertical flange, 4" (127 mm) up the wall assembly. Being

8" long allows individual step flashing pieces to overlap each other in water-shedding fashion as they are installed.

Individual step flashing pieces are integrated with each course of shingles as they are applied to intersect the sidewall. A 1/4"-3/4" (6-19 mm) gap between the shingles and vertical bend of the flashing is recommended.

To allow for possible roof movement, fasten each piece of flashing to the roof deck and not the sidewall.

Installation is as follows: Atop the Smart Start™ starter course at the eave, place the first piece of flashing*. The horizontal flange should be flush with the eave edge of the starter and the vertical flange against the sidewall, counter-flashed by the wall cladding.

Fasten the horizontal flange of the step flashing to the roof deck with two nails placed 1" (25 mm) from the upper edge and spaced an equal distance apart.

Lay a first course shingle down on the roof, positioning it close to the sidewall but leaving a 1/4"-3/4" (6-19 mm) gap between the end of the shingle and vertical bend in the step flashing. Fasten in place. The horizontal flange of the flashing will no longer be visible, but you can still see the vertical flange along the sidewall.

Place the second step flashing atop the first course shingle, and position it up from the eave edge of the shingle, matching the shingle exposure, and fasten as before.

Lay a second course shingle on the roof, position leaving a gap, and fasten.

Place the third step flashing atop that, overlapping the end of the previous step flashing at the point of shingle exposure (overlap is typically 2" [51 mm]).

Continue like this on up to the top of the sidewall intersection, alternating between the placement of step flashing and shingles.

* The "first piece of flashing" in this instance might well be "kickout" flashing, a piece of flashing cut and angled to direct water out and away from the side of a structure.

To accommodate the angled part, yet still serve as the initial piece of step flashing, the kickout will likely have a greater length than a regular piece of flashing. Otherwise, the installation of shingles and step flashing to follow is the same.

(See Figure 13)

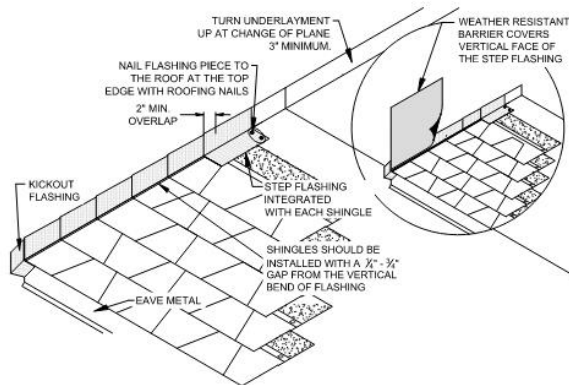


Figure 13 - Step Flashing Application at Roof-to-Sidewall Transitions

Vent Pipe (and Other Flanged Penetration) Flashing:

Install shingle courses up to the vent pipe, and cut a hole in the shingle to be positioned over the pipe. Install the pipe jack or boot (top and side flanges may be set in sealant).

Additional, optional weatherproofing: Unexposed pipe jack flanges (top and both sides) may also be stripped-off with minimum 6" (152 mm) wide Arctic Seal®, covering all fasteners used to secure the flanges, and tying onto the field underlayment a minimum of 3" (76 mm).

Continue roofing around the pipe, cutting shingles to fit on the sides and top of the pipe jack flanges. Ensure shingles extend beyond the downslope side of the pipe itself. Shingles that overlap any part of the flanges should be sealed to the flange with asphalt roof cement conforming to ASTM D4586. Correct amounts should not bleed out from under the shingles; excessive use may cause blistering. Apply pressure to seal.

(See Figure 14)

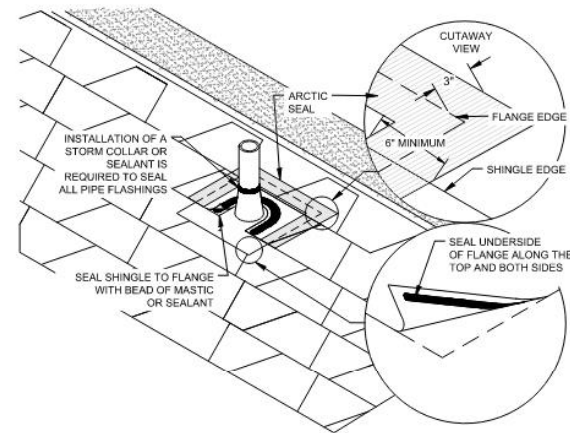


Figure 14 - Vent Pipe Flashing Application

Cap (Counter) and Chimney Flashings: The metal flashing apron for the front of the chimney shall be installed over the last course of shingles below the chimney and its vertical flange extending up the face of the chimney.

The metal flashings of chimneys, skylights, vents, and adjoining walls must be counter-flashed with sheet metal cap flashing.

Cap flashing (also called counter flashing) should originate in the masonry mortar joints of the chimney and be mortared-in or caulked with urethane sealant to ensure a watertight connection.

Cap flashing should then turn down the chimney and extend a minimum of 2" (51 mm) over the step flashings at all roof-to-sidewall intersections. (See Figure 15)

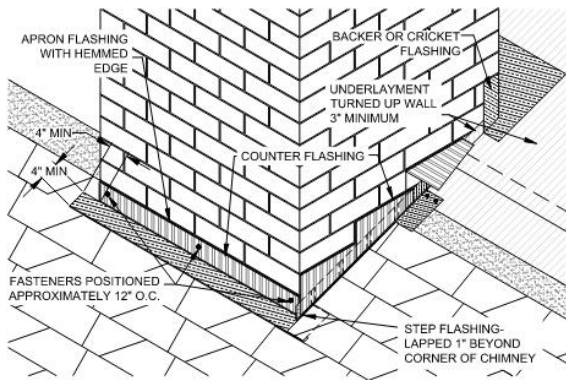


Figure 15 - Chimney Apron and Cap Flashing Applications

Chimney Saddles and Crickets: Apply Arctic Seal® self-adhering underlayment (or equivalent conforming to ASTM D1970) atop chimney saddles prior to the installation of flashing assemblies.

Flashing for chimney saddles and crickets shall be minimum 26-gauge galvanized or stainless steel, designed to cover the entire surface, and extend vertically 4" (102 mm) up the chimney.

Install a bead of mastic on the edges of chimney saddles and crickets. Press overlapping shingle courses into the mastic to seal. Seal all relief cuts and corners. (See Figure 16)

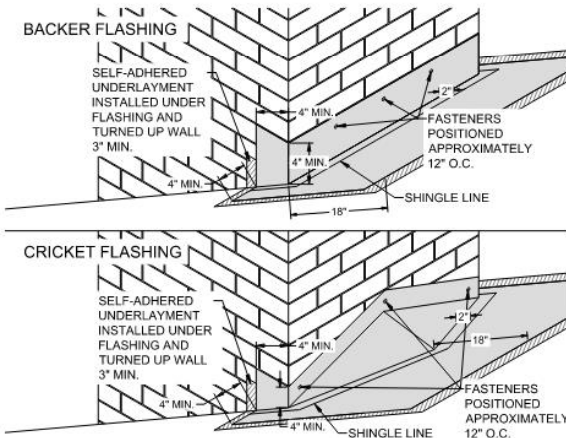


Figure 16 - Chimney Saddle and Cricket Flashing Applications

HIPS AND RIDGES

Factory-produced, Malarkey hip and ridge shingles are recommended for all Malarkey shingle roofs and required for expanded warranty coverage. Some contractors adapt 3-tab roofing shingles to use as hip and ridge shingles, but Malarkey only allows this when the field shingle is also a 3-tab shingle.

Shingles with Scotchgard™ Protector from 3M require hip and ridge shingles with Scotchgard™ Protector be installed with them. All four of Malarkey's hip and ridge shingle types feature this algae-resistant protection.

Malarkey hip and ridge shingles also include a factory-applied, thermally activated seal-down adhesive that provides additional protection against blow-off. When applied in cold weather or a windy location, however, it is recommended each ridge shingle be hand-sealed under each lower corner with a quarter-size spot of asphalt roof cement conforming to ASTM D4586.

To avoid damage to hip and ridge shingles in cold weather, Malarkey recommends warming them sufficiently to prevent damage during installation.

Apply Malarkey hip and ridge shingles beginning at the bottom of the hip or from the end of the ridge opposite the direction of prevailing winds.

Snapping a chalk line will help maintain a straight line while installing ridge shingles.

LOW-PROFILE INSTALLATION (10" AND 12" RIDGEFLEX™ HIP AND RIDGE SHINGLES)

Prepare for application by separating each hip and ridge shingle at the perforations: The 10" RidgeFlex™ produces four (4) individual hip and ridge strips (see Figure 17), and the 12" RidgeFlex™ produces three (3) (see Figure 18). Note the seal-down strips.

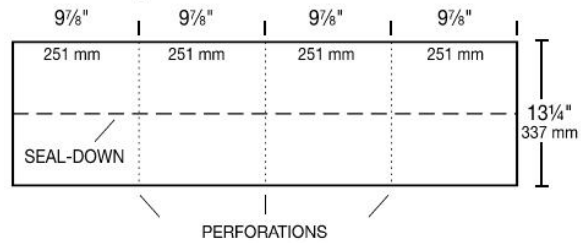


Figure 17 - 10" RidgeFlex™ Hip and Ridge Shingle

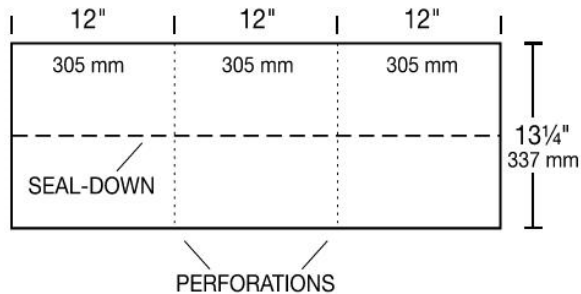


Figure 18 - 12" RidgeFlex™ Hip and Ridge Shingle

Each scored strip is 13¼" (337 mm) tall and has an exposure of 5⅞" (143 mm). You will be installing these individual pieces, and all are installed sealant side up.

Detail drawings to follow in this section show the installation of hip and ridge shingles along a roof ridge, but hips are essentially the same. Application begins at the bottom of the hip or from the end of the ridge opposite the direction of prevailing winds with a hip and ridge starter shingle.

RidgeFlex™ Starter Shingle: Create a starter shingle by cutting off the lower 5⅞" (143 mm) portion of a RidgeFlex™

shingle strip, and use the 7 $\frac{5}{8}$ " (194 mm) remainder as a starter. (See Figure 19)

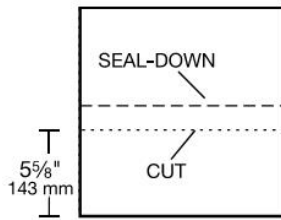


Figure 19 - RidgeFlex™ Shingle Strip for Use as a Hip and Ridge Starter Shingle

Apply the starter shingle (with seal-down strip adjacent to the roof edge) over the bottom corner of the hip or on either end of the ridge, overhanging the corner or end by 1/4" - 3/4" (6-19 mm), and bending the starter shingle along its centerline to form into place (ensure shingles are sufficiently warm to avoid cracking).

Fasten with two nails, approximately 3" (76 mm) back from the leading edge and 1" (25 mm) up from each side. (See Figure 20)

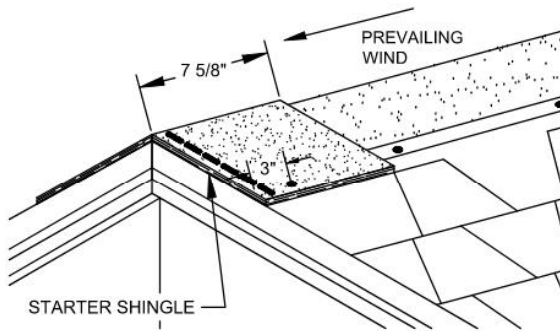


Figure 20 - Placement and Fastening of the RidgeFlex™ Starter Shingle

RidgeFlex™ Hip and Ridge Shingles: Lay the first RidgeFlex™ shingle strip on top of the starter shingle (maintaining the overhang). Fasten with two nails, 1" (25 mm) more than the designed exposure and 1" (25 mm) up from each side so succeeding hip and ridge shingles conceal nailheads.

Continue installing hip and ridge shingles, maintaining the exposure of 5 $\frac{5}{8}$ " (143 mm) and fastening with one nail on each side and 1" (25 mm) up from the edge so succeeding shingles conceal nailheads. (See Figure 21)

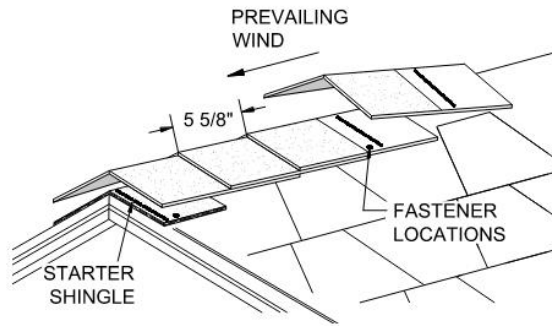


Figure 21 - Placement and Fastening of RidgeFlex™ Shingles, Maintaining the 5 $\frac{5}{8}$ " Exposure

At the end of the ridge, cut a shingle strip, and use the lower 5 $\frac{5}{8}$ " (143 mm) portion of a RidgeFlex™ shingle to create an end cap. Position to maintain the exposure of 5 $\frac{5}{8}$ " (143 mm), and set the cap in asphalt roof cement conforming to ASTM D4586. Press down firmly to seal.

Should adverse conditions exist (like high winds), the end cap can also be face-nailed. Place two (2) nails on each side, 1" (25 mm) back from each end, and 1" (25 mm) up from the sides. Cover the nailheads with a dab of sealant. (See Figure 22)

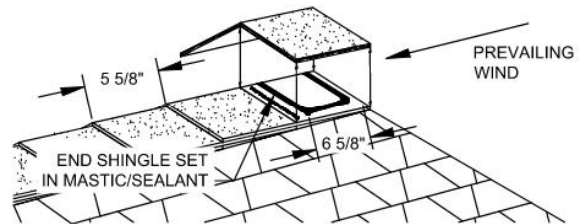


Figure 22 - Installation of RidgeFlex™ Shingles; End Cap Set in Mastic

HIGH-PROFILE INSTALLATION (EZ-RIDGE™ AND EZ-RIDGE™ XT HIP AND RIDGE SHINGLES)

Malarkey's EZ-Ridge™ is a high-profile hip and ridge shingle specially designed to accompany laminate and designer shingle applications.

Detail drawings to follow in this section show the installation of shingles along a roof ridge, but hips are essentially the same. Instructions for installing along rake edges are at the end of the section.

Given the added thickness of EZ-Ridge™ shingles, ensure your fasteners are long enough to penetrate all layers and at least 3/4" (19 mm) into the roof sheathing. Where the roof sheathing is less than 3/4" (19 mm) thick, the fasteners shall penetrate through the sheathing.

Application begins at the bottom of the hip or from the end of the ridge opposite the direction of prevailing winds with a hip and ridge starter shingle.

EZ-Ridge™ Starter Shingle: To create an EZ-Ridge™ starter shingle, cut off the 8 1/4" (210 mm) exposure portion of the shingle, and use the remaining 3 1/4" (83 mm) cutout portion (with sealant strip) as the starter. (See Figure 23)



Figure 23 - Cutting an EZ-Ridge™ Shingle to Make a Hip and Ridge Starter Shingle

Save the exposure portion because it can be used as the end piece on the opposite end of the ridge.

Note: The longer strip on the end of an EZ-Ridge™ shingle is a film strip that prevents the shingles from sticking together while in the box they're packaged in. It is not designed to be removed.

Place the EZ-Ridge™ starter shingle flush to the rake at the peak, and position it so the seal-down strip is adjacent to the roof edge. Push down on the center of the shingle and adjust to fit the pitch of roof.

Fasten with two (2) nails, one (1) on each side, 3/4" (19 mm) behind the cutout and 1/2" (13 mm) up from the side. If installed correctly, fasteners should be covered by the overlying EZ-Ridge™ shingles to come, leaving none exposed.

EZ-Ridge™ Hip and Ridge Shingles: Apply a full-size EZ-Ridge™ shingle over the starter and overhang the end of the ridge by 1/4" - 3/4" (6-19 mm). Push down on the center of the shingle and adjust to fit the pitch of roof.

Fasten this shingle and those to follow with two (2) nails, one (1) on each side, 3/4" (19 mm) behind the cutout (not on the exposed part of the shingle) and 1/2" (13 mm) up from the side.

Continue installing EZ-Ridge™ shingles across the ridge, overlapping each with the side cutouts of the underlying shingle, and producing a consistent exposure of 8 1/4" (210 mm). Fasten in the same manner as the first. (See Figure 24)

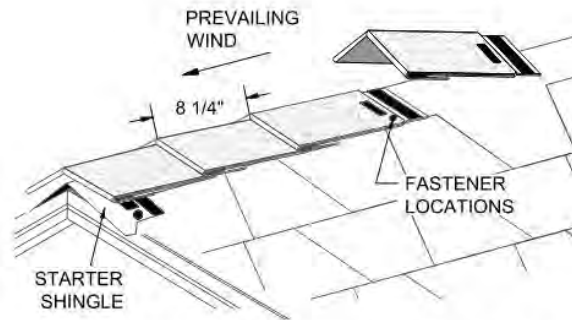


Figure 24 - Placement and Fastening of EZ-Ridge™ Shingles, Maintaining the 8 1/4" Exposure

For the last hip and ridge shingle in the run, remove the cutout portion of an EZ-Ridge™ shingle and trim the exposure portion to fit or use the exposure portion of the shingle you cut earlier when creating the starter.

Set this end cap in asphalt roof cement, maintaining the 8 1/4" (210 mm) exposure. (See Figure 25)

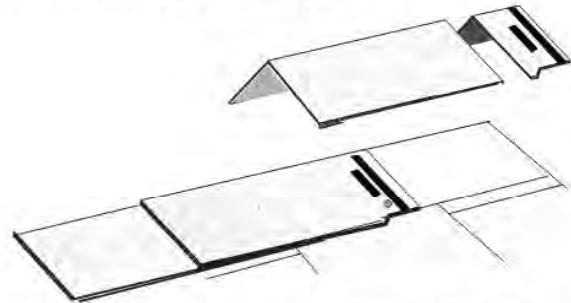


Figure 25 - EZ-Ridge™ Shingle Cut to Create an End Cap

Should adverse conditions exist (like high winds), the end cap can also be face-nailed. Place two (2) nails on each side, 1" (25 mm) back from each end, and 1" (25 mm) up from the sides. Cover the nailheads with a dab of sealant.

Note: The end cap can also be flipped around to preserve the high-profile appearance and give a finished look to the ridge. Position it to overhang the end of the ridge by 1/4" - 3/4" (6-19 mm). (See Figure 26)

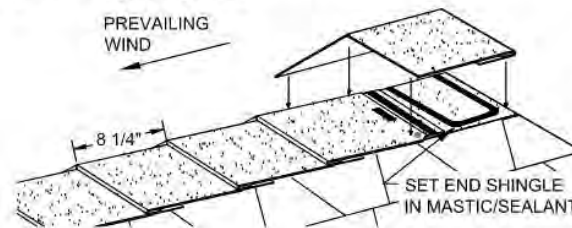


Figure 26 - Optional Positioning and Fastening of the EZ-Ridge™ End Cap

EZ-RIDGE™ RAKE EDGE INSTALLATION

Instructions are the same as those above with these exceptions:

1. Always start at the low end of the roof.
2. Have the high-profile, finished ends of EZ-Ridge™ shingles in the lowest position.
3. Note: Installation with exposed nails may affect the aesthetic appeal of EZ-Ridge™ shingles. (See Figure 27)

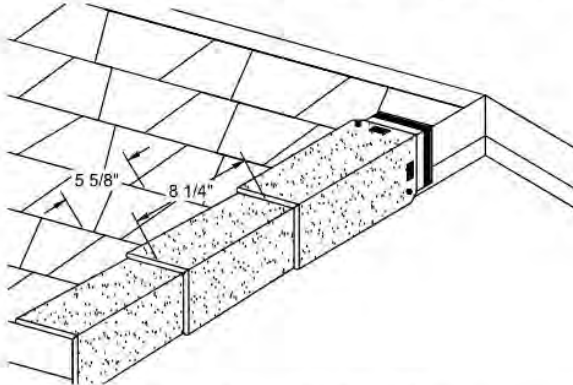


Figure 27 - Installation of EZ-Ridge™ Shingles on Rake Edges of the Roof

RE-ROOFING OVER EXISTING ASPHALT SHINGLES

For best performance and appearance, it is recommended old roofing be completely removed from the deck.

When roofing over existing asphalt shingles, it is recommended only 3-tab shingles be overlaid. Roofing over laminates creates an irregular surface across each course that may prevent the newly installed shingles from sealing down properly, leaving them more susceptible to wind damage.

In some areas, building codes do not require removal of old roofing if: 1) The existing shingles and framing will support the workers installing the roofing, the new roof itself, and required dead loads; and 2) The old wood deck is sound and able to provide good anchorage for nails.

Make the surface as smooth as possible by replacing missing shingles and securely nailing all buckles, raised tabs or curled shingles. Malarkey is not responsible for a potentially objectionable appearance of the new surface from any irregularity in the substrate caused by remaining roofing.

Additional ventilation should be provided, and longer nails will likely be necessary to penetrate a minimum of 3/4" (19 mm) into the roof deck or completely through plywood or OSB sheathing.

Installing Class 3 or Class 4 impact resistant shingles over existing roofs negates their impact resistance and will not make them eligible for insurance discounts.

FINAL NOTE




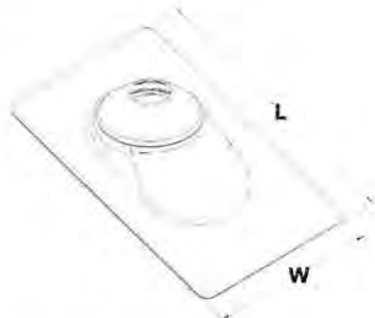


These instructions are meant to act as a general guide. If you have questions about this installation or any Malarkey roofing product, please contact our Technical Services Department weekdays at (800) 545-1191 or (503) 283-1191, 7:00 am to 5:00 pm Pacific Time. You can also email us at: technicalinquiries@malarkeyroofing.com. Thank you.



P.O. Box 17217
Portland, OR 97217-0217

Rev. 08/22

APPENDIX C

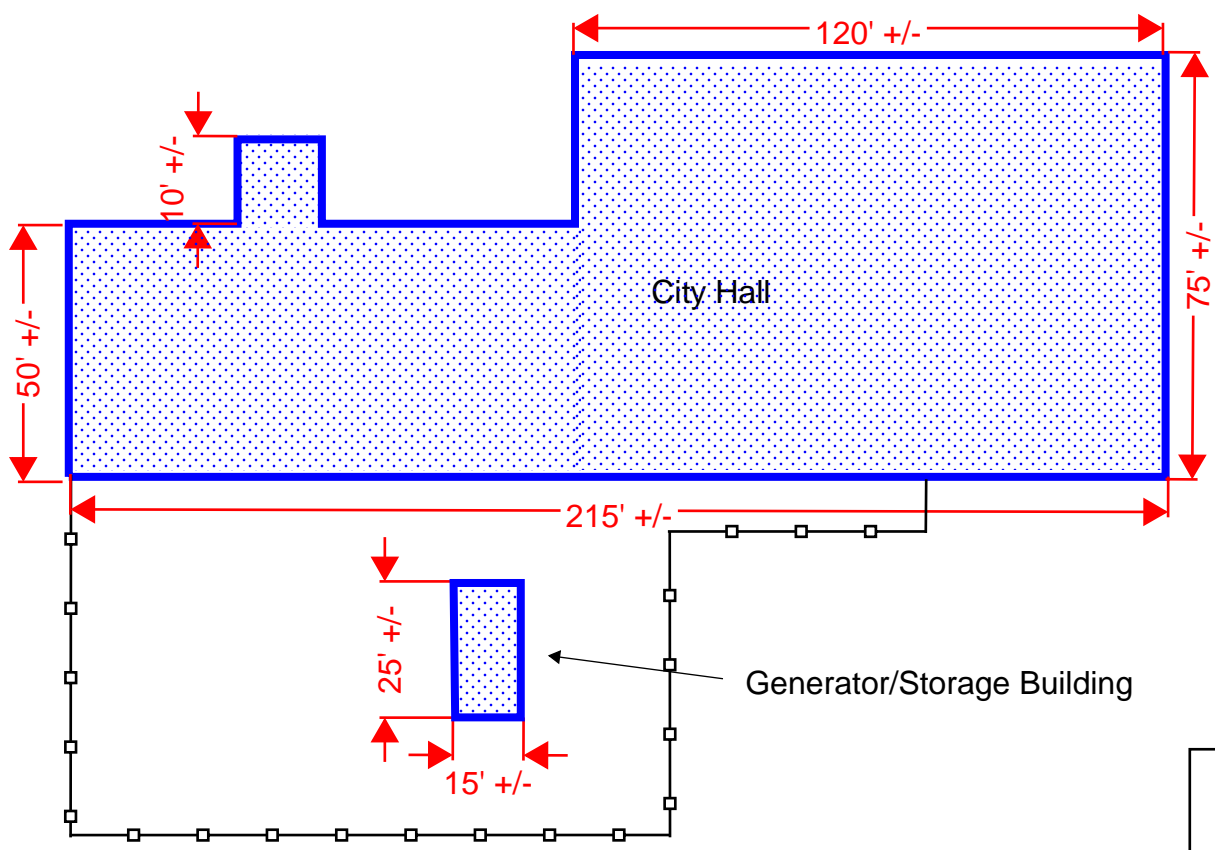
 <p>© 4700 W. 160th St. Cleveland, OH 44136 PH: 800-321-9532 FX: 800-321-9535 www.oatey.com</p> <p>TECHNICAL SPECIFICATION</p>	<p>ALL-FLASH® NO-CALK® COLOR-FLASH® ROOF FLASHINGS</p>																																																																																												
<p>Engineering Specification: Oatey All-Flash No-Calk Roof Flashings can be used in commercial and residential applications where a watertight seal for roof penetrations around the plumbing vent pipe is required.</p>		<p>Job Reference</p>																																																																																											
<div style="display: flex; justify-content: space-around; align-items: center;">   </div> <p>(All dimensions in inches)</p> <ul style="list-style-type: none"> ◆ Plastic Base Roof Flashing slides over DWV pipe for pitch to 45° ◆ Metal Base Roof Flashing slides over DWV pipe for pitch to 40° ◆ Patented All-Flash collar has tear-away ring allowing flashing to seal different pipe diameters ◆ Plastic base flashings are made of rigid thermoplastic ◆ Aluminum base flashings are made of .032 stamped aluminum ◆ Galvanized base flashings are made of 24 gauge galvanized steel ◆ Non-fading sealing collar ◆ Approved for Type B installations ◆ Not for hot-mopped or built-up roofs ◆ Do not use paint or petroleum based products on plastic bases or rubber collars 																																																																																													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">✓</th> <th style="width: 15%;">Product No.</th> <th style="width: 40%;">Description</th> <th style="width: 10%;">Length (L)</th> <th style="width: 10%;">Width (W)</th> <th style="width: 10%;">PACK</th> <th style="width: 10%;">CARTON WEIGHT</th> </tr> </thead> <tbody> <tr> <td></td> <td>12944</td> <td>1-½" – 3" Aluminum Roof Flashing – Brown</td> <td>14-½</td> <td>11</td> <td>12</td> <td>7 lbs.</td> </tr> <tr> <td></td> <td>12943</td> <td>1-½" – 3" Aluminum Roof Flashing – Black</td> <td>14-½</td> <td>11</td> <td>12</td> <td>7 lbs.</td> </tr> <tr> <td></td> <td>12942</td> <td>1-½" – 3" Aluminum Roof Flashing – Gray</td> <td>14-½</td> <td>11</td> <td>12</td> <td>7 lbs.</td> </tr> <tr style="background-color: #ffff00;"> <td>✓</td> <td>11872</td> <td>1-½" – 3" Galvanized Roof Flashing – Brown</td> <td>14-½</td> <td>11</td> <td>12</td> <td>7 lbs.</td> </tr> <tr> <td></td> <td>11873</td> <td>1-½" – 3" Galvanized Roof Flashing – Black</td> <td>14-½</td> <td>11</td> <td>12</td> <td>7 lbs.</td> </tr> <tr> <td></td> <td>11874</td> <td>1-½" – 3" Galvanized Roof Flashing – Gray</td> <td>14-½</td> <td>11</td> <td>12</td> <td>7 lbs.</td> </tr> <tr> <td></td> <td>12955</td> <td>3" – 4" Aluminum Roof Flashing – Brown</td> <td>15-½</td> <td>12</td> <td>12</td> <td>13 lbs.</td> </tr> <tr> <td></td> <td>12954</td> <td>3" – 4" Aluminum Roof Flashing – Black</td> <td>15-½</td> <td>12</td> <td>12</td> <td>13 lbs.</td> </tr> <tr> <td></td> <td>12953</td> <td>3" – 4" Aluminum Roof Flashing – Gray</td> <td>15-½</td> <td>12</td> <td>12</td> <td>13 lbs.</td> </tr> <tr style="background-color: #ffff00;"> <td>✓</td> <td>11875</td> <td>3" – 4" Galvanized Roof Flashing – Brown</td> <td>15-½</td> <td>12</td> <td>12</td> <td>13 lbs.</td> </tr> <tr> <td></td> <td>11876</td> <td>3" – 4" Galvanized Roof Flashing – Black</td> <td>15-½</td> <td>12</td> <td>12</td> <td>13 lbs.</td> </tr> <tr> <td></td> <td>11878</td> <td>3" – 4" Galvanized Roof Flashing – Gray</td> <td>15-½</td> <td>12</td> <td>12</td> <td>13 lbs.</td> </tr> </tbody> </table>			✓	Product No.	Description	Length (L)	Width (W)	PACK	CARTON WEIGHT		12944	1-½" – 3" Aluminum Roof Flashing – Brown	14-½	11	12	7 lbs.		12943	1-½" – 3" Aluminum Roof Flashing – Black	14-½	11	12	7 lbs.		12942	1-½" – 3" Aluminum Roof Flashing – Gray	14-½	11	12	7 lbs.	✓	11872	1-½" – 3" Galvanized Roof Flashing – Brown	14-½	11	12	7 lbs.		11873	1-½" – 3" Galvanized Roof Flashing – Black	14-½	11	12	7 lbs.		11874	1-½" – 3" Galvanized Roof Flashing – Gray	14-½	11	12	7 lbs.		12955	3" – 4" Aluminum Roof Flashing – Brown	15-½	12	12	13 lbs.		12954	3" – 4" Aluminum Roof Flashing – Black	15-½	12	12	13 lbs.		12953	3" – 4" Aluminum Roof Flashing – Gray	15-½	12	12	13 lbs.	✓	11875	3" – 4" Galvanized Roof Flashing – Brown	15-½	12	12	13 lbs.		11876	3" – 4" Galvanized Roof Flashing – Black	15-½	12	12	13 lbs.		11878	3" – 4" Galvanized Roof Flashing – Gray	15-½	12	12	13 lbs.
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
CITY HALL RE-ROOFING PROJECT




Maple St

Alder Ave



 Buildings to be re-roofed

 Existing Fence

Estimated 175 squares total

Not to Scale

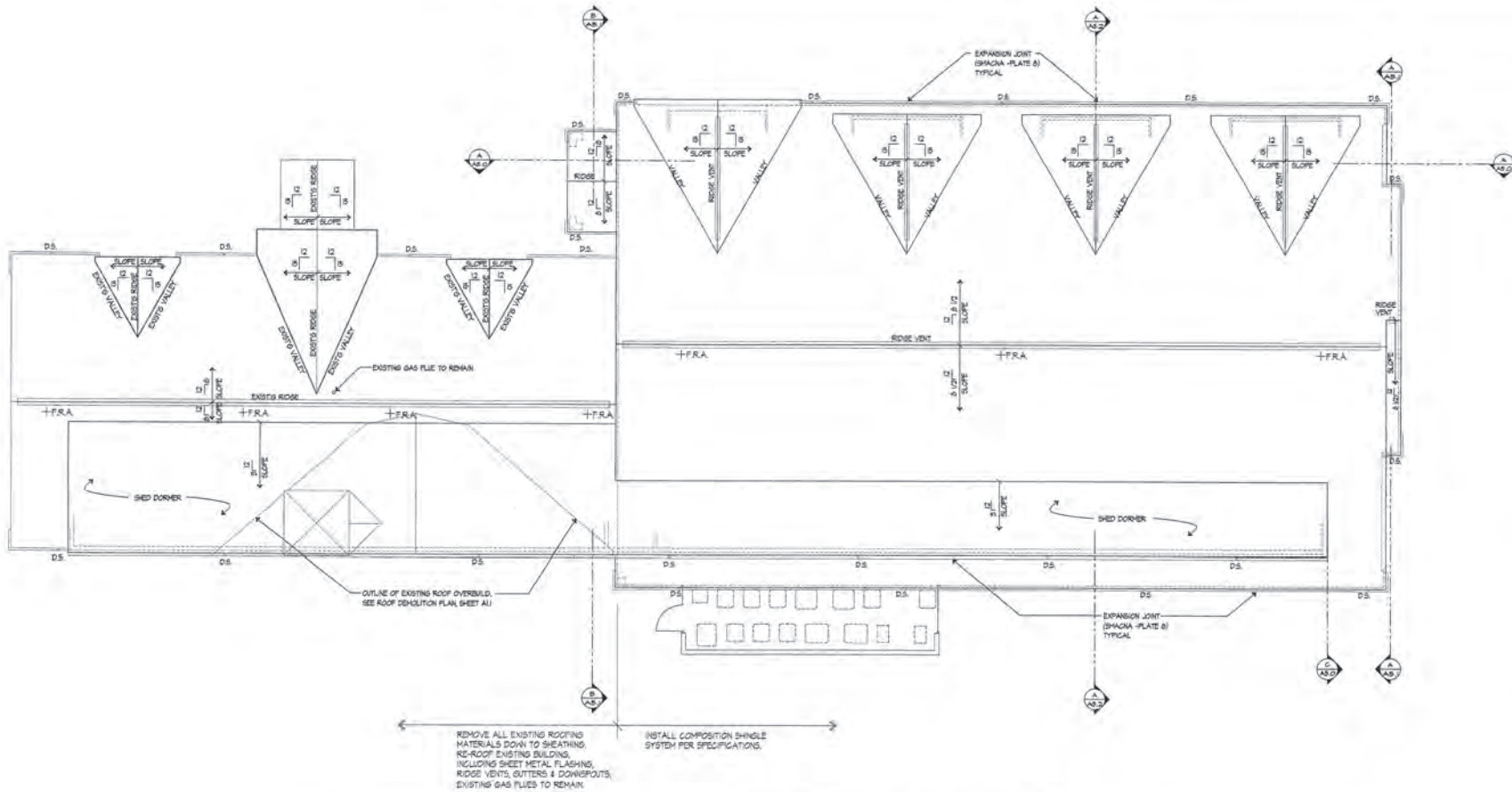
SITE PLAN
Drawn By: Drew McCarty
Dated 04/13/2023

CITY HALL RE-ROOFING PROJECT



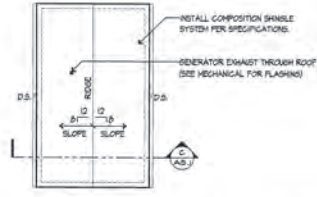
AERIAL VIEW
Drawn By: Drew McCarty
Dated 04/13/2023

14022 Summer City Hall - 14022000 REVISED (02/20/10) ARCHITECTS RASMUSSSEN TRIEBELHORN




ROOF PLAN
 SCALE: 1/8" = 1'-0"

ALTERNATE BID NO. 2 - INSTALL METAL SHINGLE SYSTEM IN LIEU OF COMPOSITION SHINGLE SYSTEM OVER ENTIRE ROOF. SEE SPECIFICATIONS GENERATOR / STORAGE BUILDING INCLUDED.



GENERATOR / STORAGE BUILDING ROOF PLAN
 SCALE: 1/8" = 1'-0"

NOTES:
 1. FOR LOCATION SEE SITE PLAN ON SHEET A3.0
 2. SEE SHEET A5.1 FOR EXTERIOR ELEVATIONS



ARCHITECTS
**RASMUSSSEN
 TRIEBELHORN**
 AIA/AS
 1000 14th Street, N.W.
 Washington, D.C. 20004
 Phone: 202.462.1200
 Fax: 202.462.1205

RT

SUMNER CITY HALL
 SUMNER, WASHINGTON

Project Title

ISSUE FOR BIDDING (02/24/10)
 ISS. FOR PERMIT (01/24/10)

Revision
 Job No. 6032
 Drawn B
 Approved K.T.
 Date 04/01/10
 Drawing Title

ROOF PLAN

Day No.
A2.3



ARCHITECTS
 RASMUSSEN
 TRIEBELHORN
 AAMPS



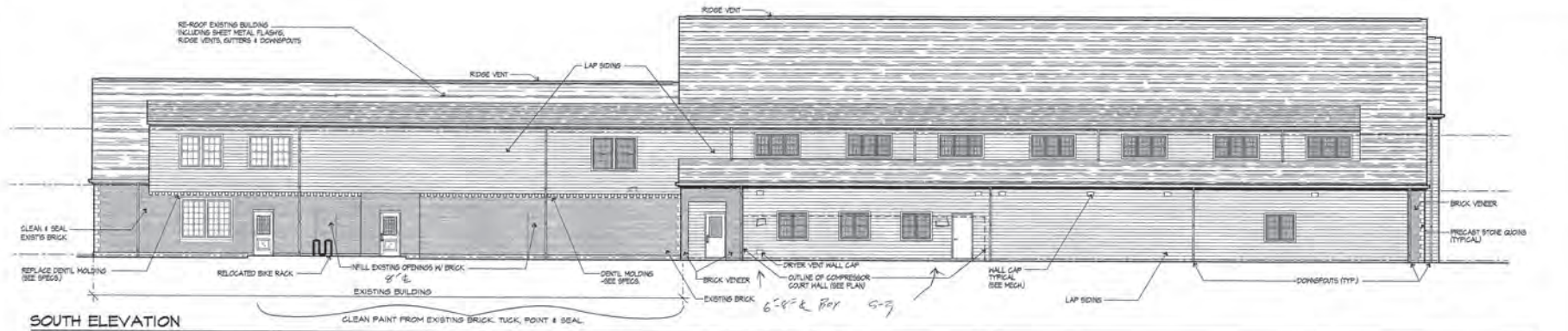
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 SUMNER, WASHINGTON

Project 1818

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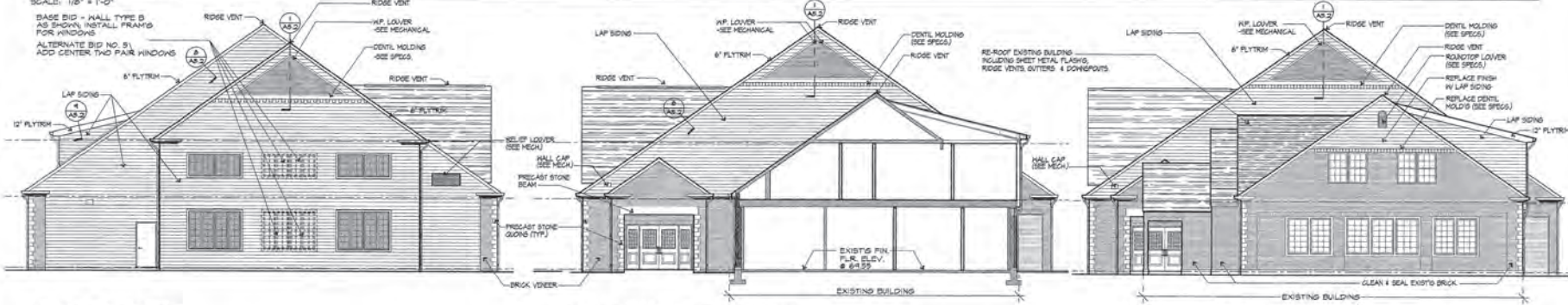
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Dep. No.
 A4.0



SOUTH ELEVATION

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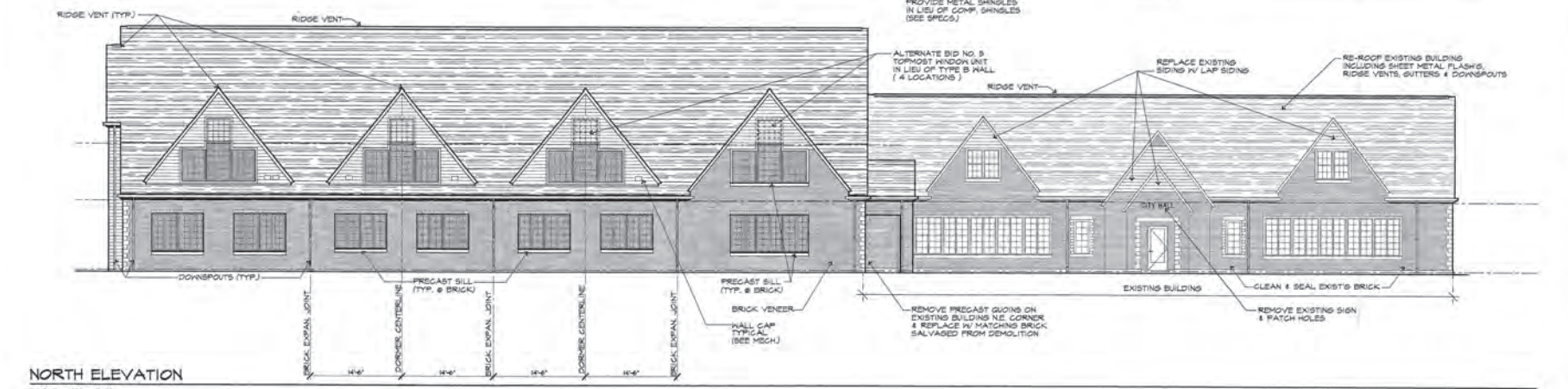
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WEST ELEVATION @ ADDITION

SCALE: 1/8" = 1'-0"

WEST ELEVATION

SCALE: 1/8" = 1'-0"

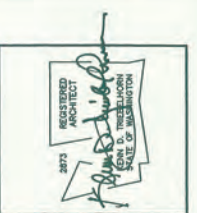
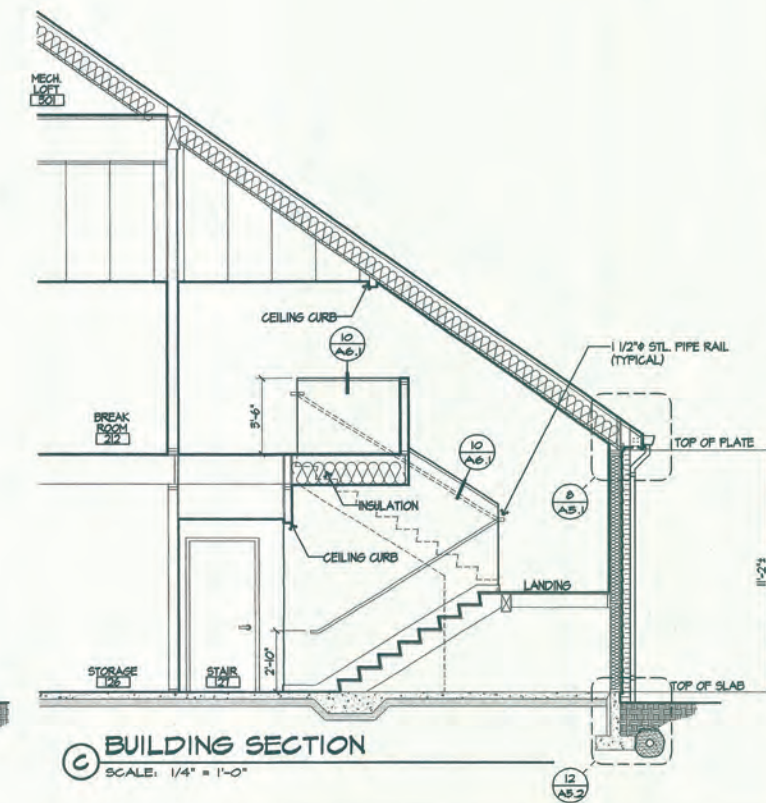
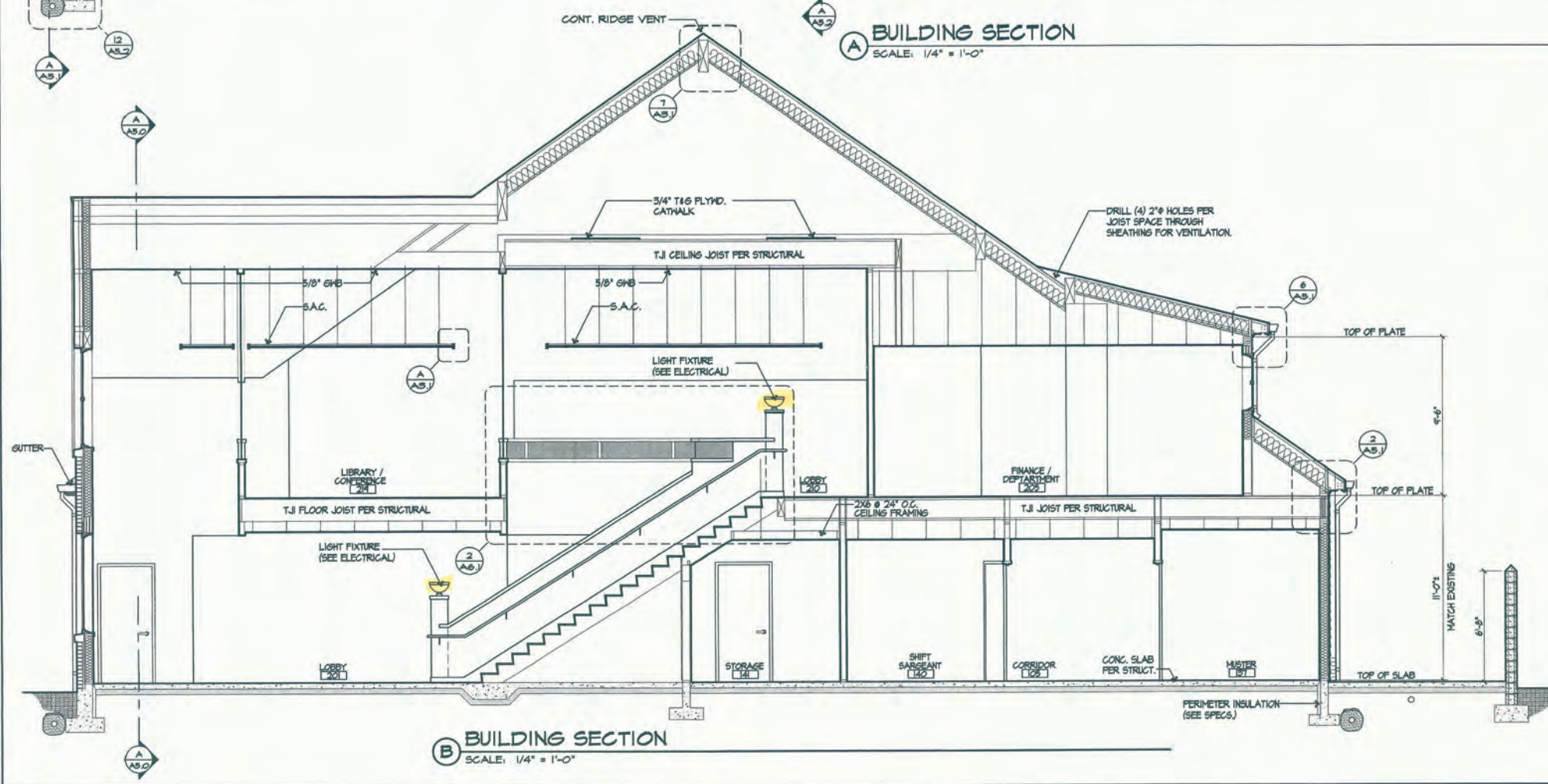
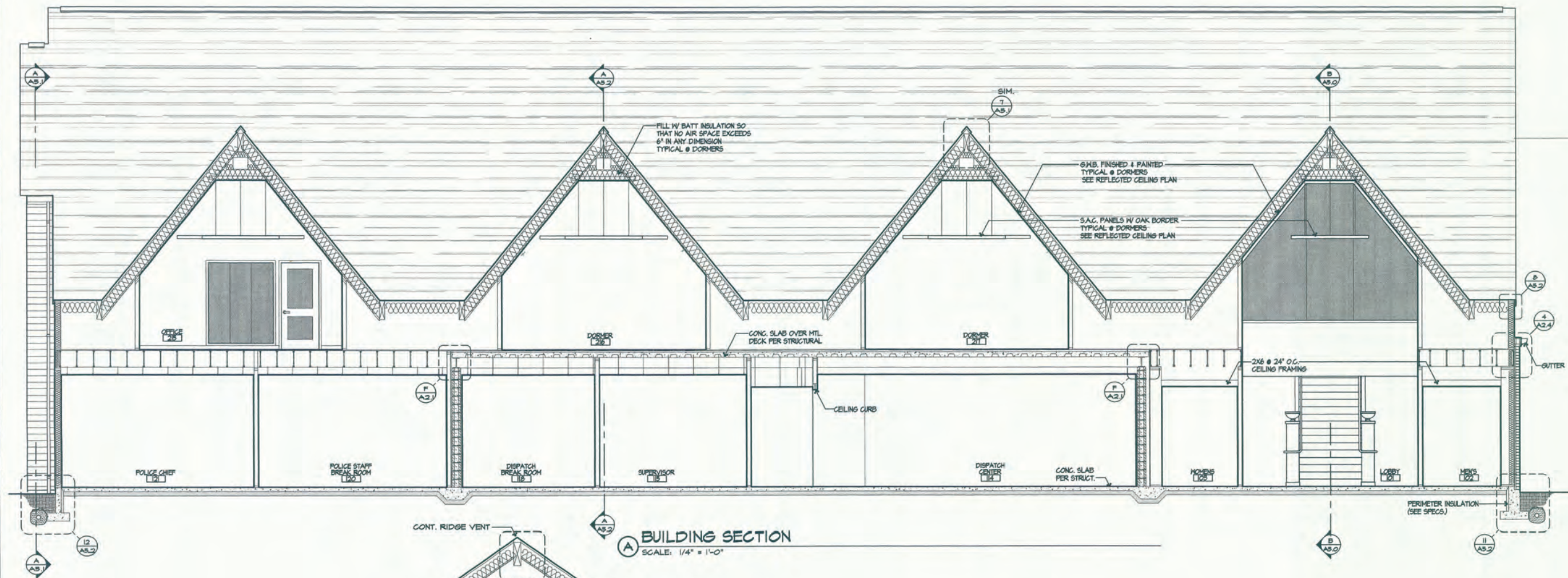


NORTH ELEVATION

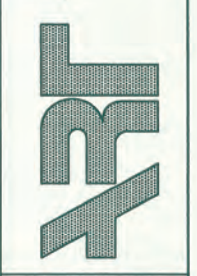
SCALE: 1/8" = 1'-0"

10032 Sumner City Hall - 10/2000 Rev. 11/15/2000 6' x 4' - 1/4" 2000 ARCHITECTS RASMUSSEN TRIEBELHORN

19032 Summer City Hall1 - Jan2000 Revision\030345.0.dwg Thu Sep 07 13:28:36 2000 ARCHITECTS RASMUSSEN TRIEBELHORN



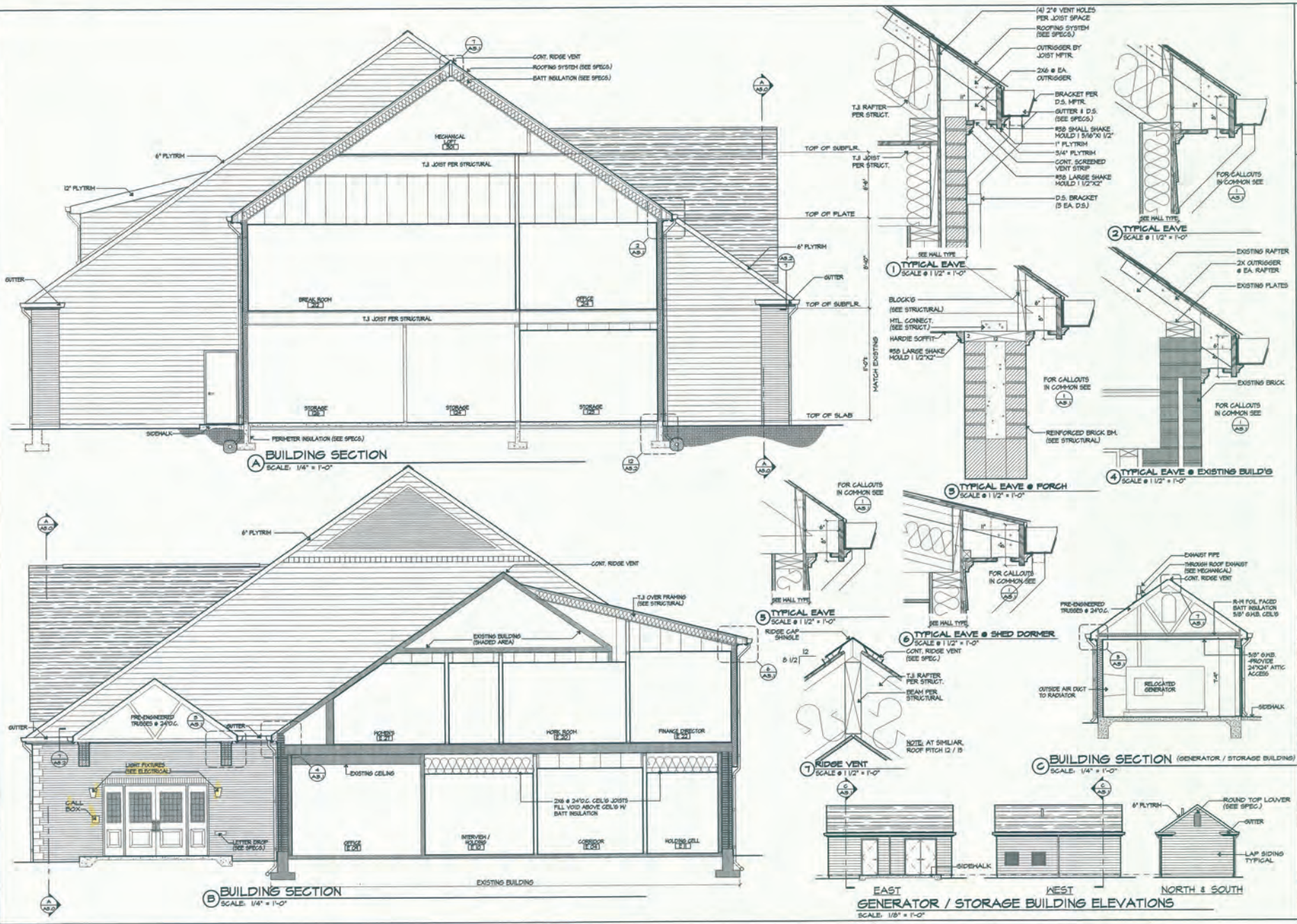
ARCHITECTS
RASMUSSEN
TRIEBELHORN
AIA/PS
No. 9 South Main
Henry Street Annex
PHOENIX # 253-572-5511
FAX # 253-572-5515



SUMNER CITY HALL
SUMNER, WASHINGTON

Project Title	
ISSUE FOR BID 02/24/00	
ISS. FOR PERMIT 01/24/00	
Revisions	
Job No. 6032	
Drawn B	
Approved K.T.	
Date 09/01/00	
Drawing Title	BUILDING SECTIONS
Dwg. No.	A5.0

16032 Summer City Hall - J:\00000\Revisions\0304.1.dwg P1: Sep 08 07:05:30 2000 ARCHITECTS RASMUSSEN TRIBBLELHORN



ARCHITECTS
RASMUSSEN
TRIBBLELHORN
AIA/AS

ART

SUMNER CITY HALL
SUMNER, WASHINGTON

Project No. 6032
Drawn By: [Signature]
Approved K.T.
Date: 09/01/00
Drawing Title: BUILDING SECTIONS
Dep. No. **A5.1**