The Architect or Engineer Stamp on this page applies to all portions of the Specifications below.

CIVIL ENGINEERS:

David Evans & Associates, Inc.
809 N Howard Street, Suite 300
Spokane, WA 99201
509-327-8697

Specification Divisions 03 30 00 - 33 41 00

END OF ENGINEERING STAMPS
CONDITIONS OF THE CONTRACT

00 11 13 Advertisement for Bids
00 21 13 Instructions to Bidders
00 42 13 Form of Proposal Part A: Base Bid & Alternate Bids
00 50 00 Agreement between Owner and Contractor
00 72 00 General Conditions for Washington State Facilities Construction with Washington State University Amendments

DIVISION 01 GENERAL REQUIREMENTS

01 11 00 Summary of Work
01 26 00 Change Order Procedures
01 29 00 Applications for Payment
01 29 73 Current Prevailing Wage Rates
01 31 19 Project Meetings
01 31 23 Coordination
01 32 13 Progress Schedule
01 32 33 Construction Photographs
01 33 00 Submittals
01 35 16 Alteration Procedures
01 41 00 Regulatory Requirements
01 41 19 Special Provisions
01 45 00 Quality Control
01 45 34 Contract Performance Evaluation Program
01 60 00 Material and Equipment
01 70 00 Project Close-Out
01 71 23 Field Engineering
01 74 19 Construction Waste Management
01 78 39 Project Record

DIVISION 03 CONCRETE

03 30 00 Cast-in-Place Concrete

DIVISION 26 ELECTRICAL

26 01 00 Electrical Requirements
26 04 00 Electrical Demolition
26 05 10 Electrical Common Work
26 05 19 Low Voltage Conductors & Cables
26 05 26 Grounding & Bonding
26 05 33 Raceways
26 56 23 Exterior Lighting
<table>
<thead>
<tr>
<th>DIVISION 31</th>
<th>EARTHWORK</th>
</tr>
</thead>
<tbody>
<tr>
<td>31 10 00</td>
<td>Site Clearing</td>
</tr>
<tr>
<td>31 20 00</td>
<td>Earthwork</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DIVISION 32</th>
<th>EXTERIOR IMPROVEMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>32 12 16</td>
<td>Asphalt Paving</td>
</tr>
<tr>
<td>32 13 13</td>
<td>Concrete Paving</td>
</tr>
<tr>
<td>32 84 00</td>
<td>Planting Irrigation</td>
</tr>
<tr>
<td>32 92 00</td>
<td>Turf and Grasses</td>
</tr>
<tr>
<td>32 93 00</td>
<td>Plants</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DIVISION 33</th>
<th>UTILITIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>33 41 00</td>
<td>Storm Utility Drainage Piping</td>
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END OF SECTION 00 01 10
Sealed bids are being requested by the Board of Regents of Washington State University, for the above referenced project.

Project Scope:

The WSU Spokane South Campus Parking Lot Expansion Project will modify access points into the Green 5 Parking Lot. The base bid will include approximately 4,680 SF of asphalt paving associated with a new access point to E. Spokane Falls Blvd, and approximately 4,680 SF of asphalt paving associated with the access point to N. Sherman Street. Project will also include traffic control, associated demolition, storm drainage, electrical lighting, and landscaping improvements. Contract Time shall be 30 Days from Notice to Proceed to Substantial Completion. Proposals MUST BE based on this Contract Time.

Project Physical address: E Spokane Falls Boulevard, Spokane, WA 99202

Bid Estimate: $200,000.00 to $300,000.00

Alternate 1 will develop 20,250 SF of parking, lighting systems, expanded storm drainage and landscaping along N. Sherman Street. An additional Twenty (20) Days shall be added to the Contract Time for this Alternate.

Alternate 2 will construct 6,300 SF of concrete, lighting/electrical systems, and landscaping for an extension of the central plaza located to the north of E. Spokane Falls Blvd. Improvements are located on the west side of the Green 5 Parking Lot.

Bids will be received prior to 2:00 p.m.; Tuesday, August 12, 2020 by fax 509-335-9304 or email to contracts@wsu.edu. Proposals will then be publicly opened and read aloud by Zoom https://wsu.zoom.us/j/91681626820?pwd=WVIQbdBTkVrYmF4ZTFCa1dTYkcwQT09 or Phone 253-215-8782 and entering Meeting ID: 916 8162 6820. Password: 674786. Attendance in person is not allowed.

A pre-bid conference for general contractors will be held 10:00 a.m. Wednesday, August 5, 2020. Attendees may attend by Zoom https://wsu.zoom.us/j/94087087829 or Phone 253-215-8782 and entering Meeting ID 940 8708 7829. Attendance in person is not allowed.

Parking on campus is enforced 24 hours a day, every day. It is bidder’s responsibility to obtain parking permits to attend pre-bid meetings, site visits, and bid openings. Daily permit rates may be found at: https://spokane.wsu.edu/facilities/parking/. Identify the meeting and project when obtaining the permit to receive appropriate rates.

Bid documents may be obtained at https://facilities.wsu.edu/facilities-services-capital/contractors/. Contractors who would like to be included on the Planholder’s list shall either attend the pre-bid meeting or request to be added by emailing contracts@wsu.edu.

Printing Disclaimer: The bidding documents are available for all interested bidders and plancenters. The University does not provide printing services; it is the bidder’s responsibility to print the drawings to the appropriate scale indicated. We encourage the use of professional
printing shops.

Owner reserves the right to reject any and all bids and to waive any informalities or irregularities in the bids received.

Maja S. Huff  
509-335-9082  
Contracts@wsu.edu  
Facilities Services  
Washington State University

END OF SECTION 00 11 13
PART 1  GENERAL

1.01  PROJECT IDENTIFICATION

A. Refer to the Advertisement for Bids for Project identification, availability of bidding documents, Prebid Conference, and Contract completion date. Refer to Summary of Work, Section 01 11 00, for a brief description of the Work.

1.02  BIDDER QUALIFICATIONS

A. Contractor Registration:

1. Bidders subject to the Contractor's Registration Act (RCW Chapter 18.27) must show their State of Washington Contractor's license number on the Form of Proposal. In addition, bidders are cautioned to verify that all subcontractors submitting bids are also registered and licensed in accordance with the laws of the State of Washington. Owner is prohibited by virtue of RCW 39.06.010 from executing any Contract for public works with any contractor who is not registered or licensed in accordance with the laws of this state. Prior to submitting a bid, bidder must obtain an appropriate clearance and license to do business in the State of Washington as follows:

a. Contractor's License: Make license application to the Department of Labor and Industries, Contractor's Registration, P.O. Box 7689, Olympia, Washington 98504.

b. Registration Number: Out-of-State Contractors must obtain a registration number and permission to do business in the State of Washington from the Secretary of State, Olympia, Washington 98501.

c. Other Registrations: Register with the State Department of Revenue as a contractor engaging in business in this state and register with the State Department of Labor and Industries and the Employment Security Department.

2. Payment and Performance Bonds:

a. Bidders must be able to furnish satisfactory separate Payment and Performance Bonds for full amount of the initial Contract Sum, plus sales tax.

1.03  EXAMINATION OF SITE AND CONTRACT DOCUMENTS

A. Before submitting a bid or proposal, bidders shall carefully examine the Contract Documents, visit the Project site, and fully inform themselves as to all existing conditions and limitations, and shall include in their bid or proposal a sum to cover the cost of all items included in the Work, and shall rely on their own examination in making their bid or proposal. No change in the Work, the
Contract Sum, or the Contract Time will be allowed for issues that would have been reasonably apparent by the foregoing examination.

B. Bidder acknowledges that it has satisfied itself as to the character, quality and quantity of surface and subsurface materials or obstacles to be encountered insofar as this information is reasonably ascertainable from an inspection of the Project site, including all exploratory work done by Owner, as well as from the Drawings and Specifications made a part of the Contract Documents.

C. Bidder acknowledges that adjoining areas will be in normal course during the Work. Bidder should anticipate pedestrian and traffic congestion, limited parking, and the need to coordinate all Work with ongoing operations.

D. Owner assumes no responsibility for any conclusions or interpretations made by bidder based on the information made available by Owner. Should a bidder find discrepancies or omissions in the Drawings or Specifications, or should bidder be in doubt as to their meaning, bidder shall at once notify Owner. If appropriate, Owner will send written instructions to all bidders by addenda. Questions received less than 5 Days before the time of bid opening may not be answered. All issued addenda shall be incorporated into these Contract Documents.

E. Parking on campus is enforced 24 hours a day, every day. It is bidder’s responsibility to obtain parking permits to visit campus. Due to the possibility of parking at multiple locations on campus, bidders are advised to consider obtaining Orange Temporary Permits. Go to https://spokane.wsu.edu/facilities/parking/permits/ for more information about parking permits.

### 1.04 PREBID CONFERENCE

A. All bidders are encouraged to attend a pre-bid conference. WSU Facilities Services is taking precautions to limit exposure and impacts related to COVID-19. Due to the “Stay Home, Stay Healthy” mandate, pre-bid meetings and bid openings may only be attended via Zoom Video Conference/Phone Conference. Refer to the Advertisement for Bids for the date, time and electronic meeting options.

B. In order to continue providing secure and effective meetings the University is requiring that Zoom be downloaded and installed via a computer client rather than connecting through a web browser plugin. The computer client can be found here: https://support.zoom.us/hc/en-us/articles/207373866-Zoom-Installers

### 1.05 CLARIFICATIONS

A. Should bidders find discrepancies in, omissions from, or unclear information within the Contract Documents, they should notify Owner at once. Owner shall issue a written instruction in the form of an addendum to all bidders. Neither the Owner nor Architect/Engineer will be responsible for any oral instructions. Questions received less than 5 Days before bid opening may not be answered.
All addenda issued prior to the opening of bids will be incorporated into the Contract.

1.06 SPECIFIED PRODUCTS

A. Bids must be based upon items identified in the Specifications or approved substitutions. In certain cases, specific items have been named because of operational or maintenance considerations; approval of substitutions should not be assumed.

B. Requests for approval of substitutions must be made in writing and received by Owner at least 5 Days prior to the date of bid opening. Said request must include complete descriptions, technical data, and performance records. Any approval of the proposed substitution will be made by addendum issued to all bidders.

C. To submit substitution requests prior to Bid opening:
   1. Only one substitution request per bidder will be considered for each product.
   2. Requests for substitutions shall provide sufficient data to allow Owner to evaluate the suitability of the proposed product. Bidder must clearly identify product and model number of proposed substitution.

D. By requesting a substitution, bidder represents and warrants that (1) it has personally investigated the proposed material or product and determined that it is equal or better in all respects to that specified, (2) the same or better warranty will be provided for the substitution, (3) it has coordinated with affected subcontractors, (4) the substitution will not impact other parts of the Work, (5) the aggregate costs associated with the substitution actually reduces its bid amount, (6) all costs associated with the substitution are included in its bid, and (7) it waives any known or unknown future claim for an increase in the Contract Sum or Contract Time associated with the substitution.

E. Owner retains full discretion over whether to approve a substitution, and Owner's approval does not relieve bidder of the above requirements.

1.07 TAXES

A. State of Washington Sales Tax shall not be included in the bid price, except that the retail sales tax upon sales and rentals to prime contractors and subcontractors of tools, cranes, air compressors, bulldozers, lubricating oil, sandpaper, form lumber, and similar items of material and equipment which are primarily for use by the bidder rather than for resale as a component part of the finished work, shall be included in the bid price. (See WAC 458-20-170 (State Department of Revenue Rule 170))

B. Sales tax applicable to the Contract Sum will be added to the Contract Sum by Owner at the time the Contract (Section 00 50 00) is written and shall be paid to
Contractor. Contractor shall then remit payment for the sales tax to the State Department of Revenue in conformance with the law.

1.08 FILING FEES

A. Applicable state laws concerning prevailing wages, hours, workers' compensation, and other conditions of employment are called to the attention of bidders for their compliance. Bidders shall include in their bid any and all fees, including filing fees, required to comply with applicable labor laws.

1.09 PAYMENT AND PERFORMANCE BONDS

A. Upon award of the Contract, the successful bidder will be required to provide Owner with satisfactory separate payment and performance bonds. Cost of bond premiums must be included in the bidder’s proposal.

1.10 FORM OF PROPOSAL

A. Proposals must be formatted in accordance with the following:

1. Bidder must utilize the Form of Proposal, examples of which are included in the Contract Documents; all numbers must be clearly and legibly stated both in writing and in figures; and signatures must be in longhand.

2. Bids must not contain any recapitulation of the Work to be done.

3. Bidders must include prices for all Alternate Bid items if they are included in the Form of Proposal.

   a. Bidders shall bid upon all Alternates indicated in the Form of Proposal. When bidding on alternates for which there is no charge, bidder shall write the words "No Charge" or some similar designation in the space provided on the Form of Proposal. If a bidder fails to bid an alternate, or notes "no bid," it will be construed as meaning that there will be no change in the Contract Sum and that the alternate is included in the Contract Sum.

4. To comply with the Governors “Stay Home, Stay Healthy” mandate bidders must submit their bids in electronic or fax format and the requirement to submit a sealed bid is waived. No other method of bid will be accepted.

   a. Electronic Bids: Bidders may submit their bid via email to contracts@wsu.edu prior to the bid submission deadline. The emailed bid must include all documents that would have normally been submitted in the sealed envelope, including but not limited to the Form of Proposal and bid bond, in either PDF or Image format.

   b. Faxed Bids: Bidders may submit their bid via Fax to 509-335-9304 prior to the bid submission deadline. The faxed bid must include all documents that would have normally been submitted in the sealed envelope, including but not limited to the Form of Proposal and bid bond.
c. The 3 lowest bidders shall mail their original bid and accompanying original bid security shall be mailed and post marked within 72 hours of the bid open, all other bidders may retain their bids. Mail to:

Facilities Services
P.O. Box 641150
100 McCluskey Services Building
Washington State University
Pullman, WA 99164-1150

5. Bids will be received in the following form on the dates and at the times indicated in the Advertisement for Bids.

6. Proposal:
   a. Completed Part A proposal indicating the following:
      1) Base Bid and Alternate Bid (if any) amounts;
      2) Acknowledgment of Addenda received;
      3) Signature, Corporate Identification, and Contractor License number; and
      4) Bid Security to be attached to Part A proposal form.

7. An official clock, at the office location designated for receipt of bids, will be designated by Owner for determining the timely receipt of each bid.

B. Proposals received and determined untimely by Owner, may be considered as non-responsive and will be returned to bidder unopened.

C. Bids will be received until the respective times indicated in the Advertisement for Bids. They must be received prior to the respective times stated; i.e., where bids for Part A are required until 2:00 p.m., all bids received by 1:59:59 p.m. are timely; all bids received on or after 2:00:00 p.m. are untimely.

D. Bidders are solely responsible for delivery of their proposals before the specified time set for receipt of bids.

1.11 BID ALTERNATES, ALLOWANCES AND UNIT PRICES

A. Bid Alternates, Allowances, and Unit Prices adjust the Project scope by adding, deleting, or modifying specific parts of the Work as stated hereinafter.

B. An Alternate is an amount proposed by bidders and stated on the Bid Form for certain construction activities defined in the bidding documents that may be added to or deducted from the Base Bid amount and/or the Owner decides to accept a corresponding change in either the amount of construction to be completed, or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
1. Each bidder shall submit, on the Form of Proposal, an amount for each 
Bid Alternate stating the difference in cost from the Base Bid amount for 
adding, deleting, or modifying specific materials and/or construction.

2. The difference in cost shall include all deletions, additions, and 
adjustments to all trades as may be necessary by each modification.

3. Only Alternates authorized by these specifications or pursuant to 
addenda will be considered.

C. An Allowance is an amount established in the Contract Documents for inclusion 
in the Contract Sum to cover the cost of prescribed items not specified in detail 
sufficient to estimate at time of bid.

1. Each bidder shall include in the Base Bid amount the amount for each 
Allowance as identified in the bidding documents.

D. A Unit Price is an amount as a price per unit of measurement for materials or 
services added or deleted from the Base Bid amount.

1. Each bidder shall submit on the Bid Proposal Form, an amount for each 
Unit Price stating the difference per unit or measurement for materials or 
services added or deleted from the Base Bid amount.

2. The Unit Price stated shall be used as the amount for either adding or 
deleting the item per unit of measurement from the Work.

3. The Unit Price amounts submitted on the Form of Proposal shall be used 
as the cost per unit of measurement for the entire duration of the 
Contract.

1.12 BID GUARANTEE

A. Bidder shall furnish a bid guarantee in the form of a cashier's check or bid bond 
made payable to the Board of Regents of Washington State University for an 
amount equal to at least 5% of the total Base Bid amount, as evidence of good 
faith and as a guarantee that, if awarded the Contract, the bidder will execute the 
Contract and provide payment and performance bonds as required.

B. Should the successful bidder fail to enter into a Contract and furnish satisfactory 
bonds within 10 Days after its proposal has been accepted, the bid security shall 
be forfeited as liquidated damages.

C. Owner reserves the right to hold the bid guarantee of the 3 lowest bidders until 
the successful bidder has entered into a contract and furnished required bonds.

1.13 MWBE PARTICIPATION

A. Washington State University is committed to the enhancement of opportunities 
for minority and women owned and controlled businesses in public contracting. 
The use or solicitation of minority and women's business enterprise firms is 
expressly encouraged.
1.14 MODIFICATION OF PROPOSALS

A. Modifications to proposals already submitted will be permitted only if requested in writing over the signature of the bidder and provided such requests are received prior to the time set for receipt of bids.

B. The original Form of Proposal will remain unopened until bid opening. Modifications in the form of facsimile transmissions will not be accepted.

C. Withdrawal of proposals will be permitted only if requested in writing over the signature of the bidder and provided such requests are received prior to the time set for receipt of bids.

D. Withdrawal requests in the form of facsimile transmissions will not be accepted.

E. After the scheduled closing time for the receipt of Form of Proposals, no bidder will be permitted to withdraw a proposal unless said award is delayed for a period exceeding 60 Days.

1.15 ALTERATIONS PROHIBITED

A. Except as otherwise provided herein, Forms of Proposal which are incomplete, or which are conditioned in any way, or which contain items not called for in the Proposal Form, or which are not in conformity to the law, may be rejected.

B. The Form of Proposal invites bids on specific Drawings and Specifications. Only the amounts and information asked for on the Form of Proposal furnished will be considered.

1.16 BID PROTEST PROCEDURES

A. A bidder protesting for any reason the bidding documents, a bidding procedure, the University’s objection to a bidder or a person or entity proposed by the bidder, including but not limited to, a finding of non-responsibility, the award of the Contract or any other aspect arising from, or relating in any way to, the bidding, shall file a written protest with the University within two (2) business days of the event giving rise to the protest. (Intermediate Saturdays, Sundays, and legal holidays are not counted as business days.) The written protest shall include the name of the protesting bidder, the title of the bid under which the protest is submitted, a detailed description of the specific factual and legal grounds for the protest, copies of all supporting documents, evidence that the apparent low bidder has been given notice of the protest, and the specific relief requested. The written protest shall be sent by email to contracts@wsu.edu.

B. Upon receipt of the written protest, the University will consider the protest. The University may, within three (3) business days of the University’s receipt of the protest, provide any other affected bidder(s) the opportunity to respond in writing to the protest. If the protest is not resolved by mutual agreement of the protesting bidder and the University, the Assistant Vice President for Facilities Services, Capital of the University, or her or his designee, will review the issues
and promptly furnish a final and binding written decision to the protesting bidder, and any other affected bidder(s), within six (6) business days of the University’s receipt of the protest. (If more than one (1) protest is received, the University’s decision will be provided within six (6) business days of the University’s receipt of the last protest.) If no reply is received from the University during the six (6) business-day period, the protest will be deemed rejected.

C. Failure to comply with these protest procedures will render a protest waived.

D. Timely and proper compliance with, and exhaustion of, these protest procedures shall be a condition precedent to any otherwise permissible judicial consideration of a protest.

1.17 LOW RESPONSIBLE BIDDER

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

1. Have a current certificate of registration in compliance with chapter 18.27 RCW, which must have been in effect at the time of bid submittal;

2. Have a current Washington Unified Business Identifier (UBI) number;

3. If applicable:
   a. Have Industrial Insurance (workers’ compensation) coverage for the bidder’s employees working in Washington, as required in Title 51 RCW;
   b. Have a Washington Employment Security Department number, as required in Title 50 RCW;
   c. Have a Washington Department of Revenue state excise tax registration number, as required in Title 82 RCW;

4. Not be disqualified from bidding on any public works contract under RCW 39.06.010 or 39.12.065(3).

5. Not have been found out of compliance by the Washington State Apprenticeship and Training Council for working apprentices out of ratio, without appropriate supervision, or outside their approved work processes as outlined in their standards of apprenticeship under chapter 49.04 RCW for the one-year period immediately preceding the first date of advertising for this project.

6. Not have been determined by a final and binding citation and notice of assessment issued by the Department of Labor and Industries, or through a civil judgment entered by a court of limited or general jurisdiction, to have willfully violated, any provision of chapter 49.46, 49.48, or 49.52 RCW, as defined in RCW 49.48.82.
B. In addition to the bidder responsibility criteria above, bidder must also meet the following supplemental bidder responsibility criteria applicable to the Project:

1. The ability, capacity, and skill of bidder to perform the service required;
2. The experience and efficiency of bidder;
3. Whether bidder can perform the Contract within the time specified;
4. The satisfactory completion of previous contracts or services;
5. Such other information having a bearing on the decision to accept a bid proposal.

C. The required experience for bidder, Project Manager, Superintendent, and Project Engineer shall be as follows:

1. Bidder shall have documented experience as a GC on projects of similar type, value, and scope for a minimum of eight years or three projects.
2. The Project Manager shall have documented experience managing and planning projects of similar type, value, and scope as the Contractor’s Project Manager for a minimum of five years or three projects.
3. The Superintendent shall have documented experience directing daily activities of all subcontractors on projects of similar type, value, and scope as the GC’s Superintendent for a minimum of five years or three projects.
4. The Project Engineer shall have documented experience coordinating and administering the work on projects of similar type, value and scope as the GC’s Project Engineer for a minimum of three years or two projects.

D. Within 48 hours of receipt of request, apparent low bidder will provide such information about its team as Owner determines to be reasonably necessary to evaluate the responsibility of the bidder. Failure to reply with requested information will render a bidder non-responsible at Owner’s option. At minimum, a bidder shall provide:

1. A financial statement;
2. List of projects currently under construction, including current contract amount and status of each;
3. Names and resumes of proposed Project Manager, Project Engineer, and Superintendent;
4. Name of bonding company/agent; and
5. References including project and owner name, a project contact, and project contact telephone number.

E. As evidence that bidder meets the bidder responsibility criteria, the apparent low bidder must submit documentation as may be required above to the Owner within
48 hours of the bid submittal deadline. Owner reserves the right to request such documentation from other bidders also.

F. Owner will review Contractor’s past Contract Performance to assist in evaluating the contractor’s qualifications and proven ability to successfully perform future contracts only when past performance has been previously documented via the Contract Performance Program.

G. If Owner determines bidder does not meet the bidder responsibility criteria above and is therefore not a responsible bidder, Owner shall notify bidder in writing with the reasons for its determination. If bidder disagrees with this determination, it may appeal the determination within 24 hours of receipt of Owner’s determination by presenting additional information to Owner. Owner will consider the additional information before issuing its final determination. If the final determination affirms that bidder is not responsible, Owner will not execute a Contract with any other bidder until 2 business days after the bidder determined to be not responsible has received the final determination.

1.18 CONTRACT AWARD

A. Owner intends but is not required to enter into a contract with the successful bidder, for all Work called for in the Contract Documents.

B. The determination of the successful bidder will be made on the basis of the sum of the Base Bid together with Owner-selected Alternates.

C. The responsibility of bidder and its subcontractors will be considered in making the award. Owner reserves the right to reject any or all bids and to waive informalities advantageous to Owner and/or the protection of the public interest.

D. Reinstatement of Bid Alternate not initially selected shall be in accordance with provisions of the Bid Proposal Form of Proposal.

1.19 CONTRACT FORMS

A. Owner’s standard form Contract is included with the Contract Documents.

END OF SECTION 00 21 13
This document is a submittal. Refer to Instructions to Bidders for bid submittal procedures.

Bidder's Firm Name: ___________________________ Date: ____________

To: Facilities Services, Capital
McCluskey Services Building, P.O. Box 641150
Washington State University
Pullman, Washington 99164-1150

Pursuant to and in compliance with the Advertisement for Bids and the Instructions to Bidders, the Bidder, having carefully examined the Contract Documents entitled WSU Spokane South Campus Parking Lot Expansion and having visited the Project site and examined the conditions affecting the Work, hereby proposes and agrees to provide all labor, materials, equipment, services, and incidentals necessary to complete the Work for the following stipulated sums:

A. BASE BID

$__________ DOLLARS ($__________), including trench-excavation safety provisions if required. The amount of trench-excavation safety provisions included above is $__________.

B. UNIT PRICES – NOT USED

C. ALTERNATES

The Bidder proposes to modify the Base Bid by deleting from, adding to or otherwise modifying the Work as further described by the Contract Documents for the following stipulated sums:

Alternate No. 1 - Will develop 20,250 SF of parking, lighting systems, expanded storm drainage and landscaping along N. Sherman Street. An additional Twenty (20) Days shall be added to the Contract Time for this Alternate.

$__________ DOLLARS ($__________),

Alternate No. 2 - Will construct 6,300 SF of concrete, lighting/electrical systems, and landscaping for an extension of the central plaza located to the north of E. Spokane Falls Blvd. Improvements are located on the west side of the Green 5 Parking Lot.

$__________ DOLLARS ($__________).
provided for the Alternate.

D. REINSTATEMENT OF BID ALTERNATES

The Bidder agrees that Owner has the right to reinstate any Alternate not incorporated in the original Contract, for the sum originally proposed, provided Owner notifies the Bidder within 60 Days of Notice to Proceed.

E. SALES TAX

The Bidder agrees that the amounts indicated in the proposal do not include Washington State and local sales taxes except as required by the Instructions to Bidders.

F. CONTRACT PROVISIONS

Should the Bidder be notified of the acceptance of this proposal within 60 Days from the date set for the opening thereof or at any time thereafter before this proposal is withdrawn, the bidder agrees to execute a Contract for the Work and to furnish the required bonds.

1. TIME OF COMPLETION
   The bidder agrees, if awarded a Contract for the Work, to complete the Work within the Contract Time specified.

2. LIQUIDATED DAMAGES
   The bidder agrees that time is of the essence of the Contract and acknowledges that the amount of damages specified is a measure of the damages which the Owner will sustain should the Bidder fail to complete the Work within the Contract Time.

G. BID GUARANTEE

The Bidder agrees that the bid guarantee accompanying the Part A Form of Proposal is left in escrow with Owner, that the amount of the guarantee is the measure of the damages that Owner will sustain by failure of the bidder to execute a Contract for the Work and furnish required bonds, and that if the bidder fails to deliver said documents within 10 Days after receipt of notice of award to the bidder, the bid guarantee shall become the property of Owner.

H. MINORITY AND WOMEN'S BUSINESS ENTERPRISE (MWBE) PARTICIPATION

Owner is committed to the enhancement of opportunities for minority and women owned and controlled firms in public contracting. While neither required, nor a part of bidder responsiveness, the use or solicitation of minority and women business enterprises is expressly encouraged.

I. ADDENDA

The bidder hereby acknowledges receipt of Addendum by number(s):
J. PREVAILING WAGE CERTIFICATION

The bidder has not been determined by a final and binding citation and notice of assessment issued by the Department of Labor and Industries, or through a civil judgment entered by a court of limited or general jurisdiction, to have willfully violated, any provision of chapter 49.46, 49.48, or 49.52 RCW, as defined in RCW 49.48.82.

K. DECLARATION

The bidder represents and warrants that he/she possess the authority to sign for and bind bidder.

The Bidder declares under penalty of perjury under the laws of the State of Washington, that all of the foregoing information as recited is true and correct to the best of his/her knowledge.

Bidder’s Firm Name: __________________________________________________________

Signed By: ________________________________ Official Title: ______________________

Print Name: ________________________________

Address: __________________________________

City: __________________________ State: ___________ Zip Code: ______

Telephone: __________________________ Fax: __________________________

State of Washington Contractor’s License Number: __________________________

Federal Tax Identification Number: __________________________

Email Address: __________________________

The firm represented by the above signature is a:

Sole Proprietorship __________
Partnership __________
Corporation __________ State of Incorporation __________
Other __________

END OF SECTION 00 42 13
WSU Spokane South Campus Parking Lot Expansion

Agreement between Owner and Contractor

(Fixed Contract Sum)

This AGREEMENT is effective as of the date of the first signature on the Agreement so long as all other parties’ authorized signatories have also executed the Agreement. This Agreement is made by and between the following parties in connection with the Project identified below.

OWNER:
Washington State University  
c/o Facilities Services, Capital  
P.O. Box 641150  
Pullman, WA 99164-1150

CONTRACTOR:
[To be determined]

ENGINEER (A/E):
David Evans & Associates, Inc.  
809 N Howard Street, Suite 300  
Spokane, WA 99201

PROJECT:
WSU Spokane South Campus Parking Lot Expansion  
E Spokane Falls Boulevard,  
Spokane, WA 99202

In consideration of the mutual covenants and obligations contained herein, Owner and Contractor agree as set forth herein.

Article 1
The Work of the Contract

1.1 Contractor to fully execute the Work. Contractor shall fully execute the entire Work in strict accordance with the Contract Documents, and shall provide all material, equipment, tools, and labor necessary to timely complete the Work described in and reasonably inferable from the Contract Documents, except to the extent specifically indicated to be the responsibility of others.

1.2 Contractor to further Owner’s interests. Contractor accepts the relationship of trust and confidence established by this Agreement and covenants with Owner to cooperate and collaborate with Owner and others involved with the Project and to exercise Contractor’s best skill and judgment; to furnish efficient, professional construction administration, management services and supervision with sufficient quantities of fully qualified, competent and experienced personnel; and to perform the Work in an expeditious and economical manner consistent with Owner’s interests. The parties will endeavor to promote harmony, cooperation and mutual respect among the Project participants to the fullest extent possible in order to further the success of the Project and to effect prompt and successful completion of the Project within the requirements of the Contract Documents, the Contract Time and the Contract Sum.
Article 2
Contract Documents

2.1 The Contract Documents. The “Contract Documents” form the “Contract.” The Contract Documents consist of this Agreement (Agreement between Owner and Contractor or the “Agreement”); any attached Exhibits and other documents listed in the Contract Documents; the General Conditions; other documents listed in Article 8 of this Agreement; and written modifications, amendments and Change Orders to the Contract issued after execution of this Agreement.

2.2 Contract is complete and integrated agreement. The Contract represents the entire, complete, and integrated agreement between the parties and supersedes prior negotiations, representations or agreements, either written or oral. No oral representations or other agreements have been made by the parties except as specifically established in the Contract.

2.3 Contract is between only Owner and Contractor. The Contract Documents shall not be construed to create a contractual relationship of any kind between any Persons other than Owner and Contractor.

Article 3
Definitions

3.1 Terms, words and phrases to have ordinary meanings. Terms, words and phrases used in the Contract Documents shall have the meanings given them in this Agreement and in the General Conditions or, if not defined, in a manner consistent with construction industry standards. In the event of any inconsistency in such definitions, the definitions in this Agreement shall control.

3.2 Construction Documents. The Construction Documents are identified in the General Conditions and other Contract Documents as Drawings and Specifications. The Construction Documents do not include shop drawings or other Submittals.

3.3 Contractor. “Contractor” is the Person identified as such in the Agreement and General Conditions. Contractor must be licensed, bonded, and insured as a contractor in the State of Washington, and must legally be permitted to do business. Contractor’s authorized representative, including its Designated Representative, shall be authorized to act on Contractor’s behalf with respect to the Project.

3.4 General Conditions modified. Section 4.03E of the General Conditions is hereby modified to clarify that Contractor and Owner may agree on the number of copies of Submittals to be provided to Owner. If no such agreement is reached, Contractor shall submit five copies.

Article 4
Notice to Proceed and Substantial Completion

4.1 Notice to Proceed. The date of Notice to Proceed will be specified in a written Notice issued by Owner. Owner may issue separate written authorizations to proceed for different portions of the Work.
4.2 Contract Time measured from date of commencement. The Contract Time shall be measured from the Notice to Proceed date to the contractual date of Substantial Completion established in Section 4.3, subject to adjustments as provided in the Contract Documents. Time is of the essence in completion of the Work.

4.3 Substantial Completion and Final Completion. Contractor shall achieve Substantial Completion of the Work by Thirty (30) Days (Contract time to be increased by an additional Twenty (20) Days if Alternate No. 1 is accepted) following Notice to Proceed subject to adjustments as provided in the Contract Documents, and shall achieve Final Completion not later than Twenty (20) Days thereafter. Contractor represents to Owner that the Contract Time is adequate for full performance of the Work. Contractor shall also achieve any interim milestones and phasing requirements set forth in the Contract Documents.

4.4 Liquidated damages. Owner will assess, and Contractor will be responsible for, liquidated damages in the amount of One thousand five hundred three dollars and eighty-three cents ($1,503.83) per Day for each Day beyond the contractual date for Substantial Completion that Substantial Completion is not timely achieved, and subsequently One thousand five hundred three dollars and eighty-three cents ($1,503.83) per Day for each Day beyond the time period established in Section 4.3 that Final Completion of the entire Work is not achieved. Contractor and Owner agree that the liquidated damages amounts are not penalties and are a reasonable estimation of actual damages to Owner, as of this date of Agreement, based on the inherent uncertainty and difficulty in calculating and quantifying damages caused by delays in the construction of university facilities.

Article 5
Contract Sum

5.1 Contract Sum. For Contractor’s performance of the Contract, Owner shall pay to Contractor the Contract Sum of _______________ dollars ($______________), subject to additions and deductions for changes in the Work as provided in the Contract Documents. The Contract Sum includes by way of example and not limitation all costs of construction; general conditions; all taxes except Washington State sales tax due on the Contract Sum; Contractor’s contingency; any approved Allowances; all insurance; overhead; and Contractor’s fee.

5.2 Alternates. The Contract Sum is based upon the following alternates, if any, which are described in the Contract Documents and are hereby accepted by Owner:

<table>
<thead>
<tr>
<th>Alternate Number</th>
<th>Description</th>
<th>Price ($0.00)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Develop 20,250 SF of parking, lighting systems, expanded storm drainage and landscaping along N. Sherman Street. An additional Twenty (20) Days shall be added to the Contract Time for this Alternate.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Construct 6,300 SF of concrete, lighting/electrical systems, and landscaping for an extension of the central plaza located to the north of E. Spokane Falls Blvd. Improvements</td>
<td></td>
</tr>
</tbody>
</table>
5.3 **Unit Prices.** Any Unit Prices are as follows:

<table>
<thead>
<tr>
<th>Description</th>
<th>Units</th>
<th>Price ($0.00)</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Unit Prices as set forth in the Contract Documents are “all in.” They include all material, equipment, labor, delivery, installation, and Subcontractor costs, any overhead and profit not included in the fee, and any other costs or expenses in connection with, or incidental to, the performance of that portion of the Work to which such Unit Prices apply.

5.4 **Allowances.** Allowances included in the Contract Sum are as follows:

<table>
<thead>
<tr>
<th>Allowance</th>
<th>Amount</th>
<th>Included Items</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Allowances may be included in the Contract Sum due to uncertainty in scope, price and/or quantity at the time this Agreement is executed. Whenever actual costs are more or less than an allowance, the Contract Sum will be appropriately adjusted. Contractor must provide Owner with written notice of its intent to expend an allowance amount (providing Owner with the opportunity to approve or reject the cost) before expending an allowance amount.

5.5 **Changes in the Work.**

5.5.1 Owner may, without invalidating the Contract, order changes in the Work consisting of additions, deletions or other revisions. Owner shall issue such changes in writing.

5.5.2 Adjustments of the Contract Sum and/or Contract Time on account of changes in the Work may be determined by any of the methods listed in the General Conditions.

**Article 6**

**Payments**

6.1 **Applications for Payment.**

6.1.1 The Contract Documents detail the requirements for Applications for Payment. Based upon Applications for Payment that Contractor submits to Owner, Owner shall make progress payments to Contractor on account of the Contract Sum.

6.2 **Progress Payments.**

6.2.1 Subject to other provisions of the Contract Documents, the amount of each progress payment shall be computed as follows and in accordance with Section 01 29 00, Applications for Payment:

1. Take that portion of the Contract Sum properly allocable to completed Work as determined by multiplying the percentage of completion of each portion of the
Work by the share of the Contract Sum allocated to that portion in the Schedule of Values. Pending final determination of the cost to Owner of changes in the Work, amounts not in dispute may be included as provided in the General Conditions unless Owner requires that actual cost records be provided;

.2 Add that portion of the Contract Sum properly allocable to materials and equipment delivered and suitably stored at the site for subsequent incorporation in the completed construction (or, if approved in advance by Owner, suitably stored and insured off the site at a location agreed upon in writing);

.3 Subtract the aggregate sum of previous payments made by Owner;

.4 Subtract amounts, if any, for which Owner has withheld payment; and

.5 Subtract the statutory retainage of five percent (5%) of the above amount as a fund for the protection and payment of the claims of any Person arising out of the Work and the State of Washington with respect to taxes.

6.3 Final Payment.

6.3.1 Final payment, constituting the entire unpaid balance of the Contract Sum, less retainage, shall be made by Owner to Contractor no later than 30 Days after Contractor has fully performed the Contract and Final Completion has occurred (except for Contractor's responsibility to correct non-conforming Work discovered after final payment or to satisfy other requirements, if any, that extend beyond final payment), and Contractor has submitted a final Application for Payment.

6.3.2 Owner shall release retainage to Contractor in accordance with Chapter 60.28 RCW and the Contract Documents.

**Article 7**

**Miscellaneous Provisions**

7.1 Designated Representatives.

7.1.1 Owner's Designated Representative, designated below, shall be authorized to act on Owner's behalf with respect to the Project:

   Eric Smith  
   Project Manager  
   Facilities Services, Capital  
   WSU Spokane

7.1.2 Contractor's Designated Representative, identified below, shall be authorized to act on Contractor's behalf with respect to the Project:

   
   

7.1.3 Neither Owner's nor Contractor's Designated Representatives shall be changed without 10 Days' written notice to the other party.
7.2 **Interest.** Payments due and unpaid under the Contract Documents shall bear interest as specified by RCW 39.76, not to exceed the Bank of America prime plus two percent (2%) per annum.

7.3 **Quality control and assurance and Owner’s right to inspect the Work:** Contractor shall develop and submit an overall Quality Control and Assurance Plan to ensure that the Work is inspected by qualified members of Contractor’s staff or third parties. The Quality Control and Assurance Plan must be acceptable to Owner. Owner expressly reserves the right to inspect any and all portions of the Work at any time during the Project. Contractor shall provide access to the Work as needed by Owner or its representatives, including the use of scaffolding, platforms, or lifts. All corrections or observations noted by Owner shall be logged by Contractor for correction, tracking and documentation to the satisfaction of Owner.

7.4 **Contractor to actively manage and supervise Work.** Contractor shall review and inspect the Work of Subcontractors on a regular basis for defects and deficiencies in their Work and for conformance with the Construction Documents and other Contract Documents, and shall stop the Work of Subcontractors, if necessary. Contractor shall provide notification at regularly scheduled progress meetings of any major defects or deficiencies and recommend remedial action.

7.5 **Use of Third Party Neutral.** Owner and Contractor intend to utilize a Third Party Neutral to assist in addressing and resolving disputes that may arise during the Project. The Third Party Neutral will be jointly engaged and will have the roles and responsibilities set forth in a Third Party Neutral Agreement, which shall be established in accordance with Section 00 80 10, Third Party Neutral.

**Article 8**

**Enumeration of the Contract Documents**

8.1 **The Contract Documents.** The Contract Documents, except for modifications issued after execution of this Agreement, are enumerated as follows:

8.1.1 This executed Agreement, any attached Exhibits and other documents listed in this Agreement.


8.1.3 The Addenda, if any, are as follows:

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Pages</th>
</tr>
</thead>
</table>

8.1.4 Other documents, if any, forming part of the Contract Documents are as follows:

See Contract Documents, Department of Labor and Industries Prevailing Wage Rates.
<table>
<thead>
<tr>
<th>OWNER:</th>
<th>CONTRACTOR:</th>
</tr>
</thead>
<tbody>
<tr>
<td>WASHINGTON STATE UNIVERSITY</td>
<td>FIRM NAME</td>
</tr>
<tr>
<td></td>
<td>WA CONTRACTOR LICENSE NUMBER</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>(Signature)</th>
<th>(Date)</th>
<th>(Signature)</th>
<th>(Date)</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Printed Name)</td>
<td>(Title)</td>
<td>(Printed Name)</td>
<td></td>
</tr>
<tr>
<td>Vice President for Finance and Administration</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

END OF SECTION 00 50 00
<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PART 1 - GENERAL PROVISIONS</strong></td>
<td>.......................................................... 3</td>
</tr>
<tr>
<td>1.01</td>
<td>DEFINITIONS .......................................................... 3</td>
</tr>
<tr>
<td>1.02</td>
<td>ORDER OF PRECEDENCE ............................................. 5</td>
</tr>
<tr>
<td>1.03</td>
<td>EXECUTION AND INTENT ............................................ 6</td>
</tr>
<tr>
<td><strong>PART 2 - INSURANCE AND BONDS</strong></td>
<td>.......................................................... 6</td>
</tr>
<tr>
<td>2.01</td>
<td>CONTRACTOR’S LIABILITY INSURANCE .......................... 6</td>
</tr>
<tr>
<td>2.02</td>
<td>COVERAGE LIMITS ...................................................... 8</td>
</tr>
<tr>
<td>2.03</td>
<td>INSURANCE COVERAGE CERTIFICATES ........................ 8</td>
</tr>
<tr>
<td>2.04</td>
<td>PAYMENT AND PERFORMANCE BONDS ......................... 8</td>
</tr>
<tr>
<td>2.05</td>
<td>ALTERNATIVE SURETY ............................................... 8</td>
</tr>
<tr>
<td>2.06</td>
<td>BUILDER’S RISK ...................................................... 9</td>
</tr>
<tr>
<td><strong>PART 3 - TIME AND SCHEDULE</strong></td>
<td>.......................................................... 9</td>
</tr>
<tr>
<td>3.01</td>
<td>PROGRESS AND COMPLETION ....................................... 9</td>
</tr>
<tr>
<td>3.02</td>
<td>CONSTRUCTION SCHEDULE .......................................... 9</td>
</tr>
<tr>
<td>3.03</td>
<td>OWNER’S RIGHT TO SUSPEND THE WORK FOR CONVENIENCE .......................... 10</td>
</tr>
<tr>
<td>3.04</td>
<td>OWNER’S RIGHT TO STOP AND/OR CARRY OUT THE WORK FOR CAUSE .................................. 11</td>
</tr>
<tr>
<td>3.05</td>
<td>DELAY .................................................................................................................. 11</td>
</tr>
<tr>
<td>3.06</td>
<td>NOTICE TO OWNER OF LABOR DISPUTES .................... 13</td>
</tr>
<tr>
<td>3.07</td>
<td>DAMAGES FOR FAILURE TO ACHIEVE TIMELY COMPLETION ............................................. 13</td>
</tr>
<tr>
<td><strong>PART 4 - SPECIFICATIONS, DRAWINGS, AND OTHER DOCUMENTS</strong></td>
<td>............................................. 13</td>
</tr>
<tr>
<td>4.01</td>
<td>DISCREPANCIES AND CONTRACT DOCUMENT REVIEW ............ 13</td>
</tr>
<tr>
<td>4.02</td>
<td>PROJECT RECORD .......................................................... 14</td>
</tr>
<tr>
<td>4.03</td>
<td>SUBMITTALS .......................................................................... 15</td>
</tr>
<tr>
<td>4.04</td>
<td>ORGANIZATION OF SPECIFICATIONS ............................ 16</td>
</tr>
<tr>
<td>4.05</td>
<td>OWNERSHIP AND USE OF DRAWINGS, SPECIFICATIONS, AND OTHER DOCUMENTS .......................... 16</td>
</tr>
<tr>
<td><strong>PART 5 - PERFORMANCE</strong></td>
<td>.......................................................... 17</td>
</tr>
<tr>
<td>5.01</td>
<td>CONTRACTOR CONTROL AND SUPERVISION .................... 17</td>
</tr>
<tr>
<td>5.02</td>
<td>PERMITS, FEES, AND NOTICES ..................................... 17</td>
</tr>
<tr>
<td>5.03</td>
<td>PATENTS AND ROYALTIES ........................................... 18</td>
</tr>
<tr>
<td>5.04</td>
<td>PREVAILING WAGES ................................................... 18</td>
</tr>
<tr>
<td>5.05</td>
<td>HOURS OF LABOR ....................................................... 19</td>
</tr>
<tr>
<td>5.06</td>
<td>NONDISCRIMINATION .................................................. 19</td>
</tr>
<tr>
<td>5.07</td>
<td>SAFETY PRECAUTIONS ............................................... 20</td>
</tr>
<tr>
<td>5.08</td>
<td>OPERATIONS, MATERIAL HANDLING, AND STORAGE AREAS .................................................. 22</td>
</tr>
<tr>
<td>5.09</td>
<td>PRIOR NOTICE OF EXCAVATION ................................... 22</td>
</tr>
<tr>
<td>5.10</td>
<td>UNFORESEEN PHYSICAL CONDITIONS ........................... 22</td>
</tr>
<tr>
<td>5.11</td>
<td>PROTECTION OF EXISTING STRUCTURES, EQUIPMENT, VEGETATION, UTILITIES AND IMPROVEMENTS .......................................................... 23</td>
</tr>
<tr>
<td>5.12</td>
<td>LAYOUT OF WORK .......................................................... 23</td>
</tr>
<tr>
<td>5.13</td>
<td>MATERIAL AND EQUIPMENT ......................................... 24</td>
</tr>
<tr>
<td>5.14</td>
<td>AVAILABILITY AND USE OF UTILITY SERVICES ............. 24</td>
</tr>
<tr>
<td>5.15</td>
<td>TESTS AND INSPECTION ............................................... 24</td>
</tr>
<tr>
<td>5.16</td>
<td>CORRECTION OF NONCONFORMING WORK ................. 25</td>
</tr>
<tr>
<td>5.17</td>
<td>CLEAN UP ......................................................................... 26</td>
</tr>
<tr>
<td>5.18</td>
<td>ACCESS TO WORK .......................................................... 27</td>
</tr>
<tr>
<td>5.19</td>
<td>OTHER CONTRACTS ........................................................ 27</td>
</tr>
<tr>
<td>Section</td>
<td>Description</td>
</tr>
<tr>
<td>---------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>5.20</td>
<td>SUBCONTRACTORS AND SUPPLIERS</td>
</tr>
<tr>
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<td>WARRANTY OF CONSTRUCTION</td>
</tr>
<tr>
<td>5.22</td>
<td>INDEMNIFICATION</td>
</tr>
<tr>
<td>PART 6 -</td>
<td>PAYMENTS AND COMPLETION</td>
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<td>6.01</td>
<td>CONTRACT SUM</td>
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<tr>
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<td>SCHEDULE OF VALUES</td>
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<tr>
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<td>APPLICATION FOR PAYMENT</td>
</tr>
<tr>
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<td>PROGRESS PAYMENTS</td>
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<td>PAYMENTS WITHHELD</td>
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<td>RETAINAGE, BOND CLAIM RIGHTS, AND LIENS</td>
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<tr>
<td>6.07</td>
<td>SUBSTANTIAL COMPLETION</td>
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<td>6.08</td>
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<td>FINAL COMPLETION, ACCEPTANCE, AND PAYMENT</td>
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<td>PART 7 -</td>
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</tr>
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<tr>
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</tr>
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<td>PART 8 -</td>
<td>CLAIMS AND DISPUTE RESOLUTION</td>
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<td>CLAIMS</td>
</tr>
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</tr>
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</tr>
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</tr>
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<td>TERMINATION BY OWNER FOR CAUSE</td>
</tr>
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</tr>
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<td>TERMINATION BY CONTRACTOR FOR CAUSE</td>
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<td>MISCELLANEOUS PROVISIONS</td>
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<td>GOVERNING LAW</td>
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<td>RIGHTS AND REMEDIES</td>
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<tr>
<td>10.07</td>
<td>RECORDS RETENTION</td>
</tr>
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<td>THIRD-PARTY AGREEMENTS</td>
</tr>
<tr>
<td>10.09</td>
<td>ANTITRUST ASSIGNMENT</td>
</tr>
<tr>
<td>10.10</td>
<td>HEADINGS AND CAPTIONS</td>
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<td>10.11</td>
<td>INDEPENDENT CONTRACTOR</td>
</tr>
<tr>
<td>10.12</td>
<td>OWNER’S ROLE</td>
</tr>
</tbody>
</table>

WSU amendments to the Washington State Facility Construction General Conditions are identified by a bar on the right hand side of modified paragraphs.
PART 1 - GENERAL PROVISIONS

1.01 DEFINITIONS

A. “Application for Payment” means a written request submitted by Contractor to Owner for payment of Work completed in accordance with the Contract Documents and approved Schedule of Values, supported by such substantiating data as Owner may require.

B. “Architect,” “Engineer,” or “A/E” means a person or entity lawfully entitled to practice architecture or engineering, representing Owner within the limits of its delegated authority.

C. An “Allowance” is an amount included in the Contract Sum for a stated part of the Work that is not fully defined and/or quantified at the time the Contract Sum is established. When that part of the Work is adequately defined and/or quantified, the Contract Sum will be adjusted to account for the difference between the Allowance and the actual cost of the item. Following the adjustment, that part of the Work will no longer be an Allowance item. Although not capitalized in Section 5.02B, “allowance” shall mean “Allowance.”

D. “Change Order” means a written instrument signed by Owner and Contractor stating their agreement upon all of the following: (1) a change in the Work; (2) the amount of the adjustment in the Contract Sum, if any, and (3) the extent of the adjustment in the Contract Time, if any.

E. “Claim” means Contractor’s exclusive remedy for resolving disputes with Owner arising out of or relating to the Contract Documents or the breach thereof or requesting an adjustment in the Contract Sum or Contract Time, as more fully set forth in Part 8. As used in the Contract Documents, the exclusive meaning of “equitable adjustment” is the ability of Contractor to follow the contractual dispute resolution process in Part 8, including the requirement for submitting a timely Notice, substantiation, and Claim.

F. The “Contract” is the agreement between Owner and Contractor and is formed by the Contract Documents. The Contract represents the entire and integrated agreement between Owner and Contractor and supersedes prior negotiations, representations or agreements, either written or oral.

G. “Contract Award Amount” is the sum of the Base Bid and any accepted Alternates, if any, for Design-Bid-Build projects and is the accepted initial Guaranteed Maximum Price for Design-Build and GC/CM projects.

H. “Contract Documents” means the General Conditions, modifications to the General Conditions, Supplemental Conditions, Agreement, Drawings and Specifications, and all addenda and modifications thereof.

I. “Contract Sum” is the total amount payable by Owner to Contractor for performance of the Work in accordance with the Contract Documents, including all taxes imposed by law and properly chargeable to the Work, except Washington State sales tax.

J. “Contract Time” is the number of Days or other time period allotted in the Contract Documents from the Notice to Proceed for achieving Substantial Completion of the Work.

K. “Contractor” means the person or entity who has agreed with Owner to perform the Work in accordance with the Contract Documents.

L. “Day(s)” means calendar day(s) unless otherwise specified.
M. "Drawings" are the graphic and pictorial portions of the Contract Documents showing the design, location, and dimensions of the Work, and may include plans, elevations, sections, details, schedules, and diagrams.

N. "Final Acceptance" means the written acceptance of the Work by Owner, as more fully set forth in Section 6.08B.

O. "Final Completion" means that the Work is fully and finally complete in accordance with the Contract Documents and Contractor has submitted its final Application for Payment, as more fully set forth in Section 6.09A.

P. "Force Majeure" means those acts entitling Contractor to request an equitable adjustment in the Contract Time, as more fully set forth in paragraph 3.05A.

Q. "Notice" means a written notice which has been delivered in person to the individual or a member of the firm or entity or to an officer of the corporation for which it was intended or, if delivered or sent by registered or certified mail, to the last business address known to the party giving notice. Although not capitalized in the following provisions, "notice" shall mean "Notice" in Sections 3.03B, 3.03C, 3.06A, 5.01D, 5.02C, 5.03, 5.09A, 5.10A, 5.15A, 5.16F, 5.17, 9.01A, 9.02A, and 9.02B.

R. "Notice to Proceed" means a written Notice from Owner to Contractor that permits pre-construction and construction activities to commence upon specified terms and defines the date on which the Contract Time begins to run.

S. "Owner" means the Washington State University Board of Regents, which has the authority to enter into, administer, and/or terminate the Work in accordance with the Contract Documents. Owner shall designate in writing a Representative who shall have authority to bind Owner with respect to all matters requiring Owner’s approval or authorization. A/E does not have such authority.

T. "Person" means a corporation, partnership, business association of any kind, trust, company, or individual.

U. "Prior Occupancy" means Owner’s use of all or parts of the Project before Substantial Completion, as more fully set forth in Section 6.08A.

V. "Progress Schedule" means a schedule of the Work, in a form satisfactory to Owner, as further set forth in Section 3.02.

W. "Project" means the total construction of which the Work performed in accordance with the Contract Documents may be the whole or a part and which may include construction by Owner or by separate contractors.

X. "Project Record" means the separate set of Drawings and Specifications as further set forth in paragraph 4.02A.

Y. "Schedule of Values" means a written breakdown allocating the total Contract Sum to each principal category of Work, in such detail and format as requested by Owner.

Z. "Specifications" are that portion of the Contract Documents consisting of the written requirements for materials, equipment, construction systems, standards and workmanship for the Work, and performance of related services.
AA. “Subcontract” means a contract between Contractor and a Subcontractor for the purpose of obtaining supplies, materials, equipment, work or services of any kind for or in connection with the Work. Although not capitalized in the following provisions, “subcontract” shall mean “Subcontract” in Sections 5.10A, 5.20E, 9.01B, and 9.02B.

BB. “Subcontractor” means any Person of any tier, other than Contractor, who agrees to furnish or furnishes by contract with, or through Contractor, any supplies, materials, equipment, or services of any kind in connection with the Work. The term “Subcontractor” does not include a separate contractor or subcontractors of a separate contractor. Although not capitalized in the following provisions, “subcontractor” shall mean “Subcontractor” in Sections 5.04B, 5.04C, 5.04G, 5.20A, and 5.21B.

CC. “Substantial Completion” means that stage in the progress of the Work (or portion of the Work designated and approved by Owner) when the construction is sufficiently complete, in accordance with the Contract Documents, so that Owner can fully occupy or utilize the Work (or portion designated by Owner) for its intended use, as more fully set forth in Section 6.07. There may be separate dates of Substantial Completion specified in the Contract Documents for various phases or portions of the Work.

DD. “Work” means the construction and services required by the Contract Documents, and includes, but is not limited to, labor, materials, supplies, equipment, services, permits, and the manufacture and fabrication of components, performed, furnished, or provided in accordance with the Contract Documents. Although not capitalized in the following provisions, “work” shall mean “Work” in Sections 3.02D, 5.04B, 5.04C, 5.07D, 5.12A, 6.02 and 7.02A.

EE. A “Work Directive” (“WD”) is a binding written order prepared by Owner that directs Work prior to total agreement on adjustment, if any, in the Contract Sum or Contract Time, or both.

FF. “Work Site” means the space identified and circumscribed on construction documents. The work site is controlled by the Contractor and the Contractor is responsible for compliance to regulatory requirements within the circumscribed area. Changes to the work site shall be submitted by Contractor and approved by Owner.

1.02 ORDER OF PRECEDENCE

Any conflict or inconsistency in the Contract Documents shall be resolved by giving the documents precedence in the following order, with a revision to a Contract Document having precedence over the original document and a later document having precedence over an earlier document:

1. Signed Agreement, with any Change Orders having precedence.

2. Supplemental Conditions.

3. Modifications to the General Conditions.

4. General Conditions.

5. Specifications and Drawings. The Specifications and Drawings are complementary and shall have equal precedence. Thus, anything mentioned in the Specifications but not shown on the Drawings, or shown on the Drawings but not mentioned in the Specifications, shall be of like effect as if shown or mentioned in both. If there is any inconsistency between the Specifications and Drawings, Contractor will make an inquiry to Owner to determine how to proceed. Unless otherwise directed, Contractor will provide the better quality or greater quantity of any Work or materials, as reasonably interpreted by Owner, at no change in the Contract Sum or Contract
1.03 EXECUTION AND INTENT

Contractor Representations: Contractor makes the following representations to Owner:

1. Contract Sum and Contract Time reasonable: The Contract Sum is reasonable compensation for the Work and the Contract Time is adequate for the performance of the Work, as represented by the Contract Documents;

2. Contractor familiar with project: Contractor has carefully reviewed the Contract Documents, visited and examined the Project site, become familiar with the local conditions in which the Work is to be performed, and satisfied itself as to the nature, location, character, quality and quantity of the Work, the labor, materials, equipment, goods, supplies, work, services and other items to be furnished and all other requirements of the Contract Documents, as well as the surface and subsurface conditions and other matters that may be encountered at the Project site or affect performance of the Work or the cost or difficulty thereof;

3. Contractor financially capable: Contractor is financially solvent, able to pay its debts as they mature, and possesses sufficient working capital to complete the Work and perform Contractor’s obligations required by the Contract Documents; and

4. Contractor can complete Work: Contractor is able to furnish the plant, tools, materials, supplies, equipment and labor required to complete the Work and perform the obligations required by the Contract Documents and has sufficient experience and competence to do so.

PART 2 - INSURANCE AND BONDS

2.01 CONTRACTOR'S LIABILITY INSURANCE

General insurance requirements: Prior to commencement of the Work, Contractor shall obtain all the insurance required by the Contract Documents and provide evidence satisfactory to Owner that such insurance has been procured, including but not limited to (1) Certificates of Insurance on ACORD Form 25, and/or ACORD Form 27 or their equivalents, and which shall list any applicable self-insured retentions, (2) the actual costs (expressed as a percentage) of Contractor’s liability insurance under Section 2.01A.1 below, (3) applicable endorsements evidencing proof of compliance with the requirements listed below, (4) evidence of State Workers’ Compensation coverage, and (5) a copy of any builder’s risk policy required by the Contract Documents. All policies, endorsements and certificates must be signed copies and shall contain a provision that policies will not be cancelled without first giving thirty (30) days (or in the event of non-payment of premium, ten (10) days) prior written Notice to Owner. Contractor shall furnish to Owner copies of any subsequently issued endorsements amending, modifying, altering or restricting coverage terms or limits. Review of Contractor’s insurance by Owner shall not relieve or decrease the liability of Contractor. Companies writing the insurance to be obtained by Part 2 shall be licensed to do business under Chapter 48 RCW or comply with the Surplus Lines Law of the State of Washington. Contractor shall include in the Contract Sum the cost of all insurance and bond costs required for the Work. Insurance carriers providing insurance shall be acceptable to Owner, and its A. M. Best rating shall be indicated on the insurance certificates.

A. Term of insurance coverage: Contractor shall maintain the following insurance coverage during the Work and for one year after Substantial Completion. Contractor shall also maintain the following insurance coverage during the performance of any corrective Work required by Section 5.16.
1. **General Liability Insurance:** Commercial General Liability (CGL) on an occurrence-based ISO Form CG 00 01 or broader, including products and completed operations, personal and advertising injury, bodily injury and property damage liability arising from Contractor’s operations or Work, including operations or Work Contractor may subcontract or sublet to others.

   The policy shall be purchased from a company or companies lawfully authorized to do business in the State of Washington possessing an A.M. Best’s policyholder’s rating of A or better and a financial rating of no less than XI.

   Contractor’s policy shall be designated primary and non-contributory to Owner's policies, and shall include a waiver of subrogation against Owner. Any self-insured retentions or deductibles must be disclosed and approved by Owner, and Contractor agrees to be responsible for payment of any and all self-insured retentions or deductibles.

2. **Automobile Liability Insurance:** Automobile liability on ISO Form CA 00 01 covering Code 1 (any auto).

3. **Stop Gap Liability Insurance** for damages because of bodily injuries to Contractor’s employees.

   B. **Industrial Insurance compliance:** Contractor shall comply with the Washington State Industrial Insurance Act and, if applicable, the Federal Longshoremen’s and Harbor Workers’ Act and the Jones Act.

   C. **Insurance to protect for the following:** All insurance coverages shall protect against claims for damages for personal and bodily injury or death, as well as claims for property damage, which may arise from operations in connection with the Work whether such operations are by Contractor or any Subcontractor.

   D. **Owner as Additional Insured:** All insurance coverages shall be endorsed to include Owner, its officers, and employees, and any required governmental agencies as additional named insureds with coverage at least as broad as ISO Forms CG 20 10, CG 20 37, and CA 20 48, with no self-insured retentions applicable to the additional insureds.

   E. **Subcontractor Coverage:** Contractor shall ensure and require that Subcontractors have insurance coverage to cover bodily injury and property damage on all operations and all vehicles owned or operated by Subcontractors. Subcontractors shall name Contractor and Owner, any required governmental agencies, and others designated in the Contract Documents as well as their officers and employees, as additional insureds and give at least thirty (30) Days’ Notice of cancellation.

### 2.02 COVERAGE LIMITS

**Insurance amounts:** The coverage limits shall be not less than the amounts specified in the Agreement; if limits are not specified in the Agreement, coverage limits shall be not less than as follows:

A. $1,000,000 per occurrence for bodily injury, property damage, personal and advertising injury.

B. $2,000,000 general aggregate to apply separately to each project or location.

C. $2,000,000 annual aggregate for products and completed operations.

D. $1,000,000 combined single limit each automobile accident or loss.
E. $1,000,000 per accident for bodily injury or occupational disease of Contractor’s employees

Coverages and Minimums: Owner’s review, specification or approval of the insurance in this Contract or of its coverage or amount shall not relieve or decrease the liability of Contractor under the Contract Documents or otherwise. Coverages are the minimum to be provided and are not limitations of liability under the Contract, indemnification, or applicable law provisions. Contractor may, at its expense, purchase larger coverage amounts.

2.03 PROOF OF INSURANCE COVERAGE

A. Certificate & endorsements required: Prior to commencement of the Work, Contractor shall furnish to Owner completed certificates of insurance coverage and endorsements evidencing compliance with the additional insured, cancellation, and waiver of subrogation requirements.

B. List Project info: All insurance certificates shall name Owner’s Project number and Project title.

C. Policy: In the event of a claim or loss, Contractor shall promptly provide Owner with a complete copy of all applicable policies.

2.04 PAYMENT AND PERFORMANCE BONDS

Conditions for bonds: Payment and performance bonds for 100% of the Contract Award Amount, plus Washington State sales tax, shall be furnished for the Work, using the current version of the Payment Bond and Performance Bond form published by and available from the American Institute of Architects (AIA) – form A312. No payment or performance bond is required if the Contract Sum is $150,000 or less and Contractor requests and the Owner agrees that Owner may, in lieu of the bond, retain 10% of the Contract Sum for the period specified in RCW 39.08.010.

2.05 ALTERNATIVE SURETY

When alternative surety required: Contractor shall promptly furnish payment and performance bonds from an alternative surety if:

A. Owner has a reasonable objection to the surety; or

B. Any surety fails to furnish reports on its financial condition if required by Owner.

2.06 BUILDER’S RISK

A. Owner to buy builder’s risk insurance: Owner shall purchase and maintain builder’s risk insurance in the amount of the Contract Sum, including all Change Orders, for the Work on a replacement cost basis until Substantial Completion. For projects not involving new building construction, an “Installation Floater” is an acceptable substitute for the builder’s risk insurance. The insurance shall cover the interests of Owner, Contractor, and any Subcontractors, as their interests may appear.

B. Losses covered: Builder’s risk insurance shall be placed on an “all risk” basis or equivalent policy form and insure against the perils of fire and extended coverage and physical loss or damage including theft, vandalism, malicious mischief, collapse, false work, flood, wind, temporary buildings, earthquake, debris removal including demolition, and shall cover reasonable compensation for A/E’s services and expenses required as a result of an insured loss. Losses up to the deductible amount shall be the responsibility of Contractor.
C. Waiver of subrogation rights: Owner and Contractor waive all subrogation rights against each other, any Subcontractors, A/E, A/E’s subconsultants, separate contractors described in Section 5.19, if any, and any of their subcontractors, for damages caused by fire or other perils to the extent covered by property insurance obtained pursuant to this Section 2.06 or other property insurance applicable to the Work, except such rights as they have to proceeds of such insurance held by Owner as fiduciary. The policies shall provide such waivers of subrogation by endorsement or otherwise. A waiver of subrogation shall be effective to a Person or entity even though that Person or entity would otherwise have a duty of indemnification, contractual or otherwise, did not pay the insurance premium directly or indirectly, and whether or not the Person or entity had an insurable interest in the property damaged.

PART 3 - TIME AND SCHEDULE

3.01 PROGRESS AND COMPLETION

Contractor to meet schedule: Contractor shall diligently prosecute the Work, with adequate forces, achieve Substantial Completion within the Contract Time, and achieve Final Completion within the time period specified in the Contract Documents. If Contractor fails to perform in a timely manner in accordance with the Contract Documents and, through the fault of Contractor or Subcontractor(s), fails to meet the Progress Schedule, Contractor shall be in default and shall take such steps as may be necessary to immediately improve its progress without change in the Contract Sum or Contract Time.

3.02 CONSTRUCTION SCHEDULE

A. Preliminary Progress Schedule: Unless otherwise provided in Division 1, Contractor shall, within 14 Days after issuance of the Notice to Proceed, submit a preliminary Progress Schedule consistent with the requirements of the Contract Documents. The Progress Schedule shall not exceed time limits specified by the Contract Documents, shall be revised at appropriate intervals as required by the conditions of the Work, and shall show the sequence in which Contractor proposes to perform the Work, and the dates on which Contractor plans to start and finish major portions of the Work, including dates for submission of Submittals per Section 4.03, which shall be coordinated with the Progress Schedule and identify dates for Owner review, and for acquiring materials and equipment.

B. Form of Progress Schedule: Unless otherwise provided in Division 1, the Progress Schedule shall be in the form of a bar chart, or a critical path method analysis, as specified by Owner. The preliminary Progress Schedule may be general, showing the major portions of the Work, with a more detailed Progress Schedule submitted as directed by Owner.

C. Owner comments on Progress Schedule: Owner shall return comments on the preliminary Progress Schedule to Contractor within 14 Days of receipt. Review by Owner of Contractor’s schedule does not constitute an approval or acceptance of Contractor’s construction means, methods, logic or sequencing, or its ability to complete the Work within the Contract Time. Contractor shall revise and resubmit its schedule, as necessary. Owner may withhold a portion of progress payments until a Progress Schedule has been submitted that meets the requirements of this Section 3.02.

D. Monthly updates and compliance with Progress Schedule: Contractor shall utilize and comply with the Progress Schedule. On a monthly basis, or as otherwise directed by Owner, Contractor shall submit an updated Progress Schedule at its own expense to Owner indicating actual progress. If, in the opinion of Owner, Contractor is not in conformance with the Progress Schedule for reasons other than acts of Force Majeure as identified in Section 3.05, Contractor shall take such steps as are necessary to bring the actual completion dates of its work activities into conformance with the Progress Schedule, and if directed by Owner, Contractor shall submit a
E. Contractor to notify Owner of delays: Contractor shall perform the Work in accordance with the most recent Progress Schedule submitted to Owner. Contractor shall promptly notify Owner in writing of any actual or anticipated event that is delaying or could delay achievement of any milestone or performance of any critical path activity of the Work. Contractor shall indicate the expected duration of the delay, the anticipated effect of the delay on the Progress Schedule, and the action being or to be taken to correct the problem. Provision of such Notice does not relieve Contractor of its obligation to complete the Work within the Contract Time.

3.03 OWNER’S RIGHT TO SUSPEND THE WORK FOR CONVENIENCE

A. Owner may suspend Work: Owner may, at its sole discretion, order Contractor, in writing, to suspend all or any part of the Work for up to 90 Days, or for such longer period as mutually agreed.

B. Compliance with suspension; Owner’s options: Upon receipt of a written notice suspending the Work, Contractor shall immediately comply with its terms and take all reasonable steps to minimize the incurrence of cost of performance directly attributable to such suspension. Within a period up to 90 Days after the notice is delivered to Contractor, or within any extension of that period to which the parties shall have agreed, Owner shall either:

1. Cancel the written notice suspending the Work; or

2. Terminate the Work covered by the notice as provided in the termination provisions of Part 9.

C. Resumption of Work: If a written notice suspending the Work is cancelled or the period of the notice or any extension thereof expires, Contractor shall resume Work.

D. Equitable Adjustment for suspensions: Contractor shall be entitled to an equitable adjustment in the Contract Time, or Contract Sum, or both, for increases in the time or cost of performance directly attributable to such suspension, provided Contractor complies with all requirements set forth in Part 7.

3.04 OWNER’S RIGHT TO STOP AND/OR CARRY OUT THE WORK FOR CAUSE

A. Owner may stop Work for Contractor’s failure to perform: If Contractor fails or refuses to perform its obligations in accordance with the Contract Documents, Owner may order Contractor, in writing, to stop the Work, or any portion thereof, until Owner has accepted satisfactory corrective action.

B. Owner may carry out the Work after Contractor’s failure to perform: If Contractor defaults or neglects to carry out the Work in accordance with the Contract Documents and fails within a 14-Day period after receipt of written Notice from Owner to commence and continue to make reasonable progress toward the correction of such default or neglect with diligence and promptness, Owner may, without prejudice to other remedies Owner may have, correct such deficiencies, and an appropriate Change Order shall be issued deducting from payments then or thereafter due Contractor the reasonable cost of correcting the deficiencies, including Owner’s expenses and compensation for A/E’s additional services made necessary by the default, neglect or failure. If payments then or thereafter due Contractor are not sufficient to cover such amounts, Contractor shall pay the difference to Owner.
C. No equitable adjustment for Contractor’s failure to perform: Contractor shall not be entitled to an equitable adjustment in the Contract Time or Contract Sum for any increased cost or time of performance attributable to Contractor’s failure or refusal to perform or from any reasonable remedial action taken by Owner based upon such failure.

3.05 DELAY

A. Force Majeure actions not a default; Force Majeure defined: Any delay in or failure of performance by Owner or Contractor shall not constitute a default if and to the extent the cause for such delay or failure of performance was unforeseeable and beyond the control of the party. Acts of Force Majeure include, but are not limited to:

1. Acts of God or the public enemy;
2. Acts or omissions of any government entity not the fault of Owner or Contractor;
3. Fire or other casualty for which Contractor is not responsible;
4. Quarantine or epidemic;
5. Industry-wide strike or defensive lockout;
6. Unusually severe weather conditions which could not have been reasonably anticipated; and
7. Unusual delay in receipt of supplies or products which were ordered and expedited and for which no substitute reasonably acceptable to Owner was available.

a. “Unusually severe weather” shall mean weather conditions that are abnormal for the period of time for which Force Majeure is claimed, that could not reasonably have been anticipated or avoided, and that had an adverse effect on the Progress Schedule. Neither the Contract Time nor the Contract Sum will be adjusted for normal inclement weather or if the Work was behind schedule (unless behind schedule for a reason not the responsibility of the Contractor) at the time the unusually severe weather occurred. The Contractor shall be entitled to a change in the Contract Time only (but not a change in the Contract Sum) if the Contractor can substantiate to the reasonable satisfaction of the Owner that there was unusually severe weather as compared to normal using a ten (10) year average of accumulated record mean values from climatological data compiled by the U.S. Department of Commerce National Oceanic and Atmospheric Administration for the locale closest to the Project, and that the abnormal inclement weather actually impacted and extended the critical path of the Work. Unusual is defined as a 10-year weather event of either or both precipitation or temperature extremes that fall outside the upper and lower ranges within a 10-year periodicity.

B. Contract Time adjustment for Force Majeure: Contractor shall be entitled to an equitable adjustment in the Contract Time for changes in the time of performance directly attributable to an act of Force Majeure, provided it makes a request for equitable adjustment. Contractor shall not be entitled to an adjustment in the Contract Sum resulting from an act of Force Majeure.

C. Contract Time or Contract Sum adjustment if Owner at fault: Contractor shall be entitled to an equitable adjustment in Contract Time, and may be entitled to an equitable adjustment in
Contract Sum, if the cost or time of Contractor’s performance is changed due to the fault or negligence of Owner, provided the Contractor makes a request for equitable adjustment.

D. No Contract Time or Contract Sum adjustment if Contractor at fault: Contractor shall not be entitled to an adjustment in Contract Time or in the Contract Sum for any delay or failure of performance to the extent such delay or failure was caused by Contractor or anyone for whose acts Contractor is responsible.

E. Contract Time adjustment only for concurrent fault: To the extent any delay or failure of performance was concurrently caused by the Owner and Contractor, Contractor shall be entitled to an adjustment in the Contract Time for that portion of the delay or failure of performance that was concurrently caused, provided it makes a request for equitable adjustment, but shall not be entitled to an adjustment in Contract Sum.

F. Contractor to mitigate delay impacts: Contractor shall make all reasonable efforts to prevent and mitigate the effects of any delay, whether occasioned by an act of Force Majeure or otherwise. Contractor shall not recover damages, an equitable adjustment or an increase in the Contract Sum or Contract Time from Owner where Contractor could have reasonably avoided the delay by the exercise of due diligence.

G. Types of damages permitted: If Contractor and its Subcontractors are entitled to a change in the Contract Sum, the amount of the change shall be the actual costs incurred by the Contractor and Subcontractors directly related to the change calculated in accordance with Section 7.02. Contractor and its Subcontractors shall not otherwise (not reflected by the actual costs incurred as calculated in accordance with Section 7.02) be entitled to damages arising out of actual or alleged loss of efficiency; morale, fatigue, attitude, or labor rhythm; constructive acceleration; home office overhead; expectant underrun; trade stacking; reassignment of workers; rescheduling of Work, concurrent operations; dilution of supervision; learning curve; beneficial or joint occupancy; logistics; ripple; season change; extended overhead; profit upon damages for delay; impact damages including cumulative impacts; or similar damages. Any effect that such alleged events may have on Contractor or its Subcontractors, to the extent not otherwise paid, is subsumed in and fully compensated through the percentage Fee on Change Orders paid through Section 7.02A.3.e and any liquidated damages paid hereunder.

3.06 NOTICE TO OWNER OF LABOR DISPUTES

A. Contractor to notify Owner of labor disputes: If Contractor has knowledge that any actual or potential labor dispute is delaying or threatens to delay timely performance in accordance with the Contract Documents, Contractor shall immediately give notice, including all relevant information, to Owner.

B. Pass through notification provisions to Subcontractors: Contractor agrees to insert a provision in its Subcontracts and to require insertion in all sub-subcontracts, that in the event timely performance of any such contract is delayed or threatened by delay by any actual or potential labor dispute, the Subcontractor or Sub-subcontractor shall immediately notify the next higher tier Subcontractor or Contractor, as the case may be, of all relevant information concerning the dispute.

3.07 DAMAGES FOR FAILURE TO ACHIEVE TIMELY COMPLETION

A. Liquidated Damages:

1. Reason for Liquidated Damages: Timely performance and completion of the Work is essential to Owner and time limits stated in the Contract Documents are of the essence.
Owner will incur serious and substantial damages if Substantial Completion of the Work does not occur within the Contract Time. However, it would be difficult if not impossible to determine the exact amount of such damages. Consequently, provisions for liquidated damages are included in the Contract Documents.

2. Calculation of Liquidated Damages amount: The liquidated damage amounts set forth in the Contract Documents will be assessed not as a penalty, but as liquidated damages for breach of the Contract Documents. This amount is fixed and agreed upon by and between the Contractor and Owner because of the impracticability and extreme difficulty of fixing and ascertaining the actual damages the Owner would in such event sustain. This amount shall be construed as the actual amount of damages sustained by the Owner, and may be retained by the Owner and deducted from periodic payments to the Contractor.

3. Contractor responsible even if Liquidated Damages assessed: Assessment of liquidated damages shall not release Contractor from any obligations or liabilities pursuant to the Contract Documents. If Contractor substantially fails to perform in a timely manner in accordance with the Contract Documents and, through the fault of Contractor or Subcontractor(s), fails to achieve Substantial Completion within the Contract Time, Contractor shall be in default.

B. Actual Damages: If no liquidated damages are established, actual damages may be assessed for failure to achieve both Substantial Completion and Final Completion within the time provided. Actual damages will be calculated on the basis of direct architectural, administrative, and other related costs attributable to the Project from the date when Substantial and/or Final Completion should have been achieved, as applicable. Owner may offset these costs against any payment due Contractor.

PART 4 - SPECIFICATIONS, DRAWINGS, AND OTHER DOCUMENTS

4.01 DISCREPANCIES AND CONTRACT DOCUMENT REVIEW

A. Specifications and Drawings are basis of the Work: The intent of the Specifications and Drawings is to describe a complete Project to be constructed in accordance with the Contract Documents. Contractor shall furnish all labor, materials, equipment, tools, transportation, permits, and supplies, and perform the Work required in accordance with the Drawings, Specifications, and other provisions of the Contract Documents.

B. Parts of the Contract Documents are complementary: The Contract Documents are complementary. What is required by one part of the Contract Documents shall be binding as if required by all. Anything mentioned in the Specifications and not shown on the Drawings, or shown on the Drawings and not mentioned in the Specifications, shall be of like effect as if shown or mentioned in both.

C. Contractor to report discrepancies in Contract Documents: Contractor shall carefully study and compare the Contract Documents with each other and with information furnished by Owner. If, during the performance of the Work, Contractor finds a conflict, error, inconsistency, or omission in the Contract Documents, it shall promptly and before proceeding with the Work affected thereby, report such conflict, error, inconsistency, or omission to A/E in writing.

D. Contractor knowledge of discrepancy in documents – responsibility: Contractor shall do no Work without applicable Drawings, Specifications, and, where required, accepted shop drawings and other Submittals, unless instructed to do so in writing by Owner. If Contractor performs any construction activity, and it knows or reasonably should have known that any of the Contract
Documents contain a conflict, error, inconsistency, or omission, Contractor shall be responsible for the performance and shall bear the cost for its correction.

E. **Contractor to perform Work implied by Contract Documents**: Contractor shall provide any work or materials the provision of which is clearly implied and is within the scope of the Contract Documents even if the Contract Documents do not mention them specifically.

F. **Interpretation questions referred to A/E**: Questions regarding interpretation of the requirements of the Contract Documents shall be referred to the A/E.

### 4.02 PROJECT RECORD

A. **Contractor to maintain Project Record Drawings and Specifications**: Contractor shall legibly mark in ink on a separate set of the Drawings and Specifications all actual construction, including depths of foundations, horizontal and vertical locations of internal and underground utilities and appurtenances referenced to permanent visible and accessible surface improvements, field changes of dimensions and details, actual suppliers, manufacturers and trade names, models of installed equipment, changes made to the building enclosure, and Change Order Proposals. This separate set of Drawings and Specifications shall be the “Project Record.” The Project Record shall include all Architectural, Mechanical, Electrical, Structural and Civil as-built drawings, whether or not any changes occur and shall also include Addenda, Change Orders, WDs and other modifications to the Contract, in good order and marked currently to indicate field changes and selections made during construction, as well as one copy of accepted shop drawings, product data, samples and other required Submittals.

B. **Update Project Record weekly and keep on site**: The Project Record shall be maintained on the Project site throughout the construction and shall be clearly labeled “PROJECT RECORD.” The Project Record shall be available to A/E and Owner at all times. The Project Record shall be updated at least weekly noting all changes and shall be available to Owner at all times.

C. **Final Project Record to A/E before Final Acceptance**: Contractor shall submit the completed and finalized Project Record to A/E prior to Final Acceptance.

### 4.03 SUBMITTALS

A. **Definition of Submittals**: “Submittals” means documents and other information required to be submitted to A/E by Contractor pursuant to the Contract Documents, showing in detail: the proposed fabrication and assembly of structural elements; and the installation (i.e. form, fit, and attachment details) of materials and equipment. Submittals can include, but are not limited to, drawings, diagrams, layouts, schematics, descriptive literature, illustrations, schedules, performance and test data, samples, and similar materials furnished by Contractor to explain in detail specific portions of the Work required by the Contract Documents. For materials and equipment to be incorporated into the Work, Contractor submittal shall include the name of the manufacturer, the model number, and other information concerning the performance, capacity, nature, and rating of the item. When directed, Contractor shall submit all samples at its own expense. Owner may duplicate, use, and disclose Submittals provided in accordance with the Contract Documents.

B. **Approval of Submittals by Contractor and A/E**: Contractor shall coordinate all Submittals with the Progress Schedule per Section 3.02A, shall review them for accuracy, completeness, and compliance with the Contract Documents, and shall indicate its approval thereon as evidence of such coordination and review. Where required by law, Submittals shall be stamped by an appropriate professional licensed by the state of Washington. Submittals submitted to A/E without evidence of Contractor's approval shall be returned for resubmission. Contractor shall
review, approve, and submit Submittals with reasonable promptness and in such sequence as to
cause no delay in the Work or in the activities of Owner or separate contractors. Contractor’s
submittal schedule shall allow a reasonable time for A/E review. A/E will review, approve, or take
other appropriate action on the Submittals. Contractor shall perform no portion of the Work
requiring submittal and review of Submittals until the respective submittal has been reviewed and
the A/E has approved or taken other appropriate action. Owner and A/E shall respond to
Submittal with reasonable promptness. Any Work by Contractor shall be in accordance with
reviewed Submittals. Submittals made by Contractor which are not required by the Contract
Documents may be returned without action.

C. Contractor not relieved of responsibility when Submittals approved: Approval, or other
appropriate action with regard to Submittals, by Owner or A/E shall not relieve Contractor of
responsibility for any errors or omissions in such Submittals, nor from responsibility for
compliance with the requirements of the Contract Documents. Unless specified in the Contract
Documents, review by Owner or A/E shall not constitute an approval of the safety precautions
employed by Contractor during construction, or constitute an approval of Contractor’s means or
methods of construction. If Contractor fails to obtain approval before installation and the item or
work is subsequently rejected, Contractor shall be responsible for all costs of correction.

D. Variations between Submittals and Contract Documents: Submittals, including product data,
samples and similar submissions, are not Contract Documents. If Submittals vary from the
requirements of the Contract Documents, Contractor shall describe such variations in writing,
separate from the Submittals, at the time it submits the Submittals containing such variations. If
Owner approves any such variation, an appropriate Change Order will be issued. If the variation
is minor and does not involve an adjustment in the Contract Sum or Contract Time, a Change
Order need not be issued; however, the modification shall be approved by Owner in writing and
recorded upon the Project Record. Approval for substitutions shall not be sought and shall not be
approved through the submission of Submittals.

E. Contractor to submit 5 copies of Submittals: Unless otherwise provided in Division 1, Contractor
shall submit to A/E for approval 5 copies of all Submittals. Unless otherwise indicated, 3 sets of
all Submittals shall be retained by A/E and 2 sets shall be returned to Contractor.

4.04 ORGANIZATION OF SPECIFICATIONS

Specification organization by trade: Specifications are prepared in sections which conform generally with
trade practices. These sections are for Owner and Contractor convenience and shall not control
Contractor in dividing the Work among the Subcontractors or in establishing the extent of the Work to be
performed by any trade.

4.05 OWNERSHIP AND USE OF DRAWINGS, SPECIFICATIONS, AND OTHER DOCUMENTS

A. A/E, not Contractor, owns Copyright of Drawings and Specifications: The Drawings,
Specifications, and other documents prepared by A/E are instruments of A/E’s service through
which the Work to be executed by Contractor is described. Neither Contractor nor any
Subcontractor shall own or claim a copyright in the Drawings, Specifications, and other
documents prepared by A/E, and A/E shall be deemed the author of them and will, along with any
rights of Owner, retain all common law, statutory, and other reserved rights, in addition to the
copyright. All copies of these documents, except Contractor’s set, shall be returned or suitably
accounted for to A/E, on request, upon completion of the Work.

B. Drawings and Specifications to be used only for this Project: The Drawings, Specifications, and
other documents prepared by the A/E, and copies thereof furnished to Contractor, are for use
solely with respect to this Project. They are not to be used by Contractor or any Subcontractor on
other projects or for additions to this Project outside the scope of the Work without the specific written consent of Owner and A/E. Contractor and Subcontractors are granted a limited license to use and reproduce applicable portions of the Drawings, Specifications, and other documents prepared by A/E appropriate to and for use in the execution of their Work.

C. License granted to Owner: Contractor and all Subcontractors grant a non-exclusive license to Owner, without additional cost or royalty, to use for its own purposes (including reproduction) all Submittals, together with the information and diagrams contained therein, prepared by Contractor or any Subcontractor. In providing Submittals, Contractor and all Subcontractors warrant that they have authority to grant to Owner a license to use the Submittals, and that such license is not in violation of any copyright or other intellectual property right. Contractor agrees to defend and indemnify Owner pursuant to the indemnity provisions in Section 5.03 and 5.22 from any violations of copyright or other intellectual property rights arising out of Owner's use of the Submittals hereunder, or to secure for Owner, at Contractor's own cost, licenses in conformity with this section.

D. Submittals to be used only for this Project: Submittals prepared by Contractor, Subcontractors of any tier, or its or their equipment or material suppliers, and copies thereof furnished to Contractor, are for use solely with respect to this Project. They are not to be used by Contractor or any Subcontractor of any tier, or material or equipment supplier, on other projects or for additions to this Project outside the scope of the Work without the specific written consent of Owner. The Contractor, Subcontractors of any tier, and material or equipment suppliers are granted a limited license to use and reproduce applicable portions of the Submittals appropriate to and for use in the execution of their Work under the Contract Documents.

E. Electronic Files: If the parties intend to transmit the instruments of service or any other information or documentation in digital form (other than PDF), they shall endeavor to establish necessary protocols governing such transmissions, unless otherwise already provided in the Contract Documents.

PART 5 - PERFORMANCE

5.01 CONTRACTOR CONTROL AND SUPERVISION

A. Contractor responsible for Means and Methods of construction: Contractor shall supervise and direct the Work, using its best skill and attention, and shall perform the Work in a skillful manner. Contractor shall be solely responsible for and have control over construction means, methods, techniques, sequences, and procedures and for coordinating all portions of the Work, unless the Contract Documents give other specific instructions concerning these matters. Contractor shall disclose its means and methods of construction when requested by Owner.

B. Competent superintendent required: Contractor, as soon as practicable after award of the Contract, shall furnish in writing to Owner the name and qualifications of its proposed superintendent. Owner may reply within 14 Days to Contractor in writing stating (1) whether Owner has reasonable objection to the proposed superintendent or (2) that Owner requires additional time to review. Failure of Owner to reply within the 14-Day period shall constitute Notice of no reasonable objection. The superintendent shall not be employed on any other project during the course of the Work. Unless approved by the Owner's representative and only when overseeing projects on the same campus or location where oversite and supervision will not be degraded. Performance of the Work shall be directly supervised by a competent superintendent who shall be in attendance at the Project site during performance of the Work and who has authority to act on behalf of Contractor. Communications given to the superintendent shall be as binding as if given to Contractor. The superintendent must be satisfactory to Owner and shall not be changed without the prior written consent of Owner. Owner may require
Contractor to remove the superintendent from the Work or Project site, if Owner reasonably deems the superintendent incompetent, careless, or otherwise objectionable, provided Owner has first notified Contractor in writing and allowed a reasonable period for transition.

C. **Contractor responsible for acts and omissions of self and agents:** Contractor shall be responsible to Owner for acts and omissions of Contractor, Subcontractors, and their employees and agents.

D. **Contractor to employ competent and disciplined workforce:** Contractor shall enforce strict discipline and good order among all of the Contractor’s employees and other persons performing the Work. Contractor shall not permit employment of persons not skilled in tasks assigned to them. Contractor’s employees shall at all times conduct business in a manner which assures fair, equal, and nondiscriminatory treatment of all persons. Owner may, by written notice, request Contractor to remove from the Work or Project site any employee Owner reasonably deems incompetent, careless, or otherwise objectionable.

E. **Contractor to keep project documents on site:** Contractor shall keep on the Project site a copy of the Drawings, Specifications, addenda, reviewed Submittals, and permits and permit drawings.

F. **Contractor to comply with ethical standards:** Contractor shall ensure that its owner(s) and employees, and those of its Subcontractors, comply with the Ethics in Public Service Act RCW 42.52, which, among other things, prohibits state employees from having an economic interest in any public works contract that was made by, or supervised by, that employee. Contractor shall remove, at its sole cost and expense, any of its, or its Subcontractors’ employees, if they are in violation of this act.

### 5.02 PERMITS, FEES, AND NOTICES

A. **Contractor to obtain and pay for permits:** Unless otherwise provided in the Contract Documents, Contractor shall secure and pay for the building, any land use permits and all other permits, licenses, and inspections necessary for proper execution and completion of the Work. Prior to Final Acceptance, the approved, signed permits shall be delivered to Owner.

B. **Allowances for permit fees:** If allowances for permits or utility fees are called for in the Contract Documents and set forth in Contractor’s bid, and the actual costs of those permits or fees differ from the allowances in the Contract Documents, the difference shall be adjusted by Change Order.

C. **Contractor to comply with all applicable laws:** Contractor shall comply with and give notices required by all federal, state, and local laws, ordinances, rules, regulations, and lawful orders of public authorities applicable to performance of the Work.

D. **Taxes:** Contractor shall pay sales, consumer, use, business and occupation, income and similar taxes for the Work that are legally enacted when the initial Contract Sum is agreed.

### 5.03 PATENTS AND ROYALTIES

Payment, indemnification, and notice: Contractor is responsible for, and shall pay, all royalties and license fees. Contractor shall defend, indemnify, and hold Owner harmless from any costs, expenses, and liabilities arising out of the infringement by Contractor of any patent, copyright, or other intellectual property right used in the Work; however, provided that Contractor gives prompt notice, Contractor shall not be responsible for such defense or indemnity when a particular design, process, or product of a particular manufacturer or manufacturers is required by the Contract Documents. If Contractor has reason to believe that use of the required design, process, or product constitutes an infringement of a patent or copyright, it shall promptly notify Owner of such potential infringement.
5.04 PREVAILING WAGES

A. Contractor to pay Prevailing Wages: Contractor shall pay the prevailing rate of wages to all workers, laborers, or mechanics employed in the performance of any part of the Work in accordance with RCW 39.12 and the rules and regulations of the Department of Labor and Industries. The schedule of prevailing wage rates for the locality or localities of the Work, is determined by the Industrial Statistician of the Department of Labor and Industries. It is the Contractor's responsibility to verify the applicable prevailing wage rate.

B. Statement of Intent to Pay Prevailing Wages: Before payment is made by the Owner to the Contractor for any work performed by the Contractor and subcontractors whose work is included in the application for payment, the Contractor shall submit, or shall have previously submitted to the Owner for the Project, a Statement of Intent to Pay Prevailing Wages, approved by the Department of Labor and Industries, certifying the rate of hourly wage paid and to be paid each classification of laborers, workers, or mechanics employed upon the Work by Contractor and Subcontractors. Such rates of hourly wage shall not be less than the prevailing wage rate.

C. Affidavit of Wages Paid: Prior to release of retainage, the Contractor shall submit to the Owner an Affidavit of Wages Paid, approved by the Department of Labor and Industries, for the Contractor and every subcontractor that performed work on the Project.

D. Disputes: Disputes regarding prevailing wage rates shall be referred for arbitration to the Director of the Department of Labor and Industries. The arbitration decision shall be final and conclusive and binding on all parties involved in the dispute as provided for by RCW 39.12.060.

E. Statement with pay application; Post Statements of Intent at job site: Each Application for Payment submitted by Contractor shall state that prevailing wages have been paid in accordance with the prefilled statement(s) of intent, as approved. Copies of the approved intent statement(s) shall be posted on the job site with the address and telephone number of the Industrial Statistician of the Department of Labor and Industries where a complaint or inquiry concerning prevailing wages may be made.

F. Contractor to pay for Statements of Intent and Affidavits: In compliance with chapter 296-127 WAC, Contractor shall pay to the Department of Labor and Industries the currently established fee(s) for each statement of intent and/or affidavit of wages paid submitted to the Department of Labor and Industries for certification.

G. Certified Payrolls: Consistent with WAC 296-127-320, the Contractor and any subcontractor shall submit a certified copy of payroll records if requested.

5.05 HOURS OF LABOR

A. Overtime: Contractor shall comply with all applicable provisions of RCW 49.28 and they are incorporated herein by reference.

5.06 NONDISCRIMINATION

A. Discrimination prohibited by applicable laws: Discrimination in all phases of employment is prohibited by, among other laws and regulations, Title VII of the Civil Rights Act of 1964, the Vietnam Era Veterans Readjustment Act of 1974, Sections 503 and 504 of the Vocational Rehabilitation Act of 1973, the Equal Employment Act of 1972, the Age Discrimination Act of 1967, the Americans with Disabilities Act of 1990, the Civil Rights Act of 1991, Presidential Executive Order 11246, Executive Order 11375, the Washington State Law Against Discrimination, RCW 49.60, and Gubernatorial Executive Order 85-09. These laws and
regulations establish minimum requirements for affirmative action and fair employment practices which Contractor must meet.

B. During performance of the Work:

1. **Protected Classes:** Contractor shall not discriminate against any employee or applicant for employment because of race, creed, color, national origin, sex, age, marital status, or the presence of any physical, sensory, or mental disability, Vietnam era veteran status, or disabled veteran status, nor commit any other unfair practices as defined in RCW 49.60.

2. **Advertisements to state nondiscrimination:** Contractor shall, in all solicitations or advertisements for employees placed by or for it, state that all qualified applicants will be considered for employment, without regard to race, creed, color, national origin, sex, age, marital status, or the presence of any physical, sensory, or mental disability.

3. **Contractor to notify unions and others of nondiscrimination:** Contractor shall send to each labor union, employment agency, or representative of workers with which it has a collective bargaining agreement or other contract or understanding, a notice advising the labor union, employment agency, or workers' representative of Contractor's obligations according to the Contract Documents and RCW 49.60.

4. **Owner and State access to Contractor records:** Contractor shall permit access to its books, records, and accounts, and to its premises by Owner, and by the Washington State Human Rights Commission, for the purpose of investigation to ascertain compliance with this section of the Contract Documents.

5. **Pass through provisions to Subcontractors:** Contractor shall include the provisions of this section in every Subcontract.

5.07 **SAFETY PRECAUTIONS**

A. **Contractor responsible for safety:** Contractor shall be responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the performance of the Work. Contractor shall be solely and completely responsible for conditions of the Project site, including safety of all persons and property, during performance of the Work. Contractor shall maintain the Project site and perform the Work in a manner that meets statutory and common-law requirements for the provision of a safe place to work. This requirement shall apply continuously and not be limited to working hours. Any review by Owner or A/E of Contractor's performance shall not be construed to include a review of the adequacy of Contractor's safety measures in, on or near the site of the Work.

B. **Contractor safety responsibilities:** In carrying out its responsibilities according to the Contract Documents, Contractor shall protect the lives and health of employees performing the Work and other persons who may be affected by the Work; prevent damage to materials, supplies, and equipment whether on site or stored off-site; and prevent damage to other property at the site or adjacent thereto. Contractor shall comply with all applicable laws, ordinances, rules, regulations, and orders of any public body having jurisdiction for the safety of persons or property or to protect them from damage, injury, or loss; shall erect and maintain all necessary safeguards for such safety and protection; and shall notify owners of adjacent property and utilities when prosecution of the Work may affect them.

C. **Contractor to maintain safety records:** Contractor shall maintain an accurate record of exposure data on all incidents relating to the Work resulting in death, traumatic injury, occupational disease, or damage to property, materials, supplies, or equipment. Contractor shall immediately report
any such incident to Owner. Owner shall, at all times, have a right of access to all records of exposure.

D. Contractor to provide HazMat training: Contractor shall provide all persons working on the Project site with information and training on hazardous chemicals in their work at the time of their initial assignment, and whenever a new hazard is introduced into their work area.

1. Information. At a minimum, Contractor shall inform persons working on the Project site of:

   a. WAC: The requirements of chapter 296-62 WAC, General Occupational Health Standards;

   b. Presence of hazardous chemicals: Any operations in their work area where hazardous chemicals are present; and

   c. Hazard communications program: The location and availability of written hazard communication programs, including the required list(s) of hazardous chemicals and material safety data sheets required by chapter 296-62 WAC.

2. Training. At a minimum, Contractor shall provide training for persons working on the Project site which includes:

   a. Detecting hazardous chemicals: Methods and observations that may be used to detect the presence or release of a hazardous chemical in the work area (such as monitoring conducted by the employer, continuous monitoring devices, visual appearance or odor of hazardous chemicals when being released, etc.);

   b. Hazards of chemicals: The physical and health hazards of the chemicals in the work area;

   c. Protection from hazards: The measures such persons can take to protect themselves from these hazards, including specific procedures Contractor, or its Subcontractors, or others have implemented to protect those on the Project site from exposure to hazardous chemicals, such as appropriate work practices, emergency procedures, and personal protective equipment to be used; and

   d. Hazard communications program: The details of the hazard communications program developed by Contractor, or its Subcontractors, including an explanation of the labeling system and the material safety data sheet, and how employees can obtain and use the appropriate hazard information.

E. Hazardous, toxic or harmful substances: Contractor’s responsibility for hazardous, toxic, or harmful substances shall include the following duties:

1. Illegal use of dangerous substances: Contractor shall not keep, use, dispose, transport, generate, or sell on or about the Project site, any substances now or hereafter designated as, or which are subject to regulation as, hazardous, toxic, dangerous, or harmful by any federal, state or local law, regulation, statute or ordinance (hereinafter collectively referred to as “hazardous substances”), in violation of any such law, regulation, statute, or ordinance, but in no case shall any such hazardous substance be stored more than 90 Days on the Project site.
2. **Contractor notifications of spills, failures, inspections, and fines:** Contractor shall promptly notify Owner of all spills or releases of any hazardous substances which are otherwise required to be reported to any regulatory agency and pay the cost of cleanup. Contractor shall promptly notify Owner of all failures to comply with any federal, state, or local law, regulation, or ordinance; all inspections of the Project site by any regulatory entity concerning the same; all regulatory orders or fines; and all responses or interim cleanup actions taken by or proposed to be taken by any government entity or private party on the Project site.

F. **Public safety and traffic:** All Work shall be performed with due regard for the safety of the public. Contractor shall perform the Work so as to cause a minimum of interruption of vehicular traffic or inconvenience to pedestrians. All arrangements to care for such traffic shall be Contractor’s responsibilities. All expenses involved in the maintenance of traffic by way of detours shall be borne by Contractor.

G. **Contractor to act in an emergency:** In an emergency affecting the safety of life or the Work or of adjoining property, Contractor is permitted to act, at its discretion, to prevent such threatened loss or injury, and Contractor shall so act if so authorized or instructed.

H. **No duty of safety by Owner or A/E:** Nothing provided in this Section 5.07 shall relieve Contractor of sole and complete responsibility for safety at the Project site, for sole and complete responsibility for any violation of safety or property protection requirements or the correction thereof, or impose any duty upon Owner or A/E with regard to, or as constituting any express or implied assumption of control or responsibility over, any other safety conditions relating to employees or agents of Contractor or any of its Subcontractors, or the public. Any Notice Owner or A/E gives to Contractor of a safety or property protection violation will not: (1) relieve Contractor of sole and complete responsibility for the violation and the correction thereof, or for sole liability for the consequences of said violation; (2) impose any obligation upon Owner or A/E to inspect or review Contractor’s safety program or precautions or to enforce Contractor’s compliance with the requirements of this Section 5.07; or (3) impose any continuing obligation upon Owner or A/E to provide such Notice to Contractor or any other persons or entity.

5.08 **OPERATIONS, MATERIAL HANDLING, AND STORAGE AREAS**

A. **Limited storage areas:** Contractor shall confine all operations, including storage of materials, to Owner-approved areas.

B. **Temporary buildings and utilities at Contractor expense:** Temporary buildings (e.g., storage sheds, shops, offices) and utilities may be provided by Contractor only with the consent of Owner and without expense to Owner. The temporary buildings and utilities shall be removed by Contractor at its expense upon completion of the Work.

C. **Roads and vehicle loads:** Contractor shall use only established roadways or temporary roadways authorized by Owner. When materials are transported in prosecuting the Work, vehicles shall not be loaded beyond the loading capacity recommended by the manufacturer of the vehicle or prescribed by federal, state, or local law or regulation.

D. **Ownership and reporting by Contractor of demolished materials:** Ownership and control of all materials or facility components to be demolished or removed from the Project site by Contractor shall immediately vest in Contractor upon severance of the component from the facility or severance of the material from the Project site. Contractor shall be responsible for compliance with all laws governing the storage and ultimate disposal. Contractor shall provide Owner with a copy of all manifests and receipts evidencing proper disposal when required by Owner or applicable law.
E. Contractor responsible for care of materials and equipment on-site: Contractor shall be responsible for the proper care and protection of its materials and equipment delivered to the Project site. Materials and equipment may be stored on the premises subject to approval of Owner. When Contractor uses any portion of the Project site as a shop, Contractor shall be responsible for any repairs, patching, or cleaning arising from such use.

F. Contractor responsible for loss of materials and equipment: Contractor shall protect and be responsible for any damage or loss to the Work, or to the materials or equipment until the date of Substantial Completion, and shall repair or replace without cost to Owner any damage or loss that may occur, except damages or loss caused by the acts or omissions of Owner. Contractor shall also protect and be responsible for any damage or loss to the Work, or to the materials or equipment, after the date of Substantial Completion, and shall repair or replace without cost to Owner any such damage or loss that might occur, to the extent such damages or loss are caused by the acts or omissions of Contractor, or any Subcontractor.

5.09 PRIOR NOTICE OF EXCAVATION

A. Excavation defined; Use of locator services: “Excavation” means an operation in which earth, rock, or other material on or below the ground is moved or otherwise displaced by any means, except the tilling of soil less than 12 inches in depth for agricultural purposes, or road ditch maintenance that does not change the original road grade or ditch flow line. Before commencing any excavation, Contractor shall provide notice of the scheduled commencement of excavation to all owners of underground facilities or utilities, through locator services.

5.10 UNFORESEEN PHYSICAL CONDITIONS

A. Notice requirement for concealed or unknown conditions: If Contractor encounters conditions at the site which are subsurface or otherwise concealed physical conditions which differ materially from those indicated in the Contract Documents, or unknown physical conditions of an unusual nature which differ materially from those ordinarily found to exist and generally recognized as inherent in construction activities of the character provided for in the Contract Documents, then Contractor shall give written notice to Owner promptly and in no event later than 7 Days after the first observance of the conditions. Conditions shall not be disturbed prior to such notice.

B. Adjustment in Contract Time and Contract Sum: If such conditions differ materially and cause a change in Contractor’s cost of, or time required for, performance of any part of the Work, the Contractor may be entitled to an equitable adjustment in the Contract Time or Contract Sum, or both, provided it makes a request therefore as provided in Part 7.

5.11 PROTECTION OF EXISTING STRUCTURES, EQUIPMENT, VEGETATION, UTILITIES AND IMPROVEMENTS

A. Contractor to protect and repair property: At all times until Owner’s occupancy of the Work or a designated portion of the Work, Contractor shall protect the Work from damage, weather, deterioration, theft, vandalism and malicious mischief and shall bear the risk of any uninsured loss or destruction of, or injury or damage to, all materials, equipment, tools, and other items incorporated or to be incorporated in the Work or designated portion, or consumed or used in the performance of the Work or designated portion, including all Work in process and completed Work. Contractor shall protect from damage all existing structures, equipment, improvements, utilities, streets, curbs, walks and vegetation at or near the Project site or on adjacent property of a third party, the locations of which are made known to or should be known by Contractor. Contractor shall repair any damage, including that to the property of a third party, resulting from failure to comply with the requirements of the Contract Documents or failure to exercise reasonable care in performing the Work. If Contractor fails or refuses to repair the damage...
promptly, Owner may have the necessary work performed and charge the cost to Contractor. If a governmental authority having jurisdiction requires that the repairing and patching be done with its own labor and/or materials, Contractor shall abide by such regulations, and it shall pay for this work at no additional cost to Owner.

B. Tree and vegetation protection: Contractor shall only remove trees when specifically authorized to do so, and shall protect vegetation that will remain in place.

C. Special site conditions: If, in the course of the Work, Contractor encounters human remains or recognizes the existence of burial markers, archaeological sites or wetlands not indicated in the Contract Documents, Contractor shall immediately suspend any operations that would affect them and shall notify Owner and A/E. Upon receipt of such Notice, Owner shall promptly take any action necessary to obtain governmental authorization required to resume the operations. Contractor shall continue to suspend these operations until otherwise instructed by Owner but shall continue with all other operations that do not affect those remains or features. Requests for adjustments in the Contract Sum and Contract Time arising from the existence of such remains or features may be made as provided in Part 8.

5.12 LAYOUT OF WORK

A. Advanced planning of the Work: Contractor shall plan and lay out the Work in advance of operations so as to coordinate all work without delay or revision.

B. Layout responsibilities: Contractor shall lay out the Work from Owner-established baselines and bench marks indicated on the Drawings, and shall be responsible for all field measurements in connection with the layout. Contractor shall furnish, at its own expense, all stakes, templates, platforms, equipment, tools, materials, and labor required to lay out any part of the Work. Contractor shall be responsible for executing the Work to the lines and grades that may be established. Contractor shall be responsible for maintaining or restoring all stakes and other marks established.

5.13 MATERIAL AND EQUIPMENT

A. Contractor to provide new and equivalent equipment and materials: All equipment, material, and articles incorporated into the Work shall be new and of the most suitable grade for the purpose intended, unless otherwise specifically provided in the Contract Documents. References in the Specifications to equipment, material, articles, or patented processes by trade name, make, or catalog number, shall be regarded as establishing a standard quality and shall not be construed as limiting competition. Contractor may, at its option, use any equipment, material, article, or process that, in the judgment of A/E and after submittal and approval of a substitute request, is equal to that named in the Specifications, unless otherwise specifically provided in the Contract Documents.

B. Contractor responsible for fitting parts together: Contractor shall do all cutting, fitting, or patching that may be required to complete the Work or to make its several parts fit together properly, or receive or be received by work of others set forth in, or reasonably implied by, the Contract Documents. Contractor shall not damage or endanger any work of Owner or separate contractors by cutting, excavating, or otherwise altering the Work and shall not cut or alter the work of any other contractor unless approved in advance by Owner. Contractor shall restore all areas requiring cutting, fitting and patching to the condition existing prior to the cutting, fitting and patching, unless otherwise required by the Contract Documents.

C. Owner may reject defective Work: Should any of the Work be found defective, or in any way not in accordance with the Contract Documents, this Work, in whatever stage of completion, may be
rejected by Owner. However, neither this authority of Owner nor a decision made either to exercise or not to exercise such authority shall give rise to a duty or responsibility of Owner or its representatives to Contractor, Subcontractors, their agents or employees, or other persons or entities performing portions of the Work.

5.14 AVAILABILITY AND USE OF UTILITY SERVICES

A. Owner to provide and charge for utilities: Owner shall make all reasonable utilities available to Contractor from existing outlets and supplies, as specified in the Contract Documents. Unless otherwise provided in the Contract Documents, the utility service consumed shall be charged to or paid for by Contractor at prevailing rates charged to Owner or, where the utility is produced by Owner, at reasonable rates determined by Owner. Contractor will carefully conserve any utilities furnished.

B. Contractor to install temporary connections and meters: Contractor shall, at its expense and in a skillful manner satisfactory to Owner, install and maintain all necessary temporary connections and distribution lines, together with appropriate protective devices, and all meters required to measure the amount of each utility used for the purpose of determining charges. Prior to the date of Final Acceptance, Contractor shall remove all temporary connections, distribution lines, meters, and associated equipment and materials.

5.15 TESTS AND INSPECTION

A. Contractor to provide for all testing and inspection of Work: Contractor shall maintain an adequate testing and inspection program and perform such tests and inspections as are necessary or required to ensure that the Work conforms to the requirements of the Contract Documents. Contractor shall be responsible for inspection and quality surveillance of all its Work and all Work performed by any Subcontractor. Unless otherwise provided, Contractor shall make arrangements for such tests, inspections, and approvals with an independent testing laboratory or entity acceptable to Owner, or with the appropriate public authority, and shall bear all related costs of tests, inspections, and approvals. Contractor shall give Owner timely notice of when and where tests and inspections are to be made. Contractor shall maintain complete inspection records and make them available to Owner.

B. Owner may conduct tests and inspections: Owner may, at any reasonable time, conduct such inspections and tests as it deems necessary to ensure that the Work is in accordance with the Contract Documents. Owner shall promptly notify Contractor if an inspection or test reveals that the Work is not in accordance with the Contract Documents. Unless the subject items are expressly accepted by Owner, such Owner inspection and tests are for the sole benefit of Owner and do not:

1. Constitute or imply acceptance;
2. Relieve Contractor of responsibility for providing adequate quality control measures;
3. Relieve Contractor of responsibility for risk of loss or damage to the Work, materials, or equipment;
4. Relieve Contractor of its responsibility to comply with the requirements of the Contract Documents; or
5. Impair Owner’s right to reject defective or nonconforming items, or to avail itself of any other remedy to which it may be entitled.
C. Inspections or inspectors do not modify Contract Documents: Neither observations by an inspector retained by Owner, the presence or absence of such inspector on the site, nor inspections, tests, or approvals by others, shall relieve Contractor from any requirement of the Contract Documents, nor is any such inspector authorized to change any term or condition of the Contract Documents.

D. Contractor responsibilities on inspections: Contractor shall promptly furnish, without additional charge, all facilities, labor, material and equipment reasonably needed for performing such safe and convenient inspections and tests as may be required by Owner. Owner may charge Contractor any additional cost of inspection or testing when Work is not ready at the time specified by Contractor for inspection or testing, or when prior rejection makes reinspection or retest necessary. Owner shall perform its inspections and tests in a manner that will cause no undue delay in the Work.

5.16 CORRECTION OF NONCONFORMING WORK

A. Work covered by Contractor without inspection: If a portion of the Work is covered contrary to the request of Owner or the requirements in the Contract Documents or a governmental authority having jurisdiction, it must, if required in writing by Owner, be uncovered for Owner’s observation and be replaced at Contractor’s expense and without change in the Contract Sum or Contract Time.

B. Payment provisions for uncovering covered Work: If, at any time prior to Final Completion, Owner desires to examine the Work, or any portion of it, which has been covered, Owner may request to see such Work and it shall be uncovered by Contractor. If such Work is in accordance with the Contract Documents, the Contractor shall be entitled to an adjustment in the Contract Sum for the costs of uncovering and replacement, and, if completion of the Work is thereby delayed, an adjustment in the Contract Time, provided it makes such a request as provided in Part 7. If such Work is not in accordance with the Contract Documents, the Contractor shall pay the costs of examination and reconstruction.

C. Contractor to correct and pay for non-conforming Work: Contractor shall promptly correct Work found by Owner not to conform to the requirements of the Contract Documents, whether observed before or after Substantial Completion and whether or not fabricated, installed, or completed. Contractor shall bear all costs of correcting such nonconforming Work, including additional testing and inspections.

D. Contractor’s compliance with correction and warranty provisions: If, within one year after the date of Substantial Completion of the Work or designated portion thereof, or within one year after the date for commencement of any system warranties established under Section 6.08, or within the terms of any applicable special warranty required by the Contract Documents, any of the Work is found to be not in accordance with the requirements of the Contract Documents, Contractor shall correct it promptly after receipt of written Notice from Owner to do so. Owner shall give such Notice promptly after discovery of the condition. This period of one year shall be extended, with respect to portions of Work first performed after Substantial Completion, by the period of time between Substantial Completion and the actual performance of the Work. Contractor’s duty to correct with respect to Work repaired or replaced shall run for one year from the date of repair or replacement. Obligations under this Section 5.16D shall survive Final Acceptance and are in addition to other warranties provided by contract or law.

E. Contractor to remove non-conforming Work: Contractor shall remove from the Project site portions of the Work which are not in accordance with the requirements of the Contract Documents and are neither corrected by Contractor nor accepted by Owner.
F. **Owner may charge Contractor for non-conforming Work:** If Contractor fails to correct nonconforming Work within a reasonable time after written notice to do so, Owner may replace, correct, or remove the nonconforming Work and charge the cost thereof to the Contractor.

G. **Contractor to pay for damaged Work during correction:** Contractor shall bear the cost of correcting destroyed or damaged Work, whether completed or partially completed, caused by Contractor's correction or removal of Work which is not in accordance with the requirements of the Contract Documents.

H. **No Period of limitation on other requirements:** Nothing contained in this section shall be construed to establish a period of limitation with respect to other obligations which Contractor might have according to the Contract Documents. Establishment of the time period of one year as described in Section 5.16D relates only to the specific obligation of Contractor to correct the Work, and has no relationship to the time within which the Contractor’s obligation to comply with the Contract Documents may be sought to be enforced, including the time within which such proceedings may be commenced.

I. **Owner may accept non-conforming Work and charge Contractor:** If Owner prefers to accept Work which is not in accordance with the requirements of the Contract Documents, Owner may do so instead of requiring its removal and correction, in which case the Contract Sum may be reduced as appropriate and equitable.

5.17 **CLEAN UP**

Contractor to keep site clean and leave it clean: Contractor shall at all times keep the Project site, including hauling routes, infrastructures, utilities, and storage areas, free from accumulations of waste materials. Before completing the Work, Contractor shall remove from the premises its rubbish, tools, scaffolding, equipment, and materials. Upon completing the Work, Contractor shall leave the Project site in a clean, neat, and orderly condition satisfactory to Owner. If Contractor fails to clean up as provided herein, and after reasonable notice from Owner, Owner may do so and the cost thereof shall be charged to Contractor.

5.18 **ACCESS TO WORK**

Owner and A/E access to Work site: Contractor shall provide Owner and A/E access to the Work in progress wherever located.

5.19 **OTHER CONTRACTS**

Owner may award other contracts; Contractor to cooperate: Owner may undertake or award other contracts for additional work at or near the Project site. Owner shall help coordinate the activities of Owner’s own forces and of each separate contractor engaged by Owner with the Work of Contractor, who shall reasonably cooperate with the other contractors and with Owner’s employees and shall carefully adapt scheduling and perform the Work in accordance with these Contract Documents to reasonably accommodate the other work.

5.20 **SUBCONTRACTORS AND SUPPLIERS**

A. **Subcontractor Responsibility:** The Contractor shall include the language of this paragraph in each of its first tier subcontracts, and shall require each of its subcontractors to include the same language of this section in each of their subcontracts, adjusting only as necessary the terms used for the contracting parties. Upon request of the Owner, the Contractor shall promptly provide documentation to the Owner demonstrating that the subcontractor meets the subcontractor responsibility criteria below. The requirements of this paragraph apply to all subcontractors.
regardless of tier. At the time of subcontract execution, the Contractor shall verify that each of its first tier subcontractors meets the following bidder responsibility criteria:

1. Have a current certificate of registration as a contractor in compliance with chapter 18.27 RCW, which must have been in effect at the time of subcontract bid submittal;

2. Have a current Washington Unified Business Identifier (UBI) number;

3. If applicable, have:
   a. Industrial Insurance (workers’ compensation) coverage for the subcontractor’s employees working in Washington, as required in Title 51 RCW;
   b. A Washington Employment Security Department number, as required in Title 50 RCW;
   c. A Washington Department of Revenue state excise tax registration number, as required in Title 82 RCW;
   d. An electrical contractor license, if required by Chapter 19.28 RCW;
   e. An elevator contractor license, if required by Chapter 70.87 RCW.

4. Not be disqualified from bidding on any public works contract under RCW 39.06.010 or 39.12.065 (3).

5. On a project subject to the apprenticeship utilization requirements in RCW 39.04.320, not have been found out of compliance by the Washington state apprenticeship and training council for working apprentices out of ratio, without appropriate supervision, or outside their approved work processes as outlined in their standards of apprenticeship under chapter 49.04 RCW for the one-year period immediately preceding the date of the Owner’s first advertisement of the project.

6. Meet all supplemental responsibility criteria set forth in the Contract Documents.

B. Provide names of Subcontractors and use qualified firms: Before submitting the first Application for Payment, Contractor shall furnish in writing to Owner the names, addresses, and telephone numbers of all Subcontractors, as well as suppliers providing materials in excess of $2,500. Contractor shall utilize Subcontractors and suppliers which are experienced and qualified, and meet the requirements of the Contract Documents, if any. Contractor shall not utilize any Subcontractor or supplier to whom Owner has a “reasonable objection,” and shall obtain Owner’s written consent before making any substitutions or additions. A "reasonable objection" shall include without limitation:

1. a proposed Subcontractor differing from the entity listed with a proposal or bid,

2. lack of "responsibility" of the proposed Subcontractor, as defined in RCW 39.04.350 or otherwise in the Contract Documents, or

3. lack of qualification, including technical qualification, as required by the Specifications.

C. Subcontracts in writing and pass through provision: All Subcontracts must be in writing. By appropriate written agreement, Contractor shall require each Subcontractor, so far as applicable to the Work to be performed by the Subcontractor, to be bound to Contractor by terms of the
Contract Documents, and to assume toward Contractor all the obligations and responsibilities which Contractor assumes toward Owner in accordance with the Contract Documents. Each Subcontract shall preserve and protect the rights of Owner in accordance with the Contract Documents with respect to the Work to be performed by the Subcontractor so that subcontracting thereof will not prejudice such rights. Where appropriate, Contractor shall require each Subcontractor to enter into similar agreements with Sub-subcontractors. However, nothing in this paragraph shall be construed to alter the contractual relations between Contractor and its Subcontractors with respect to insurance or bonds.

D. Coordination of Subcontractors; Contractor responsible for Work: Contractor shall schedule, supervise, and coordinate the operations of all Subcontractors. No Subcontracting of any of the Work shall relieve Contractor from its responsibility for the performance of the Work in accordance with the Contract Documents or any other obligations of the Contract Documents.

E. Automatic assignment of subcontracts: Each subcontract agreement for a portion of the Work is hereby assigned by Contractor to Owner provided that:

1. Effective only after termination and Owner approval: The assignment is effective only after termination by Owner for cause pursuant to Section 9.01 and only for those Subcontracts which Owner accepts by notifying the Subcontractor in writing; and

2. Owner assumes Contractor’s responsibilities: After the assignment is effective, Owner will assume all future duties and obligations toward the Subcontractor which Contractor assumed in the Subcontract.

3. Impact of bond: The assignment is subject to the prior rights of the surety, if any, obligated under any bond provided in accordance with the Contract Documents.

5.21 WARRANTY OF CONSTRUCTION

A. Contractor warranty of Work: In addition to any special warranties provided elsewhere in the Contract Documents, Contractor warrants that all Work conforms to the requirements of the Contract Documents and is free of any defect in equipment, material, or design furnished, or workmanship performed by Contractor.

B. Contractor responsibilities: With respect to all warranties, express or implied, for Work performed or materials furnished according to the Contract Documents, Contractor shall:

1. Obtain warranties: Obtain, assign if requested, and furnish directly to Owner, all warranties that would be given in normal commercial practice or that are required by the Contract Documents, first executed by the applicable Subcontractor and those suppliers and manufacturers furnishing materials for the Work, and subsequently countersigned by Contractor, which shall extend to Owner all rights, claims, benefits and interests that Contractor may have under express or implied warranties or guarantees against the Subcontractor, supplier or manufacturer for defective or non-conforming Work;

2. Warranties for benefit of Owner: Require all warranties to be executed, in writing, for the benefit of Owner;

3. Enforcement of warranties: Enforce all warranties for the benefit of Owner, if directed by Owner; and
4. **Contractor responsibility for subcontractor warranties**: Be responsible to enforce any subcontractor’s, manufacturer’s, or supplier’s warranties should they extend beyond the period specified in the Contract Documents.

C. **Warranties beyond Final Acceptance**: The obligations under this section shall survive Final Acceptance.

5.22 **INDEMNIFICATION**

A. **Contractor to indemnify Owner**: To the fullest extent permitted by law, Contractor shall defend, indemnify, and hold Owner and A/E, their consultants, and agents and employees, directors, officers, lenders, successors and assigns of any of them (collectively, the "Indemnified Parties"), harmless from and against all third-party claims, demands, losses, damages, or costs, including but not limited to damages arising out of bodily injury or death to persons and damage to property, direct and indirect, or consequential (including but not limited to costs and attorneys’ fees incurred on such claims or in proving the right to indemnification), arising out of, caused by or resulting from:

1. **Sole negligence of Contractor**: The sole negligence or willful misconduct of Contractor or any of its Subcontractors, their agents and anyone directly or indirectly employed by them or anyone for whose acts they may be liable ("Indemnitor");

2. **Concurrent negligence**: The concurrent negligence of Indemnitor, but only to the extent of the negligence of Indemnitor; and

3. **Patent infringement**: The use of any design, process, or equipment that constitutes an infringement of any United States patent presently issued, or violates any other proprietary interest, including copyright, trademark, and trade secret, unless specifically directed to use such design, process, or equipment by Owner.

The obligations of Contractor under this Section 5.22 shall not be construed to negate, abridge, or otherwise reduce any other right or obligations of indemnity that would otherwise exist as to any party or person described in this Section. To the extent the wording of this Section 5.22 would reduce or eliminate the insurance coverage of Owner or Contractor, this Section 5.22 shall be considered modified to the extent that such insurance coverage is not affected. To the extent that any portion of this Section 5.22 is stricken by a court or arbitrator for any reason, all remaining provisions shall retain their vitality and effect. The provisions of this Section 5.22 shall survive completion, acceptance, final payment and termination of the Contract.

B. **Employee action and RCW Title 51**: In any action against Owner and any other entity indemnified in accordance with this section, by any employee of Contractor, its Subcontractors, Sub-subcontractors, agents, or anyone directly or indirectly employed by any of them, the indemnification obligation of this section shall not be limited by a limit on the amount or type of damages, compensation, or benefits payable by or for Contractor or any Subcontractor under RCW Title 51, the Industrial Insurance Act, or any other employee benefit acts. In addition, Contractor waives immunity as to Owner and A/E only, in accordance with RCW Title 51.

**PART 6 - PAYMENTS AND COMPLETION**

6.01 **CONTRACT SUM**

**Owner shall pay Contract Sum**: Owner shall pay Contractor the Contract Sum plus Washington State sales tax for performance of the Work, in accordance with the Contract Documents.
6.02 SCHEDULE OF VALUES

Contractor to submit Schedule of Values: Before submitting its first Application for Payment, Contractor shall submit to Owner for approval a breakdown allocating the total Contract Sum to each principal category of work, in such detail as requested by Owner (“Schedule of Values”). The approved Schedule of Values shall allocate at least the percentage of the original Contract Sum so designated in the Contract Documents to that portion of the Work between Substantial Completion and Final Completion to recognize not-yet-earned costs for demobilization, Project Record, O&M manuals, and any other requirements for Project closeout and in advancing the Work from Substantial Completion to Final Completion. The approved Schedule of Values shall be used by Owner as a basis for reviewing progress payments. Payment for Work shall be made only for and in accordance with those items included in the Schedule of Values.

6.03 APPLICATION FOR PAYMENT

A. Monthly Application for Payment with substantiation: At monthly intervals, unless determined otherwise by Owner, Contractor shall submit to Owner an itemized Application for Payment for Work (using Owner’s form) completed in accordance with the Contract Documents and the approved Schedule of Values. Each application shall be supported by such substantiating data as Owner may require.

B. Contractor certifies Subcontractors paid: By submitting an Application for Payment, Contractor is certifying that all Subcontractors have been paid, less earned retainage in accordance with RCW 60.28.011, as their interests appeared in the last preceding Application for Payment. By submitting an Application for Payment, Contractor is recertifying that the representations set forth in Section 1.03 are true and correct, to the best of Contractor’s knowledge, as of the date of the Application for Payment. Owner has the right to request written evidence from Contractor that Contractor has properly paid Subcontractors and material and equipment suppliers amounts paid by Owner to Contractor for subcontracted Work. Owner shall have the right to contact Subcontractors to ascertain whether they have been properly paid. Owner shall not have an obligation to pay or to see to the payment of money to a Subcontractor, except as may otherwise be required by law.

C. Reconciliation of Work with Progress Schedule: At the time it submits an Application for Payment, Contractor shall analyze and reconcile, to the satisfaction of Owner, the actual progress of the Work with the Progress Schedule. The submission of an Application for Payment constitutes a certification that the Work is current on the Progress Schedule.

D. Payment for material delivered to site or stored off-site: If authorized by Owner, the Application for Payment may include request for payment for material delivered to the Project site and suitably stored, or for completed preparatory work. Payment may similarly be requested for material stored off the Project site, provided Contractor complies with or furnishes satisfactory evidence of the following:

1. Suitable facility or location: The material will be placed in a facility or location that is structurally sound, dry, lighted and suitable for the materials to be stored or otherwise approved by Owner;

2. Facility or location within 10 miles of Project: The facility or location is located within a 10-mile radius of the Project. Other locations may be utilized, if approved in writing, by Owner;
3. **Facility or location exclusive to Project’s materials:** Only materials for the Project are stored within the facility or location (or a secure portion of a facility or location set aside for the Project);

4. **Insurance provided on materials in facility or location:** Contractor furnishes Owner a certificate of insurance extending Contractor’s insurance coverage for damage, fire, and theft to cover the full value of all materials stored, or in transit;

5. **Facility or location locked and secure:** The facility or location (or secure portion thereof) is continuously under lock and key, and only Contractor’s authorized personnel shall have access;

6. **Owner right of access to facility or location:** Owner shall at all times have the right of access in company of Contractor;

7. **Contractor assumes total responsibility for stored materials:** Contractor and its surety assume total responsibility for the stored materials; and

8. **Contractor provides documentation and Notice when materials moved to site:** Contractor furnishes to Owner certified lists of materials stored, bills of lading, invoices, and other information as may be required, and shall also furnish Notice to Owner when materials are moved from storage to the Project site.

### 6.04 PROGRESS PAYMENTS

**A. Owner to pay within 30 Days:** Owner shall make progress payments, in such amounts as Owner determines are properly due, within 30 Days after receipt of a properly executed Application for Payment. Owner shall notify Contractor in accordance with chapter 39.76 RCW if the Application for Payment does not comply with the requirements of the Contract Documents.

**B. Withholding retainage; Options for retainage:** Owner shall retain 5% of the amount of each progress payment until 45 Days after Final Acceptance and receipt of all documents required by law or the Contract Documents, including, at Owner’s request, consent of surety to release of the retainage. In accordance with chapter 60.28 RCW, Contractor may request that monies reserved be retained in a fund by Owner, deposited by Owner in a bank or savings and loan, or placed in escrow with a bank or trust company to be converted into bonds and securities to be held in escrow with interest to be paid to Contractor. Owner may permit Contractor to provide an appropriate bond in lieu of the retained funds.

**C. Title passes to Owner upon payment:** Title to all Work and materials covered by a progress payment shall pass to Owner at the time of such payment free and clear of all liens, claims, security interests, and encumbrances. Passage of title shall not, however, relieve Contractor from any of its duties and responsibilities for the Work or materials, or waive any rights of Owner to insist on full compliance by Contractor with the Contract Documents. A progress payment, or partial or entire use or occupancy of the Project by Owner, shall not constitute acceptance of Work.

**D. Interest on unpaid balances:** Payments due and unpaid in accordance with the Contract Documents shall bear interest as specified in chapter 39.76 RCW.
6.05 PAYMENTS WITHHELD

A. Owner’s right to withhold payment: Owner may withhold or, on account of subsequently discovered evidence, nullify the whole or part of any payment to such extent as may be necessary to protect Owner from loss or damage for reasons including but not limited to:

1. **Non-compliant Work**: Work not in accordance with the Contract Documents;

2. **Remaining Work to cost more than unpaid balance**: Reasonable evidence that the Work required by the Contract Documents cannot be completed for the unpaid balance of the Contract Sum;

3. **Owner correction or completion of Work**: Work by Owner to correct defective Work or complete the Work in accordance with Section 5.16;

4. **Third party claims for which Contractor may be responsible**: Claims (except where an insurer has unconditionally accepted coverage without prior payment of any deductibles or self-insured retentions) filed or reasonable evidence indicating probable filing of such claims unless Contractor provides security acceptable to Owner;

5. **Failure to pay Subcontractor**: The failure of Contractor to make payments to Subcontractors for labor, materials or equipment;

6. **Damages**: Damage to Owner or a separate contractor (except where an insurer has unconditionally accepted coverage);

7. **Affidavits of Wages Paid**: Failure to submit affidavits pertaining to wages paid as requested or otherwise required by statute;

8. **Progress Schedule**: Failure to submit a properly updated Progress Schedule;

9. **Maintenance of Project Record**: Failure to properly maintain as the Project Record;

10. **Other construction records**: Failure to properly submit any other required construction reports or records;

11. **Certified payrolls**: Failure to properly submit certified payrolls when requested;

12. **Contractor’s failure to perform**: Contractor’s failure otherwise to perform in accordance with the Contract Documents;

13. **Contractor’s negligent acts or omissions**: Cost or liability that may occur to Owner as the result of Contractor’s fault or negligent acts or omissions.

B. Owner to notify Contractor of withholding for unsatisfactory performance: In any case where part or all of a payment is going to be withheld for unsatisfactory performance, Owner shall notify Contractor in accordance with chapter 39.76 RCW.

6.06 RETAINAGE, BOND CLAIM RIGHTS, AND LIENS

A. **Chapters 39.08 RCW and 60.28 RCW incorporated by reference**: Chapters 39.08 RCW and 60.28 RCW, concerning the rights and responsibilities of Contractor and Owner with regard to the performance and payment bonds and retainage, are made a part of the Contract Documents by reference as though fully set forth herein.
B. **Liens:** Contractor shall promptly pay (and secure the discharge of any liens asserted by) all persons properly furnishing labor, equipment, materials or other items in connection with the performance of the Work (including, but not limited to, any Subcontractors) to the extent that Owner has paid Contractor for this Work. Owner may, at its option, withhold payment, in whole or in part, to Contractor until lien and claim releases are furnished. Contractor may provide other security acceptable to Owner, such as a bond, in lieu of paying disputed liens or claims. Contractor shall defend, indemnify, and hold harmless Owner from any liens, including all expenses and attorneys' fees, except to the extent a lien has been recorded because of a failure of payment by Owner for the Work implicated in any such lien.

6.07 **SUBSTANTIAL COMPLETION**

A. **Substantial Completion defined:** Substantial Completion is the stage in the progress of the Work (or portion thereof designated and approved by Owner) when the construction is sufficiently complete, in accordance with the Contract Documents, so Owner has full and unrestricted use and benefit of the facilities (or portion thereof designated and approved by Owner) for the use for which it is intended, the Project has been constructed in substantial accordance with the Contract Documents, and at a minimum the following elements have been accomplished (see also, Section 01 70 00 Project Completion):

1. A written punch list has been prepared;
2. The Authority Having Jurisdiction has granted a certificate of occupancy; and
3. The first final draft of the Operation and Maintenance manuals has been submitted to Owner.

All Work other than incidental corrective or punch list work shall be completed. Substantial Completion shall not have been achieved if the Work cannot achieve Final Completion within the time specified in the Agreement. The date Substantial Completion is achieved shall be established in writing by Owner. Contractor may request an early date of Substantial Completion which must be approved by Change Order. Owner's occupancy of the Work or designated portion thereof does not necessarily indicate that Substantial Completion has been achieved.

B. **Contractor to provide weekly reports before Substantial Completion:** Beginning at least 30 Days before the scheduled date of Substantial Completion, Contractor shall prepare reports weekly, identifying items to be completed in order to obtain necessary occupancy certificates and permits, and make recommendations to Owner for effectuating the earliest possible completion. When Contractor considers that the Work, or a portion thereof that Owner agrees to accept separately, has achieved Substantial Completion, Contractor shall prepare and submit to Owner a comprehensive list of items to be completed or corrected prior to final payment. Contractor shall proceed promptly to complete and correct items on the list. Failure to include an item on the list does not alter the responsibility of Contractor to complete all Work in accordance with the Contract Documents.

C. **Owner to determine if Work is complete:** Upon receipt of Contractor's list, Owner will make an inspection to determine whether the Work or designated portion thereof has achieved Substantial Completion. If Owner's inspection discloses any item, whether or not included on Contractor's list, that is not sufficiently complete in accordance with the Contract Documents so that Owner can occupy or utilize the Work or designated portion thereof for its intended use, Contractor shall, before the occurrence of Substantial Completion, complete or correct the item upon notification by Owner, and Contractor shall then submit a request for another inspection by Owner to determine Substantial Completion. If Owner determines that the Work or designated portion has not achieved Substantial Completion, Contractor shall expeditiously complete the Work or
designated portion, again request an inspection, and pay the costs associated with the re-
inspection.

D. **Owner may take over punch list**: If, at 30 Days after the date of Substantial Completion, Owner
considers that the remaining items on its list (“punch list”) are unlikely to be completed within the
time period specified in the Contract Documents for Final Completion, Owner may, upon seven
Days’ written Notice to Contractor, take over and perform some or all of the punch list items. If
Contractor fails to correct the deficiencies within the time period specified, Owner may deduct the
actual cost of performing this punch list work, including any design costs, plus ten 10% to account
for Owner’s transaction costs, from the Contract Sum.

E. **Owner to establish date of Substantial Completion**: When the Work or designated portion thereof
has achieved Substantial Completion, Owner shall establish the date of Substantial Completion in
writing, establish responsibilities of Contractor for security, maintenance, heat, utilities, damage to
the Work and insurance, and fix the time within which Contractor shall finish all items on the list
accompanying the document. The writing establishing Substantial Completion shall be submitted
to Contractor for its written acceptance of the responsibilities assigned to it. Any items not
included in the document but required or necessary for Final Completion of the Work shall be
supplied and installed by Contractor as a part of the Contract Sum, notwithstanding their not
being included in the punch list. Upon written acceptance of the writing establishing Substantial
Completion by Contractor and Owner, and upon Contractor’s Application for Payment, Owner
shall make payment as provided in the Contract Documents. Such payment shall be adjusted for
Work that is incomplete or not in accordance with the requirements of the Contract Documents.
No further payment will be due or owing until the payment following Final Completion.

F. **Contractor to complete punch list in timely manner**: Contractor shall prepare, continue to monitor,
and cause to be completed, all punch lists with respect to the activity of each Subcontractor and
report weekly to Owner on outstanding punch list items.

6.08 **PRIOR OCCUPANCY**

A. **Prior Occupancy defined; Restrictions**: Owner may, when legally permissible to do so and upon
written Notice to Contractor, take possession of or use any completed or partially completed
portion of the Work (“Prior Occupancy”) at any time prior to Substantial Completion, and
Contractor shall cooperate with such occupancy and use and the establishment of a punch list.
Unless otherwise agreed in writing, Prior Occupancy shall not: be deemed an acceptance of any
portion of the Work; accelerate the time for any payment to Contractor; prejudice any rights of
Owner provided by any insurance, bond, guaranty, or the Contract Documents; relieve Contractor
of the risk of loss or any of the obligations established by the Contract Documents; establish a
date of Substantial or Final Completion; establish a date for termination or partial termination of
the assessment of liquidated damages; or constitute a waiver of claims.

B. **Damage; Duty to repair and warranties**: Notwithstanding anything in the preceding paragraph,
Owner shall be responsible for loss of or damage to the Work resulting from Prior Occupancy.
Contractor’s one year duty to repair any system warranties shall begin on building systems
activated and used by Owner as agreed in writing by Owner and Contractor.

6.09 **FINAL COMPLETION, ACCEPTANCE, AND PAYMENT**

A. **Final Completion defined**: Final Completion shall be achieved when the Work is fully and finally
complete in accordance with the Contract Documents. The date Final Completion is achieved
shall be established by Owner in writing, but in no case shall it constitute Final Acceptance, which
is a subsequent, separate, and distinct action (see also, Section 01 70 00 Project Completion).
B. **Final Acceptance defined:** Unless otherwise determined by Owner, Final Acceptance shall be achieved after Contractor has completed all the requirements of the Contract Documents. The date Final Acceptance is achieved shall be established by Owner in writing. Pursuant to RCW 60.28, "Lien for Labor, Materials, Taxes on Public Works," completion of the Contract Work shall occur upon Final Acceptance. Neither Final Acceptance nor final payment shall release Contractor or its sureties from any obligations of these Contract Documents or the payment and performance bonds, or constitute a waiver of any claims by Owner arising from Contractor’s failure to perform the Work in accordance with the Contract Documents (see also, Section 01 70 00 Project Completion).

C. **Final payment waives Claim rights:** Acceptance of final payment by Contractor or any Subcontractor shall constitute a waiver and release to Owner of all claims by Contractor or any such Subcontractor for an increase in the Contract Sum or the Contract Time, and for every act or omission of Owner relating to or arising out of the Work, except for those Claims made in accordance with the procedures, including the time limits, set forth in Part 8.

**PART 7 - CHANGES**

7.01 CHANGE IN THE WORK

A. **Changes in the Work:** Changes in the Work may be accomplished after execution of the Contract without invalidating the Contract. Changes in the Work that adjust the Contract Sum and/or Contract Time are incorporated into the Contract solely by Change Order and are subject to the limitations stated in this Part 7 and elsewhere in the Contract Documents. A Change Order may be bilateral or unilateral, as described below. Change Orders may be initiated by mutual agreement or through a Contract Change Proposal (“CCP”) or Work Directive (“WD”).

B. **Change Orders:**

1. A Bilateral Change Order is signed by Owner and Contractor to record their agreement on the terms of a change in the Work. A Bilateral Change Order may reflect the agreement of Owner and Contractor on a standalone issue, or it may incorporate one or more mutually agreed upon CCPs or WDs. A Bilateral Change Order shall constitute full payment and final settlement of all claims for time and cost, including direct, indirect, impact and consequential costs, related to the Change Order and Work covered by, affected by and related to the events giving rise to the Change Order.

2. A Unilateral Change Order is initially signed only by Owner to set forth, subject to the Contract, the terms of a change in the Work based upon one or more CCPs and/or WDs to which the parties have not yet fully agreed. Within 7 Days of its receipt of a Unilateral Change Order, Contractor shall notify Owner in writing either (a) of its acceptance of its terms, in which case the Unilateral Change Order will automatically become a Bilateral Change Order, or (b) of Contractor’s rejection, in which case Contractor must submit a written rejection within 14 Days after Contractor delivered written Notice of rejection to Owner as noted above. The written rejection must fully explain the reasons for rejecting the Unilateral Change Order and include all necessary supporting documentation. The rejection will then be considered in accordance with Section 8.02 (Informal Resolution of Disputes). Failure to submit a written Notice of rejection within 7 Days of Contractor’s receipt of a Unilateral Change Order or a written rejection with 14 Days shall constitute Contractor’s acceptance of the terms of the Unilateral Change Order.
C. Change Orders via Contract Change Proposal:

1. Contractor shall be responsible for maintaining an Issues Log. If Contractor at any time believes that a change in the Work has or may have occurred, Contractor shall add such item to the Issues Log. At a minimum, the Issues Log shall identify:

   a. Detailed scope of the change in the Work;

   b. Contract Time impact noting specifically how it impacted the critical path of the project, if any;

   c. The amount of any anticipated, proposed, or approved change in the Contract Sum;

   d. Date first included on the Issues Log;

   e. Owner-initiated or Contractor-initiated; and

   f. Action status.

2. If the Contractor believes an item on the Issues Log warrants a CCP, Contractor shall provide written Notice to Owner in accordance with Section 8.02, and shall submit a written CCP in accordance with this Section. All CCPs shall be substantiated and submitted within 7 Days of being added to the Issues Log along with a revised progress schedule identifying the time impact affecting the critical path, if any. The CCP shall identify the proposed full compensation for implementing the proposed change in the Work, including any adjustment in the Contract Sum or Contract Time. Upon receipt of the CCP, Owner may accept the proposal and incorporate it into a Bilateral Change Order, reject the proposal and either issue a WD or elect not to proceed with the proposal, request further documentation, or negotiate acceptable terms with Contractor.

D. Work Directives:

1. A WD is a written order prepared by Owner that directs Contractor to perform Work prior to total agreement on an adjustment, if any, in the Contract Sum and/or Contract Time. Owner may direct Contractor, at any time and without invalidating the Contract, through a WD to proceed with a change in the Work or to perform Work that Contractor contends to be a change in the Work, with or without the agreement of Contractor and prior to agreement of the basis for adjustment, if any, to the Contract. Owner’s use of a WD does not constitute agreement that the directive constitutes a change in the Work, the Contract Sum or the Contract Time.

2. A WD normally includes:

   a. The scope of the directed Work,

   b. Any proposed adjustment to the Contract Sum or not-to-exceed amount,

   c. Any proposed change to the Contract Time,

   d. The proposed method of determining any change in the Contract Sum and/or Contract Time, and
e. The supporting data that Contractor must submit in accordance with the requirements of Part 7 of the General Conditions.

3. Upon receipt of a WD, Contractor shall promptly commence and proceed diligently with performance of the directed Work. Within 7 Days of its receipt of a WD, Contractor shall notify Owner in writing either (a) of its acceptance of its terms, in which case the terms will become effective, and the WD will be incorporated into a Bilateral Change Order, or (b) of Contractor’s rejection of the terms, in which case Contractor must submit a written rejection within 14 Days after Contractor delivered written Notice to Owner as noted above. The written rejection must fully explain the reasons for rejecting the WD and include all necessary supporting documentation. The rejection will then be considered in accordance with Section 8.02. Contractor’s rejection of a WD shall not relieve Contractor of its obligation to comply promptly with the WD.

E. Contractor fault or negligence alleged as basis for change in Contract Sum: No change in the Contract Sum shall be allowed to the extent Contractor’s changed cost of performance is due to the fault or negligence of Contractor or anyone for whose acts Contractor is responsible; or to the extent Contractor is responsible for change concurrently caused by Contractor and Owner; or to the extent the change is caused by an act of Force Majeure as defined in Section 3.05.

7.02 CHANGE IN THE CONTRACT SUM

A. General Application

1. Contract Sum changes only by Change Order: The Contract Sum shall only be changed by a Change Order.

2. Allowances: Any Allowances stated in the Contract Documents shall be included in the Contract Sum. Items covered by Allowances shall be supplied for such amounts and by such persons or entities as Owner may direct, but Contractor shall not be required to employ persons or entities to whom Contractor has made reasonable and timely objection. Owner shall select materials and equipment under an Allowance with reasonable promptness. Allowances shall cover the net cost to Contractor of materials and equipment delivered and/or installed at the site, as identified in the Allowance, and all required taxes, less applicable trade discounts. Whenever actual costs are more than or less than Allowances, the Contract Sum shall be adjusted accordingly by Change Order. The amount of the Change Order shall reflect the difference between actual, reasonable costs and the Allowances.

3. Pricing Components: Contractor shall maintain and submit a complete itemization of the costs incurred as a result of any change in the Work, including labor, material, Subcontractor costs, and fee. The total cost of any change in the Work or of any other increase or decrease in the Contract Sum, including a Claim, shall be limited to the actual, reasonable amounts for the following components, itemized in the manner set forth below and submitted on breakdown sheets in a form approved by Owner. If the total cost of the change in the Work does not exceed $5,000.00, Contractor shall not be required to submit a breakdown if the description of the change in the Work is sufficiently definitive for Owner to determine fair value.

a. Labor costs: The labor cost component is determined by multiplying the estimated or actual additional number of hours needed to perform the change in the Work by the fully burdened hourly labor costs. The fully burdened hourly costs shall include the following:
Basic wages and benefits: Hourly rates and benefits as stated on the Department of Labor and Industries approved “Statement of Intent to Pay Prevailing Wages” shall be applicable unless a high, documented amount is actually paid by a contractor for the laborers, apprentices, journeymen, foremen, and other staff performing and/or directly supervising the change in the Work at the site. Any amount in excess of approved “Statement of Intent to Pay Prevailing Wages” shall be substantiated and subject to audit.

Worker’s insurance: Direct contributions to the State of Washington for industrial insurance; medical aid; and supplemental pension, by the class and rates established by the Department of Labor and Industries.

Federal insurance: Direct contributions required by the Federal Insurance Compensation Act; Federal Unemployment Tax Act; and the State Unemployment Compensation Act.

Supervision: The labor cost component may include the actual, demonstrated additional supervision hours (not already compensated by Owner) directly related to a change in the Work.

Travel and Per Diem allowance: Travel allowance and/or subsistence, if applicable, required by regional labor union agreements, which are itemized and identified separately.

b. Material costs: The material cost component must be itemized and include material invoices or reasonable lump-sum estimates of the quantity and cost of additional materials needed to perform the change in the Work. Material costs shall be developed first from actual known costs; second from supplier quotations; and, if neither of these is available, then from standard industry pricing guides acceptable to Owner. Material costs shall consider all available discounts. Freight costs, express charges, or special delivery charges shall be itemized.

c. Equipment costs: The equipment cost component must be itemized by the type of equipment and include the estimated or actual length of time the construction equipment appropriate for the Work is or will be used on the change in the Work on site. Costs will be allowed for construction equipment only to the extent used solely for the changed Work, or for additional rental costs actually incurred by Contractor solely for the changed Work. Equipment charges shall be computed on the basis of actual invoice costs or, if owned, from the current edition of the Associated General Contractors Washington State Department of Transportation (AGC WSDOT) Equipment Rental Agreement current edition as of the Contract execution date. The EquipmentWatch Rental Rate Blue Book shall be used as a basis for establishing rental rates of equipment not listed in the above source. The maximum rate for standby equipment shall not exceed that shown in the AGC WSDOT Equipment Rental Agreement. The rate for Contractor-owned equipment necessarily standing by for future use on the changed Work shall be no more than 50% of the rate established above unless otherwise approved by Owner. The total rental cost shall not exceed the cost of purchasing the equipment outright.

d. Subcontractor costs: The Subcontractor cost component consists of payments Contractor makes to Subcontractors for the cost of changed Work performed by
Subcontractors. Subcontractors’ costs shall be calculated and itemized in the same manner as prescribed herein for Contractor.

e. **Fee:** The Fee component is compensation for all items and costs not listed in subparagraphs a through d above, and is added to the total cost to Owner of the sum of these items. The Fee shall compensate Contractor, Subcontractor and suppliers for, among other things, combined overhead, profit and other costs, including all office, home office and site overhead, employee per diem, subsistence and travel costs not separately reimbursable under subparagraph a above, warranty, safety costs, printing and copying, quality control/assurance, purchasing, small or hand tool (a tool that costs $250 or less and is normally furnished by the performing contractor) or expendable charges, temporary construction facilities, field engineering, schedule updating, Project Record, home office cost, taxes (including all taxes except B&O tax and Washington State sales tax payable based on the amount of the approved Application for Payment), office engineering, estimating costs, additional overhead because of extended time, Claim and change preparation, direct and indirect delay, acceleration or impact, and any other cost incidental to the change in the Work. The Fee shall be strictly limited in all cases to the rates below.

1. **Contractor markup on Contractor Work:** Contractor is allowed a Fee for any Work actually performed by Contractor’s own forces of 16% of the first $50,000 of the cost of such Work and 4% of the remaining cost, if any.

2. **Subcontractor markup for Subcontractor Work:** Each Subcontractor (including lower-tier Subcontractors) is allowed a Fee for any Work actually performed by its own forces of 16% of the first $50,000 of the cost of such Work and 4% of the remaining cost, if any.

3. **Contractor markup for Subcontractor Work:** Contractor is allowed a Fee for any Work performed by its Subcontractor(s) of 6% of the first $50,000 of the amount due each Subcontractor for such Work and 4% of the remaining amount, if any.

4. **Subcontractor markup for lower-tier Subcontractor Work:** Each Subcontractor is allowed a Fee for any Work performed by its Subcontractor(s) of any lower-tier of 4% of the first $50,000 of the amount due the lower-tier Subcontractor for such Work and 2% of the remaining amount, if any.

5. **Basis of cost applicable for markup:** The cost of the Work to which the Fee is to be applied shall be based on the cost components in subparagraphs 7.02.A 3.a – d.

6. **Application of Fee:** The Fee shall not be included on deductive changes in the Work. Where a change in the Work involves additive and deductive work by Contractor or the same Subcontractor, the Fee as well as bond and insurance markups will apply to the net difference.

f. **Insurance and bond premiums:** The cost of any change in insurance or bond premium is added to the sum of the cost components in subparagraphs 7.02.A 3.a – e and is limited to the following:
(1) **Contractor’s liability insurance:** The cost of any changes in Contractor’s contractually required liability insurance arising directly from the Change Order; and

(2) **Payment and Performance Bond:** The cost of any additional premium for Contractor’s contractually required bond arising directly from the Change Order.

g. **Tax:** Washington State sales tax and B&O tax arising directly from the Change Order shall be added to the cost of the Change Order.

h. **Unit Prices:** If Unit Prices, including pre-agreed rates for material quantities, are applicable to a change in the Work, the Unit Prices shall be applied to the quantities of the items involved as determined in Section 7.02A. Quantities must be supported by field measurement statements signed by Owner. Owner shall be afforded access and be permitted to measure quantities. Contractor shall not exceed any cost limit(s) without Owner’s prior written approval. Unit Prices shall include reimbursement for all direct and indirect costs of the Work, but exclude Fee (7.02 A.e), bond, and insurance costs (7.02 A.f).

### 7.03 CHANGE IN THE CONTRACT TIME

A. **Changes in Contract Time:** The Contract Time shall only be changed by a Change Order.

B. **Time extension permitted only if delay is not Contractor’s fault:** If Contractor is delayed at any time in the commencement or progress of the Work (1) by an act or neglect of Owner or anyone for whose acts Owner is responsible; or (2) by changes ordered by Owner in the Work; or (3) by Force Majeure; or (4) by delay authorized by Owner pending dispute resolution; or (5) by other causes that Owner determines may justify delay, then Contractor shall reasonably attempt to mitigate the delay, and the Contract Time shall be extended by Change Order for such reasonable time as Owner may reasonably determine consistent with the provisions of the Contract Documents. No adjustment in the Contract Time shall be allowed to the extent Contractor’s changed time of performance is due to the fault or negligence of Contractor or anyone for whose acts Contractor is responsible.

C. **Contractor must demonstrate impact on critical path of schedule:** Any change in the Contract Time covered by a Change Order or Claim shall be limited to the change in the critical path of the Work attributable to the change or event(s) giving rise to the Change Order or Claim. Contractor shall be responsible for showing clearly on the Progress Schedule that the change or event had a specific impact on the critical path and, except in case of concurrent delay, was the sole cause of such impact, and could not have been avoided by resequencing of the Work or other reasonable alternatives in accordance with Section 01 32 13 Project Schedule.

D. **Cost arising from change in Contract Time:** Contractor is entitled to compensation for the cost of a change in Contract Time only if all the following conditions are met:

1. **Must be solely fault of Owner:** The change in Contract Time must solely be caused by the fault or negligence of Owner or others for whom Owner is responsible;

2. **Procedures:** Contractor must follow the procedure set forth in Section 7.03B and Section 8.02;

3. **Demonstrate impact on critical path:** Contractor must establish the extent of the change in Contract Time in accordance with Section 7.03C and Section 01 32 13 Project Schedule.
Schedule. Owner is not obligated directly or indirectly for damages or an increase in the Contract Sum for any delay suffered by a Subcontractor that does not increase the Contract Time; and

4. Cost measured exclusively by the pricing components of Section 7.02A.3: If Contractor or a Subcontractor of any tier is entitled to compensation arising from or related to a change in Contract Time, the pricing components of Section 7.02A.3 shall exclusively be used to measure the actual costs incurred as a result of the change in Contract Time. Neither Contractor nor a Subcontractor of any tier is entitled to payment for costs arising out of actual or alleged loss of efficiency; morale, fatigue, attitude, or labor rhythm; home office overhead; expectant underrun; trade stacking; reassignment of workers; rescheduling of work; concurrent operations; dilution of supervision; learning curve; beneficial or joint occupancy; logistics; ripple; season change; extended overhead; profit upon damages for delay; impact damages, including cumulative impact; or similar damages.

PART 8 - CLAIMS AND DISPUTE RESOLUTION

8.01 CLAIMS

A. Definition: A Claim is a demand or assertion by one of the parties seeking, as a matter of right, adjustment or interpretation of the Contract terms, payment of money, extension of time or other relief with respect to the terms of the Contract Documents. The term “Claim” also includes other disputes and matters in question between Owner and Contractor arising out of or relating to the Contract Documents. Claims must be initiated in writing and be made in accordance with the Contract Documents. Neither a CCP, a Request for Information, a Bilateral or Unilateral Change Order, a reservation of rights, minutes of a meeting, a daily report, or a log entry shall constitute a Claim or Notice of a Claim. However, Owner and Contractor may agree in a signed writing to supplement how Contractor can provide a Notice of Claim as specified in this Part 8.

B. Continuing Contract performance: Pending final resolution of a Claim, including the dispute resolution process in Part 8, and except as otherwise agreed in writing or in the Contract Documents, Contractor shall proceed diligently with performance of the Work and maintain the Progress Schedule, and Owner shall continue to make payments of undisputed amounts in accordance with the Contract Documents.

C. Claims for additional cost: If Contractor wishes to make a Claim for an increase in the Contract Sum, written Notice as provided herein shall be given before proceeding to execute the Work, and written Notice and a written Claim must be made in accordance with this Part 8, or it will be waived.

D. Claims for additional time: If Contractor wishes to make a Claim for an increase in the Contract Time, written Notice as provided herein shall be given, and a written Claim must be made in accordance with this Part 8, or it will be waived.

E. Claims for consequential damages: Contractor and Owner waive certain Claims against each other for consequential damages arising out of or relating to this Contract. This mutual waiver includes damages incurred by Owner for profit, financing, business and reputation, and for loss of management or employee productivity or of the services of such persons; and damages incurred by Contractor for principal and home office overhead and expenses including but not limited to the compensation of personnel stationed there, for loss of financing, business and/or reputation, for losses on other projects, for loss of profit, and for interest or financing costs. This mutual waiver is applicable, without limitation, to all consequential damages due to either party’s termination. Nothing contained in this subparagraph E, however, shall be deemed to preclude an
award of liquidated or other delay damages, when applicable, in accordance with the Contract Documents, or to preclude or limit Contractor’s obligation to procure and maintain the insurance policies required by this Contract or indemnify Owner for damages, including direct, indirect or consequential damages, alleged by a third party.

8.02 INFORMAL RESOLUTION OF DISPUTES

A. Procedure to reduce disputes: In an effort to reduce the incidence and cost to all parties of extended disputes, all disputes, direct or indirect, arising out of or relating to the Contract Documents or the breach thereof, except those that have been waived under the terms of the Contract Documents, shall be decided exclusively by the dispute resolution procedure of Part 8 unless the parties mutually agree in writing otherwise. To the extent that Owner and Contractor agree to a partnering or dispute review process to help address disputes, these processes shall be in addition to, and not in place of, the mandatory contractual dispute resolution procedures.

B. Notice: Except for disputes requiring Notice before proceeding with the affected Work as otherwise described in the Contract Documents, Contractor shall submit a written Notice of any Claim to Owner's Project Manager, consistent with the requirements of the Contract Documents, within 7 Days of the occurrence of the event giving rise to a dispute. If Contractor did not have actual knowledge of such an event, the written Notice shall be submitted within 7 Days of the date that Contractor reasonably should have been aware of the event. The Notice shall set forth, at a minimum, a description of the event(s) leading to or causing the dispute, the nature of the impacts to Contractor and its Subcontractors, if any, and an estimate of any claimed adjustments in the Contract Sum and/or Contract Time. Without waiving any rights, Owner and Contractor may discuss and attempt to resolve a dispute identified in a Notice of Claim directly with each other or with a third-party neutral or dispute review board if utilized on a Project.

C. Substantiation: If an issue remains unresolved, Contractor shall submit timely written substantiation to support Contractor’s position relating to the Notice of Claim. Such substantiation, which shall include an explanation of Contractor’s position and any supporting documentation, shall be provided within 30 Days of submitting a Notice. Contractor may delay submitting data by an additional 14 Days if it notifies Owner that substantial data must be assembled.

D. Owner's Project Manager to make initial decision on all disputes: After Contractor has submitted written substantiation to Owner that complies with all applicable provisions of Parts 7 and 8, as well as Section 01 32 13, Project Schedule, Owner’s Project Manager will endeavor to respond, in writing, to Contractor within 7 Days of the date substantiation is received, or with Notice to Contractor of the date by which Owner’s Project Manager expects to render a decision. If necessary to fully and fairly evaluate an issue, the Project Manager may request additional information or extend the time in which to respond. If the issue is not resolved, or if Project Manager does not respond within the later of 7 Days of the date written substantiation is received or the date specified for rendering a decision, the dispute may be escalated by Contractor to Owner’s Assistant Vice President, Facilities Services, Capital as set forth in Section 8.02E below.

E. Contractor may respond to initial decision: The initial decision of the Project Manager will be final and conclusive unless, within 7 Days of the date Contractor receives the initial decision or the date specified for rendering a decision, Contractor notifies Owner’s Project Manager in writing of Contractor’s disagreement with the initial decision, in which case Contractor must then submit a written rejection to Owner’s Assistant Vice President, Facilities Services, Capital within 14 Days. The written rejection must attach the submitted Notice and substantiation and fully explain the reasons for Contractor’s disagreement with the initial decision. It must also include all applicable supporting documentation. Failure to submit a written rejection to Owner's Assistant Vice
President, Facilities Services, Capital within 14 Days shall constitute Contractor’s acceptance of the initial decision.

F. Assistant Vice President, Facilities Services, Capital decision: Following Contractor’s full compliance with the procedure above, Owner’s Assistant Vice President, Facilities Services, Capital will endeavor to respond in writing to Contractor with a decision within 7 Days of delivery of the Contractor’s rejection or with Notice to Contractor of the date by which Owner’s Assistant Vice President, Facilities Services, Capital expects to render a decision. If Owner’s Assistant Vice President, Facilities Services, Capital does not respond within the later of 7 Days after delivery of the rejection or the date specified to render a decision, the dispute will be deemed denied and Contractor may further escalate the dispute as set forth in Section 8.02G below.

G. Claim: If Contractor disagrees with the decision of the Assistant Vice President, Facilities Services, Capital, or if no decision is timely received, Contractor shall timely submit a Claim if it wishes to pursue formal dispute resolution or seek additional relief against Owner of any kind. A Claim must be consistent with the Notice, substantiation and rejection previously provided, be submitted to Owner in writing within 14 Days of the date the decision of the Assistant Vice President, Facilities Services, Capital is received by Contractor or due, and comply with Section 8.04. Any claim of a Subcontractor of any tier may be brought only through, and after review by, Contractor. Contractor acknowledges and agrees that no additional documentation from what was submitted to Owner’s Assistant Vice President, Facilities Services, Capital (per part ‘F’ of this section) may be submitted and considered in any subsequent dispute resolution proceeding. Contractor’s failure to provide timely information for Owner’s consideration during the dispute resolution procedure of Part 8 has a substantial impact upon and prejudices Owner, including but not limited to its inability to fully investigate or verify a Claim, mitigate damages, choose alternative options, adjust the budget, delete or modify the impacted Work, and/or monitor time, cost and quantities.

8.03 FORMAL RESOLUTION OF CLAIMS

A. Option for direct discussions: At any time following Contractor’s initiation of formal dispute resolution, Owner may require that an officer of Contractor and Owner’s Assistant Vice President, Facilities Services, Capital (all with authority to settle) meet, confer, and attempt to resolve the Claim. If the Claim is not resolved during such meeting, or if no such meeting is requested, Contractor may bring no litigation against Owner unless Contractor complies with the procedures described in Sections 8.03B and C. This requirement cannot be waived except by an explicit written waiver signed by Owner and Contractor.

B. Mediation:

1. Mediation required: Claims, disputes, or other matters in controversy arising out of or related to the Contract shall be subject to mediation as a condition precedent to the initiation of binding dispute resolution. This requirement cannot be waived except by an explicit written waiver signed by both Owner and Contractor. Unless Owner and Contractor mutually agree in writing otherwise, all unresolved Claims shall be considered at a single mediation session that shall occur after Substantial Completion and prior to Final Acceptance by Owner.

2. Mediation procedure: The parties shall endeavor to resolve Claims by mediation. A request for mediation shall be delivered in writing to the other party to the Contract, and the parties shall promptly attempt to mutually agree on a mediator. If the parties do not agree on a mediator within 30 Days of a party’s demand, the mediation, unless the parties mutually agree otherwise, shall be administered by the American Arbitration Association in accordance with its Construction Industry Mediation Procedures in effect.
3. **Mediation fee to be shared:** The parties to the mediation shall share the mediator's fee and any filing fees equally. The mediation shall be held in the place where the Project is located, unless another location is mutually agreed upon. Agreements reached in mediation shall be enforceable as settlement agreements in any court having jurisdiction.

4. **Representatives with authority must attend mediation:** Representatives of Contractor and Owner must attend the mediation session in person with authority to settle the Claim. To the extent there are other parties in interest, such as A/E, insurers or Subcontractors, their representatives, also with authority to settle the Claim, shall also attend the mediation session in person.

**C. Litigation:** Contractor may bring no litigation on a Claim unless the Claim has been raised and considered in accordance with the procedures of this Part 8, including mandatory mediation. Contractor shall have the burden to demonstrate in any litigation that it has complied with all requirements of this Part 8. All unresolved Claims of Contractor shall be waived and released unless Contractor has complied with the time limits of the Contract Documents, and litigation is served and filed within 180 Days after the Date of Substantial Completion approved in writing by Owner. This requirement cannot be waived except by an explicit, written waiver signed by Owner and Contractor. The pendency of a mediation, which shall mean the time period between a party’s receipt of a written mediation demand and the date of the initial mediation session, shall stay this deadline for serving and filing a lawsuit. The deadline may also be stayed for an additional period by agreement of the parties or court order. Neither Contractor nor a Subcontractor, whether claiming under a bond or lien statute or otherwise, shall be entitled to attorneys’ fees directly or indirectly from Owner (but may recover attorneys’ fees from the bond or statutory retainage fund itself to the extent allowable under law).

**8.04 CLAIMS PROCESS**

A. **Notice and Claims:** Any Notice and any Claim of Contractor, whether under the Contract or otherwise, must be made pursuant to and in strict accordance with the applicable provisions of the Contract Documents. No act, omission, or knowledge, actual or constructive, of Owner or anyone for whose acts Owner is responsible shall in any way be deemed to be a waiver of the requirement for timely written Notice and a timely written Claim unless Owner and Contractor sign an explicit, unequivocal written waiver. The fact that Owner and Contractor may consider, discuss, or negotiate a Claim that has or may have been procedurally or substantively defective or untimely under the Contract shall not constitute a waiver of the provisions of the Contract Documents unless Owner and Contractor sign an explicit, unequivocal written waiver. Contractor acknowledges and agrees that Contractor’s failure to timely submit required Notices and/or timely submit Claims has a substantial impact upon and prejudices Owner, including but not limited to its inability to fully investigate or verify the Claim, mitigate damages, choose alternative options, adjust the budget, delete or modify the impacted Work, and/or monitor time, cost and quantities.

B. **Claim must cover all costs and be documented:** A Claim shall be deemed to cover all changes in cost and time (including direct, indirect, impact, and consequential) to which Contractor (and Subcontractors) may be entitled and may not contain reservations of rights without Owner’s written approval; any such unapproved reservations of rights shall be without effect. Any requests by Contractor for an adjustment in both the Contract Sum and Contract Time that arise out of the same event(s) shall be submitted together. A Claim must be fully substantiated and documented. At a minimum, a Claim shall contain the following information:
1. **Factual statement of Claim:** A detailed factual statement of the Claim for additional compensation and/or time, if any, providing all necessary dates, locations, and items of Work affected by the Claim, that confirms not only that Contractor suffered the damages claimed, but that the damages claimed were actually a result of the act, event, or condition complained of;

2. **Dates:** The date on which event(s) arose which gave rise to the Claim;

3. **Owner and A/E employee’s knowledgeable about Claim:** The name of each employee of Owner and/or A/E believed to be knowledgeable about the Claim;

4. **Support from Contract Documents:** The specific provisions of the Contract Documents that support the Claim;

5. **Identification of other supporting information:** The identification of any documents and the substance of any oral communications that support the Claim;

6. **Copies of supporting documentation:** Data and copies of any identified documents, other than the Contract Documents, that support the Claim, including without limitation a complete explanation as to why the relief sought is not within the scope of the Contract Documents;

7. **Details on Claim for Contract Time:** If an adjustment in the Contract Time is sought, the specific days and dates for which it is sought; the specific reasons Contractor believes an extension in the Contract Time should be granted, and Contractor’s analysis of its Progress Schedule to demonstrate the reason for the extension in Contract Time showing cause and analysis of the resultant delay to the critical path and other information required by the Contract Documents and Section 01 32 13, Project Schedule;

8. **Details on Claim for adjustment of Contract Sum:** If an adjustment in the Contract Sum is sought, the exact amount sought and a breakdown of that amount into the categories and with the detail required by Section 7.02; and

9. **Statement certifying Claim:** A statement certifying, under penalty of perjury, that the Claim is made in good faith, that the supporting cost and pricing data are true and accurate to the best of Contractor’s knowledge and belief, that the Claim is fully supported by the accompanying data, and that the amount requested accurately reflects the adjustment in the Contract Sum or Contract Time for which Contractor believes Owner is responsible.

C. **False Claims:** Contractor shall not make any negligent or fraudulent misrepresentations, concealments, errors, omissions, or inducements to Owner in the formation or performance of this Contract. If Contractor or a Subcontractor submits false or frivolous substantiation or a Claim to Owner, which for purposes of this Section 8.01C is defined as substantiation or a Claim based in whole or in part upon a materially incorrect fact, statement, representation, assertion, or record, Owner shall be entitled to collect from Contractor by offset or otherwise (without prejudice to any right or remedy of Owner) any and all costs and expenses, including investigation and consultant costs, incurred by Owner in investigating, responding to, and defending against such false or frivolous substantiation or Claim.

D. **Notification of surety:** Owner may, but is not obligated to, notify Contractor’s surety, if any, of the nature and amount of any claim it may assert against Contractor. If the claim relates to a possibility of Contractor’s default, Owner may, but is not obligated to, notify the surety and request the surety’s assistance in resolving the controversy.
E. **Liens:** If a Claim relates to or is the subject of a lien, the party asserting such Claim may proceed in accordance with applicable law to comply with the lien notice and filing deadlines.

F. **All Claims must be submitted for final resolution within the time period specified by applicable law:** Owner and Contractor shall commence all Claims and causes of action, whether in contract, tort, breach of warranty or otherwise, against the other arising out of or related to the Contract in accordance with the requirements of this Part 8 and within the time period specified by applicable law.

G. **Waiver of rights:** Any Claim of Contractor against Owner shall be conclusively deemed to have been waived by Contractor unless made in accordance with the requirements of Part 8.

H. **Owner may investigate:** To assist in the review of a Claim, Owner may at any time visit the Project site, communicate directly with Subcontractors, or request additional information (including requesting an audit as authorized below) in order to fully evaluate the issues raised by the Claim.

I. **Owner may audit Claims:** All Claims filed against Owner shall be subject to audit at any time following the filing of the Claim. Failure of Contractor or Subcontractors of any tier to permit Owner access to the books and records of Contractor or Subcontractors of any tier, or to maintain and retain sufficient records to allow Owner to verify all or a portion of the Claim, shall constitute a waiver of the Claim and shall bar any recovery.

J. **Contractor to make documents promptly available:** In support of Owner’s audit of any Claim, Contractor and any Subcontractor shall, upon request, promptly make available to Owner within seven Days of Owner’s request, at the office of Contractor or any requested Subcontractor during normal business hours, at least the following documents and other documents requested by Owner; failure to fully comply with this requirement shall constitute a material breach of contract and waiver of any Claim:

1. Daily time sheets and supervisor’s daily reports;
2. Collective bargaining agreements;
3. Insurance, welfare, and benefits records;
4. Payroll registers;
5. Earnings records;
6. Payroll tax forms;
7. Material invoices, requisitions, and delivery confirmations;
8. Material cost distribution worksheet;
9. Equipment records (list of company equipment, rates, etc.);
11. Contracts between Contractor and each of its Subcontractors, and all lower-tier Subcontractor contracts and supplier contracts;
12. Subcontractors’ and agents’ payment certificates;
13. Cancelled checks (payroll and vendors);

14. Job cost reports, including job cost summary and job cost detail reports, related labor and
equipment reports, and monthly totals;

15. Job payroll ledger;

16. Planned resource loading schedules and summaries;

17. General ledger;

18. Cash disbursements journal;

19. Financial statements for all years during performance of the Work. In addition, Owner
may require, if it deems it appropriate, additional financial statements for 3 years
preceding execution of the Work;

20. Depreciation records on all company equipment whether these records are maintained by
the company involved, its accountant, or others;

21. If a source other than depreciation records is used to develop costs for Contractor’s
internal purposes in establishing the actual cost of owning and operating equipment, all
such other source documents;

22. All non-privileged documents which relate to each and every Claim together with all
documents which support the amount of any adjustment in the Contract Sum or Contract
Time sought by each Claim;

23. Work sheets or software used to prepare and establish the cost components for items of
the Claim, including but not limited to labor, benefits and insurance, materials, equipment,
Subcontractors, all documents that establish the time periods, individuals involved, the
hours for the individuals, and the rates for the individuals;

24. Work sheets, software, and all other documents used by Contractor to prepare its bid;

25. The above items for its Subcontractors; and

26. Any other information in any form or media not expressly protected from discovery by
applicable law.

K. Contractor to cooperate and provide facilities for audit: The audit may be performed by
employees or representatives of Owner. Contractor and its Subcontractors shall provide
adequate facilities acceptable to Owner for the audit during normal business hours. Contractor
and all Subcontractors shall make a good faith effort to cooperate with Owner’s auditors.

L. Reciprocal RCW 42.56 rights: Contractor agrees, on behalf of itself and Subcontractors, that any
invocation of RCW 42.56 at any time by Contractor or a Subcontractor, or their respective
representatives, shall initiate an equivalent right to disclosures from Contractor and
Subcontractors for the benefit of Owner. Failure to fully comply with these requirements shall
constitute a material breach of the Contract and shall constitute a waiver of all Claims by
Contractor and any Subcontractor that does not fully comply.
PART 9 - TERMINATION OF THE WORK

9.01 TERMINATION BY OWNER FOR CAUSE

A. 7 Day Notice to Terminate for Cause: Owner may, upon 7 Days written notice to Contractor and to its surety, terminate (without prejudice to any right or remedy of Owner) the Work, or any part of it, for cause upon the occurrence of any one or more of the following events:

1. Contractor fails to prosecute Work: Contractor fails to prosecute the Work or any portion thereof with sufficient diligence to ensure Substantial Completion of the Work within the Contract Time;

2. Contractor bankrupt: Contractor is adjudged bankrupt, makes a general assignment for the benefit of its creditors, or a receiver is appointed on account of its insolvency;

3. Contractor fails to correct Work: Contractor fails in a material way to replace or correct Work not in conformance with the Contract Documents;

4. Contractor fails to supply workers or materials: Contractor repeatedly fails to supply skilled workers or proper materials or equipment;

5. Contractor failure to pay Subcontractors or labor: Contractor repeatedly fails to make prompt payment due to Subcontractors or for labor;

6. Contractor violates laws: Contractor materially disregards or fails to comply with laws, ordinances, rules, regulations, or orders of any public authority having jurisdiction; or

7. Contractor in material breach of Contract: Contractor is otherwise in material breach of any provision of the Contract Documents.

B. Owner's actions upon termination: Upon termination, Owner may at its option:

1. Take possession of Project site: Take possession of the Project site and take possession of or use all materials, equipment, tools, and construction equipment and machinery thereon owned by Contractor to maintain the orderly progress of, and to finish, the Work;

2. Accept assignment of Subcontracts: Accept assignment of subcontracts pursuant to Section 5.20; and

3. Finish the Work: Finish the Work by whatever other reasonable method it deems expedient.

C. Surety's role: Owner's rights and duties upon termination are subject to the prior rights and duties of the surety, if any, obligated under any bond provided in accordance with the Contract Documents.

D. Contractor's required actions: When Owner terminates the Work in accordance with this section, Contractor shall take the actions set forth in paragraph 9.02B, and shall not be entitled to receive further payment until the Work is accepted.

E. Contractor to pay for unfinished Work: Contractor shall not be entitled to receive further payment until the Work is finished. If the unpaid balance of the Contract Sum exceeds the cost of finishing the Work, including compensation for A/E’s services and expenses made necessary thereby and any other extra costs or damages incurred by Owner in completing the Work, or as a result of
Contractor's actions, such excess shall be paid to Contractor. If such costs exceed the unpaid balance, Contractor shall pay the difference to Owner. These obligations for payment shall survive termination.

F. Contractor and Surety still responsible for Work performed: Termination of the Work in accordance with this section shall not relieve Contractor or its surety of any responsibilities for Work performed.

G. Conversion of “Termination for Cause” to “Termination for Convenience”: If Owner terminates Contractor for cause and it is later determined that none of the circumstances set forth in paragraph 9.01A exist, then such termination shall be deemed a termination for convenience pursuant to Section 9.02.

9.02 TERMINATION BY OWNER FOR CONVENIENCE

A. Owner Notice of Termination for Convenience: Owner may, upon written notice, terminate (without prejudice to any right or remedy of Owner) the Work, or any part of it, for the convenience of Owner.

B. Contractor response to termination Notice: Unless Owner directs otherwise, after receipt of a written notice of termination for either cause or convenience, Contractor shall promptly:

1. Cease Work: Stop performing Work on the date and as specified in the notice of termination;

2. No further orders or Subcontracts: Place no further orders or subcontracts for materials, equipment, services or facilities, except as may be necessary for completion of such portion of the Work as is not terminated;

3. Cancel orders and Subcontracts: Cancel all orders and subcontracts, upon terms acceptable to Owner, to the extent that they relate to the performance of Work terminated;

4. Assign orders and Subcontracts to Owner: Assign to Owner all of the right, title, and interest of Contractor in all orders and subcontracts;

5. Take action to protect the Work: Take such action as may be necessary or as directed by Owner to preserve and protect the Work, Project site, and any other property related to this Project in the possession of Contractor in which Owner has an interest; and

6. Continue performance not terminated: Continue performance only to the extent not terminated.

C. Terms of adjustment in Contract Sum if Contract terminated: If Owner terminates the Work or any portion thereof for convenience, Contractor shall be entitled to make a request for an equitable adjustment for its reasonable direct costs incurred prior to the effective date of the termination, plus reasonable allowance for overhead and profit on Work performed prior to termination, plus the reasonable administrative costs of the termination, but shall not be entitled to any other costs or damages, whatsoever, provided however, the total sum payable upon termination shall not exceed the Contract Sum reduced by prior payments. Contractor shall be required to make its request in accordance with the provisions of Part 7.

D. Owner to determine whether to adjust Contract Time: If Owner terminates the Work or any portion thereof for convenience, the Contract Time shall be adjusted as determined by Owner.
9.03 TERMINATION BY CONTRACTOR FOR CAUSE

A. Contractor termination: Except as provided by RCW 60.28.080, Contractor may terminate the Contract for any of the following reasons:

1. Issuance of an order of a court or other public authority having jurisdiction that requires all Work to be stopped permanently;

2. An act of government, such as a declaration of national emergency, that requires all Work to be stopped permanently;

3. Because Owner has improperly not made payment of undisputed amounts within the time stated in the Contract Documents; or

4. The Work is stopped for a period of 60 consecutive Days through no act or fault of Contractor, a Subcontractor, or their agents or employees or any other persons or entities performing portions of the Work under direct or indirect contract with Contractor,

B. Contractor termination procedure: If one of these reasons exists, Contractor may, upon seven Days’ written Notice to Owner (during which period Owner has the opportunity to cure), terminate the Contract and recover from Owner payment for Work executed in accordance with the Contract Documents, including reasonable overhead and profit on Work executed and costs incurred by reason of such termination. The total recovery of Contractor shall not exceed the unpaid balance of the Contract Sum.

PART 10 - MISCELLANEOUS PROVISIONS

10.01 GOVERNING LAW

Applicable law and venue: The Contract Documents and the rights of the parties herein shall be governed by the internal laws of the state of Washington, without regard to its choice-of-law provisions. Venue shall be in the county in which the Project is located, unless otherwise specified.

10.02 SUCCESSORS AND ASSIGNS

Bound to successors; Assignment of Contract: Owner and Contractor respectively bind themselves, their partners, successors, assigns, and legal representatives to the other party hereto and to the partners, successors, assigns, and legal representatives of such other party in respect to covenants, agreements, and obligations contained in the Contract Documents. Neither party shall assign the Contract without written consent of the other, except that Contractor may assign the Work for security purposes to a bank or lending institution authorized to do business in the state of Washington. If either party attempts to make an assignment without such consent, that party shall nevertheless remain legally responsible for all obligations set forth in the Contract Documents. If a majority of the ownership or the control of Contractor is acquired by a third party, and such acquisition reasonably imperils performance or creates a conflict of interest that Owner, in its sole discretion, cannot reasonably reconcile, then Owner may terminate this Contract at any time for cause under Section 9.01.

10.03 MEANING OF WORDS

Meaning of words used in Contract Documents: Unless otherwise stated in the Contract Documents, words that have well-known technical or construction industry meanings are used in the Contract Documents in accordance with such recognized meanings. Reference to standard Specifications, manuals, or codes of any technical society, organization, or association, or to the code of any governmental authority, whether such reference is specific or by implication, shall be to the latest
standard specification, manual, or code in effect on the date for submission of bids, except as may be otherwise specifically stated. Wherever in the Drawings and Specifications an article, device, or piece of equipment is referred to in the singular manner, such reference shall apply to as many such items as are shown on the Drawings, or required to complete the installation.

10.04 RIGHTS AND REMEDIES

A. No waiver of rights: Waiver of any provisions of the Contract Documents must be in writing and authorized by Owner. No other waiver is valid on behalf of Owner. No action, delay in acting, or failure to act by Owner or A/E shall constitute a waiver of a right or duty afforded under the Contract Documents, nor shall action, delay in acting, or failure to act constitute approval or an acquiescence in a breach therein, or otherwise prejudice the right of Owner to enforce a right or remedy at any subsequent time, except as may be specifically agreed in writing.

B. Rights under Contract do not limit other rights: Duties and obligations imposed by the Contract Documents and rights and remedies available thereunder shall be in addition to and not a limitation of duties, obligations, rights and remedies otherwise imposed or available by law.

C. If portion of Contract is void, remainder is enforceable: If any portion of this Contract is held to be void or unenforceable, the remainder of the Contract shall be enforceable without such portion.

10.05 CONTRACTOR REGISTRATION AND COMPLIANCE

A. Contractor must be registered and licensed: Pursuant to RCW 39.06, Contractor shall be registered and licensed as required by the laws of the State of Washington, including but not limited to RCW 18.27. Contractor shall also have a current state unified business identifier number; have industrial insurance coverage for Contractor’s employees working in Washington as required in Title 51 RCW; have an employment security department number as required in Title 50 RCW; have a state excise tax registration number as required in Title 82 RCW; and not be disqualified from bidding on any public works contract under RCW 39.06.010 (unregistered or unlicensed contractors) or RCW 39.12.065(3) (prevailing wage violations).

B. Employer contributions: Pursuant to RCW 50.24, "Contributions by Employers," in general and RCW 50.24.130 in particular, Contractor shall pay contributions for wages for personal services performed under this Contract or arrange for a bond acceptable to the Commissioner.

C. Apprenticeship requirements: If the Contract Sum for the Project exceeds one million dollars, Contractor shall comply with all applicable apprenticeship requirements.

10.06 TIME COMPUTATIONS

Computing time: When computing any period of time, the day of the event from which the period of time begins shall not be counted. The last day is counted unless it falls on a weekend or legal holiday, in which event the period runs until the end of the next day that is not a weekend or holiday. When the period of time allowed is less than 7 days, intermediate Saturdays, Sundays, and legal holidays are excluded from the computation.

10.07 RECORDS RETENTION

Six year records retention period: The wage, payroll, and cost records of Contractor, and its Subcontractors, and all records subject to audit in accordance with Section 8.03, shall be retained for a period of not less than 6 years after the date of Final Acceptance.
10.08 THIRD-PARTY AGREEMENTS

No third party relationships created: The Contract Documents shall not be construed to create a contractual relationship of any kind between: A/E and Contractor; Owner and any Subcontractor; or any persons other than Owner and Contractor.

10.09 ANTITRUST ASSIGNMENT

Contractor assigns overcharge amounts to Owner: Owner and Contractor recognize that in actual economic practice, overcharges resulting from antitrust violations are in fact usually borne by the purchaser. Therefore, Contractor hereby assigns to Owner any and all claims for such overcharges as to goods, materials, and equipment purchased in connection with the Work performed in accordance with the Contract Documents, except as to overcharges which result from antitrust violations commencing after the Contract Sum is established and which are not passed on to Owner under a Change Order. Contractor shall put a similar clause in its Subcontracts, and require a similar clause in its sub-Subcontracts, such that all claims for such overcharges on the Work are passed to Owner by Contractor.

10.10 HEADINGS AND CAPTIONS

Headings for convenience only: All headings and captions used in these General Conditions are only for convenience of reference, and shall not be used in any way in connection with the meaning, effect, interpretation, construction, or enforcement of the General Conditions, and do not define the limit or describe the scope or intent of any provision of these General Conditions.

10.11 INDEPENDENT CONTRACTOR

Contractor is independent contractor: Contractor shall be and operate as an independent contractor in the performance of the Work and shall have complete control over and responsibility for all personnel performing the Work. Contractor is not authorized to enter into any agreements or undertakings for or on behalf of Owner or to act as or be an agent or employee of Owner.

10.12 OWNER’S ROLE

Owner’s role is limited. Owner will not have control over, charge of, or responsibility for, the construction means, methods, techniques, sequences or procedures, or for the safety precautions and programs in connection with the Work, since these are solely Contractor’s responsibility under the Contract Documents. The presence of Owner at the Project site shall not in any manner be construed as assurance that the Work is being completed in compliance with the Contract Documents, nor as evidence that any requirement of the Contract Documents of any kind, including Notice, has been met or waived. Owner will not be responsible for Contractor’s failure to perform the Work in accordance with the requirements of the Contract Documents. Owner will not have control over or charge of and will not be responsible for acts or omissions of Contractor, Subcontractors, or their agents or employees, or any other persons or entities performing portions of the Work.

END OF SECTION 00 72 00
PART 1 GENERAL

1.01 SUMMARY

A. Contractor shall perform the entire Work in accordance with the Contract Documents.

B. Without limiting the requirements of the Contract Documents, the Work of the Contract can be summarized as follows:

1. The WSU Spokane South Campus Parking Lot Expansion Project will modify access points into the Green 5 Parking Lot. The base bid will include approximately 4,680 SF of asphalt paving associated with a new access point to E. Spokane Falls Blvd, and approximately 4,680 SF of asphalt paving associated with the access point to N. Sherman Street. Project will also include traffic control, associated demolition, storm drainage, electrical lighting, and landscaping improvements.

C. Expected Owner-supplied Contractor-installed Work: NOT USED

D. Expected Work by Owner: NOT USED

1.02 SCHEDULE OF ALTERNATES

A. Without limiting the requirements of the Contract Documents, the Work of the Alternates can be summarized as follows:

1. Develop 20,250 SF of parking, lighting systems, expanded storm drainage and landscaping along N. Sherman Street.

2. Construct 6,300 SF of concrete, lighting/electrical systems, and landscaping for an extension of the central plaza located to the north of E. Spokane Falls Blvd. Improvements are located on the west side of the Green 5 Parking Lot.

1.03 SCHEDULE OF ALLOWANCES – NOT USED

1.04 SCHEDULE OF UNIT PRICES – NOT USED

1.05 GENERAL INFORMATION

A. Owner and Owner’s Designated Representative:

1. Owner: Board of Regents
   Washington State University
   Pullman, WA 99164-1045

2. Owner’s Designated Representative:
   a. All Owner capital projects are administered by the Department of Facilities Services, Capital. Project specific designated
representatives are listed within the Agreement.

3. Consulting Services: Owner has retained an Architect/Engineer to design the entire Project. The Architect/Engineer is identified below, as are others involved as members of the Owner team working on the Project:

   a. Architect/Engineer: Bernardo Wills Architects PC, Spokane, WA
   b. Civil Engineer: David Evans & Associates, Spokane, WA

1.06 SPECIAL CONDITIONS

A. Site Access:

   1. Can be reached off of Spokane Falls Boulevard.

B. Schedule and Phasing:

   1. The existing access off of Spokane Falls Boulevard that services the South Campus Parking Lot will need to be maintained until such time that the new access constructed as part of the base bid are paved and signage is installed. No demolition to the existing access point will be allowed until the new access points are complete. The existing parking lot has limited access points.

C. Owner Occupancy:

   1. Sections of the existing South Campus Parking Lot will be blocked to allow the contractor to construct and stage for the construction of the new access points. Contractor will need to provide barricades to isolate the work area from the active portions of the South Campus Parking Lot. Owner will not utilize the new access points until construction is complete.

END OF SECTION 01 11 00
PART 1 GENERAL

1.01 SUMMARY

A. This Section includes the administrative and procedural requirements for executing changes in the Work. This Section is subject to and governed by the Agreement and General Conditions. In the event of any conflict, the Agreement and General Conditions will have a higher precedence as established in the General Conditions.

1.02 SUBMITTALS

A. Contractor shall submit a breakdown of its actual wage rates prior to commencement of construction activities. The breakdown must show:

1. Basic wage rate (Based on L&I Intent to Pay Prevailing Wages);
2. Fringe Package (Based on L&I Intent to Pay Prevailing Wages);
3. FUI (Federal Unemployment Insurance);
4. FICA (Federal Insurance Compensation Act);
5. SUI (State Unemployment Compensation Act);
6. Medicare; and
7. WC (Workers Compensation).

B. Contractor shall submit detailed supporting documentation to verify the above rates, if requested by Owner. All such rates shall be subject to audit.

C. Contractor shall submit prior to commencement of construction activities a list of all equipment that it anticipates will be used on the Project and the actual operating cost of each piece of equipment. The General Conditions describe allowable equipment charges. All costs shall be subject to audit.

1.03 CONTRACT CHANGE PROPOSAL PROCEDURES

A. Contractor shall maintain an Issues Log/ CCP Log as described in the General Conditions:

1. The action status shall indicate which party is currently responsible and when it is appropriate to submit a CCP to Owner. Contractor shall submit a Contract Change Proposal (CCP) with Substantiating Documentation, as described in subsection C below, to Owner within 7 Days of this action status change.

2. Upon final agreement and authorization by Owner a CCP may be incorporated into the Contract via Change Order and shall be reflected on the Issues Log.
B. Direction to perform Work:

1. Owner may directly order Work by a written Work Directive (WD). WDs may be unilateral or bilateral as described in the General Conditions and may be issued on a fixed price or on a "cost-not-to-exceed" basis. The WD may include the following:

   a. A detailed description of the proposed change, products, and location of modification to the Work;
   b. Supplementary or revised Drawings and/or Specifications; and
   c. Projected time for making the change and a statement as to whether overtime work is, or is not, acceptable.

C. Substantiating Documentation required with all CCPs:

1. Contractor shall provide back-up documentation required to substantiate any proposed change in the following format:

   a. CCP narrative, including:
      1) Description of proposed change. In order to allow for efficient review of a change proposal Contractor shall provide enough narrative to the line item breakdown to allow Owner to properly assess that the change is fair and reasonable;
      2) Cause of or reason for making change with a statement of why proposed change is not covered by Contract Documents
      3) Both credited and additive elements relating to a change in Contract Sum and/or Contract Time;
      4) A specific period of time during which Contractor’s pricing will be considered valid;
      5) Any schedule considerations that may trigger further impact to the Contract Time if acceptance of the proposed change if delayed beyond a specific date; and
      6) Date change Work is to be completed.

   b. Owner supplied Change Proposal Submittal Form.

   c. CCP Cost Estimate Detail Sheet(s), or other form acceptable to Owner, including:
      1) Line-item estimate detailing material, labor, equipment, Subcontractor, and supplier costs and quantities; and
      2) Subcontractor and supplier proposals with supporting line-item estimates.

   d. CCP Progress Schedule with Contemporaneous Period Analysis detailing if any impact to the planned progress of the Work and
critical path.

e. Other supporting documentation, as appropriate.

D. Correlation with Contractor's Submittals:

1. Application for Payment forms shall record each Unilateral and Bilateral Change Order as a separate item of Work.

2. The Progress Schedule shall be revised to reflect changes in the Contract Time.

3. Project Record shall incorporate all changed Work.

END OF SECTION 01 26 00
PART 1   GENERAL

1.01  SUMMARY

A. This Section includes procedures for preparation and submittal of Applications for Payment.

1.02  SUBMITTALS

A. Prior to submitting its first Application for Payment, Contractor shall:

1. Submit a preliminary Progress Schedule per Section 01 32 13 – Progress Schedule.

2. If requested, submit a projected monthly cash-flow analysis for the duration of the Project.

3. Submit an approved Intent to Pay Prevailing Wages form prior to commencing the Work. An approved Intent to Pay Prevailing Wages form must be on file with Owner for each classification of laborers, workers, or mechanics employed by Contractor or Subcontractors whose Work is included in an Application for Payment.

4. “Washington State Prevailing Wage Rates for Public Works Contracts/Spokane County” are made a part of the Contract Documents and are included at the end of this Section. It is Contractor’s responsibility to verify with the Washington State Department of Labor and Industries the most current and applicable prevailing wage rates for this Project.

5. Submit and receive approval of the Schedule of Values per Section 01 29 73 – Schedule of Values, and the General Conditions. All Applications for Payment shall be in the same format.

6. Submit a list of all Subcontractors with points of contact and other contact information, including phone number, email address, and mailing address.

7. Submit a list of all major material suppliers with points of contact and other contact information, including phone number, email address, and mailing address.

8. Submit Retainage Option Form to Owner for the disposition of retainage funds.

   a. In accordance with Chapter 60.28 of the Revised Code of Washington (RCW), Owner shall reserve retainage not to exceed 5% of the monies earned by Contractor as a trust fund for the protection and payment of:

      1) The claims of any person and/or Owner arising out of or relating to Work performed on the Project; and

      2) The State with respect to taxes, fees, or penalties that may
be imposed and due from Contractor (see General Conditions).

b. Retainage will be released per Section 01 70 00 - Project Close-Out.

c. At the option of Contractor, the moneys reserved by Owner shall be:

1) Retained in a fund by Owner;

2) Bonded for all of the retainage using a bond form acceptable to Owner;

3) Placed in escrow with a bank or trust company by Owner.

a) Escrow: If the retained funds are to be placed in escrow, Contractor will select the escrow agent, subject to approval by Owner. The selected agent must be a bank or trust company in the State of Washington.

b) Escrow Agent: If Contractor elects the escrow option, an escrow agreement shall be executed by Contractor, Owner, and bank or trust company. Three copies of the agreement should be completed and executed by Contractor and returned to Owner for execution; Owner will forward copies to the bank or trust company for receipt, acceptance, and execution. The bank or trust company will retain one copy and return one copy each to Contractor and Owner. A completed and signed escrow agreement must be on file with Owner before Contractor’s first Application for Payment is processed.

c) Escrow Investments: The bank or trust company may invest the retained funds in bonds and other securities selected by Contractor, except stocks, subject to the written approval of Owner.

d) The investments selected must mature on or prior to the date 45 Days following Final Acceptance of the Work. Interest on such investments may be paid to Contractor as it accrues.

e) Escrow Costs and Fees: All escrow costs and fees shall be paid by Contractor.

f) Release of Escrow Investments to Contractor: Retainage will be released per Section 01 70 00 - Project Close-Out. Once Contractor has fully complied with the Contract Documents and statute, Owner shall issue written instructions to the bank or trust company to release to Contractor the investment held in escrow.
B. Draft Application for Payment:

1. Contractor shall submit a draft, itemized Application for Payment within the last 7 Days of the month.

2. The draft application does not constitute a payment request and shall not be signed.

3. Contractor shall carefully check all extensions, totals, and required information for accuracy before submittal.

4. Contractor and Owner may meet to confer regarding the current progress of the Work and the amount of payment to which Contractor is entitled. Owner may request that Contractor provide supporting documentation substantiating its right to payment. Contractor is not entitled to make a final payment request, nor is any payment due Contractor, until such data is furnished. Contractor may include in its Application for Payment projected costs to the end of the month.

   a. Fill in the following information within Owner’s Application for Payment form:

      1) Percentage of Work completed based upon the approved schedule of values.

      2) List Change Orders approved by Owner prior to submission date. Use Owner’s designations. Do not bill for changed Work until a fully executed Change Order has been received.

      3) Certification of Participation WBE and MBEs, all certification types acceptable, supply this regardless of having firms to report upon.

      4) List all Subcontractors that have performed Work at the site during the pay period.

      5) If applicable, Apprentice/Journeyman Participation.

5. Contractor shall submit or make available for review the following prior to the draft Application for Payment:

   a. Project Record; (see Section 01 78 39 – Project Record)

   b. Updated Progress Schedule in native format (see section 01 32 13 – Progress Schedule);

   c. Contractor Quality Control Reports (see Section 01 45 00 - Quality Control); and

   d. Stored Materials: Requests for payment of stored materials may only be made for materials properly stored on or off-site and in full compliance with the General Conditions.
C. Application for Payment:

1. Contractor may not submit the approved Application for Payment (or payment will be withheld) until all requirements of the draft application for payment are met.

2. Upon approval of the Draft Application for Payment, contractor will be authorized to submit the agreed upon Application for Payment for processing and payment. This application for payment shall be signed by hand by a responsible officer of the Contractor and may be submitted in scanned format electronically.

3. Formal submittal must include all parts of the Application for Payment form.

4. Owner shall make progress payments in such amounts as it determines are properly due within 30 Days of receipt of a properly executed Application for Payment.

5. Owner shall notify Contractor in accordance with Chapter 39.76 RCW if the Application for Payment does not comply with the requirements of the Contract Documents.

D. Disputed Amounts: If Contractor believes it is entitled to payment for Work performed during the prior calendar month in addition to the agreed-upon amount, Contractor may, also within the same period, submit to Owner along with the approved Application for Payment a separate, written payment request specifying the exact additional amount claimed due, the category in the Schedule of Values in which the payment is claimed due, the specific Work for which the additional amount is due, and why the additional payment is due. Furthermore, for the submittal to be considered, Contractor and all Subcontractors shall file with Owner by the same date certified copies of all payroll records relating to the additional amount due, pursuant to WAC 296-127-320.

E. Payments to Subcontractors: Contractor shall pay each Subcontractor no later than 10 Days after receipt of payment from Owner the amount to which the Subcontractor is entitled. Contractor shall, by appropriate agreement with each Subcontractor, require each Subcontractor to make payments to lower-tier Subcontractors in a similar manner.

1. Applications for Payment shall not request payment for portions of the Work that Contractor does not intend to pay a Subcontractor, unless such Work has been performed by others whom Contractor intends to pay.

2. If, after making an Application for Payment but before paying a Subcontractor for its performance covered by the Application, Contractor discovers that part or all of the payment otherwise due to the Subcontractor is subject to withholding from the Subcontractor under the Subcontract (such as for unsatisfactory performance or non-payment of lower-tier Subcontractors), Contractor may withhold the amount as allowed under the Subcontract, but it shall:
   a. Give the Subcontractor and Owner written notice of the
withholding as soon as practicable once Contractor determines the cause for the withholding but before the due date of the Subcontractor payment;

b. Include the reasons for the withholding and the actions the Subcontractor must take to release the payment; and

c. Once Subcontractor has taken the required remedial actions, pay Subcontractor within 8 Days.

3. Owner may, at its sole option, issue joint checks to Contractor and to any Subcontractor. If Owner makes payments by joint check, such value shall be reflected on the next Application for Payment.

F. Application for Final Payment:

1. Application for Final Payment will be accepted for processing only after Contractor has completed the requirements of Final Completion as described in Section 01 70 00 – Project Close-Out.

G. Release of Retainage:

1. Retainage will be released per Section 01 70 00 - Project Close-Out.

END OF SECTION 01 29 00
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: 7/23/2020

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<thead>
<tr>
<th>County</th>
<th>Trade</th>
<th>Job Classification</th>
<th>Wage</th>
<th>Holiday</th>
<th>Overtime</th>
<th>Note</th>
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<td>Diver</td>
<td>$99.34</td>
<td>7E</td>
<td>4X</td>
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<td>Spokane</td>
<td>Divers &amp; Tenders</td>
<td>Diver on Standby</td>
<td>$58.11</td>
<td>7E</td>
<td>4X</td>
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<td>Spokane</td>
<td>Divers &amp; Tenders</td>
<td>Diver Tender</td>
<td>$57.11</td>
<td>7E</td>
<td>4X</td>
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<td>Spokane</td>
<td>Divers &amp; Tenders</td>
<td>Diving Master</td>
<td>$67.86</td>
<td>7E</td>
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<td>Spokane</td>
<td>Divers &amp; Tenders</td>
<td>Manifold Operator</td>
<td>$57.11</td>
<td>7E</td>
<td>4X</td>
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<td>Spokane</td>
<td>Divers &amp; Tenders</td>
<td>Manifold Operator Mixed Gas</td>
<td>$61.11</td>
<td>7E</td>
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<td>Spokane</td>
<td>Divers &amp; Tenders: Remote Operated Vehicle Operator</td>
<td>$57.11</td>
<td>7E</td>
<td>4X</td>
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<tr>
<td>Spokane</td>
<td>Divers &amp; Tenders: Remote Operated Vehicle Tender/Technician</td>
<td>$54.54</td>
<td>7E</td>
<td>4X</td>
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<td>Spokane</td>
<td>Divers &amp; Tenders: Surface RCV &amp; ROV Operator</td>
<td>$57.11</td>
<td>7E</td>
<td>4X</td>
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<td>Spokane</td>
<td>Dredge Workers: Assistant Engineer</td>
<td>$56.44</td>
<td>5D</td>
<td>3F</td>
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<td>Spokane</td>
<td>Dredge Workers: Boatmen</td>
<td>$56.44</td>
<td>5D</td>
<td>3F</td>
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<td>Spokane</td>
<td>Dredge Workers: Engineer Welder</td>
<td>$57.51</td>
<td>5D</td>
<td>3F</td>
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<td>Spokane</td>
<td>Dredge Workers: Leverman, Hydraulic</td>
<td>$58.67</td>
<td>5D</td>
<td>3F</td>
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<td>Spokane</td>
<td>Dredge Workers: Mates</td>
<td>$56.44</td>
<td>5D</td>
<td>3F</td>
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<td>Spokane</td>
<td>Dredge Workers: Oiler</td>
<td>$56.00</td>
<td>5D</td>
<td>3F</td>
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<td>Spokane</td>
<td>Drywall Applicator: Journey Level</td>
<td>$47.37</td>
<td>7E</td>
<td>4X</td>
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<td>Spokane</td>
<td>Drywall Tapers: Journey Level</td>
<td>$42.54</td>
<td>7E</td>
<td>1P</td>
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<td>Spokane</td>
<td>Electrical Fixture Maintenance Workers: Journey Level</td>
<td>$30.89</td>
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<td>Spokane</td>
<td>Electricians - Inside: Journeyman</td>
<td>$55.71</td>
<td>7G</td>
<td>1E</td>
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<td>Spokane</td>
<td>Electricians - Motor Shop: Craftsman</td>
<td>$15.37</td>
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<td>Spokane</td>
<td>Electricians - Motor Shop: Journey Level</td>
<td>$14.69</td>
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<td>Spokane</td>
<td>Electricians - Powerline Construction: Cable Splicer</td>
<td>$82.39</td>
<td>5A</td>
<td>4D</td>
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<td>Spokane</td>
<td>Electricians - Powerline Construction: Certified Line Welder</td>
<td>$75.64</td>
<td>5A</td>
<td>4D</td>
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<tr>
<td>Spokane</td>
<td>Electricians - Powerline Construction: Groundperson</td>
<td>$49.17</td>
<td>5A</td>
<td>4D</td>
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<td>Spokane</td>
<td>Electricians - Powerline Construction: Heavy Line Equipment Operator</td>
<td>$75.64</td>
<td>5A</td>
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<td>Spokane</td>
<td>Electricians - Powerline Construction: Journey Level Lineperson</td>
<td>$75.64</td>
<td>5A</td>
<td>4D</td>
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<td>Spokane</td>
<td>Electricians - Powerline Construction: Line Equipment Operator</td>
<td>$64.54</td>
<td>5A</td>
<td>4D</td>
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<td>Spokane</td>
<td>Electricians - Powerline Construction: Meter Installer</td>
<td>$49.17</td>
<td>5A</td>
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<td>Spokane</td>
<td>Electricians - Powerline Construction: Pole Sprayer</td>
<td>$75.64</td>
<td>5A</td>
<td>4D</td>
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<td>Spokane</td>
<td>Electricians - Powerline Construction: Powderperson</td>
<td>$56.49</td>
<td>5A</td>
<td>4D</td>
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<td>Spokane</td>
<td>Electronic Technicians: Journey Level</td>
<td>$44.50</td>
<td>5I</td>
<td>1B</td>
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<tr>
<td>Spokane</td>
<td>Elevator Constructors: Mechanic</td>
<td>$97.31</td>
<td>7D</td>
<td>4A</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Elevator Constructors: Mechanic In Charge</td>
<td>$105.06</td>
<td>7D</td>
<td>4A</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Fabricated Precast Concrete Products: Journey Level</td>
<td>$20.23</td>
<td>1</td>
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<td>Spokane</td>
<td>Fabricated Precast Concrete Products: Journey Level - In-Factory Work Only</td>
<td>$20.23</td>
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<td>Spokane</td>
<td>Fence Erectors: Fence Erector</td>
<td>$41.04</td>
<td>7B</td>
<td>1M</td>
<td>View</td>
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<td>Spokane</td>
<td>Fence Erectors: Fence Erector</td>
<td>$41.04</td>
<td>7B</td>
<td>1M</td>
<td>View</td>
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<td>Spokane</td>
<td>Flaggers: Journey Level</td>
<td>$38.94</td>
<td>7B</td>
<td>1M</td>
<td>View</td>
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<td>Spokane</td>
<td>Glaziers: Journey Level</td>
<td>$31.59</td>
<td>7L</td>
<td>4L</td>
<td>View</td>
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<td>Spokane</td>
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<tr>
<td><strong>Heat &amp; Frost Insulators And Asbestos Workers</strong></td>
<td>Journey Level</td>
<td></td>
<td>$51.04</td>
<td>5K</td>
<td>1U</td>
<td>View</td>
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<tr>
<td><strong>Heating Equipment Mechanics</strong></td>
<td>Journey Level</td>
<td></td>
<td>$56.61</td>
<td>6Z</td>
<td>1B</td>
<td>View</td>
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<tr>
<td><strong>Hod Carriers &amp; Mason Tenders</strong></td>
<td>Journey Level</td>
<td></td>
<td>$41.39</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
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<tr>
<td><strong>Industrial Power Vacuum Cleaner</strong></td>
<td>Journey Level</td>
<td></td>
<td>$13.50</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
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<tr>
<td><strong>Inland Boatmen</strong></td>
<td>Journey Level</td>
<td></td>
<td>$13.50</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
</tr>
<tr>
<td><strong>Inspection/Cleaning/Sealing Of Sewer &amp; Water Systems By Remote Control</strong></td>
<td>Cleaner Operator, Foamer Operator</td>
<td></td>
<td>$13.50</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
</tr>
<tr>
<td><strong>Inspection/Cleaning/Sealing Of Sewer &amp; Water Systems By Remote Control</strong></td>
<td>Grout Truck Operator</td>
<td></td>
<td>$13.50</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
</tr>
<tr>
<td><strong>Inspection/Cleaning/Sealing Of Sewer &amp; Water Systems By Remote Control</strong></td>
<td>Head Operator</td>
<td></td>
<td>$13.50</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
</tr>
<tr>
<td><strong>Inspection/Cleaning/Sealing Of Sewer &amp; Water Systems By Remote Control</strong></td>
<td>Technician</td>
<td></td>
<td>$13.50</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
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<tr>
<td><strong>Inspection/Cleaning/Sealing Of Sewer &amp; Water Systems By Remote Control</strong></td>
<td>Tv Truck Operator</td>
<td></td>
<td>$13.50</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
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<td><strong>Insulation Applicators</strong></td>
<td>Journey Level</td>
<td></td>
<td>$47.37</td>
<td>7E</td>
<td>4X</td>
<td>8N</td>
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<td><strong>Ironworkers</strong></td>
<td>Journeyman</td>
<td></td>
<td>$63.06</td>
<td>7N</td>
<td>1O</td>
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<tr>
<td><strong>Laborers</strong></td>
<td>Air And Hydraulic Track Drill</td>
<td></td>
<td>$41.58</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
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<tr>
<td><strong>Laborers</strong></td>
<td>Asphalt Raker</td>
<td></td>
<td>$41.58</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
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<tr>
<td><strong>Laborers</strong></td>
<td>Asphalt Roller, Walking</td>
<td></td>
<td>$41.31</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
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<tr>
<td><strong>Laborers</strong></td>
<td>Brick Pavers</td>
<td></td>
<td>$41.04</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
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<tr>
<td><strong>Laborers</strong></td>
<td>Brush Hog Feeder</td>
<td></td>
<td>$41.04</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
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<td><strong>Laborers</strong></td>
<td>Brush Machine</td>
<td></td>
<td>$41.58</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
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<tr>
<td><strong>Laborers</strong></td>
<td>Caisson Worker, Free Air</td>
<td></td>
<td>$41.58</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
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<tr>
<td><strong>Laborers</strong></td>
<td>Carpenter Tender</td>
<td></td>
<td>$41.04</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
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<tr>
<td><strong>Laborers</strong></td>
<td>Cement Finisher Tender</td>
<td></td>
<td>$41.31</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
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<tr>
<td><strong>Laborers</strong></td>
<td>Cement Handler</td>
<td></td>
<td>$41.04</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
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<tr>
<td><strong>Laborers</strong></td>
<td>Chain Saw Operator &amp; Faller</td>
<td></td>
<td>$41.58</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
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<tr>
<td><strong>Laborers</strong></td>
<td>Clean-up Laborer</td>
<td></td>
<td>$41.04</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
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<tr>
<td><strong>Laborers</strong></td>
<td>Compaction Equipment</td>
<td></td>
<td>$41.31</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
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<tr>
<td><strong>Laborers</strong></td>
<td>Concrete Crewman</td>
<td></td>
<td>$41.04</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
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<tr>
<td><strong>Laborers</strong></td>
<td>Concrete Saw, Walking</td>
<td></td>
<td>$41.31</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
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<tr>
<td><strong>Laborers</strong></td>
<td>Concrete Signalman</td>
<td></td>
<td>$41.04</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
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<tr>
<td><strong>Laborers</strong></td>
<td>Concrete Stack</td>
<td></td>
<td>$41.58</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
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<tr>
<td><strong>Laborers</strong></td>
<td>Confined Space Attendant</td>
<td></td>
<td>$41.04</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
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<tr>
<td><strong>Laborers</strong></td>
<td>Crusher Feeder</td>
<td></td>
<td>$41.04</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
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<tr>
<td><strong>Laborers</strong></td>
<td>Demolition</td>
<td></td>
<td>$41.04</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
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<tr>
<td><strong>Laborers</strong></td>
<td>Demolition Torch</td>
<td></td>
<td>$41.31</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
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<tr>
<td>Spokane Laborers</td>
<td>Dope Pot Fireman, Non-mechanical</td>
<td>$41.31</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
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<tr>
<td>Spokane Laborers</td>
<td>Driller Helper (when Required To Move &amp; Position Machine)</td>
<td>$41.31</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
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<tr>
<td>Spokane Laborers</td>
<td>Drills With Dual Masts</td>
<td>$41.86</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
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<td>Spokane Laborers</td>
<td>Dry Stack Walls</td>
<td>$41.04</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
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<tr>
<td>Spokane Laborers</td>
<td>Dumpman</td>
<td>$41.04</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
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<tr>
<td>Spokane Laborers</td>
<td>Erosion Control Laborer</td>
<td>$41.04</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
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<tr>
<td>Spokane Laborers</td>
<td>Final Detail Cleanup (i.e., Dusting, Vacuuming, Window Cleaning; Not Construction Debris Cleanup)</td>
<td>$38.94</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
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<td>Spokane Laborers</td>
<td>Firewatch</td>
<td>$41.04</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
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<tr>
<td>Spokane Laborers</td>
<td>Form Cleaning Machine Feeder, Stacker</td>
<td>$41.04</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
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<tr>
<td>Spokane Laborers</td>
<td>Form Setter, Paving</td>
<td>$41.31</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
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<tr>
<td>Spokane Laborers</td>
<td>General Laborer</td>
<td>$41.04</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
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<tr>
<td>Spokane Laborers</td>
<td>Grade Checker</td>
<td>$43.57</td>
<td>7B</td>
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<tr>
<td>Spokane Laborers</td>
<td>Grout Machine Header Tender</td>
<td>$41.04</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
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<tr>
<td>Spokane Laborers</td>
<td>Guard Rail</td>
<td>$41.04</td>
<td>7B</td>
<td>1M</td>
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<tr>
<td>Spokane Laborers</td>
<td>Gunite</td>
<td>$41.58</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
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<tr>
<td>Spokane Laborers</td>
<td>Hazardous Waste Worker (level A)</td>
<td>$41.86</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
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<tr>
<td>Spokane Laborers</td>
<td>Hazardous Waste Worker (level B)</td>
<td>$41.58</td>
<td>7B</td>
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<tr>
<td>Spokane Laborers</td>
<td>Hazardous Waste Worker (level C)</td>
<td>$41.31</td>
<td>7B</td>
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<td>Spokane Laborers</td>
<td>Hazardous Waste Worker (level D)</td>
<td>$41.04</td>
<td>7B</td>
<td>1M</td>
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<tr>
<td>Spokane Laborers</td>
<td>Hdpe Or Similar Liner Installer</td>
<td>$41.04</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
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<tr>
<td>Spokane Laborers</td>
<td>High Scaler</td>
<td>$41.58</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
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<tr>
<td>Spokane Laborers</td>
<td>Jackhammer Operator Miner, Class “b”</td>
<td>$41.31</td>
<td>7B</td>
<td>1M</td>
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<tr>
<td>Spokane Laborers</td>
<td>Laser Beam Operator</td>
<td>$41.58</td>
<td>7B</td>
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<td>Spokane Laborers</td>
<td>Miner, Class “a”</td>
<td>$41.04</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
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<tr>
<td>Spokane Laborers</td>
<td>Miner, Class “c”</td>
<td>$41.58</td>
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<td>1M</td>
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<td>Spokane Laborers</td>
<td>Miner, Class “d”</td>
<td>$41.86</td>
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<td>1M</td>
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<tr>
<td>Spokane Laborers</td>
<td>Monitor Operator, Air Track Or Similar Mounting</td>
<td>$41.58</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
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<tr>
<td>Spokane Laborers</td>
<td>Mortar Mixer</td>
<td>$41.58</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
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<tr>
<td>Spokane Laborers</td>
<td>Nipper</td>
<td>$41.04</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
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<tr>
<td>Spokane Laborers</td>
<td>Nozzleman</td>
<td>$41.58</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
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<tr>
<td>Spokane Laborers</td>
<td>Nozzleman, Water (to Include Fire Hose), Air Or Steam</td>
<td>$41.31</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
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<td>Location</td>
<td>Industry</td>
<td>Description</td>
<td>Rate</td>
<td>Code</td>
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</tr>
<tr>
<td>Spokane</td>
<td>Laborers</td>
<td>Pavement Breaker, 90 Lbs. &amp; Over</td>
<td>$41.58</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
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<tr>
<td>Spokane</td>
<td>Laborers</td>
<td>Pavement Breaker, Under 90 Lbs.</td>
<td>$41.31</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Laborers</td>
<td>Pipelayer</td>
<td>$41.58</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Laborers</td>
<td>Pipelayer, Corrugated Metal Culvert And Multiple-plate.</td>
<td>$41.31</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Laborers</td>
<td>Pipewrapper</td>
<td>$41.58</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Laborers</td>
<td>Plasterer Tenders</td>
<td>$41.58</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
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<td>Spokane</td>
<td>Laborers</td>
<td>Pot Tender</td>
<td>$41.31</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
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<td>Spokane</td>
<td>Laborers</td>
<td>Powderman</td>
<td>$43.23</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
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<td>Spokane</td>
<td>Laborers</td>
<td>Powederman Helper</td>
<td>$41.31</td>
<td>7B</td>
<td>1M</td>
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<tr>
<td>Spokane</td>
<td>Laborers</td>
<td>Power Buggy Operator</td>
<td>$41.31</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Laborers</td>
<td>Power Tool Operator, Gas, Electric, Pneumatic</td>
<td>$41.31</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Laborers</td>
<td>Railroad Equipment, Power Driven, Except Dual Mobile</td>
<td>$41.31</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Laborers</td>
<td>Railroad Power Spiker Or Puller, Dual Mobile</td>
<td>$41.31</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Laborers</td>
<td>Remote Equipment Operator</td>
<td>$41.86</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Laborers</td>
<td>Remote Equipment Operator (i.e Compaction And Demolition)</td>
<td>$41.31</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Laborers</td>
<td>Rigger/signal Person</td>
<td>$41.31</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Laborers</td>
<td>Riprap Person</td>
<td>$41.04</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Laborers</td>
<td>Rodder &amp; Spreader</td>
<td>$41.31</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Laborers</td>
<td>Sandblast Tailhoseman</td>
<td>$41.04</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Laborers</td>
<td>Scaffold Erector, Wood Or Steel</td>
<td>$41.04</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Laborers</td>
<td>Stake Jumper</td>
<td>$41.04</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Laborers</td>
<td>Structural Mover</td>
<td>$41.04</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Laborers</td>
<td>Tailhoseman (water Nozzle)</td>
<td>$41.04</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Laborers</td>
<td>Timber Bucker &amp; Faller (by Hand)</td>
<td>$41.04</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Laborers</td>
<td>Track Laborer (rr)</td>
<td>$41.04</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Laborers</td>
<td>Traffic Control Laborer</td>
<td>$38.94</td>
<td>7B</td>
<td>1M</td>
<td>9D</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Laborers</td>
<td>Traffic Control Supervisor</td>
<td>$39.94</td>
<td>7B</td>
<td>1M</td>
<td>9E</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Laborers</td>
<td>Trencher, Shawnee</td>
<td>$41.31</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Laborers</td>
<td>Trenchless Technology Technician</td>
<td>$41.58</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Laborers</td>
<td>Truck Loader</td>
<td>$41.04</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Laborers</td>
<td>Tugger Operator</td>
<td>$41.31</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Laborers</td>
<td>Vibrators, All</td>
<td>$41.58</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Laborers</td>
<td>Wagon Drills</td>
<td>$41.31</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Laborers</td>
<td>Water Pipe Liner</td>
<td>$41.31</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Laborers</td>
<td>Welder, Electrical, Manual Or Automatic (hdpe Or Similar Pipe And Liner)</td>
<td>$41.86</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Laborers</td>
<td>Well-point Person</td>
<td>$41.04</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Laborers</td>
<td>Wheelbarrow, Power Driven</td>
<td>$41.31</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Laborers - Underground Sewer &amp; Water</td>
<td>General Laborer &amp; Topman</td>
<td>$41.04</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Laborers - Underground Sewer &amp; Water</td>
<td>Pipe Layer</td>
<td>$41.58</td>
<td>7B</td>
<td>1M</td>
<td>8Z</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Landscape Construction</td>
<td>Landscape Laborer</td>
<td>$38.94</td>
<td>7B</td>
<td>1M</td>
<td>9D</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Landscape Construction</td>
<td>Landscape Operator</td>
<td>$46.85</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
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<tr>
<td>Spokane</td>
<td>Landscape Maintenance</td>
<td>Groundskeeper</td>
<td>$13.50</td>
<td>1</td>
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</tr>
<tr>
<td>Spokane</td>
<td>Lathers</td>
<td>Journey Level</td>
<td>$47.37</td>
<td>7E</td>
<td>4X</td>
<td>8N</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Marble Setters</td>
<td>Journey Level</td>
<td>$50.44</td>
<td>5A</td>
<td>1M</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Metal Fabrication (In Shop)</td>
<td>Fitter</td>
<td>$13.50</td>
<td>1</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Metal Fabrication (In Shop)</td>
<td>Laborer</td>
<td>$13.50</td>
<td>1</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Metal Fabrication (In Shop)</td>
<td>Machine Operator</td>
<td>$13.50</td>
<td>1</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Metal Fabrication (In Shop)</td>
<td>Painter</td>
<td>$13.50</td>
<td>1</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Metal Fabrication (In Shop)</td>
<td>Welder</td>
<td>$13.50</td>
<td>1</td>
<td>View</td>
<td></td>
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<tr>
<td>Spokane</td>
<td>Millwright</td>
<td>Journey Level</td>
<td>$66.83</td>
<td>7E</td>
<td>4X</td>
<td>8N</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Modular Buildings</td>
<td>Journey Level</td>
<td>$13.50</td>
<td>1</td>
<td>View</td>
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<td>Spokane</td>
<td>Painters</td>
<td>Commercial Painter</td>
<td>$36.87</td>
<td>6Z</td>
<td>1W</td>
<td>View</td>
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<td>Spokane</td>
<td>Painters</td>
<td>Industrial Painter</td>
<td>$45.37</td>
<td>6Z</td>
<td>1W</td>
<td>9D</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Pile Driver</td>
<td>General Pile Driver</td>
<td>$48.57</td>
<td>7E</td>
<td>4X</td>
<td>8N</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Pile Driver</td>
<td>Heavy Construction Pile Driver</td>
<td>$53.54</td>
<td>7E</td>
<td>4X</td>
<td>9E</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Plasterers</td>
<td>Journey Level</td>
<td>$42.88</td>
<td>7K</td>
<td>1N</td>
<td>View</td>
<td></td>
</tr>
<tr>
<td>Spokane</td>
<td>Playground &amp; Park Equipment Installers</td>
<td>Journey Level</td>
<td>$13.50</td>
<td>1</td>
<td>View</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spokane</td>
<td>Plumbers &amp; Pipefitters</td>
<td>Journey Level</td>
<td>$65.35</td>
<td>7E</td>
<td>1J</td>
<td>View</td>
<td></td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>A-frame Truck (2 Or More Drums)</td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>A-frame Truck (single Drum)</td>
<td>$46.08</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Asphalt Plant Operator</td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Assistant Plant Operator, Fireman Or Pugmixer (asphalt)</td>
<td>$46.08</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Assistant Refrigeration Plant &amp; Chiller Operator (over 1000 Ton)</td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Assistant Refrigeration Plant (under 1000 Ton)</td>
<td>$46.08</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Automatic Subgrader (ditches &amp; Trimmers)</td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Backfillers (cleveland &amp; Similar)</td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators</td>
<td></td>
<td>$47.01</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td><strong>Blade (finish &amp; Bluetop), Automatic, Cmi, Abc, Finish Athey &amp; Huber &amp; Similar When Used As Automatic</strong></td>
<td>$47.56</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td><strong>Blade Operator (motor Patrol &amp; Attachments)</strong></td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td><strong>Blower Operator (cement)</strong></td>
<td>$46.08</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td><strong>Boat Operator</strong></td>
<td>$45.76</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td><strong>Bob Cat (skid Steer)</strong></td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td><strong>Bolting Machine</strong></td>
<td>$45.76</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td><strong>Boom Cats (side)</strong></td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td><strong>Boring Machine (earth)</strong></td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td><strong>Boring Machine (Rock Under 8 inch Bit - Quarry Master, Joy Or Similar)</strong></td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td><strong>Boring Machine (Rock Under 8” Bit - Quarry Master, Joy Or Similar)</strong></td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td><strong>Boring Machine (rock Under 8” Bit) (quarry Master, Joy Or Similar)</strong></td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td><strong>Bolt Threading Machine</strong></td>
<td>$45.76</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td><strong>Bolt Threading Machine</strong></td>
<td>$45.76</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td><strong>Belt Finishing Machine</strong></td>
<td>$46.08</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td><strong>Belt Loader (kocal Or Similar)</strong></td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td><strong>Bagley Or Stationary Scraper</strong></td>
<td>$46.08</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td><strong>Batch &amp; Wet Mix Operator (multiple Units, 2 &amp; Incl. 4)</strong></td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td><strong>Batch Plant &amp; Wet Mix Operator, Single Unit (concrete)</strong></td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td><strong>Batch Plant (over 4 Units)</strong></td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td><strong>Batch &amp; Wet Mix Operator (multiple Units, 2 &amp; Incl. 4)</strong></td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td><strong>Bagley Or Stationary Scraper</strong></td>
<td>$46.08</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td><strong>Belt Finishing Machine</strong></td>
<td>$46.08</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td><strong>Belt Loader (kocal Or Similar)</strong></td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td><strong>Belt-crete Conveyors With Power Pack Or Similar</strong></td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td><strong>Bending Machine</strong></td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td><strong>Bolt Grinders</strong></td>
<td>$45.76</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td><strong>Blade Operator (motor Patrol &amp; Attachments)</strong></td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td><strong>Blower Operator (cement)</strong></td>
<td>$46.08</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td><strong>Boat Operator</strong></td>
<td>$45.76</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td><strong>Bob Cat (skid Steer)</strong></td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td><strong>Bolting Machine</strong></td>
<td>$45.76</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td><strong>Boom Cats (side)</strong></td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td><strong>Boring Machine (earth)</strong></td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td><strong>Boring Machine (Rock Under 8 inch Bit - Quarry Master, Joy Or Similar)</strong></td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td><strong>Boring Machine (Rock Under 8” Bit - Quarry Master, Joy Or Similar)</strong></td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td><strong>Boring Machine (rock Under 8” Bit) (quarry Master, Joy Or Similar)</strong></td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td><strong>$46.69</strong></td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Location</td>
<td>Position Description</td>
<td>Wage</td>
<td>Shift</td>
<td>Rate</td>
<td>View</td>
<td></td>
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<tr>
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<td></td>
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<tr>
<td>Spokane</td>
<td>Power Equipment Operators Bump Cutter (wayne, Saginau Or Similar)</td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
<td></td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators Cableway Controller (dispatcher)</td>
<td>$47.56</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
<td></td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators Canal Lining Machine (concrete)</td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
<td></td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators Carrydeck &amp; Boom Truck (under 25 Tons)</td>
<td>$47.01</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
<td></td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators Cement Hog</td>
<td>$46.08</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
<td></td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators Chipper (without Crane) Cleaning &amp; Doping Machine (pipeline)</td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
<td></td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators Clamshell, Dragline</td>
<td>$48.66</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
<td></td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators Compactor (self-propelled With Blade)</td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
<td></td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators Compressor (2000 Cfm Or Over, 2 Or More, Gas Diesel Or Electric Power)</td>
<td>$46.08</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
<td></td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators Compressors (under 2000 Cfm, Gas, Diesel Or Electric Power)</td>
<td>$45.76</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
<td></td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators Concrete Cleaning / Decontamination Machine Operator</td>
<td>$47.56</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
<td></td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators Concrete Pump Boon Truck</td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
<td></td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators Concrete Pumps (squeezecrete, Flow-crete, Whitman &amp; Similar)</td>
<td>$46.85</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
<td></td>
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<tr>
<td>Spokane</td>
<td>Power Equipment Operators Concrete Saw (multiple Cut)</td>
<td>$46.08</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
<td></td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators Concrete Slip Form Paver</td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
<td></td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators Conveyor Aggregate Delivery Systems (c.a.d.)</td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
<td></td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators Crane Oiler- Driver (cdl Required) &amp; Cable Tender, Mucking Machine</td>
<td>$45.76</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
<td></td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators Cranes (100 to 299 Tons) And All Climbing, Overhead, Rail &amp; Tower. All Attachments Incl.</td>
<td>$49.16</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
<td></td>
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<tr>
<td>Spokane</td>
<td>Power Equipment Operators Cranes (25 Tons &amp; Under), All Attachments Incl. Clamshell, Dragline</td>
<td>$47.01</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
<td></td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators Cranes (25 Tons To And Including 45 Tons), All Attachments Incl. Clamshell, Dragline</td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
<td></td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators Cranes (300 Tons and Over) And All Climbing,</td>
<td>$49.66</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
<td></td>
</tr>
<tr>
<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td>Cranes (45 Tons To 85 Tons), All Attachments Incl. Clamshell And Dragline</td>
<td>$47.56</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td>Cranes (86 to 99 Tons) And All Climbing, Overhead, Rail &amp; Tower. All Attachments Incl.</td>
<td>$48.66</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td>Crusher Feeder</td>
<td>$45.76</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td>Crusher, Grizzle &amp; Screening Plant Operator</td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td>Curb Extruder (asphalt Or Concrete)</td>
<td>$46.85</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td>Deck Engineer</td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td>Deck Hand</td>
<td>$45.76</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td>Derricks &amp; Stifflegs (65 Tons &amp; Over)</td>
<td>$47.56</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td>Derricks &amp; Stifflegs (under 65 Tons)</td>
<td>$47.01</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td>Distributor Leverman</td>
<td>$46.08</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td>Ditch Witch Or Similar</td>
<td>$46.08</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td>Dope Pots (power Agitated)</td>
<td>$46.08</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td>Dozer / Tractor (up To D-6 Or Equivalent) And Traxcavator</td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td>Dozer / Tractors (d-6 &amp; Equivalent &amp; Over)</td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
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<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td>Dozer, 834 R/t &amp; Similar</td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
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<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td>Drill Doctor</td>
<td>$47.29</td>
<td>7B</td>
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<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td>Drillers Licensed</td>
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<td>Drillers Helper</td>
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<td>7B</td>
<td>4W</td>
<td>9A</td>
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<tr>
<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td>Drilling Equipment (8 inch Bit &amp; Over - Robbins, Reverse Circulation &amp; Similar)</td>
<td>$47.01</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
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<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td>Drilling Equipment (8” Bit &amp; Over - Robbins, Reverse Circulation &amp; Similar)</td>
<td>$47.01</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td>Drilling Equipment (8” Bit &amp; Over) (robbins, Reverse Circulation &amp; Similar)</td>
<td>$47.01</td>
<td>7B</td>
<td>4W</td>
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<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td>Drills (churn, Core, Calyx Or Diamond)</td>
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<td>7B</td>
<td>4W</td>
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<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td>Elevating Belt (holland Type)</td>
<td>$47.56</td>
<td>7B</td>
<td>4W</td>
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<td>Spokane</td>
<td><strong>Power Equipment Operators</strong></td>
<td>Elevating Belt-type Loader (euclid, Barber Green &amp; Similar)</td>
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<td>7B</td>
<td>4W</td>
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<td>Location</td>
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<td>Description</td>
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<td>Power Equipment Operators</td>
<td>Elevator Hoisting Materials</td>
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<td>7B</td>
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<td>Power Equipment Operators</td>
<td>Equipment Serviceman, Greaser &amp; Oiler</td>
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<td>7B</td>
<td>4W</td>
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<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Fireman &amp; Heater Tender</td>
<td>$45.76</td>
<td>7B</td>
<td>4W</td>
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<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Fork Lift Or Lumber Stacker, Hydra-life &amp; Similar</td>
<td>$46.08</td>
<td>7B</td>
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<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Generator Plant Engineers (diesel Or Electric)</td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
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<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Gin Trucks (pipeline)</td>
<td>$46.08</td>
<td>7B</td>
<td>4W</td>
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<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Gunite Combination Mixer &amp; Compressor</td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
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<td>Power Equipment Operators</td>
<td>H.d. Mechanic</td>
<td>$47.56</td>
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<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Heavy Equipment Robotics Operator</td>
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<td>Power Equipment Operators</td>
<td>Helicopter Pilot</td>
<td>$48.66</td>
<td>7B</td>
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<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Helper, Mechanic Or Welder, H.D</td>
<td>$45.76</td>
<td>7B</td>
<td>4W</td>
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<td>Hoe Ram</td>
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<tr>
<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Hoist (2 Or More Drums Or Tower Hoist)</td>
<td>$46.85</td>
<td>7B</td>
<td>4W</td>
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<tr>
<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Hoist, Single Drum</td>
<td>$46.08</td>
<td>7B</td>
<td>4W</td>
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<td>Power Equipment Operators</td>
<td>Hydraulic Platform Trailers (goldhofer, Shaurerly And Similar)</td>
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<td>7B</td>
<td>4W</td>
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<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Hydro-seeder, Mulcher, Nozzleman</td>
<td>$45.76</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
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<tr>
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<td>Power Equipment Operators</td>
<td>Lime Batch Tank Operator (recycle Train)</td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
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<td>Power Equipment Operators</td>
<td>Lime Brain Operator (recycle Train)</td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
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<tr>
<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Loader (360 Degrees Revolving Koehring Scooper Or Similar)</td>
<td>$47.56</td>
<td>7B</td>
<td>4W</td>
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<tr>
<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Loader Operator (front-end &amp; Overhead, 4 Yds. Incl. 8 Yds.)</td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
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<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Loaders (bucket Elevators And Conveyors)</td>
<td>$46.08</td>
<td>7B</td>
<td>4W</td>
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<td>Power Equipment Operators</td>
<td>Loaders (overhead &amp; Front-end, Over 8 Yds. To 10 Yds.)</td>
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<td>7B</td>
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<td>Power Equipment Operators</td>
<td>Loaders (overhead &amp; Front-end, Under 4 Yds.. R/t)</td>
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<td>7B</td>
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<td>Power Equipment Operators</td>
<td>Loaders (overhead And Front-end, 10 Yds. &amp; Over)</td>
<td>$48.66</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Locomotive Engineer</td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
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<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Longitudinal Float</td>
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<td>4W</td>
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<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Master Environmental Maintenance Technician</td>
<td>$47.56</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Mixer (portable - Concrete)</td>
<td>$46.08</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
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<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Mixermobile</td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
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<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Mobile Crusher Operator (recycle Train)</td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
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<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Mucking Machine</td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
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<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Multiple Dozer Units With Single Blade</td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Pavement Breaker, Hydraul hammer &amp; Similar</td>
<td>$46.08</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
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<tr>
<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Paving (dual Drum)</td>
<td>$47.01</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
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<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Paving Machine (asphalt And Concrete)</td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
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<td>Power Equipment Operators</td>
<td>Piledriving Engineers</td>
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<td>7B</td>
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<td>Plant Oiler</td>
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<td>4W</td>
<td>9A</td>
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<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Posthole Auger Or Punch</td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
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<td>Power Equipment Operators</td>
<td>Power Broom</td>
<td>$46.08</td>
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<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Pump (grout Or Jet)</td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
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<td>Power Equipment Operators</td>
<td>Pumpman</td>
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<td>7B</td>
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<td>9A</td>
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<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Quad-track Or Similar Equipment</td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
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<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Railroad Ballast Regulation Operator (self-propelled)</td>
<td>$46.08</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
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<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Railroad Power Tamper Operator (self-propelled)</td>
<td>$46.08</td>
<td>7B</td>
<td>4W</td>
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<td>Power Equipment Operators</td>
<td>Railroad Tamper Jack Operator (self-propelled)</td>
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<td>7B</td>
<td>4W</td>
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<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Railroad Track Liner Operator (self-propelled)</td>
<td>$47.01</td>
<td>7B</td>
<td>4W</td>
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<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Refrigeration Plant Engineer (1000 Tons &amp; Over)</td>
<td>$47.01</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
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<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Refrigeration Plant Engineer (under 1000 Ton)</td>
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<td>7B</td>
<td>4W</td>
<td>9A</td>
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<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Rollerman (finishing Asphalt Pavement)</td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
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<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Rollers, All Types On Subgrade, Including Seal And Chip Coating (farm Type, Case, John Deere And Similar,or Compacting Vibrator), Except When Pulled B</td>
<td>$45.76</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
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<td>Position</td>
<td>Description</td>
<td>Hourly Rate</td>
<td>Shift</td>
<td>Experience</td>
<td>View</td>
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<td>Power Equipment Operators</td>
<td>Roto Mill (pavement Grinder)</td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
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<td>Power Equipment Operators</td>
<td>Rotomill Groundsman</td>
<td>$46.85</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
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<td>Power Equipment Operators</td>
<td>Rubber-tired Scrapers (multiple Engine With Three Or More Scrapers)</td>
<td>$47.56</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
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<td>Power Equipment Operators</td>
<td>Rubber-tired Skidders (r/t With Or Without Attachments)</td>
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<td>7B</td>
<td>4W</td>
<td>9A</td>
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<td>Power Equipment Operators</td>
<td>Scrapers, All, Rubber-tired</td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
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<td>Power Equipment Operators</td>
<td>Screed Operator</td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
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<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Shovels (3 Yds. &amp; Over)</td>
<td>$47.56</td>
<td>7B</td>
<td>4W</td>
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<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Shovels (under 3 Yds.)</td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
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<tr>
<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Signalman (whirleys, Highline, Hammerheads Or Similar)</td>
<td>$47.01</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
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<td>Power Equipment Operators</td>
<td>Soil Stabilizer (p &amp; H Or Similar)</td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
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<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Spray Curing Machine (concrete)</td>
<td>$46.08</td>
<td>7B</td>
<td>4W</td>
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<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Spreader Box (self-propelled)</td>
<td>$46.08</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
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<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Spreader Machine</td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
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<tr>
<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Steam Cleaner</td>
<td>$45.76</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
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</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Straddle Buggy (ross &amp; Similar On Construction Job Only)</td>
<td>$46.08</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td></td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Surface Heater &amp; Planer Machine</td>
<td>$46.85</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td></td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Traverse Finish Machine</td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td></td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Trenching Machines (7 Ft. Depth &amp; Over)</td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td></td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Trenching Machines (under 7 Ft. Depth Capacity)</td>
<td>$46.85</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
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<tr>
<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Tug Boat Operator</td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
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<tr>
<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Tugger Operator</td>
<td>$46.08</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td></td>
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<tr>
<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Turnhead (with Rescreening)</td>
<td>$46.85</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td></td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Turnhead Operator</td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
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<tr>
<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Ultra High Pressure Waterjet Cutting Tool System Operator, (30,000 Psi)</td>
<td>$47.56</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td></td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Vactor Guzzler, Super Sucker</td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td></td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators</td>
<td></td>
<td>$47.56</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td></td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Vacuum Blasting Machine Operator</td>
<td>$46.85</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Vacuum Drill (reverse Circulation Drill Under 8&quot; Bit)</td>
<td>$46.85</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Welding Machine</td>
<td>$45.76</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators</td>
<td>Whirleys &amp; Hammerheads, All</td>
<td>$47.56</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators - Underground Sewer &amp; Water</td>
<td>A-frame Truck (2 Or More Drums)</td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators - Underground Sewer &amp; Water</td>
<td>A-frame Truck (single Drum)</td>
<td>$46.08</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators - Underground Sewer &amp; Water</td>
<td>Asphalt Plant Operator</td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators - Underground Sewer &amp; Water</td>
<td>Assistant Plant Operator, Fireman Or Pugmixer (asphalt)</td>
<td>$46.08</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators - Underground Sewer &amp; Water</td>
<td>Assistant Refrigeration Plant &amp; Chiller Operator (over 1000 Ton)</td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators - Underground Sewer &amp; Water</td>
<td>Assistant Refrigeration Plant (under 1000 Ton)</td>
<td>$46.08</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators - Underground Sewer &amp; Water</td>
<td>Automatic Subgrader (ditches &amp; Trimmers)</td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators - Underground Sewer &amp; Water</td>
<td>Backfillers (cleveland &amp; Similar)</td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators - Underground Sewer &amp; Water</td>
<td>Backhoe &amp; Hoe Ram (under 3/4 Yd.)</td>
<td>$47.01</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators - Underground Sewer &amp; Water</td>
<td>Backhoe (45,000 Gw &amp; Under)</td>
<td>$47.01</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators - Underground Sewer &amp; Water</td>
<td>Backhoe (45,000 Gw To 110,000 Gw)</td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Power Equipment Operators - Underground Sewer &amp; Water</td>
<td>Backhoe (over 110,000 Gw)</td>
<td>$47.56</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators - Underground Sewer &amp; Water</td>
<td>Backhoes &amp; Hoe Ram (3 Yds &amp; Over)</td>
<td>$47.56</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators - Underground Sewer &amp; Water</td>
<td>Backhoes &amp; Hoe Ram (3/4 Yd. To 3 Yd.)</td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators - Underground Sewer &amp; Water</td>
<td>Bagley Or Stationary Scraper</td>
<td>$46.08</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Batch &amp; Wet Mix Operator (multiple Units, 2 &amp; Incl. 4)</td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
<td></td>
</tr>
<tr>
<td>Spokane Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Batch Plant &amp; Wet Mix Operator, Single Unit (concrete)</td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
<td></td>
</tr>
<tr>
<td>Spokane Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Batch Plant (over 4 Units)</td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
<td></td>
</tr>
<tr>
<td>Spokane Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Belt Finishing Machine</td>
<td>$46.08</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
<td></td>
</tr>
<tr>
<td>Spokane Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Belt Loader (kocal Or Similar)</td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
<td></td>
</tr>
<tr>
<td>Spokane Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Belt-crete Conveyors With Power Pack Or Similar</td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
<td></td>
</tr>
<tr>
<td>Spokane Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Bending Machine</td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
<td></td>
</tr>
<tr>
<td>Spokane Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Bit Grinders</td>
<td>$45.76</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
<td></td>
</tr>
<tr>
<td>Spokane Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Blade (finish &amp; Bluetop), Automatic, Cmi, Abc, Finish Athey &amp; Huber &amp; Similar When Used As Automatic</td>
<td>$47.56</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
<td></td>
</tr>
<tr>
<td>Spokane Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Blade Operator (motor Patrol &amp; Attachments)</td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
<td></td>
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<tr>
<td>Spokane Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Blower Operator (cement)</td>
<td>$46.08</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
<td></td>
</tr>
<tr>
<td>Spokane Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Boat Operator</td>
<td>$45.76</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
<td></td>
</tr>
<tr>
<td>Spokane Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Bob Cat (skid Steer)</td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
<td></td>
</tr>
<tr>
<td>Spokane Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Bolt Threading Machine</td>
<td>$45.76</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
<td></td>
</tr>
<tr>
<td>Spokane Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Boom Cats (side)</td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
<td></td>
</tr>
<tr>
<td>Spokane Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Boring Machine (earth)</td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
<td></td>
</tr>
<tr>
<td>Spokane Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Boring Machine (Rock Under 8 inch Bit - Quarry Master, Joy Or Similar)</td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
<td></td>
</tr>
<tr>
<td>Location</td>
<td>Industry</td>
<td>Job Title</td>
<td>Wage</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
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<tr>
<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Boring Machine (Rock Under 8” Bit - Quarry Master, Joy Or Similar)</td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Boring Machine (rock Under 8” Bit) (quarry Master, Joy Or Similar)</td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Bump Cutter (wayne, Saginau Or Similar)</td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Cableway Controller (dispatcher)</td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Cableway Operators</td>
<td>$47.56</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Canal Lining Machine (concrete)</td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Carrydeck &amp; Boom Truck (under 25 Tons)</td>
<td>$47.01</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Cement Hog</td>
<td>$46.08</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Chipper (without Crane) Cleaning &amp; Doping Machine (pipeline)</td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Clamshell, Dragline</td>
<td>$48.66</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Compactor (self-propelled With Blade)</td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Compressor (2000 Cfm Or Over, 2 Or More, Gas Diesel Or Electric Power)</td>
<td>$46.08</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Compressors (under 2000 Cfm, Gas, Diesel Or Electric Power)</td>
<td>$45.76</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Concrete Cleaning / Decontamination Machine Operator</td>
<td>$47.56</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Concrete Pump Boon Truck</td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Concrete Pumps (squeeze-crete, Flow-crete, Whitman &amp; Similar)</td>
<td>$46.85</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Concrete Saw (multiple Cut)</td>
<td>$46.08</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td></td>
<td>Concrete Slip Form Paver</td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Conveyor Aggregate Delivery Systems (c.a.d.)</td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
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</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Crane Oilier- Driver (cdl Required) &amp; Cable Tender, Mucking Machine</td>
<td>$45.76</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Cranes (100 to 299 Tons) And All Climbing, Overhead, Rail &amp; Tower. All Attachments Incl.</td>
<td>$49.16</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Cranes (25 Tons &amp; Under), All Attachments Incl. Clamshell, Dragline</td>
<td>$47.01</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Cranes (25 Tons To And Including 45 Tons), All Attachments Incl. Clamshell, Dragline</td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Cranes (300 Tons and Over) And All Climbing, Overhead, Rail &amp; Tower. All Attachments Incl.</td>
<td>$49.66</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Cranes (45 Tons To 85 Tons), All Attachments Incl. Clamshell And Dragline</td>
<td>$47.56</td>
<td>7B</td>
<td>4W</td>
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<tr>
<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Cranes (86 to 99 Tons) And All Climbing, Overhead, Rail &amp; Tower. All Attachments Incl.</td>
<td>$48.66</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
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<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Crusher Feeder</td>
<td>$45.76</td>
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<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Crusher, Grizzle &amp; Screening Plant Operator</td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
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<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Curb Extruder (asphalt Or Concrete)</td>
<td>$46.85</td>
<td>7B</td>
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<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Deck Engineer</td>
<td>$46.69</td>
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<td>Deck Hand</td>
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<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Derricks &amp; Stifflegs (65 Tons &amp; Over)</td>
<td>$47.56</td>
<td>7B</td>
<td>4W</td>
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<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Derricks &amp; Stifflegs (under 65 Tons)</td>
<td>$47.01</td>
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<td>Distributor Leverman</td>
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<td>7B</td>
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<tr>
<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Ditch Witch Or Similar</td>
<td>$46.08</td>
<td>7B</td>
<td>4W</td>
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<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Dope Pots (power Agitated)</td>
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<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Dozer / Tractor (up To D-6 Or Equivalent) And Traxcavator</td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
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<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Dozer / Tractors (d-6 &amp; Equivalent &amp; Over)</td>
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<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Dozer, 834 R/t &amp; Similar</td>
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<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Drill Doctor</td>
<td>$47.29</td>
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<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Driller Licensed</td>
<td>$48.66</td>
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<td>Drillers Helper</td>
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<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Drilling Equipment (8 inch Bit &amp; Over - Robbins, Reverse Circulation &amp; Similar)</td>
<td>$47.01</td>
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<td>4W</td>
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<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Drilling Equipment (8” Bit &amp; Over - Robbins, Reverse Circulation &amp; Similar)</td>
<td>$47.01</td>
<td>7B</td>
<td>4W</td>
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<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Drilling Equipment (8” Bit &amp; Over) (robbins, Reverse Circulation &amp; Similar)</td>
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<td>7B</td>
<td>4W</td>
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<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Drills (churn, Core, Calyx Or Diamond)</td>
<td>$46.85</td>
<td>7B</td>
<td>4W</td>
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<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Elevating Belt (holland Type)</td>
<td>$47.56</td>
<td>7B</td>
<td>4W</td>
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<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Elevating Belt-type Loader (euclid, Barber Green &amp; Similar)</td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
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<td>Spokane</td>
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<td>Elevating Grader-type Loader (dumor, Adams Or Similar)</td>
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<td>7B</td>
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<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Elevator Hoisting Materials</td>
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<td>Power Equipment Operators- Underground Sewer &amp; Water Fireman &amp; Heater Tender</td>
<td>$45.76</td>
<td>7B</td>
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<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water Fork Lift Or Lumber Stacker, Hydra-life &amp; Similar</td>
<td>$46.08</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
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<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water Generator Plant Engineers (diesel Or Electric)</td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
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<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water Gin Trucks (pipeline)</td>
<td>$46.08</td>
<td>7B</td>
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<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water Grade Checker</td>
<td>$47.01</td>
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<td>Power Equipment Operators- Underground Sewer &amp; Water Gunite Combination Mixer &amp; Compressor</td>
<td>$46.69</td>
<td>7B</td>
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<td>Power Equipment Operators- Underground Sewer &amp; Water H.d. Mechanic</td>
<td>$47.56</td>
<td>7B</td>
<td>4W</td>
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<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water H.d. Welder</td>
<td>$47.56</td>
<td>7B</td>
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<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water Heavy Equipment Robotics Operator</td>
<td>$47.56</td>
<td>7B</td>
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<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water Helicopter Pilot</td>
<td>$48.66</td>
<td>7B</td>
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<td>Power Equipment Operators- Underground Sewer &amp; Water Helper, Mechanic Or Welder, H.D</td>
<td>$45.76</td>
<td>7B</td>
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<td>Power Equipment Operators- Underground Sewer &amp; Water Hoe Ram</td>
<td>$47.01</td>
<td>7B</td>
<td>4W</td>
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<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water Hoist (2 Or More Drums Or Tower Hoist)</td>
<td>$46.85</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
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<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water Hoist, Single Drum</td>
<td>$46.08</td>
<td>7B</td>
<td>4W</td>
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<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water Hydraulic Platform Trailers (goldhofer, Shaurerly And Similar)</td>
<td>$47.56</td>
<td>7B</td>
<td>4W</td>
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<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water Hydro-seeder, Mulcher, Nozzleman</td>
<td>$45.76</td>
<td>7B</td>
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<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water Lime Batch Tank Operator (recycle Train)</td>
<td>$47.29</td>
<td>7B</td>
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<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Lime Brain Operator (recycle Train)</td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
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<tr>
<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Loader (360 Degrees Revolving Koehring Scooper Or Similar)</td>
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<td>7B</td>
<td>4W</td>
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<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Loader Operator (front-end &amp; Overhead, 4 Yds. Incl. 8 Yds.)</td>
<td>$47.29</td>
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<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Loaders (bucket Elevators And Conveyors)</td>
<td>$46.08</td>
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<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Loaders (overhead &amp; Front-end, Over 8 Yds. To 10 Yds.)</td>
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<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Loaders (overhead &amp; Front-end, Under 4 Yds.. R/t)</td>
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<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Loaders (overhead And Front-end, 10 Yds. &amp; Over)</td>
<td>$48.66</td>
<td>7B</td>
<td>4W</td>
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<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Locomotive Engineer</td>
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<td>7B</td>
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<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Longitudinal Float</td>
<td>$46.08</td>
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<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Master Environmental Maintenance Technician</td>
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<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Mixer (portable - Concrete)</td>
<td>$46.08</td>
<td>7B</td>
<td>4W</td>
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<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
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<td>$46.69</td>
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<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Mobile Crusher Operator (recycle Train)</td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
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<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Mucking Machine</td>
<td>$46.69</td>
<td>7B</td>
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<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Multiple Dozer Units With Single Blade</td>
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<td>7B</td>
<td>4W</td>
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<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Pavement Breaker, Hydrahammer &amp; Similar</td>
<td>$46.08</td>
<td>7B</td>
<td>4W</td>
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<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Paving (dual Drum)</td>
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<td>4W</td>
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<td>Spokane</td>
<td>Power Equipment Operators - Underground</td>
<td>Paving Machine (asphalt And Concrete)</td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
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<td>Power Equipment Operators - Underground</td>
<td>Piledriving Engineers</td>
<td>$47.01</td>
<td>7B</td>
<td>4W</td>
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<td>Spokane</td>
<td>Power Equipment Operators - Underground</td>
<td>Plant Oiler</td>
<td>$45.76</td>
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<td>Posthole Auger Or Punch</td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
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<td>Power Equipment Operators - Underground</td>
<td>Power Broom</td>
<td>$46.08</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
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<td>Spokane</td>
<td>Power Equipment Operators - Underground</td>
<td>Pump (grout Or Jet)</td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
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<td>Power Equipment Operators - Underground</td>
<td>Pumpman</td>
<td>$45.76</td>
<td>7B</td>
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<td>Power Equipment Operators - Underground</td>
<td>Quad-track Or Similar Equipment</td>
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<td>Spokane</td>
<td>Power Equipment Operators - Underground</td>
<td>Railroad Ballast Regulation Operator (self-propelled)</td>
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<td>Spokane</td>
<td>Power Equipment Operators - Underground</td>
<td>Railroad Power Tamper Operator (self-propelled)</td>
<td>$46.08</td>
<td>7B</td>
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<td>Spokane</td>
<td>Power Equipment Operators - Underground</td>
<td>Railroad Tamper Jack Operator (self-propelled)</td>
<td>$46.08</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators - Underground</td>
<td>Railroad Track Liner Operator (self-propelled)</td>
<td>$47.01</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators - Underground</td>
<td>Refrigeration Plant Engineer (1000 Tons &amp; Over)</td>
<td>$47.01</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators - Underground</td>
<td>Refrigeration Plant Engineer (under 1000 Ton)</td>
<td>$46.85</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Power Equipment Operators - Underground</td>
<td>Rollerman (finishing Asphalt Pavement)</td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators - Underground</td>
<td>Rollers, All Types On Subgrade, Including Seal And Chip Coating (farm Type, Case, John Deere And Similar, or Compacting)</td>
<td>$45.76</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Location</td>
<td>Description</td>
<td>Rate</td>
<td>Wage</td>
<td>Hours</td>
<td>Rest</td>
<td>View</td>
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<tr>
<td>---------------</td>
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</tr>
<tr>
<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water (Vibrator), Except When Pulled B</td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water (Roto Mill (pavement Grinder))</td>
<td>$46.85</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water (Rotomill Groundsman)</td>
<td>$46.08</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water (Rubber-tired Scrapers (multiple Engine With Three Or More Scrapers))</td>
<td>$47.56</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
<td></td>
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<tr>
<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water (Rubber-tired Skidders (r/t With Or Without Attachments))</td>
<td>$46.85</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water (Scrapers, All, Rubber-tired)</td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
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<tr>
<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water (Screed Operator)</td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water (Shovels (3 Yds. &amp; Over))</td>
<td>$47.56</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water (Shovels (under 3 Yds.))</td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
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<tr>
<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water (Signalman (whirleys, Highline, Hammerheads Or Similar))</td>
<td>$47.01</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water (Soil Stabilizer (p &amp; H Or Similar))</td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water (Spray Curing Machine (concrete))</td>
<td>$46.08</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water (Spreader Box (self-propelled))</td>
<td>$46.08</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water (Spreader Machine)</td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water (Steam Cleaner)</td>
<td>$45.76</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water (Straddle Buggy (ross &amp; Similar On Construction Job Only))</td>
<td>$46.08</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water (Surface Heater &amp; Planer Machine)</td>
<td>$46.85</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water (Tractor (farm Type R/t With Attachments, Except Backhoe))</td>
<td>$46.08</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
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<tr>
<td>Location</td>
<td>Job Title</td>
<td>Description</td>
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<td>Shift</td>
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<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Traverse Finish Machine</td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Trenching Machines (7 Ft. Depth &amp; Over)</td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Trenching Machines (under 7 Ft. Depth Capacity)</td>
<td>$46.85</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Tug Boat Operator</td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Tugger Operator</td>
<td>$46.08</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Turnhead (with Rescreening)</td>
<td>$46.85</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
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<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Turnhead Operator</td>
<td>$46.69</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
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<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Ultra High Pressure Waterjet Cutting Tool System Operator, (30,000 Psi)</td>
<td>$47.56</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Vactor Guzzler, Super Sucker</td>
<td>$47.29</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
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<tr>
<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Vacuum Blasting Machine Operator</td>
<td>$47.56</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Vacuum Drill (reverse Circulation Drill Under 8” Bit)</td>
<td>$46.85</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
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<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Welding Machine</td>
<td>$45.76</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
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<td>Spokane</td>
<td>Power Equipment Operators- Underground Sewer &amp; Water</td>
<td>Whirleys &amp; Hammerheads, All</td>
<td>$47.56</td>
<td>7B</td>
<td>4W</td>
<td>9A</td>
<td>View</td>
</tr>
<tr>
<td>Spokane</td>
<td>Power Line Clearance Tree Trimmers</td>
<td>Journey Level In Charge</td>
<td>$53.10</td>
<td>5A</td>
<td>4A</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Power Line Clearance Tree Trimmers</td>
<td>Spray Person</td>
<td>$50.40</td>
<td>5A</td>
<td>4A</td>
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<td>Spokane</td>
<td>Power Line Clearance Tree Trimmers</td>
<td>Tree Equipment Operator</td>
<td>$53.10</td>
<td>5A</td>
<td>4A</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Power Line Clearance Tree Trimmers</td>
<td>Tree Trimmer</td>
<td>$47.48</td>
<td>5A</td>
<td>4A</td>
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<td>Spokane</td>
<td>Power Line Clearance Tree Trimmers</td>
<td>Tree Trimmer Groundperson</td>
<td>$36.10</td>
<td>5A</td>
<td>4A</td>
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<tr>
<td>Spokane</td>
<td>Refrigeration &amp; Air Conditioning Mechanics</td>
<td>Journey Level</td>
<td>$59.25</td>
<td>7E</td>
<td>1J</td>
<td>View</td>
<td></td>
</tr>
<tr>
<td>Spokane</td>
<td>Residential Brick Mason</td>
<td>Journey Level</td>
<td>$22.73</td>
<td>1</td>
<td></td>
<td>View</td>
<td></td>
</tr>
<tr>
<td>City</td>
<td>Title</td>
<td>Level</td>
<td>Rate</td>
<td>Weeks</td>
<td>View</td>
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</tr>
<tr>
<td>Spokane</td>
<td>Residential Carpenters</td>
<td>Journey Level</td>
<td>$21.09</td>
<td>1</td>
<td>View</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spokane</td>
<td>Residential Cement Masons</td>
<td>Journey Level</td>
<td>$30.58</td>
<td>1</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Residential Drywall Applicators</td>
<td>Journey Level</td>
<td>$22.73</td>
<td>1</td>
<td>View</td>
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<td></td>
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<tr>
<td>Spokane</td>
<td>Residential Drywall Tapers</td>
<td>Journey Level</td>
<td>$22.73</td>
<td>1</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Residential Electricians</td>
<td>Journey Level</td>
<td>$31.45</td>
<td>5</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Residential Glaziers</td>
<td>Journey Level</td>
<td>$19.64</td>
<td>1</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Residential Insulation Applicators</td>
<td>Journey Level</td>
<td>$14.86</td>
<td>1</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Residential Laborers</td>
<td>Journey Level</td>
<td>$18.46</td>
<td>1</td>
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<tr>
<td>Spokane</td>
<td>Residential Marble Setters</td>
<td>Journey Level</td>
<td>$50.44</td>
<td>5A</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Residential Painters</td>
<td>Journey Level</td>
<td>$17.64</td>
<td>1</td>
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<tr>
<td>Spokane</td>
<td>Residential Plumbers &amp; Pipefitters</td>
<td>Journey Level</td>
<td>$21.78</td>
<td>1</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Residential Refrigeration &amp; Air Conditioning Mechanics</td>
<td>Journey Level</td>
<td>$21.30</td>
<td>1</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Residential Sheet Metal Workers</td>
<td>Journey Level (Field or Shop)</td>
<td>$56.61</td>
<td>5I</td>
<td>View</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spokane</td>
<td>Residential Soft Floor Layers</td>
<td>Journey Level</td>
<td>$17.05</td>
<td>1</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Residential Sprinkler Fitters (Fire Protection)</td>
<td>Journey Level</td>
<td>$14.86</td>
<td>1</td>
<td>View</td>
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<td></td>
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<tr>
<td>Spokane</td>
<td>Residential Stone Masons</td>
<td>Journey Level</td>
<td>$50.44</td>
<td>5A</td>
<td>View</td>
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<td></td>
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<tr>
<td>Spokane</td>
<td>Residential Terrazzo Workers</td>
<td>Journey Level</td>
<td>$20.61</td>
<td>1</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Residential Terrazzo/Tile Finishers</td>
<td>Journey Level</td>
<td>$25.58</td>
<td>1</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Residential Tile Setters</td>
<td>Journey Level</td>
<td>$20.61</td>
<td>1</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Roofers</td>
<td>Journey Level</td>
<td>$41.09</td>
<td>5I</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Roofers Using Irritable Bituminous Materials</td>
<td>Journey Level</td>
<td>$43.09</td>
<td>5I</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Sheet Metal Workers</td>
<td>Journey Level (Field or Shop)</td>
<td>$56.61</td>
<td>6Z</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Sign Makers &amp; Installers (Electrical)</td>
<td>Journey Level</td>
<td>$13.91</td>
<td>1</td>
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<tr>
<td>Spokane</td>
<td>Sign Makers &amp; Installers (Non-Electrical)</td>
<td>Sign Installer</td>
<td>$19.12</td>
<td>1</td>
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<td>Spokane</td>
<td>Sign Makers &amp; Installers (Non-Electrical)</td>
<td>Sign Maker</td>
<td>$15.00</td>
<td>1</td>
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<td>Spokane</td>
<td>Soft Floor Layers</td>
<td>Journey Level</td>
<td>$51.07</td>
<td>5A</td>
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<tr>
<td>Spokane</td>
<td>Solar Controls For Windows</td>
<td>Journey Level</td>
<td>$13.50</td>
<td>1</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Sprinkler Fitters (Fire Protection)</td>
<td>Journey Level</td>
<td>$58.99</td>
<td>7J</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Stage Rigging Mechanics (Non Structural)</td>
<td>Journey Level</td>
<td>$13.50</td>
<td>1</td>
<td>View</td>
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<tr>
<td>Spokane</td>
<td>Stone Masons</td>
<td>Journey Level</td>
<td>$50.44</td>
<td>5A</td>
<td>View</td>
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<td></td>
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<tr>
<td>Spokane</td>
<td>Street And Parking Lot Sweeper Workers</td>
<td>Journey Level</td>
<td>$20.47</td>
<td>1</td>
<td>View</td>
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<td>Spokane</td>
<td>Surveyors</td>
<td>All Classifications</td>
<td>$19.84</td>
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<tr>
<td>Location</td>
<td>Occupation</td>
<td>Level</td>
<td>Rate</td>
<td>Code</td>
<td>Code</td>
<td>Code</td>
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<td>Spokane</td>
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<td>$44.50</td>
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<td>5A</td>
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<td>5A</td>
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<td>Asphalt Mix Over 20 Yards</td>
<td>$46.42</td>
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<td>1V</td>
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<td>Dump Truck</td>
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<td>Dump Truck &amp; Trailer</td>
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<td>Transit Mixers 20 yards and under</td>
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<td>1V</td>
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<td>Irrigation Pump Installer</td>
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<td>Well Drillers &amp; Irrigation Pump Installers</td>
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<td>Well Driller</td>
<td>$18.00</td>
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Overtime Codes

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

1. All hours worked in excess of eight (8) hours per day or forty (40) hours per week shall be paid at one and one-half times the hourly rate of wage.

B. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

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

D. The first two (2) hours before or after a five-eight (8) hour workweek day or a four-ten (10) hour workweek day and the first eight (8) hours worked the next day after either workweek shall be paid at one and one-half times the hourly rate of wage. All additional hours worked and all worked on Sundays and holidays shall be paid at double the hourly rate of wage.

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

F. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other overtime hours worked, except Labor Day, shall be paid at double the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.

G. The first ten (10) hours worked on Saturdays and the first ten (10) hours worked on a fifth calendar weekday in a four-ten hour schedule, shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of ten (10) hours per day Monday through Saturday and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

H. All hours worked on Saturdays (except makeup days if work is lost due to inclement weather conditions or equipment breakdown) shall be paid at one and one-half times the hourly rate of wage. All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

I. All hours worked on Sundays and holidays shall also be paid at double the hourly rate of wage.

J. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked over ten (10) hours Monday through Saturday, Sundays and holidays shall be paid at double the hourly rate of wage.

K. All hours worked on Saturdays and Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.

M. All hours worked on Saturdays (except makeup days if work is lost due to inclement weather conditions) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

N. All hours worked on Saturdays (except makeup days) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
**Overtime Codes Continued**

1. **O.** The first ten (10) hours worked on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays, holidays and after twelve (12) hours, Monday through Friday and after ten (10) hours on Saturday shall be paid at double the hourly rate of wage.

2. **P.** All hours worked on Saturdays (except makeup days if circumstances warrant) and Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.

3. **Q.** The first two (2) hours after eight (8) regular hours Monday through Friday and up to ten (10) hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of ten (10) hours per day Monday through Saturday and all hours worked on Sundays and holidays (except Christmas day) shall be paid at double the hourly rate of wage. All hours worked on Christmas day shall be paid at two and one-half times the hourly rate of wage.

4. **R.** All hours worked on Sundays and holidays shall be paid at two times the hourly rate of wage.

5. **S.** The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays and all other overtime hours worked, except Labor Day, shall be paid at double the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.

6. **U.** All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays (except Labor Day) shall be paid at two times the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.

7. **V.** All hours worked on Sundays and holidays (except Thanksgiving Day and Christmas day) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Thanksgiving Day and Christmas day shall be paid at double the hourly rate of wage.

8. **W.** All hours worked on Saturdays and Sundays (except make-up days due to conditions beyond the control of the employer) shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.

9. **X.** The first four (4) hours after eight (8) regular hours Monday through Friday and the first twelve (12) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked over twelve (12) hours Monday through Saturday, Sundays and holidays shall be paid at double the hourly rate of wage. When holiday falls on Saturday or Sunday, the day before Saturday, Friday, and the day after Sunday, Monday, shall be considered the holiday and all work performed shall be paid at double the hourly rate of wage.

10. **Y.** All hours worked outside the hours of 5:00 am and 5:00 pm (or such other hours as may be agreed upon by any employer and the employee) and all hours worked in excess of eight (8) hours per day (10 hours per day for a 4 x 10 workweek) and on Saturdays and holidays (except labor day) shall be paid at one and one-half times the hourly rate of wage. (except for employees who are absent from work without prior approval on a scheduled workday during the workweek shall be paid at the straight-time rate until they have worked 8 hours in a day (10 in a 4 x 10 workweek) or 40 hours during that workweek.) All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and Labor Day shall be paid at double the hourly rate of wage.

11. **Z.** All hours worked on Saturdays and Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid the straight time rate of pay in addition to holiday pay.

Overtime Codes Continued

2. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.

B. All hours worked on holidays shall be paid at one and one-half times the hourly rate of wage.

C. All hours worked on Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at two times the hourly rate of wage.

F. The first eight (8) hours worked on holidays shall be paid at the straight hourly rate of wage in addition to the holiday pay. All hours worked in excess of eight (8) hours on holidays shall be paid at double the hourly rate of wage.

G. All hours worked on Sunday shall be paid at two times the hourly rate of wage. All hours worked on paid holidays shall be paid at two and one-half times the hourly rate of wage including holiday pay.

H. All hours worked on Sunday shall be paid at two times the hourly rate of wage. All hours worked on holidays shall be paid at one and one-half times the hourly rate of wage.

O. All hours worked on Sundays and holidays shall be paid at one and one-half times the hourly rate of wage.

R. All hours worked on Sundays and holidays and all hours worked over sixty (60) in one week shall be paid at double the hourly rate of wage.

U. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked over 12 hours in a day or on Sundays and holidays shall be paid at double the hourly rate of wage.

W. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage. On a four-day, ten-hour weekly schedule, either Monday thru Thursday or Tuesday thru Friday schedule, all hours worked after ten shall be paid at double the hourly rate of wage. The first eight (8) hours worked on the fifth day shall be paid at one and one-half times the hourly rate of wage. All other hours worked on the fifth, sixth, and seventh days and on holidays shall be paid at double the hourly rate of wage.

3. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.

A. Work performed in excess of eight (8) hours of straight time per day, or ten (10) hours of straight time per day when four ten (10) hour shifts are established, or forty (40) hours of straight time per week, Monday through Friday, or outside the normal shift, and all work on Saturdays shall be paid at time and one-half the straight time rate. Hours worked over twelve hours (12) in a single shift and all work performed after 6:00 pm Saturday to 6:00 am Monday and holidays shall be paid at double the straight time rate of pay. Any shift starting between the hours of 6:00 pm and midnight shall receive an additional one dollar ($1.00) per hour for all hours worked that shift. The employer shall have the sole discretion to assign overtime work to employees. Primary consideration for overtime work shall be given to employees regularly assigned to the work to be performed on overtime situations. After an employee has worked eight (8) hours at an applicable overtime rate, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more.

C. Work performed in excess of eight (8) hours of straight time per day, or ten (10) hours of straight time per day when four ten (10) hour shifts are established, or forty (40) hours of straight time per week, Monday through Friday, or outside the normal shift, and all work on Saturdays shall be paid at one and one-half times the hourly rate of wage. All work performed after 6:00 pm Saturday to 5:00 am Monday and Holidays shall be paid at double the hourly rate of wage. After an employee has worked eight (8) hours at an applicable overtime rate, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more.
3. E. All hours worked Sundays and holidays shall be paid at double the hourly rate of wage. Each week, once 40 hours of straight time work is achieved, then any hours worked over 10 hours per day Monday through Saturday shall be paid at double the hourly wage rate.

F. All hours worked on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sunday shall be paid at two times the hourly rate of wage. All hours worked on paid holidays shall be paid at two and one-half times the hourly rate of wage including holiday pay.

H. All work performed on Sundays between March 16th and October 14th and all Holidays shall be compensated for at two (2) times the regular rate of pay. Work performed on Sundays between October 15th and March 15th shall be compensated at one and one half (1-1/2) times the regular rate of pay.

J. All hours worked between the hours of 10:00 pm and 5:00 am, Monday through Friday, and all hours worked on Saturdays shall be paid at a one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

K. Work performed in excess of eight (8) hours of straight time per day, or ten (10) hours of straight time per day when four ten (10) hour shifts are established, or forty (40) hours of straight time per week, Monday through Friday, or outside the normal 5 am to 6pm shift, and all work on Saturdays shall be paid at one and one-half times the hourly rate of wage. All work performed after 6:00 pm Saturday to 5:00 am Monday and Holidays, and all hours worked in excess of twelve (12) hours in a single shift shall be paid at double the hourly rate of wage.

After an employee has worked eight (8) hours at an applicable overtime rate, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more. When an employee returns to work without at least eight (8) hours time off since their previous shift, all such time shall be a continuation of shift and paid at the applicable overtime rate until he/she shall have the eight (8) hours rest period.

4. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.

A. All hours worked in excess of eight (8) hours per day or forty (40) hours per week shall be paid at double the hourly rate of wage. All hours worked on Saturdays, Sundays and holidays shall be paid at double the hourly rate of wage.

B. All hours worked over twelve (12) hours per day and all hours worked on holidays shall be paid at double the hourly rate of wage.

C. On Monday through Friday, the first four (4) hours of overtime after eight (8) hours of straight time work shall be paid at one and one half (1-1/2) times the straight time rate of pay, unless a four (4) day ten (10) hour workweek has been established. On a four (4) day ten (10) hour workweek scheduled Monday through Thursday, or Tuesday through Friday, the first two (2) hours of overtime after ten (10) hours of straight time work shall be paid at one and one half (1-1/2) times the straight time rate of pay. On Saturday, the first twelve (12) hours of work shall be paid at one and one half (1-1/2) times the straight time rate of pay, except that if the job is down on Monday through Friday due to weather conditions or other conditions outside the control of the employer, the first ten (10) hours on Saturday may be worked at the straight time rate of pay. All hours worked over twelve (12) hours in a day and all hours worked on Sunday and Holidays shall be paid at two (2) times the straight time rate of pay.
Overtime Codes Continued

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

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

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

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

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

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

F. All hours worked between the hours of 6:00 pm and 6:00 am, Monday through Saturday, shall be paid at a premium rate of 20% over the hourly rate of wage. All hours worked on Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.

G. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

H. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other overtime hours worked, except Labor Day, and all hours on Sunday shall be paid at double the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.

I. The First eight (8) hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of eight (8) per day on Saturdays shall be paid at double the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

J. The first eight (8) hours worked on a Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of eight (8) hours on a Saturday shall be paid at double the hourly rate of wage. All hours worked over twelve (12) in a day, and all hours worked on Sundays and Holidays shall be paid at double the hourly rate of wage.

K. All hours worked on a Saturday shall be paid at one and one-half times the hourly rate of wage, so long as Saturday is the sixth consecutive day worked. All hours worked over twelve (12) in a day Monday through Saturday, and all hours worked on Sundays and Holidays shall be paid at double the hourly rate of wage.
4. **L.** The first twelve (12) hours worked on a Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on a Saturday in excess of twelve (12) hours shall be paid at double the hourly rate of pay. All hours worked over twelve (12) in a day Monday through Friday, and all hours worked on Sundays shall be paid at double the hourly rate of wage. All hours worked on a holiday shall be paid at one and one-half times the hourly rate of wage, except that all hours worked on Labor Day shall be paid at double the hourly rate of pay.

**M.** All hours worked on Sunday and Holidays shall be paid at double the hourly rate. Any employee reporting to work less than nine (9) hours from their previous quitting time shall be paid for such time at time and one-half times the hourly rate.

**N.** All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays, and all work performed between the hours of midnight (12:00 AM) and eight AM (8:00 AM) every day shall be paid at double the hourly rate of wage.

**O.** All hours worked between midnight Friday to midnight Sunday shall be paid at one and one-half the hourly rate of wage. After an employee has worked in excess of eight (8) continuous hours in any one or more calendar days, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of six (6) hours or more. All hours worked on Holidays shall be paid at double the hourly rate of wage.

**P.** All hours worked on Holidays shall be paid at one and one-half times the hourly rate of wage.

**Q.** The first four (4) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked over twelve (12) hours Monday through Saturday shall be paid at double the hourly rate. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

**R.** All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage, so long as Saturday is the sixth consecutive day worked. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

**S.** All hours worked on Saturdays and Holidays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays shall be paid at double the hourly rate of wage.

**T.** The first two (2) hours of overtime for hours worked Monday-Friday shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of ten (10) hours per day shall be paid at double the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage. For work on Saturday which is scheduled prior to the end of shift on Friday, the first six (6) hours work shall be paid at one and one-half times the hourly rate of wage, and all hours over (6) shall be paid double the hourly rate of wage. For work on Saturday which was assigned following the close of shift on Friday, all work shall be paid at double the hourly rate of wage.

**U.** The first four (4) hours after eight (8) regular hours Monday through Friday and the first twelve (12) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. (Except on makeup days if work is lost due to inclement weather, then the first eight (8) hours on Saturday may be paid the regular rate.) All hours worked over twelve (12) hours Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
4. **V.** Work performed in excess of ten (10) hours of straight time per day when four ten (10) hour shifts are established or outside the normal shift (5 am to 6pm), and all work on Saturdays, except for make-up days shall be paid at time and one-half (1 ½) the straight time rate.

In the event the job is down due to weather conditions, then Saturday may be worked as a voluntary make-up day at the straight time rate. However, Saturday shall not be utilized as a make-up day when a holiday falls on Friday. All work performed on Sundays and holidays and work in excess of twelve (12) hours per day shall be paid at double (2x) the straight time rate of pay.

After an employee has worked eight (8) hours at an applicable overtime rate, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of eight (8) hours.

When an employee returns to work without a break of eight (8) hours since their previous shift, all such time shall be a continuation of shift and paid at the applicable overtime rate until such time as the employee has had a break of eight (8) hours.

**W.** All hours worked on Saturdays (except makeup days if work is lost due to inclement weather conditions) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

When an employee returns to work without at least eight (8) hours time off since their previous shift, all such time shall be a continuation of shift and paid at the applicable overtime rate until such time as the employee has had a break of eight (8) hours.

**X.** All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage. Work performed outside the normal shift of 6 am to 6pm shall be paid at one and one-half the straight time rate, (except for special shifts or three shift operations). All work performed on Sundays and holidays shall be paid at double the hourly rate of wage. Shifts may be established when considered necessary by the Employer.

The Employer may establish shifts consisting of eight (8) or ten (10) hours of work (subject to WAC 296-127-022), that shall constitute a normal forty (40) hour work week. The Employer can change from a 5-eight to a 4-ten hour schedule or back to the other. All hours of work on these shifts shall be paid for at the straight time hourly rate. Work performed in excess of eight hours (or ten hours per day (subject to WAC 296-127-022) shall be paid at one and one-half the straight time rate.

When due to conditions beyond the control of the Employer, or when contract specifications require that work can only be performed outside the regular day shift, then by mutual agreement a special shift may be worked at the straight time rate, eight (8) hours work for eight (8) hours pay. The starting time shall be arranged to fit such conditions of work.

When an employee returns to work without a break of eight (8) hours since their previous shift, all such time shall be a continuation of shift and paid at the applicable overtime rate until such time as the employee has had a break of eight (8) hours.
Overtime Codes Continued

4. Y. Work performed in excess of eight (8) hours of straight time per day, or ten (10) hours of straight time per day when four ten (10) hour shifts are established, or forty (40) hours of straight time per week, Monday through Friday, or outside the normal shift, and all work on Saturdays shall be paid at time and one-half the straight time rate. All work performed after 6:00 pm Saturday to 6:00 am Monday and holidays shall be paid at double the straight time rate of pay.

Any shift starting between the hours of 6:00 pm and midnight shall receive an additional one dollar ($1.00) per hour for all hours worked that shift.

After an employee has worked eight (8) hours at an applicable overtime rate, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more.

Holiday Codes


Holiday Codes Continued


Z. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, And Christmas Day (7). If a holiday falls on Saturday, the preceding Friday shall be considered as the holiday. If a holiday falls on Sunday, the following Monday shall be considered as the holiday.

7. A. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8). Any Holiday Which Falls On A Sunday Shall Be Observed As A Holiday On The Following Monday. If any of the listed holidays falls on a Saturday, the preceding Friday shall be a regular work day.

B. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

C. Holidays: New Year's Day, Martin Luther King Jr. Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
Holiday Codes Continued


E. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

F. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the last working day before Christmas day and Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.


H. Holidays: New Year's Day, Martin Luther King Jr. Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the Last Working Day before Christmas Day and Christmas Day (9). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

I. Holidays: New Year's Day, President’s Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, The Day Before Christmas Day And Christmas Day (9). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

J. Holidays: New Year's Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day and Christmas Day (6). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

K. Holidays: New Year's Day, Memorial Day, Independence Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

L. Holidays: New Year's Day, Memorial Day, Labor Day, Independence Day, Thanksgiving Day, the Last Work Day before Christmas Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

M. Paid Holidays: New Year's Day, The Day after or before New Year's Day, President’s Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, And the Day after or before Christmas Day (10). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

N. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. When Christmas falls on a Saturday, the preceding Friday shall be observed as a holiday.

Holiday Codes Continued

7. Q. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the Last Working Day before Christmas Day and Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. If any of the listed holidays falls on a Saturday, the preceding Friday shall be a regular work day.

R. Paid Holidays: New Year's Day, the day after or before New Year's Day, President’s Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and the day after or before Christmas Day (10). If any of the listed holidays fall on Saturday, the preceding Friday shall be observed as the holiday. If any of the listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly.

S. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, Christmas Day, the day after Christmas, and A Floating Holiday (9). If any of the listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly.

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

V. Holidays: New Year's Day, President’s Birthday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, the day before or after Christmas, and the day before or after New Year’s Day. If any of the above listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly.

W. Holidays: New Year's Day, Day After New Year’s, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Eve Day, Christmas Day, the day after Christmas, the day before Christmas, and a Floating Holiday.

X. Holidays: New Year’s Day, Day before or after New Year’s Day, Presidents’ Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and the day before or after Christmas day. If a holiday falls on a Saturday or on a Friday that is the normal day off, then the holiday will be taken on the last normal workday. If the holiday falls on a Monday that is the normal day off or on a Sunday, then the holiday will be taken on the next normal workday.

Y. Holidays: New Year's Day, Presidents’ Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, and Christmas Day. (8) If the holiday falls on a Sunday, then the day observed by the federal government shall be considered a holiday and compensated accordingly.

Z. Holidays: New Year's Day, President’s Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

15. A. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the day before Christmas Day and Christmas Day. (8) Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday.


**Holiday Codes Continued**


**Note Codes**

8. **D.** Workers working with supplied air on hazmat projects receive an additional $1.00 per hour.

L. **Workers on hazmat projects receive additional hourly premiums as follows -Level A: $0.75, Level B: $0.50, And Level C: $0.25.**

M. **Workers on hazmat projects receive additional hourly premiums as follows: Levels A & B: $1.00, Levels C & D: $0.50.**

N. **Workers on hazmat projects receive additional hourly premiums as follows -Level A: $1.00, Level B: $0.75, Level C: $0.50, And Level D: $0.25.**

P. **Workers on hazmat projects receive additional hourly premiums as follows -Class A Suit: $2.00, Class B Suit: $1.50, Class C Suit: $1.00, And Class D Suit $0.50.**

Q. **The highest pressure registered on the gauge for an accumulated time of more than fifteen (15) minutes during the shift shall be used in determining the scale paid.**

S. **Effective August 31, 2012 – A Traffic Control Supervisor shall be present on the project whenever flagging or spotting or other traffic control labor is being utilized. Flaggers and Spotters shall be posted where shown on approved Traffic Control Plans or where directed by the Engineer. All flaggers and spotters shall possess a current flagging card issued by the State of Washington, Oregon, Montana, or Idaho. This classification is only effective on or after August 31, 2012.**

T. **Effective August 31, 2012 – A Traffic Control Laborer performs the setup, maintenance and removal of all temporary traffic control devices and construction signs necessary to control vehicular, bicycle, and pedestrian traffic during construction operations. Flaggers and Spotters shall be posted where shown on approved Traffic Control Plans or where directed by the Engineer. All flaggers and spotters shall possess a current flagging card issued by the State of Washington, Oregon, Montana, or Idaho. This classification is only effective on or after August 31, 2012.**

U. **Workers on hazmat projects receive additional hourly premiums as follows – Class A Suit: $2.00, Class B Suit: $1.50, And Class C Suit: $1.00. Workers performing underground work receive an additional $0.40 per hour for any and all work performed underground, including operating, servicing and repairing of equipment. The premium for underground work shall be paid for the entire shift worked. Workers who work suspended by a rope or cable receive an additional $0.50 per hour. The premium for work suspended shall be paid for the entire shift worked. Workers who do “pioneer” work (break open a cut, build road, etc.) more than one hundred fifty (150) feet above grade elevation receive an additional $0.50 per hour.**
In addition to the hourly wage and fringe benefits, the following depth and enclosure premiums shall be paid. The premiums are to be calculated for the maximum depth and distance into an enclosure that a diver reaches in a day. The premiums are to be paid one time for the day and are not used in calculating overtime pay.

Depth premiums apply to depths of fifty feet or more. Over 50' to 100' - $2.00 per foot for each foot over 50 feet. Over 101' to 150' - $3.00 per foot for each foot over 101 feet. Over 151' to 220' - $4.00 per foot for each foot over 220 feet. Over 221' - $5.00 per foot for each foot over 221 feet.

Enclosure premiums apply when divers enter enclosures (such as pipes or tunnels) where there is no vertical ascent and is measured by the distance travelled from the entrance. 25' to 300' - $1.00 per foot from entrance. 300' to 600' - $1.50 per foot beginning at 300'. Over 600' - $2.00 per foot beginning at 600'.

W. Meter Installers work on single phase 120/240V self-contained residential meters. The Lineman/Groundmen rates would apply to meters not fitting this description.

X. Workers on hazmat projects receive additional hourly premiums as follows - Class A Suit: $2.00, Class B Suit: $1.50, Class C Suit: $1.00, and Class D Suit: $0.50. Special Shift Premium: Basic hourly rate plus $2.00 per hour.

When due to conditions beyond the control of the Employer or when an owner (not acting as the contractor), a government agency or the contract specifications requires that work can only be performed outside the normal 5 am to 6pm shift, then the special shift premium will be applied to the basic hourly rate. When an employee works on a special shift, they shall be paid a special shift premium for each hour worked unless they are in OT or Double-time status. (For example, the special shift premium does not waive the overtime requirements for work performed on Saturday or Sunday.)

Y. Tide Work: When employees are called out between the hours of 6:00 p.m. and 6:00 a.m. to work on tide work (work located in the tide plane) all time worked shall be at one and one-half times the hourly rate of pay.

Swinging Stage/Boatswains Chair: Employees working on a swinging state or boatswains chair or under conditions that require them to be tied off to allow their hands to be free shall receive seventy-five cents ($0.75) per hour above the classification rate.

Z. Workers working with supplied air on hazmat projects receive an additional $1.00 per hour.

Special Shift Premium: Basic hourly rate plus $2.00 per hour. When due to conditions beyond the control of the Employer or when an owner (not acting as a contractor), a government agency or the contract specifications require that more than (4) hours of a special shift can only be performed outside the normal 6 am to 6pm shift, then the special shift premium will be applied to the basic straight time for the entire shift. When an employee works on a special shift, they will be paid a special shift premium for each hour worked unless they are in overtime or double-time status. (For example, the special shift premium does not waive the overtime requirements for work performed on Saturday or Sunday.)
9. A. Workers working with supplied air on hazmat projects receive an additional $1.00 per hour.

Special Shift Premium: Basic hourly rate plus $2.00 per hour. When due to conditions beyond the control of the Employer or when an owner (not acting as the contractor), a government agency or the contract specifications require that more than four (4) hours of a special shift can only be performed outside the normal 6 am to 6pm shift, then the special shift premium will be applied to the basic straight time for the entire shift. When an employee works on a special shift, they shall be paid a special shift premium for each hour worked unless they are in overtime or double-time status. (For example, the special shift premium does not waive the overtime requirements for work performed on Saturday or Sunday.)

Certified Crane Operator Premium: Crane operators requiring certifications shall be paid $0.50 per hour above their classification rate.

Boom Pay Premium: All cranes including tower shall be paid as follows based on boom length:

(A) 130’ to 199’ = $0.50 per hour over their classification rate.
(B) 200’ to 299’ = $0.80 per hour over their classification rate.
(C) 300’ and over = $1.00 per hour over their classification rate.

B. The highest pressure registered on the gauge for an accumulated time of more than fifteen (15) minutes during the shift shall be used in determining the scale paid.

Tide Work: When employees are called out between the hours of 6:00 p.m. and 6:00 a.m. to work on tide work (work located in the tide plane) all time worked shall be at one and one-half times the hourly rate of pay. Swinging Stage/Boatswains Chair: Employees working on a swinging stage or boatswains chair or under conditions that require them to be tied off to allow their hands to be free shall receive seventy-five cents ($0.75) per hour above the classification rate.

C. Tide Work: When employees are called out between the hours of 6:00 p.m. and 6:00 a.m. to work on tide work (work located in the tide plane) all time worked shall be at one and one-half times the hourly rate of pay. Swinging Stage/Boatswains Chair: Employees working on a swinging stage or boatswains chair or under conditions that require them to be tied off to allow their hands to be free shall receive seventy-five cents ($0.75) per hour above the classification rate.

Effective August 31, 2012 – A Traffic Control Supervisor shall be present on the project whenever flagging or spotting or other traffic control labor is being utilized. A Traffic Control Laborer performs the setup, maintenance and removal of all temporary traffic control devices and construction signs necessary to control vehicular, bicycle, and pedestrian traffic during construction operations. Flaggers and Spotters shall be posted where shown on approved Traffic Control Plans or where directed by the Engineer. All flaggers and spotters shall possess a current flagging card issued by the State of Washington, Oregon, Montana, or Idaho. These classifications are only effective on or after August 31, 2012.

D. Industrial Painter wages are required for painting within industrial facilities such as treatment plants, pipelines, towers, dams, bridges, power generation facilities and manufacturing facilities such as chemical plants, etc., or anywhere abrasive blasting is necessary to prepare surfaces, or hazardous materials encapsulation is required.

E. Heavy Construction includes construction, repair, alteration or additions to the production, fabrication or manufacturing portions of industrial or manufacturing plants, hydroelectric or nuclear power plants and atomic reactor construction. Workers on hazmat projects receive additional hourly premiums as follows -Level A: $1.00, Level B: $0.75, Level C: $0.50, And Level D: $0.25.
PART 1    GENERAL

1.01 SUMMARY

A. Section Includes:

   1. Procedures for preparation and submittal of the Schedule of Values.

1.02 SUBMITTALS

A. Contractor shall submit an initial Schedule of Values per the Pre-Construction Submittal Requirements of Section 01 33 00.

B. Contractor shall submit supporting documentation justifying the amounts in the Schedule of Values if requested by Owner.

1.03 SCHEDULE OF VALUES

A. Contractor shall submit a typed schedule on Owner’s form. Once approved, Contractor shall not revise the Schedule of Values without prior approval by Owner.

B. Format:

   1. Separate each category of Work into a separate line item.

   2. List all major Work activities indicated on the Progress Schedule.

   3. Separate floors, phases, and other easily recognized building divisions when appropriate.

   4. Separate labor, materials and equipment for each item.

   5. Identify site mobilization, demobilization, bonds, and insurance as individual line items.

   6. Include a line item for close-out Work between Substantial Completion and Final Completion.

   7. If applicable, include a line item for allowances. For unit cost allowances, give quantities measured from the Contract Documents multiplied by the unit cost.

   8. When required by Owner, include separate line items for "separately funded Work."

END OF SECTION 01 29 73
PART 1 GENERAL

1.01 SUMMARY

A. Section Includes:
   1. Preconstruction Meeting;
   2. Progress Meetings; and
   3. Other meetings, as requested by Owner.

1.02 PRECONSTRUCTION MEETING

A. Meeting Location: Owner will schedule a meeting prior to the start of construction. The purpose of this meeting is to review Contract administration requirements and mobilization procedures. Attendance is required for the following:
   1. Architect/Engineer and design Subconsultants;
   2. Contractor's Superintendent and Project Manager;
   3. Representative of major Subcontractors, as appropriate;
   4. Others, as appropriate.

B. Owner's Designated Representative shall:
   1. Preside over and conduct meeting.
   2. Record, reproduce, and distribute copies of minutes within 7 Days of the meeting to all meeting participants.

C. Agenda for the meeting will include at a minimum:
   1. The Work;
   2. Progress Schedule, including Work sequence, phasing, and occupancy requirements;
   3. Communications chain and persons authorized to direct changes;
   4. Use of the Project site;
   5. Special Project procedures;
   6. Procedures and processing:
      a. Application for Payments and Schedule of Values;
      b. Contract Change Proposals (CCP), Work Directive (WD);
      c. Change Orders (CO);
d. Requests for Information (RFI);
e. Submittals; and
f. Others as appropriate.

7. Project Record;
8. Construction facilities, controls, and construction aids;
9. Temporary utilities;
10. Security procedures;
11. Safety and first-aid procedures;
12. Environmental Health and Safety;
13. Housekeeping procedures;
14. AHJ representative(s) and inspection procedures;
15. Utility shutdowns;
16. Parking;
17. Existing conditions;
18. Subcontractor list;
19. Emergency phone and keys to site;
20. Progress meeting scheduling;
21. Shipment and deliveries; and
22. Other(s) as appropriate.

1.03 PROGRESS MEETINGS

A. Progress meetings will occur as required.

B. Meeting Location: Contractor's Project field office, unless otherwise agreed.

C. Attendance: Representatives attending meetings must be qualified and authorized to act on behalf of their firms. Attendance shall include:

1. Architect/Engineer and Subconsultants, as appropriate;
2. Owner's Designated Representatives;
3. Contractor's Superintendent and Project Manager;
4. Subcontractors, as appropriate;
5. Suppliers, as appropriate; and
6. Others, as appropriate.

D. Owner's Designated Representative shall:
1. Administer progress and other specially scheduled meetings;

2. Record, reproduce, and distribute copies of minutes within 6 Days of meeting to all meeting participants; and

E. Contractor shall, at each meeting, provide each meeting attendant with:

1. Short-interval (look-ahead) schedule coordinated with the Progress Schedule;

2. Updated Progress Schedule, if appropriate;

3. Updated submittal log and schedules;

4. Updated RFI log;

5. Issues Log;

6. Quality Control Log; and

7. Any applicable tracking mechanisms.

F. Agenda for these meetings will include at a minimum:

1. Project safety;

2. Review and approval of minutes from previous meeting;

3. Review Work progress since previous meeting;

4. Review plans for progress for subsequent Work period and short-interval (look-ahead) schedule;

5. Review Progress Schedule;

6. Present corrective measures and procedures to regain Progress Schedule, as applicable;

7. Present field observations, problems, and conflicts;

8. Discuss RFIs;

9. Review quality control;

10. Review submittal log and schedules and present methods to expedite as required;

11. Review off-site fabrication;

12. Review delivery schedules;

13. Review coordination issues;

14. Review proposed changes for:
   a. Effect on Progress Schedule and on completion date.
   b. Effect on any other contracts of the Project.

15. Review Issues Log;
16. Review draft Application for Payment (at end of month);
17. Review Project Record; and
18. Review any other issues.

1.04 OTHER MEETINGS

A. Owner may call additional Project meetings as appropriate.

B. Meetings as required by other sections.

C. Format and agenda of these meetings will follow that of Progress Meetings unless Owner determines otherwise.

END OF SECTION 01 31 19
PART 1 GENERAL

1.01 GENERAL COMMUNICATION

A. Subcontractors: Informal communication between Owner, Owner’s consultants, and other Subcontractors is permitted. If written clarification or direction is required to resolve questions, transmit questions in writing using a Request for Information (RFI) through the Contractor to Owner.

B. In case of an EMERGENCY, dial 9-1-1 if appropriate; otherwise, contact Owner’s Designated Representative. If he or she is not available contact Facilities Services, Capital at 509-335-9000.

1.02 CORRESPONDENCE

A. Address all correspondence to Owner’s Designated Representative.

B. Contractor shall copy Architect/Engineer on all correspondence to and from Owner.

C. Include Project title and Owner Project number on all correspondence.

1.03 REQUEST FOR INFORMATION

A. When field conditions or Contract Document require clarification, a written Request for Information (RFI) must be submitted per the following:

1. Identify the nature and location of each clarification/verification using a RFI form and provide at least the following information:

   a. Project name and number;
   b. Date;
   c. Date response requested;
   d. RFI number;
   e. Subject;
   f. Initiator of the question;
   g. Indication of costs;
   h. Indication of schedule impact;
   i. Location on site;
   j. Contract Drawing reference;
   k. Contract Specification section and paragraph reference;
   l. Descriptive text;
   m. Recommended solution(s); and
n. Space for reply on same page as questions.

B. Each RFI must be limited to a single issue, but shall reference other related RFIs.

C. Route and copy RFIs in same manner as correspondence.

D. Allow a minimum of 14 Days for Owner response to RFI.

1.04 NONCONFORMANCE REPORT


B. Procedure: If Contractor proceeds to install deficient Work or fails to correct Work that in the opinion of Owner fails to conform to the Contract Documents, an NCR may be issued. Upon receipt of a NCR, Contractor shall take immediate action to correct nonconforming Work. Correction of nonconforming Work will be reviewed at progress meetings.

1.05 COORDINATION

A. General Coordination: Contractor shall:

1. Coordinate with Work of other sections to ensure that all fixtures, devices, switches, outlets, ducts, pipes, and similar items can be installed as shown without modifications to framing. Provide all blockouts, raceways and similar framing, as required;

2. Coordinate the Work and not delegate responsibility for coordination to any Subcontractor. Contractor must make available to each Subcontractor, prior to the execution of each Subcontract, copies of the Contract Documents to which the Subcontractor will be bound. Subcontractor will similarly make copies of the Contract Documents available to their respective lower-tier Subcontractors. Contractor must provide Owner copies of the written agreements between Contractor and any Subcontractor upon request;

3. Anticipate interrelationship of all Subcontractors and their relationship with the total Work;

4. Resolve differences or disputes between Subcontractors and materials suppliers concerning coordination, interference, or extent of Work between sections;

5. Be in charge of and responsible for the Work and the Project site, including directing and scheduling all Work; and

6. Cooperate with Separate Contractors. Work by others may be occurring within the building or at locations adjacent or near to the Project site. Contractor must cooperate with all such work.

B. Mechanical and Electrical Coordination: Contractor shall:
1. Resolve all "tight", restricted, or inaccessible areas involving Work of various disciplines in advance of installation.

2. If necessary, and before Work proceeds in these areas, prepare coordination drawings for review showing all Work in “tight”, restricted, or inaccessible areas.

3. Provide coordination drawings necessary to resolve "tight", restricted, or inaccessible areas, at no increase in Contract Sum.

C. Job Site Field Measurements and Templates: Contractor shall:

1. Obtain field measurements required for accurate fabrication and installation of Work. Exact measurements are Contractor's responsibility.

2. Furnish or obtain templates, patterns, and setting instructions as required for installation of all Work. Contractor shall verify in field, as needed.

END OF SECTION 01 31 23
PART 1 GENERAL

1.01 SUMMARY

A. This Section specifies the administrative and procedural requirements to comply with the requirements of the General Conditions regarding preparation of Contractor's Progress Schedules, monthly update to the Progress Schedules, and other schedules as specified herein. The purposes of these schedules and reports are to:

1. Ensure adequate planning and execution of the Work by Contractor;
2. Establish a standard against which progress of the Work can be tracked;
3. Assist in monitoring progress;
4. Evaluate the impact of any changes to the Contract; and
5. Support the basis for progress payments.

B. All schedule submittals including updated Progress Schedules will be reviewed by Owner for compliance with Contract terms and the needs of the University. Review of any schedule does not constitute approval or acceptance of Contractor's construction means, methods, or sequencing, or an assessment by Owner of Contractor's ability to complete the Work within the Contract Time.

1.02 WORK INCLUDED

A. Contractor shall submit a preliminary Progress Schedule, as required by the Pre-Construction Submittal Requirements of Section 01 33 00.

B. Contractor shall prepare and submit Progress Schedules and reports as required by this Section. NOTE: Processing and payment of the second Application for Payment is contingent upon receipt, review, and subsequent acceptance of the updated Progress Schedule.

C. Contractor shall participate in monthly scheduling meetings and provide updated Progress Schedules as require by this Section.

D. Contractor shall perform Contemporaneous Period Analysis (CPA) of any delays associated with the critical path schedule as required by this Section.

E. Contractor shall provide weekly Short-Interval (look-ahead) schedules as required by this Section.

F. Contractor shall submit a Submittal Schedule as required by this Section.

1.03 PRELIMINARY PROGRESS SCHEDULE

A. Contractor shall submit a preliminary Progress Schedule as part of the Pre-
Construction Submittal Requirements in Section 01 33 00 - Submittals. The schedule shall include activity description, activity start and end dates. The schedule shall emphasize milestone dates and date of Substantial Completion. Schedule shall clearly identify the critical path schedule elements.

B. Progress Schedule shall be in Bar Chart format.

C. Schedule activities longer than 14 days shall be sufficiently detailed.

D. Participate in schedule update meetings and provide updated Progress Schedules.

1.04 CONTRACTOR'S PROGRESS SCHEDULE

A. Within three calendar days of receiving WSU comments on the preliminary Progress (Bar Chart) Schedule, the Contractor shall prepare and submit a detailed Progress (Bar Chart) Schedule. This schedule shall be the Contractor's as-planned schedule and shall be used to plan, organize, and execute the Work, record and report actual performance and progress through updates, as well as show how the Contractor plans to complete all remaining Work. The accepted Contractor's Progress (Bar Chart) Schedule and subsequent updates shall be the basis for consideration and analysis of requests for time extensions.

B. Updates:

1. The Contractor is required to prepare and submit an updated Progress (Bar Chart) Schedule as agreed upon at the Pre-construction Meeting.

2. The Contractor and Owner's Designated Representative will review the updated schedule and will discuss any differences or issues raised. Decisions made and agreed to by all parties are binding. However, no contracted completion dates will be modified except by an approved Contract Change Proposal and subsequent Change Order.

3. Timely submission of updates is of significant and crucial importance to the management of this Project. Lack of or late receipt of updates diminishes their value to the Project. Therefore, at the Owner's Designated Representative discretion, partial payment may be withheld for a late update as may be determined by the Owner's Designated Representative in consideration of the value of the update at the time of receipt, the circumstances of the late submittal, and the level of progress achieved on the Project.

C. The Contractor shall submit the Progress Schedule, consisting of the reports and diagrams as specified by this subsection, in the following formats quantities:

1. Electronic PDF file of all reports, schedules, etc.
2. Native electronic copy of the CPM Progress Schedule.

D. Float: Contractor is not entitled to any adjustment in the Contract Time or the Contract Sum, or to any additional payment or equitable adjustment of any sort,
by reason of the loss or the use of any float time, including time between Contractor’s anticipated completion date and the end of the Contract Time, whether or not the float time is described as such on the Progress Schedule.

E. Qualifications: Contractor shall submit the resume(s) of the person(s) designated as responsible for schedules and reports (the Contractor’s scheduler) Prior to commencing construction activities. Contractor's scheduler shall have demonstrable capability to plan, coordinate, execute, and monitor a CPM schedule as required for this Project. Owner’s Designated Representative will approve or disapprove the Contractor's proposed scheduler. In the event of disapproval, a new scheduler shall be proposed within 7 Days and be subject to the same consideration criteria as noted above.

1.05 MONTHLY UPDATES

A. Contractor shall prepare and submit updated Progress Schedules and participate in schedule update meetings with the Owner each month. Participation in the meeting and submission of the monthly update is a condition precedent for payment of the line item value for scheduling Work.

1. Updated monthly schedule submittals:
   a. A PDF electronic version of complete Project schedule showing the critical path accompanied by a narrative of any deviations from the previous month.
   b. Electronic schedule file in native format.
   c. Short-interval schedules or look-ahead schedules shall not be an acceptable submittal.

B. Contractor shall prepare an update of the current Progress Schedule each month to reflect Work progress achieved since the previous update. Progress updating shall be performed without changes to the schedule logic or the original duration of activities. Monthly progress updating is required and necessary prior to performing a Contemporaneous Period Analysis of any change to the calculated completion date from the prior update.

C. Contractor may, in a second report, incorporate any logic and duration changes that represent revised planning. All such changes must be clearly identified and submitted for acceptance.

D. The Progress Schedule must clearly identify the current Substantial and Final Completion dates.

E. Contractor shall account for all adverse weather days and similar excusable noncompensable delays. By whatever method Contractor chooses to account for such delays and events, a narrative description and CPA of the accounting shall be included with the narrative report.

F. Monthly schedule update meetings:

1. Monthly schedule update meetings shall be held at Contractor's Project
field office one week prior to the due date of Contractor’s monthly Application for Payment, unless otherwise agreed.

2. The Contractor shall provide updated Project schedule submittals.

3. The Contractor shall also provide a narrative report including:
   a. A description of the Work accomplished during the preceding period;
   b. A discussion of the Work that had been scheduled to be performed during the previous period but was not, and explain why it was not performed; and
   c. A discussion of the Work scheduled for the upcoming period noting any issues or events that could impact this Work. If Contractor intends to make logic or original activity duration changes, the report must specifically identify such changes.

4. Contractor, Owner, and Architect/Engineer will review these reports and will discuss any differences or issues raised. No contractual completion dates will be modified except by approved Change Order.

G. Timely submission of updates is of significant and crucial importance to the Project. Owner may withhold payment as per Section 01 29 00 Applications for Payment.

1.06 THE CONTEMPORANEOUS PERIOD ANALYSIS

A. It is Owner’s intent to resolve all issues affecting the Contract completion date in a timely, efficient and effective manner. To achieve this goal, and in addition to contractor’s obligation to follow the contractual dispute resolution procedure, Contractor shall analyze any delays to the critical path or completion date by application of the Contemporaneous Period Analysis method. A CPA shall normally coincide with the monthly schedule update meetings.

B. Assessment of impacts due to changes or other events, in accordance with the CPA method, must be based on the most recent accepted updated Progress Schedule. No logic or duration changes shall be made to updates until progress related data has been incorporated into the Progress Schedule and the Progress Schedule is updated to reflect actual progress for the period. All data shall be provided to Owner.

C. Submission of an accurate and properly updated Progress Schedule and completion of the Contemporaneous Period Analysis are conditions precedent to the review and approval of any request for an extension in the Contract Time. Owner may assess liquidated damages, if any, regardless of the status of any requests for time extensions pending, until any such requests are resolved.

D. The process for preparing and submitting a CPA is as follows:

1. Contractor will notify Owner in writing of event(s) or occurrence(s) which constitute a delay of the critical path or completion date affecting progress
of the Work.

2. Contractor shall evaluate the event(s) or occurrence(s) and produce a narrative of the resulting delay describing the effect upon concurrent or logically connected subsequent activities.

3. Consistent with the narrative, Contractor shall produce a subnet to graphically describe the event(s) or occurrence(s) and the effect upon the Progress Schedule.

4. Contractor will recalculate the Progress Schedule and provide an updated PDF and Native Progress Schedule.

E. The CPA will be reviewed at the monthly schedule update meeting or at a special meeting scheduled with Owner. At the CPA review meeting, Contractor shall present the CPA and respond to questions.

F. Until and unless substantiated delay is accepted by Owner, the time effect shall not be incorporated into any monthly update. If accepted after a monthly update in which the event(s) or occurrence(s) took place, that monthly update may be recalculated, resubmitted and shall be included in an approved Change Order.

1.07 SHORT-INTERVAL SCHEDULE

A. Prepare a weekly Short-Interval (look-ahead) Schedule based upon the Contractor's Work plan and the updated Progress Schedule.

B. Format for the Short-Interval (look-ahead) Schedule shall be acceptable to Owner. The format shall include comment annotation as necessary.

C. Content of the Short-Interval (look-ahead) Schedule shall include the Work planned for the next 3-week period and the Work that was performed in the previous week.

D. Copies of the Short-Interval (look-ahead) Schedule shall be provided at the weekly progress meetings to be used as a basis for discussion of progress and of planned Work.

1.08 SUBMITTAL SCHEDULE

A. Provide a Submittal Schedule within 10 Days of Owner's Acceptance of the Project Schedule per Section 01 33 00 - Submittals.

PART 2 PRODUCTS

2.01 SCHEDULING SOFTWARE

A. Contractor shall utilize Microsoft Project or Primavera P6 unless otherwise agreed to by Owner.

B. Contractor shall provide a licensed and royalty pre-paid copy of the mutually
agreed upon scheduling software. The selected software must be capable of performing target-to-current schedule comparisons, cost and resource loading functions and have the option of executing calculations in retained logic. Activities must be able to process lead and lag time relationships, start-to-finish or finish-to-finish relationships, and be capable of being hammocked, if required. The software must be registered with Owner and be provided in a format compatible with Owner's systems.

END OF SECTION 01 32 13
PART 1 GENERAL

1.01 SECTION INCLUDES

A. Preconstruction photography.

B. Construction photography of Work-in-progress.

1.02 GENERAL

A. Contractor shall provide photographs taken from locations coordinated with Owner.

B. Photographer: Experienced in taking construction photography.

C. Equipment: All photos shall be in digital format.

D. Video images may be acceptable for certain operations. Confirm with Owner.

PART 2 PRODUCTS

2.01 PRECONSTRUCTION PHOTOGRAPHS

A. Contractor shall provide electronic files containing photographs of the existing conditions at the site, surroundings, and haul routes per the Pre-Construction Submittal Requirements of Section 01 33 00. Coordinate with Owner the extent of the preconstruction photographic record that is required.

2.02 CONSTRUCTION PHOTOGRAPHS

A. Contractor shall provide electronic files containing photographs of construction progress on a monthly basis.

2.03 PHOTOGRAPHIC SUBMITTALS

A. Photographs shall be submitted each month during the Contract Time, or as otherwise agreed upon by Owner. The number of photographs shall be sufficient to document the site to the satisfaction of the Owner and Contractor.

B. Photographs shall be representative of Project progress, showing all major Work and any critical concealed conditions.

C. The files in each monthly photograph submittal must each be labeled with the Project name, Project number, and submittal date. Additionally, each photograph shall be dated, labeled, and accompanied by a brief description identifying the location and direction the photo was taken. Date stamp using month/date/year format.
PART 3 EXECUTION

3.01 PRECONSTRUCTION PHOTOGRAPHS

A. Coordinate the scope of preconstruction photographic record survey with Owner.

B. Take preconstruction photographs to identify and establish a baseline record of existing conditions.

C. A preconstruction photographic record survey shall include, but not be limited to, all areas that may be impacted or damaged by construction phase activities.

D. The extent or nature of the existing site and adjacent surroundings shall be thoroughly documented.

3.02 CONSTRUCTION PHOTOGRAPHS

A. Contractor shall take construction photographs each month during construction of the Project.

B. Contractor shall document concealed conditions (once exposed) that differ from expectations.

1. It is critical that Contractor photographically document concealed conditions that may benefit Owner’s future maintenance and operations activities. Take photographs (with a reference point) prior to cover or concealment. For example:
   b. Under-slab utility rough-in.
   c. Wall cavity utility routing.
   d. Above-ceiling installation after ceiling support system installed, but prior to cover.

2. The photograph record described above shall be considered minimum and shall not be deemed to limit the quantity or quality of the photographic record.

END OF SECTION 01 32 33
PART 1   GENERAL

1.01  SUMMARY

A. This section includes administrative and procedural requirements for submittals required for performance of the Work, including:

1. Pre-Construction Submittal Requirements;
2. Shop Drawings;
3. Product data;
4. Samples; and
5. Mock-ups.

1.02  SUBMITTAL PROCEDURES

A. Provide submittal schedule as required by Section 01 32 13 – Progress Schedule. The Submittal Schedule shall meet all of the requirements below.

B. Coordination: Review of the submittals by Owner is not for the purpose of determining their accuracy and/or completeness, or for substantiating instructions for installation or performance of equipment or systems, all of which remain the responsibility of Contractor as required by the Contract Documents.

1. Owner reserves the right to withhold action on a submittal requiring coordination with other submittals until all related submittals are provided.

2. Allow at least 14 Days for review of each submittal by Owner. Complex or interrelated submittals, or the submission of multiple submittals at or near the same time, will require additional time. Provide a "priority list" when submitting multiple submittals at or near the same time. Submittal sequencing should coincide with the submittal schedule (see Section 01 32 13 – Progress Schedule).

C. Submittal Preparation: Place a permanent label or title block on each submittal for identification.

1. Include the following information on the label or title block:
   a. Project name, Project number, and date;
   b. Name and address of Owner;
   c. Name and address of Contractor and submitting Subcontractor, if applicable;
   d. Name and address of supplier and manufacturer, if applicable;
   e. Number and title of appropriate Specification section; and
   f. Drawing number and detail references, as appropriate.
2. Provide adequate space for action stamps to record review.

D. Submittal Transmittal: Package submittals in manageable quantities and transmit to Owner and Architect/Engineer, if applicable, simultaneously. Submittals received from sources other than Contractor will be returned without action. By submitting submittals, Contractor represents to Owner that Contractor has (1) reviewed and approved them, (2) determined and verified materials, field measurements, and field construction criteria related thereto, or will do so, and (3) checked and coordinated the information contained within each submittal with the requirements of the Work and of the Contract Documents.

1. Address one topic or related set of topics in each transmittal based upon Specification sections (i.e., mechanical items should not be submitted under same transmittal with electrical items).

2. Clearly call out relevant information, deviations, and requests for data, including minor variations from the Contract Documents on both the transmittal and all copies of a submittal.

3. Shop drawings, product data, samples, and mock-ups shall be submitted to Owner’s Designated Representative for review/approval. The minimum number of submittals to be provided are:
   a. Pre-Construction, Shop Drawings, Product Data: Electronic copies.
   b. Samples: As required by the technical Specification section.
   c. Mock-ups: As required by the technical Specification section.
   d. Demonstrations: As required to facilitate installation and inspection.
   e. Reference technical Specifications for additional submittal requirements.

4. Owner may modify the required submittal quantities.

E. Material and Color Submittal: Submit samples of actual colors and/or materials.

F. Number submittals by Specification section number and revision letter.

G. In the event of the need to "revise and resubmit" a submittal, resubmit same in acceptable form/content, clearly identifying deviations from the previous rejected submittal. Contractor shall also keep accurate records of the receipt, review, and delivery of all submittals and shall submit to Owner, as requested, status reports.

H. Provide a final electronic copy of all approved submittals.

1.03 PRE-CONSTRUCTION SUBMITTAL REQUIREMENTS

A. All Pre-Construction Submittals are required before onsite construction activities may commence. Contractor shall submit the following Pre-
Construction Submittals within 14 Days of Notice to Proceed. Submittal review for these items only shall be supplied within 14 Days of receipt by Owner.

1. Indoor Air Quality Management Plan
2. Site Safety and Health Plan (for information only)
3. Quality Control / Quality Assurance Plan
4. Waste Management Plan
5. Progress Schedule
6. Schedule of Values
7. Pre-Construction Photographs
8. Emergency Points of Contact
9. List of Subs and Suppliers
10. SWPP (Storm Water Pollution Prevention Plan)

1.04 SHOP DRAWINGS

A. Submit Shop Drawings drawn to accurate scale. Do not reproduce Contract Documents or copy standard information for use as Shop Drawings. Standard information prepared without specific references to the Project will not be accepted as a Shop Drawing.

B. Shop Drawings Include: fabrication and installation drawings, setting diagrams, schedules, patterns, templates, and similar drawings. Include the following information:

1. Dimensions;
2. Products and materials;
3. Compliance with specified standards;
4. Coordination requirements;
5. Notation of dimensions established by field measurements;
6. Any deviation from Drawings or Specifications; and
7. Date when review is requested to maintain Progress Schedule.

1.05 PRODUCT DATA – NOT USED

1.06 SAMPLES AND MOCK-UPS – NOT USED

1.07 OWNER’S ACTION

A. Review: Except for submittals for information or a similar purpose, Owner will review each submittal, mark to indicate action taken, and return promptly.

B. Owner approval of submittals does not supersede or alter Contract Document requirements.

END OF SECTION 01 33 00
PART 1 GENERAL

1.01 SUMMARY

A. This Section includes the administrative and procedural requirements for any general alterations to be performed during the Project, including but not limited to products, transition and adjustments, cutting, patching, and repair and cleaning.

1.02 SUBMITTALS

A. Contractor shall submit a written request in advance of cutting or alteration that impacts:

1. Structural integrity of any element of Project.
2. Integrity of weather-exposed or moisture-resistant elements.
3. Efficiency, maintenance, or safety of any operational elements.
5. Work of Owner or a separate contractor.

B. Contractor must include in its written request, when required:

1. Identification of Project.
2. Location and description of affected Work.
3. Necessity for cutting or alteration.
4. Description of proposed Work and products to be used.
5. Alternatives to cutting and patching.
6. Effect on Work of Owner or separate contractor.
7. Written permission of affected separate contractor.
8. Date and time Work will be executed.

1.03 QUALITY ASSURANCE

A. Limits of Work:

1. Contractor shall maintain existing building structure (including structural floor and roof decking) and envelope (exterior skin and framing, excluding window assemblies and nonstructural roofing material) not indicated to be removed; do not cut such existing conditions beyond indicated limits.
2. Contractor shall maintain existing interior nonstructural elements (interior walls, doors, floor coverings, and ceiling systems) not indicated to be removed; do not cut such existing conditions beyond indicated limits.
3. Contractor shall maintain existing nonshell, nonstructural components (walls, flooring, and ceilings) not indicated to be removed; do not cut such existing conditions beyond indicated limits.
B. Structural Elements: Do not cut and patch structural elements in a manner that could change their load-carrying capacity or load-deflection ratio.

C. Operational Elements: Do not cut and patch operating elements and related components in a manner that results in reducing their capacity to perform as intended or that results in increased maintenance or decreased operational life or safety. Operating elements include the following:

1. Primary operational systems and equipment.
2. Air or smoke barriers.
3. Fire-suppression systems.
4. Mechanical systems piping and ducts.
5. Control systems.
6. Communication systems.
7. Conveying systems.
8. Electrical wiring systems.
9. All low voltage systems.
10. Operating systems of special construction in Division 13.
11. Other operating systems as appropriate.

D. Miscellaneous Elements: Do not cut and patch miscellaneous elements or related components in a manner that could change their load-carrying capacity, that results in reducing their capacity to perform as intended that result in increased maintenance or decreased operational life or void of warranty, or could adversely affect safety. Miscellaneous elements include the following:

1. Water, moisture, or vapor barriers.
2. Firestopping or fire barriers.
3. Membranes and flashings.
4. Exterior curtain-wall construction.
5. Equipment supports.
6. Piping, ductwork, vessels, and equipment.
7. Noise and vibration-control elements and systems.
8. Other miscellaneous systems as appropriate.

E. Visual Requirements: Do not cut and patch construction in a manner that results in visual evidence of cutting and patching. Do not cut and patch exterior conditions or in occupied spaces in a manner that would, in Owner's opinion, reduce the building's aesthetic qualities. Contractor shall remove and replace conditions that have been cut and patched in a visually unsatisfactory manner.

PART 2 PRODUCTS

2.01 PRODUCTS FOR PATCHING AND EXTENDING WORK

A. New Materials: Match existing products and Work when patching and extending Work.
B. Type and Quality of Existing Products: Determine by inspection and testing products where necessary; refer to existing Work as a standard.

PART 3 EXECUTION

3.01 EXAMINATION

A. Contractor shall, before starting each portion of the Work, carefully study and compare the various Contract Documents related to that portion of the Work, as well as other information available to Contractor, take field measurements, and inspect any existing conditions, including elements subject to damage or movement during cutting and patching.

B. After uncovering existing Work, inspect conditions affecting performance of Work.

C. By beginning any cutting or patching, Contractor represents and warrants its acceptance of existing conditions.

D. Contractor shall verify that demolition is complete and areas are ready for installation of new Work.

3.02 PREPARATION

A. Contractor shall cut, move, or remove items as necessary for access to alterations and renovation Work. Replace and restore at completion.

B. Contractor shall remove unsuitable material not marked for salvage, such as rotted wood, corroded metals, deteriorated masonry, concrete, and disturbed subgrade material. Replace materials as specified for finished Work.

C. Contractor shall remove debris and abandoned items from area and from concealed spaces.

D. Contractor shall prepare surface and remove surface finishes to provide for proper installation of new Work and finishes.

E. Contractor shall close openings in exterior surfaces to protect existing Work. Contractor shall insulate ductwork and piping to prevent moisture and condensation in exposed areas.

F. Contractor shall provide temporary supports to ensure structural integrity of the Work. Provide devices and methods to protect Work from damage.

3.03 PERFORMANCE

A. Contractor shall coordinate alterations and renovations to expedite completion of the Work.
B. Remove, cut, and patch Work in a manner to minimize damage. Provide a means of restoring products and finishes to their original or specified condition.

C. Refinish remaining existing surfaces in renovated rooms and spaces, to specified condition for each material, with a neat and clean transition to adjacent finishes.

D. In addition to specified replacement of equipment and fixtures, restore existing plumbing, heating, ventilation, air conditioning, and electrical systems to full original operational condition.

E. Install products as specified in individual sections.

F. Remove samples of installed Work for testing when requested.

G. Provide openings in the Work for penetration of mechanical and electrical Work.

H. Cut rigid materials using the appropriate equipment and tool. Pneumatic tools not allowed without prior approval.

1. Concrete Walls: Saw-cut walls using accurately located straight lines, unless directed otherwise. Minimize overcuts.

2. Masonry Walls: Saw-cut along mortar joints, cutting block uniformly in accurately located straight lines, unless otherwise directed. Remove all mortar adhering to edges. Overcuts not allowed.

3. Wood Framed Walls: Demolish plaster or gypsum wallboard, removing wall framing only as required. Cut wall finish materials in straight uniform lines.

4. Concrete Floors: Saw-cut floors and remove. Core drill as required.

I. Restore Work with new products in accordance with requirements of Contract Documents.

J. Fit Work to existing pipes, sleeves, ducts, conduit, and other penetrations through surfaces, while maintaining assemblies.

K. At penetrations of fire rated walls, partitions, ceilings, or floors, completely seal voids with firestopping material to full thickness of the penetrated element, while maintaining assemblies.

L. Cleaning: Clean areas and spaces where cutting and patching are performed. Completely remove paint, mortar, oils, putty, and similar materials.

END OF SECTION 01 35 16
PART 1 GENERAL

1.01 SECTION INCLUDES

A. Requirements pertaining to regulatory requirements.

B. List of regulatory requirements.

1.02 CONTRACTOR RESPONSIBILITY

A. Contractor is solely responsible for compliance with all codes, laws, or regulatory requirements.

B. Inspections performed or not performed by the City of Spokane, Labor and Industries, Owner, Owner Designated Representative, or others who are under contract to Owner do not waive or change Contractor’s obligations, nor do such inspections constitute approval or acceptance of portions of the Work.

1.03 CONTRACTOR REQUIREMENTS

A. Contractor shall perform the Work in accordance with the requirements of governing agencies and applicable regulatory requirements, including those included in this Section and elsewhere in the Contract Documents. Contractor must comply with all applicable laws, building codes, regulations, and rules, including, when applicable, the Washington State University campus code.

B. Contractor shall schedule and coordinate inspections and gain approvals required by the City of Spokane and other governing agencies in a timely manner and as required for Owner occupancy of the Project within the Contract Time.

C. Contractor shall inform the City of Spokane Building and Fire Departments, Labor and Industries, and other governing agencies of changes in the Work affecting regulatory requirements in a timely manner.

D. Contractor shall promptly forward to Owner all inspection reports, orders, permits, and other directives and correspondence received from the City of Spokane inspectors or other governing agencies having jurisdiction over the Work.

E. Contractor shall promptly notify Owner when the Contract Documents appear to be in conflict with Regulatory Requirements.

F. Contractor shall, at all times, use its best efforts and exercise its judgment as an experienced contractor to adopt and implement policies and practices designed to avoid work stoppages, slowdowns, disputes, or strikes where reasonably possible and practical under the circumstances, and shall, at all times, maintain Project-wide labor harmony.
1.04 REGULATORY REQUIREMENTS

A. Authority Having Jurisdiction (AHJ) shall be the organization, office, or individual responsible for enforcing the requirements of the applicable code(s) or standard(s), and or for approving equipment, materials, installation(s), or procedure(s).

B. Regulatory authorities establish minimum requirement levels. Where provisions of the Contract Documents and regulatory requirements differ or conflict, the more stringent requirement governs.

C. Regulatory requirements added by other sections of the Contract Documents or otherwise applicable are binding upon the Work in accordance with the provisions of this Section. The regulatory-requirements list provided below is intended to assist Contractor in determining the regulatory requirements for the Project, but neither the inclusion nor omission of any item from the list shall be construed to relieve Contractor of obligations that otherwise exist under the law or the Contract.

1.05 LIST OF REGULATORY REQUIREMENTS


C. State of Washington, WAC Chapters 173, 246, and 296, as applicable.

D. U.S. Environmental Protection Agency 40 CFR, as applicable.

E. U.S. Transportation Department Title 49, Parts Pertaining to Transportation of Hazardous Materials.

F. Electrical Work:
   1. NFPA 70, National Electrical Code (NEC), most recent adopted edition.
   2. Underwriters’ Laboratories (UL).
   3. National Electrical Manufacturer’s Association (NEMA).

1.06 PERMITS REQUIRED

A. Contractor shall obtain and pay for all required building permits, including any renewals. Contractor shall identify costs for permits on the Schedule of Values for permits obtained.

B. All trade permits (e.g. electrical, pressure vessel, elevator, etc.) must be included in each Subcontractor bid.
C. Owner obtains permits for the following facilities and activities.
   1. Permits and/or Approvals from the DOE or local environmental authority:
      a. Stormwater from Construction Sites (Notice of Intent).
      b. Wastewater Discharge Facilities.
      c. Notice of Construction (Air Pollution Sources).
      d. SEPA.

END OF SECTION 01 41 00
PART 1 GENERAL

1.01 SUMMARY

A. Conduct portions of the Work requiring special procedures due to hazardous materials and conditions in accordance with regulatory standards and guidance provided in this Section.

1.02 SUBMITTALS

A. Contractor shall deliver a current copy of its site specific Health and Safety Plan to the Owner per the Pre-Construction Submittal Requirements of Section 01 33 00. The submittal must include each Subcontractor’s site specific Health and Safety Plan. Submittal to Owner is for information only, not for review, acceptance, or approval of the Health and Safety Plan, nor for analysis of content or completeness.

1.03 QUALIFICATIONS OF HEALTH AND SAFETY PERSONNEL

A. Contractor shall employ a competent person for each hazardous construction task in accordance with the requirements of WAC 296-155.

B. Contractor shall submit to Owner the names of its employees performing duties as competent persons, as well as the names of Subcontractor employees performing duties as competent persons.

1.04 HAZARDOUS MATERIALS MANAGEMENT

A. Dangerous Waste Management:

1. Contractor agrees and acknowledges that:
   a. Contractor has direct and exclusive control over the Work and operations at the Project site and is responsible for any Contractor generated, created, or disturbed Washington State dangerous waste and its collection, labeling, accumulation, transportation, and disposal. Owner’s EH&S department will provide assistance to Contractor upon request, and will coordinate transportation and disposal of Project-generated Washington State dangerous waste.

2. Contractor must provide Owner immediate notification of any pre-existing unanticipated Washington State dangerous waste or site contamination.

2. Contractor is responsible for securing its own waste generator identification number, and Contractor shall sign all manifests associated with the Contractor-generated waste.
   a. Contractor shall obtain an EPA/State ID number in accordance with WAC 173-303-360 before conducting activities generating chemical waste designated as Washington State dangerous waste.
b. Contractor shall cancel the EPA/State ID number when:
   1) All activities generating or managing waste have ceased;
   2) All regulated wastes have been removed from the Project site under proper manifests, and all site contamination is remediated; and
   3) All annual dangerous-waste reporting requirements are complete.

c. Contractor may call the Washington State Department of Ecology (DOE) to request a reporting package for early submittal.

d. Contractor shall furnish to Owner’s EH&S Department, Pullman, WA, within 3 Days from submittal or receipt, copies of the following documents:
   1) Form 2 Notification of Dangerous Waste Activities;
   2) All signed Uniform Hazardous Waste Manifests (original copy when shipping wastes and copy returned from the treatment, storage, disposal, or recycling facility), Land Disposal Restriction Notification forms, Certificates of Recycling/Disposal/Destruction, and Exception Reports;
   3) All Annual Reports; and
   4) All correspondence from the DOE.

3. Owner remains responsible for Washington State dangerous waste and site contamination: (1) pre-existing Contractor’s activities at the site, (2) not listed in the Contract Documents, and (3) not disturbed by Contractor through improper construction activities.

4. For waste identified in contract document and for unanticipated Washington State dangerous waste or site contamination discovered during the course of the Work on the site, Contractor shall:
   a. Collect, containerize, and accumulate all Washington State dangerous waste or site contamination in accordance with applicable Federal, State, and local regulations.
   b. Coordinate all transportation and disposal activities through Owner’s EH&S department, who will utilize the Washington State Hazardous Waste Disposal Services contract or equivalent pre-approved contractor. Owner’s disposal contractor shall complete all applicable dangerous waste shipping papers including all Uniform Hazardous Waste Manifests, Land Disposal Restriction Notification forms, profiles and barrel packing lists.

B. Hazardous Materials Spills and Releases:

1. Contractor and Subcontractor(s) shall immediately report all hazardous materials spills at the Project site to Owner. If a hazardous material spill occurs at a Project site in Whitman County, and if any individual may be affected by the spill, Contractor and/or Subcontractor(s) must immediately
report the spill to Whitcom (emergency dispatch). In other counties, Contractor and Subcontractor(s) must report spills to the appropriate emergency response agency in that area.

2. Contractor shall be responsible for spill containment, cleanup, decontamination, post-cleanup monitoring, disposal of any wastes generated from cleanup activities, and generation of any reports required by regulatory agencies and/or regulations including, but not limited to, WAC 173-303 and WAC 173-340.

C. Spill Prevention Control and Countermeasures:

1. Owner’s EH&S department is responsible for Owner’s SPCC Plan. Any of Contractor’s on-site activities involving the handling and/or storage of materials meeting the definition of oil per 40 CFR 112 in containers and/or equipment with a capacity greater than 42 gallons must be included in the Owner’s SPCC Plan. Contractor shall provide Owner’s EH&S department with an inventory of this equipment or containers at least 14 Days prior to the equipment or containers being brought to the Project site.

2. Contractor shall provide and utilize secondary containment for containers and tanks of oil with a capacity greater than 42 gallons. Owner may waive this requirement in its sole discretion upon Contractor’s request after Owner reviews Contractor’s written explanation as to why secondary containment is unnecessary for a particular container or tank.

D. Asbestos: NOT USED

E. Lead: NOT USED

F. Polychlorinated Biphenyls: NOT USED

G. Mercury: NOT USED

H. Hazardous Materials or Equipment: NOT USED

I. Underground Storage Tanks (USTs): NOT USED

J. Department of Homeland Security (DHS) Chemicals of Interest (COI): NOT USED

1.05 WATER AND STORMWATER POLLUTION PREVENTION:

A. Water Pollution:

1. Discharge of any pollutants (including sewage and chlorinated water from water line disinfection) into surface or ground waters of the State (including storm drains, ditches and any other water conveyances) is prohibited.

2. Contractor removal of snow, ice, soil, and mud from roadways and sidewalks shall be accomplished without polluting storm drains or surface
waters. Mud and soil removal shall be undertaken on a full-time basis, not just once or twice a day. Soil or mud that is dropped onto streets and sidewalks by vehicles at the Project site shall immediately be cleaned by Contractor. Contractor may not use water to clean streets and sidewalks. Under no circumstances may dust mitigation cause soil erosion or pollution of surface waters.

3. If a discharge to surface or ground waters does occur, Contractor shall immediately notify Owner.

B. Stormwater Pollution Prevention Plan (SWPPP):

1. For projects that disturb a soil surface area of one acre or greater:
   a. Contractor shall prepare a written SWPPP that meets DOE regulations and the requirements of Owner’s Municipal Stormwater Permit.
   b. Owner shall apply for a DOE NPDES Construction Stormwater General Permit for stormwater discharge, and then transfer the permit to Contractor. Contractor shall comply with all provisions of the permit.
   c. Contractor shall maintain a copy of the NPDES permit and the SWPPP on-site at all times.
   d. Contractor shall maintain on-site or on call, at all times, a Certified Erosion and Sediment Control Lead (CESCL).
   e. Contractor’s SWPPP shall identify all management practices used to prevent stormwater pollution and the location(s) at which each practice will be utilized on the Project site.
   f. Contractor shall obtain approval from Owner of the SWPPP prior to groundbreaking. Contractor shall construct approved BMP’s and the site inspected and approved, per permit requirements, prior to groundbreaking.
   g. Contractor shall use best management practices (BMPs) and shall inspect BMPs at least once a week. In addition, Contractor shall inspect BMPs immediately following each rainfall event of 0.1 inches or greater.
   h. Contractor shall maintain a written log detailing the results of inspections beginning with the first day of construction. Contractor’s written log shall describe all erosion control activities resulting from inspections. In addition, the following dates and events shall be included in the written log:
      1) The beginning and completion of major grading activities.
      2) Rainfall events of 0.1 inches or greater.
      3) When construction activities temporarily or permanently cease on-site, or on a portion of the site.
4) When stabilization measures are initiated for portions of the site.

5) Stormwater sampling results.

i. Contractor shall maintain and/or repair all BMPs as necessary to ensure continued performance of their intended function.
   Contractor’s maintenance and repair activities shall include, but are not limited to:
   1) Removal of sediment from silt fences before it reaches approximately one third the height of the fence, especially if heavy rains are expected; and
   2) Cleaning or removal and replacement of drain inlet protection devices at least once every 7 Days, and once daily during storm events or before 6 inches of sediment can accumulate.

j. Contractor shall remove all temporary erosion and sedimentation control measure from the Project site within 30 Days after final site stabilization is achieved, or after the temporary BMPs are no longer necessary. Contractor shall remove any trapped sediment from the Project site. Contractor shall permanently stabilize any areas of soil disturbed by sediment removal.

k. In addition to sediment control, Contractor shall prevent other pollutant discharges from contaminating stormwater, groundwater, or soils.
   1) Any maintenance or repair of heavy equipment and vehicles involving oil changes, hydraulic system draining and removal, solvent and degreasing cleaning operations, fuel tank draining and removal, and other activities that may result in discharge or spillage of pollutants to the ground or into stormwater runoff must be conducted using spill prevention measures, such as drip pans. Contractor shall immediately clean any contaminated surfaces following any discharge or spill incident. Emergency repairs may be performed on-site using temporary plastic placed beneath and, if raining, over the vehicle.
   2) Wheel wash or tire bath wastewater shall be discharged to a separate on-site treatment system.
   3) Application of agricultural chemicals including fertilizers and pesticides shall be conducted in a manner and at application rates that will not result in loss of chemical to stormwater runoff. Manufacturers’ recommendations for application rates and procedures shall be followed.
   4) Use of lime, flyash, or other soil amendments that could alter the pH of discharge waters is prohibited.
   5) Highly turbid or contaminated dewatering water from construction equipment operation shall be handled
separately from stormwater. Management options include infiltration, transportation off-site for legal disposal, or use of a sedimentation bag with outfall to a ditch or swale for small volumes of localized dewatering.

I. Contractor shall provide to Owner all notifications/reports required by permit to DOE.

1) If stormwater sampling results show turbidity greater than or equal to 250 NTU, Contractor shall immediately report to DOE and shall notify Owner of the report.

2) Contractor shall file monthly Discharge Monitoring Reports (DMR's) with DOE as required. Contractor shall provide copies of all DMR's to Owner.

2. For projects that disturb a soil surface area of 5,000 square feet or greater, but less than one acre, provisions shall be made to meet applicable local regulations, as necessary.

a. Contractor shall make provisions for inspection and approval by the local authority prior to groundbreaking.

3. For projects that create additional impervious surfaces, provisions shall be made to meet stormwater flow control and treatment requirements, as applicable.

1.06 AIR POLLUTION

A. Contractor shall comply with all provisions of the Owner's Air Operating Permit, WAC 173-400 and WAC 173-401 requirements as applicable.

B. Contractor shall control pollutants, such as diesel emissions, chemical emissions, and dust generated by the Project, so that pollutants do not adversely impact the Project site or the surrounding-area air quality.

C. Contractor shall submit to Owner within 30 Days of the Notice to Proceed a list of any stationary air emission-generating equipment included in the Work, such as: fuel-powered electrical generators, internal combustion engines, boilers, paint booths, CFC-containing equipment, or other regulated emission sources. Contractor shall assist Owner in the preparation of necessary permit applications, and Owner shall obtain necessary permits. Contractor shall abide by any conditions or requirements of permits.

D. Per WAC 173-400, Contractor shall mitigate all fugitive emissions (such as dust, vehicle exhausts, and other emissions that do not pass through a stack, chimney, or vent) generated by the Work. Contractor shall mitigate dust at the Project site throughout the entire duration of the Work. Dust mitigation may include application of specific chemical compounds approved by Owner, or may be accomplished with intermittent watering and sprinkling at such a frequency as will satisfactorily settle dust (excluding paved surfaces). Paved surfaces shall be cleaned mechanically without the discharge of water or chemicals to storm drains.
and/or surface waters. Under no circumstances shall Contractor permit dust mitigation cause soil erosion or pollution of surface waters.

E. No materials shall be burned without required permits. If permitted burning is done, odors shall be minimized in accordance with the Owner’s Air Operating Permit.

F. CFCs (chlorofluorocarbons) or HCFCs (hydrochlorofluorocarbons) are not permitted as refrigerants in new or renovation projects. New permanently installed refrigeration equipment, such as chillers, temperature controlled chambers, air conditioning equipment, compressors, etc., must contain HFC (hydrofluorocarbon) refrigerants only (i.e., R-134A, R-404A, or R-507). At the completion of the Project, Contractor must provide detailed documentation to Owner about the refrigeration equipment installed, including identifying markings, capacity, and type of refrigerant. Refrigerant must be installed only by persons certified to do so.

1.07 PUBLIC HEALTH

A. Solid Waste Disposal:

1. Contractor shall legally dispose of or recycle all solid waste at an off-site location. Contractor shall not burn, dump, or bury waste materials, debris, or rubbish on Owner property. Contractor shall clean the Project site at the end of each work shift. Contractor is liable for any and all damage resulting from improper waste handling and disposal (see Section 07 74 19 - Construction Waste Management).

B. Environmental Noise:

1. Per WAC 173-60, and applicable local requirements, Contractor shall not exceed maximum permissible environmental noise levels for the duration of the Work.

C. General Sanitation:

1. Per WAC 246-203, Contractor shall supply adequate water for drinking and hand washing purposes. The use of common drinking cups or towels is prohibited. For hand washing purposes, Contractor shall supply hot running water, soap, disposable towels, and a waste receptacle.

D. Drinking Water Protection:

1. Per WAC 246-290 and 246-291, Contractor shall protect all public water supplies. No portion of a public water system containing potable water shall be put into service nor shall service be resumed until the facility has been effectively disinfected and a satisfactory bacteriological sample has been obtained from a DOE-certified laboratory. Results of sampling shall be sent to Owner. The procedure used for disinfection shall conform to current standards of the American Water Works Association.
2. A minimum sanitary control area around all wells shall be maintained at all times. The sanitary control area shall extend at least 100 feet from any well. No source of contamination may be constructed, stored, disposed or applied within the sanitary control area.

3. If wells are being constructed or abandoned, Owner shall procure the appropriate water rights and construction permits per WAC 173-160. Owner shall provide copies of these documents to Contractor. Wells shall be constructed/abandoned properly by a licensed well driller. Contractor shall submit a plan to Owner detailing how all disinfection shall be accomplished.

4. Backflow Prevention:
   a. Any connection made by Contractor to Owner’s drinking water system, including connection to a fire hydrant, must be made through a backflow prevention assembly approved by a Washington State certified cross connection control specialist (CCS) engaged by Owner and inspected and tested by a Washington State certified backflow assembly tester (BAT).
   b. Contractor shall label all non-potable water outlets, in a manner acceptable to the Owner, “Non-potable Water / Do Not Drink”.

E. Vector Control: NOT USED

F. On-Site Sewage Disposal:

   1. Contractor is responsible for fully complying with WAC 246-272. A construction permit application shall be submitted to the appropriate jurisdictional authority for approval. The jurisdictional authority shall issue a construction permit prior to the commencement of construction and shall perform pre-opening inspections. Contractor shall ensure that the appropriate authority inspects and approves the site prior to construction and when the project is substantially complete.

G. Water Recreation Facilities: NOT USED

H. Food Service Facilities: NOT USED

1.08 OCCUPATIONAL HAZARD MANAGEMENT

A. Chemical Hazard Communication:

   1. If any hazardous chemicals will be used in the Work or present at the Project site, copies of applicable Material Safety Data Sheets (MSDS) shall be made immediately available to Owner prior to use by Contractor and during any use of the hazardous chemicals in the Work.

   2. If the use or presence of hazardous chemicals at the Project site may affect the health of individuals outside the Project site, Contractor shall submit a written plan to Owner at least 30 Days prior to such use or presence detailing how Owner can avoid exposure to the products.
Contractor shall submit MSDS / SDS to Owner for any hazardous chemical to which persons outside the project site may be exposed. The exposure avoidance plan shall also specify actions that should be taken if inadvertent exposure occurs. Owner shall provide Contractor with a written plan detailing how Contractor employees can avoid exposure to hazardous chemicals used by Owner that may impact the Project site, and shall specify actions which should be taken if inadvertent exposure occurs. Owner shall submit MSDS / SDS to Contractor for any hazardous chemical to which persons inside the project site may be exposed.

B. Lock-Out/Tag-Out:

1. When Owner and Contractor are to be engaged in coordinated activities requiring the control of hazardous energy, Owner and Contractor shall inform each other of their respective lock-out or tag-out procedures.

C. Confined Space:

1. When Contractor employees are to enter permit-required confined spaces, Owner shall:
   a. Inform Contractor that the Project site contains permit required spaces and that permit-space entry is allowed only through compliance with a confined-space program meeting WAC 296-809.
   b. Inform Contractor of hazards that have been identified.
   c. Coordinate entry operations with Contractor when both Owner and Contractor personnel will be working in or near permit spaces.
   d. Debrief Contractor at the conclusion of the entry operations regarding any hazards confronted or created in permit spaces during entry operations.

END OF SECTION 01 41 19
PART 1 GENERAL

1.01 SUMMARY

A. Contractor shall perform all Work in a skillful and workmanlike manner. Materials and equipment furnished by Contract and any Subcontractor(s) must be of good quality and new unless the Contract Documents require or permit otherwise. Materials shall conform to the manufacturer’s standards in effect at the date of execution of the Contractor and shall be installed in accordance with the manufacturer’s instructions, specifications, and directions. Contractor shall, if requested by Owner, furnish satisfactory evidence regarding the kind and quality of any materials identifying thereon the source, and warranting their quality and compliance with the Contract Documents.

B. Section includes:

1. Contractor's Quality Control Program;
2. Field samples;
3. Mock-ups;
4. Manufacturer’s instructions;
5. Manufacturer's field services;
6. Testing laboratory services; and
7. Contractor tests and inspections.

1.02 QUALITY CONTROL PROGRAM SUBMITTALS

A. Contractor shall submit a written Quality Control Program for the Project per the Pre-Construction Submittal Requirements of Section 01 33 00. This submittal shall include but not be limited to the following:

1. An overview of Contractor’s Quality Control Program.
2. Identification and resume of Contractor’s on-site Quality Control Manager (QCM).
3. A description of the activities, record keeping, and correspondence that the QCM will perform and be accountable for throughout the duration of the Project.
4. A description of the quality control meetings to be conducted, sample inspection check lists (i.e., samples of actual inspection check list forms that will be submitted to Owner when scheduling inspections), and Subcontractors’ quality control representatives. All forms that Contractor intends to use in its Quality Control Program shall be part of the submittal.
5. A description of the QCM activities when inspections fail to verify compliance with the Contract Documents.
   a. These activities are to include, as a minimum, follow-up with
applicable Subcontractors, correction and/or completion of Work required for re-inspection, and the re-inspection.

b. Contractor shall submit its weekly Non-Compliance Logs at least 2 Days prior to each Progress Meeting.

6. A description of the QCM activities to provide the required notifications for inspections.

7. A description of record keeping and information turn-over to Owner as a component of the Operating and Maintenance data (i.e. factory representative’s start-up reports and permission to energize, verification of correct voltage and phasing to motors, etc.).

1.03 CONTRACTOR’S QUALITY CONTROL PROGRAM

A. Contractor shall establish and maintain a written Quality Control Program which shall be issued by Contractor to Subcontractors performing Work on the Project and utilized to verify that the execution of the Work is consistent with the requirements of the Contract Documents.

B. The Quality Control Program shall include, but not be limited to the following:

1. Preparatory Phase:
   a. Prior to beginning Work, after all required plans/documents/materials are approved/accepted, and after copies are at the work site. Contractor shall:
   b. Review of each paragraph of applicable specifications, reference codes, and standards. Make a copy of those sections of referenced codes and standards applicable to that portion of the work to be accomplished in the field at the preparatory inspection. Maintain these copies in the field, available for use by Owner’s Designated Representative until final acceptance of the work.
   c. Review the Drawings.
   d. Check to assure that all materials and/or equipment have been tested, submitted, and approved.
   e. Review provisions that have been made to provide required control inspection and testing.
   f. Examine the work area to assure that all required preliminary work has been completed and is in compliance with the contract.
   g. Perform a physical examination of required materials, equipment, and sample work to assure that they are on hand, conform to approved shop drawings or submitted data, and are properly stored.
   h. Review appropriate accident safety procedures.
   i. Discuss procedures for controlling quality of the work including repetitive deficiencies. Document construction tolerances and workmanship standards for that feature of work.
j. Check to ensure that the portion of the plan for the work to be performed has been accepted by the Owner’s Designated Representative.

k. Schedule, manage and record the minutes of each preparatory meeting.

l. Review all RFIs associated with the Work.

2. Initial Phase:
   a. At the beginning of the Work, Contractor shall:
   b. Check work to ensure that it is in full compliance with contract requirements. Review minutes of the preparatory meeting.
   c. Verify adequacy of controls to ensure full contract compliance. Verify required control inspection and testing. Resolve all differences and deficiencies.
   d. Establish level of workmanship and verify that it meets minimum acceptable workmanship standards. Compare with required sample panels as appropriate.
   e. Check safety to include compliance with and upgrading of the Safety Plan. Review with each worker. Particular attention should be given to high hazard work.
   f. Prepare and attach to the daily CQC report separate minutes of this phase.
   g. Repeat the initial phase any time acceptable specified quality standards are not being met.

3. Follow Up Phase:
   a. Perform daily checks to assure control activities, including control testing, are providing continued compliance with contract requirements, until completion of the Work. The checks shall be made a matter of record in the QC documentation. Conduct final follow-up checks and correct deficiencies prior to the start of additional features of work which may be affected by the deficient work. Do not build upon nor conceal non-conforming work.

C. Contractor’s Quality Control Program shall be independent of any inspections and testing performed by Owner or by any independent testing and inspection agencies hired by Owner.

D. Within the Quality Control Program, Contractor shall have available on the jobsite at all times a written report of quality control activities. At a minimum, the report shall note Project site quality control inspections, performance of scheduled tests and follow-up testing, other required inspections, deficiency log, and examinations of workmanship and quality.

E. Test results shall identify applicable Contract (including Specification) requirements, the test or analysis procedures used, and the actual test results. A statement shall be included that the item tested or analyzed conforms or fails to
conform to the Contract Documents. Each report shall be conspicuously stamped on the cover sheet “CONFORMS” or “DOES NOT CONFORM” as the case may be. All test reports shall be signed by a testing laboratory representative authorized to sign certified test reports. Copies of all test reports shall be available on the jobsite at all times.

F. If the Quality Control Program is found to be defective and Contractor does not promptly correct the deficiency, Owner may:

1. Withhold payment until satisfactory corrective action has been taken, or
2. Issue a stop work order until satisfactory corrective action has been taken.

G. Pre-Inspections: Contractor shall pre-inspect Work that requires normal, special, and additional inspections as indicated in the Contract Documents.

1.04 FIELD SAMPLES

A. Field samples are defined as the partial installation of selected materials at the Project site for Owner’s review and acceptance of visual features and workmanship. Generally, accepted field samples are incorporated into the Work.

B. Contractor shall provide field samples as required by the Contract Documents at location acceptable to Owner.

C. Perform Work in accordance with the Contract Documents.

D. Approved samples will serve as an acceptable standard of quality and workmanship.

E. Maintain samples until completion of relevant Work.

F. Upon completion of relevant Work or when directed by Owner, demolish and remove samples from Project site unless sample is accepted as part of completed Work.

1.05 MOCK-UPS – NOT USED

1.06 MANUFACTURERS’ INSTRUCTIONS

A. Contractor shall comply with manufacturers’ instructions in full detail, including each step in sequence. Do not omit preparatory steps or installation procedures unless specifically modified or exempted by Contract Documents.

B. Should instructions conflict with Contract Documents, Contractor shall request clarification before proceeding.

1.07 MANUFACTURERS’ FIELD SERVICES – NOT REQUIRED
1.08 TESTING LABORATORY SERVICES

A. Contractor will arrange for services of an independent Testing Laboratory to inspect and test the Work to verify compliance with Contract Documents.

B. Contractor’s Responsibilities:

1. Cooperate with Testing Laboratory personnel, and furnish access, tools, samples, certifications, test reports, design mixes, equipment, storage, and assistance as requested by the Testing Laboratory.

2. Notify Owner and Testing Laboratory a minimum of 7 Days in advance of all required tests and 48 hours in advance of all required inspections. When tests or inspections cannot be performed, through fault of Contractor, Contractor shall reimburse Owner for costs incurred by Owner.

3. Contractor shall remove and replace Work found to not comply with Contract Documents.

4. If initial tests and inspections indicate deficient work, Contractor shall reimburse Owner for costs of all subsequent tests and inspections related to such deficiency.

5. All damage to Work as a result of normal testing operations shall be repaired by Contractor to match surrounding surfaces.

6. Schedule testing and inspection so that work of testing and inspection personnel will be as continuous and brief as possible.

7. Contractor shall reimburse Owner for travel and lodging expenses incurred for testing and inspection services performed outside a radius of 100 miles of the Project site.

1.09 CONTRACTOR TESTS AND INSPECTIONS

A. Inspection and testing performed exclusively for Contractor’s convenience shall be the Contractor’s sole responsibility.

1. Tests shall be completed at a frequency in accordance with the WSDOT standard specifications for “Road, Bridges and Municipal Construction 2020 Edition”.

B. Earthwork Compaction Testing Requirements:

1. Contractor/Owner will engage the services of a Testing Laboratory to perform all soil and structural fill compaction testing. Compactions of any fill material shall be equal to or exceed the specified percentage of maximum dry density as defined by ASTM test procedure D1557 (modified proctor). Obtaining such specified compaction performance is the sole responsibility of Contractor.

2. During any of Contractor’s operations, Owner reserves the right to perform compaction tests for its own information only. At Owner’s
discretion, copies of such tests may be made available to Contractor. The taking of any such tests by Owner in no way relieves Contractor from testing to assure itself of compliance with the Contract Documents.

C. Approved Structural Steel Fabricators:

1. Contractor shall pay for any required structural steel fabrication special inspections.

D. Cast-in-Place Concrete Strength Testing Requirements:

1. Concrete test cylinders will be made by Contractor’s Testing Laboratory. Contractor shall be responsible for proper care of cast cylinders while on the Project site (with respect to temperature, humidity and protection).

2. Contractor is also responsible for timely transportation to the laboratory in Spokane (or closer) on a schedule that will permit adequate laboratory curing before testing.

3. Contractor shall notify the Owner at least 48 hours before any concrete pour to allow time for observation.

4. Frequency and location of tests are to be determined. As a minimum, four test cylinders will be made for each day’s pour or for every hundred cubic yards, whichever is greater.

5. The results of Contractor’s tests will be made available to the Owner.

6. The quality of all concrete is to be the sole responsibility of Contractor. If Contractor feels that additional testing is required to assure continued quality control, the frequency, testing, and payment therefore is Contractor’s responsibility.

E. All Other Work Inspection and Testing Requirements:

1. Contractor shall, at no additional cost to Owner, provide all inspections and tests required to assure full compliance with the Contract Documents. Unless specifically required, Contractor is not required to submit copies of such test results to Owner. Contractor, however, shall maintain copies of all testing and inspection reports at the Project site for inspection and copying by Owner.

2. The performance of testing or inspection by Owner or Owner’s Testing Laboratory does not relieve Contractor from responsibility for meeting all requirements of the Contract Documents.

END OF SECTION 01 45 00
PART 1 GENERAL

1.01 SUMMARY

A. Contractor shall be evaluated on performance throughout the course of the contract to provide past performance documentation for future projects.

B. Section includes:

1. Program Objectives;
2. Performance Categories and Assessment;
3. Evaluation Reports;

1.02 PROGRAM OBJECTIVES

A. The Contract Performance Evaluation Program is intended to improve contractor selection given the following primary objectives:

1. Assist the Owner in evaluating the contractor’s qualifications and proven ability to successfully perform future contracts when past performance has been previously documented;
2. Provide the University objective data relating to Contractor responsibility;
3. Provide contractors with a means of enhancing their qualifications and reputation by receiving recognition for exceptional performance;
4. Encourage better working relationships between the University and the Contractor and to provide feedback to the contractor during and after the contract period;

1.03 PERFORMANCE CATEGORIES AND ASSESSMENT

A. Contractor shall be evaluated based upon the following categories:

1. Schedule and Time Management;
2. Quality Management;
3. Communication Effectiveness;
4. Management Approach;
5. Code and Compliance; and

B. Each of the above categories will be assessed by multiple key project stakeholders and provided one of the following performance levels based upon objective and cumulative data:

1. Outstanding (5): Contractor has exceeded the majority of all of the
significant contract criteria and has met or exceeded the Schedule, Quality, Communications, Management, Code Compliance and Cost requirements of the contract. The contractor was extremely or completely knowledgeable of the contract requirements and applicable laws and regulations. A very consistent high level of cooperation, project management, and job site control appreciably contributed to an unusually good result.

2. Very Good (4): Contractor has exceeded many of the significant contract criteria and has met or exceeded some of the Schedule, Quality, Communications, Management, Code Compliance, and Cost requirements of the contract. The contractor was knowledgeable of the contract requirements and applicable laws and regulations. Was generally cooperative and performed their work with minimal prompting. Their performance results were very good.

3. Satisfactory (3): Contractor has satisfactorily met the overall contract criteria and has met the overall Schedule, Quality, Communications, Code Compliance and Cost requirement of the contract. The contractor occasionally had to be prompted or reminded of the contract requirements, but overall the project was acceptable, producing an acceptable result.

4. Marginal (2): Contractor may have met many, but not all, of the contract criteria and failed to meet one or more of the Schedule, Quality, Communications, Code Compliance or Cost performance requirements of the contract. Even though the project may have been accepted, the contractor’s performance, as evaluated, was marginal overall. The contractor frequently had to be prompted or reminded of the contract requirements; overall the project was less than satisfactory.

5. Unsatisfactory (1): Contractor failed to meet many or most of the contract criteria and failed to meet the overall Schedule, Quality, Communications, Code Compliance and Cost performance requirements of the contract. While the project may have been accepted by the owner, the effort expended in prompting the contractor to perform was excessive. The contractor’s poor or uncooperative performance created serious unnecessary and avoidable difficulties in achieving contract completion.

1.04 EVALUATION REPORTS

A. At the midpoint of project completion, Owner shall provide contractor with a draft Contract Evaluation Report based upon the current performance during the contract. This shall provide the Contractor an opportunity improve performance levels during the contract, and provide an opportunity for Contractor-Owner communication and working relationship.

B. A final Contract Performance Evaluation Report will be completed upon contract completion and shall become the official report of record.

1. A Summary Contract Performance Evaluation will be provided to the Contractor within 30 calendar days after Final Completion.
2. Final Contract Performance Evaluation Reports will remain on record for a minimum of 5 years from date issued.

C. Upon receipt of the Summary Contract Performance Evaluation, Contractor shall review the report and may request a debrief conference within 21 calendar days of receipt.

D. If after the debrief, Contractor would like to dispute the evaluation findings the Contractor shall submit in writing, the specific reasons for disagreement and include the basis for their appeal within 14 calendar days following the debrief.

1. Upon receipt of appeal, Owner shall convene a review with the Assistant Vice President, Facilities Services, Capital to consider the objectivity, accuracy, completeness and fairness of the Contract Performance Evaluation.

2. The Contractor shall be notified and issued a final determination within 30 calendar days of receipt of the appeal.

END OF SECTION 01 45 34
PART 1  GENERAL

1.01  TEMPORARY UTILITIES

A. Owner may furnish to Contractor temporary Owner-owned utilities when available and upon Owner written approval. Owner reserves the right to restrict the use of its utilities if, in its opinion, Contractor fails to adequately conserve utilities or to use utilities appropriately. When using Owner-owned utilities, Contractor is to make metered connections to the nearest available service and disconnect same when no longer needed.

B. If Owner-owned utilities are not available at the Project site, or if Owner restricts use of Owner-owned utilities, Contractor shall obtain required services from commercial sources or public utilities, and Contractor is responsible to pay for all utility costs.

C. Contractor shall field verify the availability of utility services provided by Owner and coordinate the Work accordingly.

D. In remodeling projects where portions of the building are to remain in service, Contractor shall be responsible for coordinating the Work to maintain utility services to the occupied portions of the building.

1.02  TEMPORARY ELECTRICAL SERVICE

A. Contractor shall provide all services required for construction operations and may connect to existing services when available upon Owner approval.

B. Contractor shall provide lighting for construction operations.

C. Contractor may use existing lighting when available and adequate.

D. Contractor shall maintain site lighting throughout the duration of the Work.

1.03  HEAT AND VENTILATION

A. Contractor shall provide heat and ventilation as required to maintain specified conditions for construction operations and to protect materials and finishes from damage due to temperature or humidity.

B. After a building is substantially enclosed, the permanent heating system or a temporary hook-up of equipment from the permanent system may be used for temporary heat provided that the equipment is properly installed by the responsible electrical and mechanical Subcontractors and available for supplying temporary heat. Owner shall be the sole judge of the adequacy of the building enclosure for temporary heating or cooling purposes.

C. Contractor shall arrange with the electrical and mechanical Subcontractors installing said systems and equipment for the use, operation, and maintenance of
the systems. Contractor shall pay for all connections and attendants for temporary heating, including necessary accessories such as temporary (construction) air filters to protect the air distribution systems from contamination.

D. Contractor shall provide a dust free air distribution system and correct all damage to this system caused by the Work.

E. In existing facilities, Contractor shall coordinate use of the existing systems with Owner. Contractor shall extend and supplement with temporary units as required to maintain specified conditions for construction operations.

F. Use of electric resistance type heating systems for temporary heat is prohibited.

G. The warranty period for any permanent equipment used during construction will not commence until Contractor achieves Substantial Completion.

1.04 TEMPORARY WATER SERVICE

A. Unless available from an Owner-owned utility, Contractor shall provide service required for construction operations. At all times, Contractor shall utilize backflow/cross-connection devices, certified by Owner, to safeguard water supply.

B. For Work in existing facilities, Contractor shall connect to existing services when approved by Owner and extend branch piping with outlets so that water is available for use by all persons associated with the Work.

C. Provide drinking water from a safe source for all those associated with the Work.

1.05 SANITARY FACILITIES

A. Contractor shall provide temporary restroom facilities. Facilities shall not directly or indirectly drain or discharge onto Owner property or any waters of the State. Place where directed at the time Work begins; maintain in sanitary condition. Remove upon completion of the Work and disinfect the premises.

B. Use of permanent and/or existing Owner’s facilities is not allowed.

1.06 BARRIERS

A. Contractor shall provide barriers as required to prevent public entry to construction areas and to protect existing facilities and adjacent properties from damage from construction operations.

B. When temporary fencing is indicated by the Drawings, or if fencing is provided at Contractor’s option, enclosures shall be constructed of 6 feet high commercial grade chain link with vehicular and personnel gates, as required.
1.07 ENCLOSURES

A. Contractor shall provide temporary weather-tight closures of openings to provide acceptable working conditions, protect materials, facilitate temporary heating, and prevent entry of unauthorized persons. Provide doors with self-closing hardware and locks.

B. Contractor shall provide temporary roofing when so indicated by the Drawings or when made necessary by the Project requirements.

C. Contractor shall provide temporary dust-proof partitions when required to confine dust and moisture to the immediate Work area.

D. Contractor shall provide temporary noise-proof partitions when required to confine noise to the immediate Work area.

1.08 PROTECTION OF EXISTING FACILITIES

A. Utility Tunnel Protection: Contractor shall provide adequate planking across any tunnels to distribute loads and prevent damage. If necessary, Contractor shall provide temporary shoring inside tunnel areas.

B. Low Overhead Clearance: Contractor shall be fully responsible for addressing all vehicular limitations caused by low overhead restrictions throughout campus. Route all traffic to avoid damage to overhead structures. Review proposed routing with Owner prior to commencement of construction.

C. Tree and Plant Protection: Contractor shall protect trees and other plants not scheduled for removal; maintain protection until Project completion.

1. In the event that a tree or plant is damaged as a result of the Work that, in the opinion of Owner, requires replacement, Contractor shall be responsible for such replacement.

2. If at any time Contractor judges that the protection of plant materials designated to be saved is incompatible with Work required, or if operations necessarily threaten the health of any plant material, Contractor shall immediately notify Owner and cease Work affecting the area until a written agreement is reached concerning acceptable procedure.

1.09 SECURITY

A. Contractor shall provide security to protect the Work, existing facilities, and Owner’s operations from unauthorized entry, vandalism, and theft. Coordinate with Owner’s security program.

B. During construction, all openings to Owner’s utility tunnel system must be protected against unauthorized entry. Contractor shall provide closures, approved by Owner, including locked doors or hatches at any openings created.
1.10 PROTECTION OF INSTALLED WORK

A. Contractor shall provide temporary protection for installed products. Control traffic in immediate area to minimize damage.

B. Contractor shall provide protective coverings for walls, projections elevator cabs, jambs, sills, and soffits of openings. Protect finished floors and stairs from traffic, movement of heavy objects, and storage.

C. Contractor shall prohibit traffic and storage on waterproofed and roofed surfaces and on lawns and landscaped areas.

1.11 CLEANING DURING CONSTRUCTION

A. Contractor shall clean the site each day during construction and shall prevent the accumulation of waste materials and rubbish.

B. Contractor shall clean interior areas prior to the start of finish Work and maintain areas free of dust and other contaminants during finishing operations.

1.12 OFF-SITE CLEAN UP

A. Contractor shall continuously keep sidewalks, lawns, parking areas, and streets clear of construction materials, debris, gravel, rock, and dirt related to the Project.

1.13 LIFTING DEVICES AND HOISTING FACILITIES

A. Contractor shall provide cranes, hoists, towers, and other lifting devices necessary for the proper and efficient movement of materials.

1.14 MECHANICAL AND ELECTRICAL SYSTEM SHUT-DOWNS

A. Any shut-down of mechanical or electrical systems affecting Owner's operations shall be scheduled by Contractor during off-hours. Contractor shall submit a written shut-down request providing at least 14 Days advance notice. Any shut-down must be coordinated with and approved by Owner.

1.15 CONSTRUCTION PARKING

A. Contractor's employees may park only in accordance with campus traffic and parking regulations and pay all required fees.

B. When working in campus, Contractor’s vehicular use will be limited to the following:

1. Delivery of materials to and from Project site;
2. Single vehicle for use by Project supervisor of each major Contractor
(four total vehicles maximum); and

1.16 NOISE CONTROL

A. Any construction related noise that interferes or is likely to interfere with normal use of adjacent space(s) shall be scheduled and approved by Owner.

B. Contractor shall restrict any construction related noise to the hours approved by Owner and in accordance with the state and local noise ordinance.

C. Owner may approve Contractor working extended hours. Request any extended hours of operation with Owner.

1.17 TRAFFIC OBSTRUCTIONS

A. Contractor shall submit a written traffic control plan for all traffic obstructions, either pedestrian or vehicular, for approval by Owner, per the Pre-Construction Submittal Requirements of Section 01 33 00.

B. In some cases, it may be necessary to develop special routes for large or unwieldy deliveries that could interfere with pedestrian movement, especially at peak times.

C. Contractor shall avoid deliveries or equipment operations that block street traffic during peak times.

D. Pedestrian Obstructions: Any equipment on sidewalks or other pedestrian ways shall be barricaded. Barricades shall include a horizontal member at a maximum of two feet above the walking surface.

1.18 REMOVAL OF TEMPORARY FACILITIES

A. Contractor shall remove temporary materials, equipment, services, and construction facilities prior to Substantial Completion inspection.

B. Contractor shall clean and repair damage caused by installation or use of temporary facilities.

C. Contractor shall restore existing facilities used during construction to specified or original condition.

END OF SECTION 01 50 00
PART 1 GENERAL

1.01 PRODUCTS

A. Products include material, equipment, and systems.

B. Comply with Specifications and referenced standards as minimum requirements.

C. Components required to be supplied in quantity within a specification section shall be the same, and shall be interchangeable.

D. All materials shall be new unless specifically noted otherwise.

1.02 TRANSPORTATION AND HANDLING

A. Transport products by methods to avoid product damage; deliver in undamaged condition in manufacturer's unopened containers or packaging, dry.

B. Provide equipment and personnel to handle products by methods to prevent soiling or damage.

C. Promptly inspect shipments to assure that products comply with requirements, quantities are correct, and products are undamaged.

1.03 STORAGE AND PROTECTION

A. Store products in accordance with manufacturer's instructions, with seals and labels intact and legible. Store sensitive products in weather-tight enclosures; maintain within temperature and humidity ranges required by manufacturer's instructions.

B. For exterior storage of fabricated products, place on sloped supports above ground. Cover products subject to deterioration with impervious sheet covering; provide ventilation to avoid condensation.

C. Store loose granular materials on solid surfaces in a well-drained area; prevent mixing with foreign matter.

D. Arrange storage to provide access for inspection. Periodically inspect to assure products are undamaged, and are maintained under required conditions.

1.04 VARIATION FROM SPECIFIED PRODUCTS

A. Subsequent to Bid Opening/Proposal - Approved Equivalents:

1. Requests for approved equivalents will only be considered when approved equivalent statements, used in reference to product
specifications, are specifically provided for within individual Specification sections.

2. The terms "or an approved equivalent", "approved equivalent", or similar statements, when used herein in connection with manufacturers' products, shall be understood to mean products that are equally effective and suitable for their intended use; based on the judgment of the Owner, whose decision shall be final.

3. Written requests for consideration by the Owner of approved equivalents may be submitted throughout the Project.

4. Time extensions and additional costs resulting from use of approved equivalent products will not be considered.

B. No Substitutions:

1. The terms "No Substitutions", "Alternative Products not Acceptable", or similar statements used in reference to product specifications, shall mean that only the specified product will meet the needs of the University and that no other products will be considered at any time before or during the Project.

C. Requirements and Procedures for Product Variations:

1. The Contract is based on the standards of quality established in the Contract Documents.

2. Substitution or approved equivalent revisions shall be made only with the prior written acceptance of the Owner.

3. All requests for substitutions or approved equivalents must be on the proposer's letterhead and shall be accompanied by complete specifications, samples, records of performance, certified copies of tests by impartial and recognized laboratories, and such other information as the Owner may request to prove the merit of the proposed revisions.

4. The Contractor assumes the responsibility for capacity, dimensions, clearance, etc., of the named manufacturer's particular item to assure that the revision meets the requirements.

5. The Contractor shall assume the cost of any redesign, in the form of changes to the Drawings, or for the Work of any other trades, or any other costs required to properly incorporate any revision associated with substitutions or use of approved equivalent products.

6. Final decisions as to the quality and suitability of proposed revisions will rest solely with the Owner and will be based on proof submitted.

7. When the Owner approves a substitution or approved equivalent proposed by the Contractor, it is with the understanding that the Contractor certifies that the article or material is equivalent to or better than that specified.

END OF SECTION 01 60 00
PART 1    GENERAL

1.01 PURPOSE

A. Provide for an orderly, timely, and efficient completion of the Work for Owner.

1.02 SUBSTANTIAL COMPLETION

A. Requirements for Substantial Completion: Contractor shall comply with all requirements for Substantial Completion identified in the General Conditions and other Contract Documents. Prior to Substantial Completion, Contractor must have constructed the Work in substantial accordance with the Contract Documents, and:

1. Certificate of Occupancy received from the AHJ.
2. All elements of the Work must be operational and in good working order and condition, except for incidental punchlist Work;
3. The fire and life safety systems, if any, must be tested and accepted;
4. Any elevators must be operational, functioning, and in good working order and condition, and be fully approved for use;
5. All mechanical, electrical, plumbing, telecommunications, security, and access control systems must operate and function in good working order and condition, including commissioning;
6. The finish portion of the Work must be complete including but not limited to paint, trim, doors, partitions, cabinetry, floor coverings, ceilings, wall finish, and other finish surfaces, except for incidental punchlist Work;
7. All roadway improvements, paving, sidewalks, parking areas, other street improvements, lighting, landscaping and irrigation must be complete;
8. Utilities must be complete, connected, and operating normally;
9. Contractor must have removed all construction facilities, temporary controls, and construction debris;
10. Contractor must have completed training Owner’s personnel on all operating instructions and submitted training DVDs; and
11. Final cleaning.

B. Prior to Substantial Completion Contractor shall request in writing that Owner grant Substantial Completion. Accompanying the request Contractor submit the following:

1. A list of all items remaining to be completed or corrected;
2. Signed originals from authorities having jurisdiction of all certificates of compliance and final approval, as applicable;
3. All system software files required by the Contract Documents, including
but not limited to lighting and environmental controls;
4. Revised Draft Operation & Maintenance manuals; and
5. Draft Project Record.

C. Upon satisfactory completion of the requirements for Substantial Completion, Owner shall prepare and forward to Contractor a letter of Substantial Completion. The letter will identify the date of Substantial Completion and include a punch list identifying all remaining incomplete Work. Contract warranties shall begin as of the date of Substantial Completion.

1.03 FINAL COMPLETION

A. Requirements for Final Completion: Upon receipt of Contractor’s written Notice that Contractor has inspected and completed punch list items and that the Work is ready for final inspection and acceptance, Owner will promptly make such inspection accompanied by Contractor. If Owner determines that some or all of the punch list items are not complete, Contractor shall be responsible to Owner for all costs, including re-inspection fees, for any subsequent inspection to determine completion of the punch list. When Owner finds all punch list items complete and the Work and Contract fully performed, Owner shall establish the date of Final Completion. Owner is not required to establish Final Completion until the following are complete:

1. Complete all requirements listed in the Contract Documents for Substantial Completion of the Work;
2. Complete all remaining punch list items and remaining Work, and obtain approval by Owner that all Work is complete;
3. Obtain permanent occupancy permits (if only a temporary occupancy permit was issued at Substantial Completion);
4. Submit Project Record, any final property survey, and final Operation and Maintenance manuals (if not previously submitted) required by the Contract Documents;
5. Deliver any required tools, spare parts, extra stock of material and similar physical items to Owner as required by the Contract Documents;
6. Complete cleaning after completion of punch list;
7. Submit executed warranties;
8. Complete any required sustainability documentation for which Contractor is responsible;
9. Submit a final comprehensive list of all Subcontractors of all tiers and suppliers for the Project; and
10. Submit certification that materials used in the Work are "asbestos-free" and that all requirements of governing jurisdictions related to the Project have been addressed.
11. Final Project Record.

B. Upon satisfactory completion of the requirements for Final Completion, Contractor shall submit a final Application for Payment.

1.04 FINAL ACCEPTANCE

A. Requirements for Final Acceptance: Final Acceptance shall be established by Owner in writing. Owner shall not be obligated to accept the Project as complete before Final Completion has occurred and Contractor has submitted the following:

1. An affidavit that all payrolls, bills for materials and equipment, and other indebtedness connected with the Work for which Owner or Owner’s property might be responsible or encumbered (less amounts withheld by Owner) have been paid or otherwise satisfied, except for any claims that are specifically identified on the affidavit (Affidavit of Payment of Debts and Claims, AIA form G706 or equivalent).

2. A certificate or written statement evidencing that insurance required by the Contract Documents to remain in force after final payment is currently in effect and will not be canceled or allowed to expire until at least 30 Days’ prior written Notice has been given to Owner.

3. Receipt of consent of surety, if any, to final payment (AIA form G707 or equivalent).

4. If required by Owner, other data establishing payment or satisfaction of obligations, such as receipts, releases and waivers of liens, claims, security interests or encumbrances arising out of the Contract, to the extent and in such form as may be designated by. If a Subcontractor refuses to furnish a release or waiver required by Owner, Contractor may furnish a bond satisfactory to Owner to indemnify Owner against such lien. If such lien remains unsatisfied after payments are made, Contractor shall refund to Owner all money that Owner may be compelled to pay in discharging such lien, including all costs and reasonable attorneys’ fees.

5. Provide copy to Owner of all “Affidavits of Wages Paid”. Pursuant to RCW 39.12.040, an "Affidavit of Wages Paid" from Contractor and from each Subcontractor certified by the Industrial Statistician of the Washington State Department of Labor and Industries, with the fees paid by Contractor or Subcontractor.

B. Contingent upon completion of all Affidavits of Wages Paid, the “Notice of Completion of Public Works Contract” form may be completed by Owner.

1.05 RETAINAGE

A. Retainage must be held at least 45 Days following Final Acceptance. If there are either unpaid taxes or fees, or unsatisfied claims of lien against the retained percentage, disbursement of retainage funds will be made in accordance with Washington law.
B. The retainage will be held and applied by Owner as a trust fund in the manner required by RCW 60.28. Release of the retainage will be processed in the ordinary course of business following Final Acceptance of the Work by Owner, provided no notice of lien has been given as provided in RCW 60.28, no claims have been brought to the attention of Owner, Owner has no claims under the Contract, and the requirements below have been met.

C. Owner shall not release retainage until the following requirements have been satisfied.

1. “Certificate of Payment of State Excise Taxes by Public Works Contractor”: Following receipt of Owner’s notice of completion and after determining that all taxes, increase and penalties due from Contractor have been paid, the Department of Revenue will issue this certificate to Owner.

2. “Certificate of Payment of Contributions, Penalties and Interest on Public work Contract”: Upon receiving a copy of Owner’s notice of completion and after determining that Contractor is in compliance with the provisions of the Employment Security Act, the Employment Security Department will issue this certificate to Owner.

3. “Certificate of Release”: Upon receipt of Contractor’s request for release and verification from its records that required premiums have been paid by Contractor and each Subcontractor, the Department of Labor and Industries will issue a statement to that effect.

END OF SECTION 01 70 00
PART 1  GENERAL

1.01  SUMMARY

A. This Section specifies administrative and procedural requirements for field engineering services, including but not limited to the following:

1. Land survey Work; and
2. Establishment of coordinated reference points for general building layout and location.

1.02  SUBMITTALS

A. Project Record: Contractor shall submit a record of Work performed and record survey data as required by the Contract Documents.

1.03  QUALITY ASSURANCE

A. Surveyor: Contractor shall engage a registered Professional Land Surveyor registered in the State of Washington to perform the required land-surveying services.

B. Owner may furnish surveys describing physical characteristics, legal limitations, utility locations, and a legal description for the Project site. Contractor may rely on the information furnished by Owner but must exercise proper precautions to ensure the safe performance of the Work. Contractor shall assume that the locations of any underground or hidden utilities, underground tanks, plumbing, or electrical runs indicated in the surveys or Contract Documents are shown in approximate locations, but Contractor is responsible for verifying the location of all utilities impacted by the Work. Additionally, Owner may make available to Contractor the results of investigations of hidden or subsurface conditions for the convenience of Contractor. While Contractor may rely upon such investigation results, there is no guarantee, express or implied, that the conditions indicated are representative of those existing throughout the Project site, or that unforeseen developments may not occur. Contractor is solely responsible for interpreting the information and extrapolating beyond the location, including each individual boring, test pit, or other locations.

1.04  EXAMINATION

A. Identification: Contractor shall verify the location of benchmarks and control points provided by Owner.

B. Contractor shall verify layout information on Drawings in relation to the property survey and existing benchmarks before proceeding to layout the Work. Contractor shall also locate and protect existing benchmarks and control points and preserve permanent reference points during construction.
1. Do not change or relocate benchmarks or control points without prior written approval of Owner. Promptly report lost or destroyed reference points and requests to relocate reference points because of changes in grades or locations.

2. Promptly replace lost or destroyed Project control points. Base replacements on the original survey control points.

C. Contractor shall establish and maintain a minimum of two permanent benchmarks at the Project site.

1. Record benchmark locations, with horizontal and vertical data, on Project Record.

D. Existing utilities and equipment: The existence and location of underground and other utilities are not guaranteed. Before beginning the Work, Contractor shall investigate and verify the existence and location of underground and other utilities (including irrigation and snow melt systems).

1. Prior to construction, verify the locations and invert elevation at points of connection sanitary sewer, storm sewer, and water service piping.

1.05 PERFORMANCE

A. Contractor shall work from lines and levels established by the property survey; establish benchmarks and markers to set lines and levels at each story of construction and elsewhere as needed to locate each element of the Project; and calculate and measure required dimensions within indicated or recognized tolerances. Do not scale Drawings to determine dimensions.

1. Advise entities engaged in Work activities of marked lines and levels provided for their use.

2. As construction proceeds, check every major element for line, level, and plumb.

B. Surveyor’s Log: Contractor shall maintain a surveyor’s log of control points and other survey Work. Make this log available to Owner for reference.

1. Record deviations from required lines and levels and advise Owner when deviations that exceed indicated or recognized tolerances are detected. On Project Record, record deviations that are accepted and not corrected.

2. Following completion of foundation walls, major site improvements, and other Work requiring field-engineering services, prepare a certified survey showing dimensions, locations, angles, and elevations of construction and site Work.

C. Site Improvements: Contractor shall locate and lay out site improvements, including pavement, stakes for grading, fill and topsoil placement, utility slopes,
and invert elevations.

D. Existing Utilities: Contractor shall furnish information necessary to adjust, move, or relocate existing structures, utility poles, lines, services, or other appurtenances affected by construction. Contractor shall coordinate with local authorities having jurisdiction.

E. Contractor shall record accurately on the Project Record the principal metes, bounds, lines, and levels of the Project.

END OF SECTION 01 71 23
PART 1 GENERAL

1.01 SUMMARY

A. This Section describes the waste management and recycle management criteria for debris and solid waste generated as part of the Work.

B. Contractor shall be responsible for removal and disposal of all waste material from the project site.

C. All waste that is disposed of by Contractor shall be in accordance with all applicable local, state, and federal regulations, including WAC 173-350, Solid Waste Handling Standards, and WAC 173-303, Dangerous Waste Regulations.

1.02 DEFINITIONS


B. Dangerous Waste: Solid waste designated in WAC 173-303 and/or 40 CFR. As used in this Section, the words “dangerous waste” will refer to the full universe of wastes regulated by WAC 173-303 and 40 CFR.

C. Demolition Waste: Largely inert waste, resulting from the selective demolition of buildings, roads and other man-made structures such as cured concrete, asphaltic compounds, brick and masonry, ceramic, glass, steel, and aluminum, and non-inert materials such as clean wood, composition roofing and roofing paper, and minor amounts of metal. Plaster (i.e., sheetrock or plaster board) or any other material, other than clean wood, that is likely to produce gases or leachate during its decomposition process and asbestos waste are not considered to be demolition waste.

D. Land Clearing Waste: Natural vegetation and clean soils from clearing and grubbing land for development such as stumps, brush, weeds, tree branches, tree bark, mud, dirt, sod and rocks.

E. Recycle/Recycling: The process of separating waste materials for remanufacturing or reprocessing into usable or marketable materials. Examples of recycling include separating wood off-cuts for recycling by a wood processor into paper pulp, or separating cardboard, plastic, beverage containers, or miscellaneous metals for recycling.

F. Reuse: To use a construction waste material again in roughly its same form. Materials can be reused on-site or on other projects off-site. Examples of reuse include removing a hardwood floor and reinstalling it in a new project, or using soil from one site as fill on another site.

G. Salvage: To remove a construction waste material or equipment from an existing building for reuse on-site or reuse on other projects off-site. Items to be salvaged shall be designated by Owner for removal and delivery to Owner.
H. Unacceptable Waste: All waste not authorized for disposal by Owner. This includes any waste that is now or hereafter defined by federal law or by the governing jurisdiction as radioactive, dangerous, hazardous or extremely hazardous waste, unsanitary waste, and vehicle tires in excess or those permitted to be disposed of by the laws of the governing jurisdiction. It does not include any waste destined for salvage, recycling, or general demolition.

I. Waste: All solid waste generated within the limits of the Project, or extra material or material that has reached the end of its useful life in its intended use. Waste includes salvageable and recyclable materials, masonry, and concrete.

J. Waste Management Plan: A Project-specific plan for the salvage, collection, transportation, recycling, and disposal of the waste generated at the Project site. A waste management plan includes procedures for separating, storing, and transporting waste and includes methods to assure proper implementation of the plan.

1.03 WASTE MANAGEMENT PLAN

A. Draft Waste Management Plan: Per the Pre-Construction Submittal Requirements of Section 01 33 00, Contractor shall submit to Owner a Draft Waste Management Plan. The Draft Plan shall contain the following:

1. List of materials to be salvaged, materials to be recycled, and materials to be disposed of as solid waste, and dangerous waste.
2. General material handling methods, including segregation and sorting, and placing solid waste into designated containers, on-site storage, and any special procedures for removing and protecting materials.
3. Plan for communicating salvage and recycling requirements on the Project.
4. Dangerous waste identification, accumulation, and disposal management procedures.

B. Dangerous Waste Management:

1. Contractor is responsible for all dangerous waste generated during the Project shall be identified, accumulated and disposed in accordance with WAC 173-303. Contractor generated dangerous waste must be shipped for disposal within 90 Days of generation.
2. Contractor may accumulate dangerous waste in accordance with WAC 173-303 and Washington Department of Ecology Technical Information Memorandum 94-120, Satellite Accumulation. If Contractor accumulates dangerous waste in volume greater than 55 gallons or acutely hazardous waste in a volume greater than one quart, Contractor shall establish and operate a “90-Day” accumulation area in accordance with WAC 173-303.
3. Contractor shall dispose dangerous waste only through vendor(s) approved by Owner. Contractor shall arrange all dangerous waste
shipments. Utilization of the vendor and facilities included in the State of Washington Hazardous Waste Disposal contract is authorized. Any other proposed vendor(s) and/or facilities are subject to audit by Owner, prior to utilization. Contractor shall pay for said audits. Contractor shall coordinate with Owner’s Environmental Health & Safety (EH&S) Department for transportation and disposal of all Project generated dangerous waste. EH&S will sign all Uniform Hazardous Waste Manifests.

C. Final Waste Management Plan: Once Owner has reviewed the draft Waste Management Plan and responded with comments or corrections, Contractor shall submit a final plan within 14 Days.

PART 2 PRODUCTS – NOT USED

PART 3 EXECUTION

3.01 WASTE CONTAINMENT

A. Contractor will provide and service containers for all wastes.

B. Contractor shall provide separate waste containers for and properly dispose of all unacceptable waste, including dangerous waste, in accordance with applicable law.

3.02 CONTAMINATION OF WASTE

A. Contractor shall take extraordinary care to ensure construction wastes are properly sorted, segregated, and placed within the correct containers.

B. Should any waste containers designated for salvage, recycle, or general disposal be cross-contaminated with dangerous or unacceptable waste, Contractor shall pay all costs of legally disposing the contaminated waste.

C. Project progress meetings shall include review of construction waste management as an agenda item.

END OF SECTION 01 74 19
PART 1 GENERAL

1.01 PURPOSE AND PROCEDURE

A. Contractor shall submit draft Project Record drawings on or before Substantial Completion. Requests for Substantial Completion will not be considered if submission of Project Record drawings has not occurred.

B. Contractor shall submit final Project Record drawings before Final Completion may be achieved.

PART 2 PRODUCTS

2.01 MATERIALS

A. Project Record drawings are to be red-line markings on original Drawings which clearly indicate the as-built dimensions (both horizontally and vertically) for all installed Work.

B. Identify on Project Record drawings all underground utilities encountered during the Work. Locate these utilities both horizontally and vertically and tie the dimension string(s) back to permanent and visible structures.

C. Clearly label each sheet with the words “PROJECT RECORD DRAWINGS.”

D. Do not affix requests for information (RFIs), change proposals (CCPs) or architectural supplemental instructions (ASIs) to the Project Record drawings. If all or part of a Drawing has been modified, it is acceptable to affix the revised layout over top of the original. However, all dimensions that have been modified are to be red-lined or yellow highlighted.

E. Copies must be legible.

PART 3 EXECUTION

3.01 PRODUCTION

A. During construction, Project Record information will be reviewed not less than monthly concurrent with the monthly review of the draft Application for Payment.

END OF SECTION 01 78 39
SECTION 03 30 00
CAST-IN-PLACE CONCRETE

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes cast-in-place concrete, including formwork, reinforcement, concrete materials, mixture design, placement procedures, and finishes.

B. Related Sections:
   1. Section 312000 "Earth Moving" for drainage fill under slabs-on-grade.

1.2 SUBMITTALS

A. Design Mixtures: For each concrete mixture.

B. Material certificates.

1.3 QUALITY ASSURANCE

A. Manufacturer Qualifications: A firm experienced in manufacturing ready-mixed concrete products and that complies with ASTM C 94/C 94M requirements for production facilities and equipment.
   1. Manufacturer certified according to NRMCA's "Certification of Ready Mixed Concrete Production Facilities."

B. Testing Agency Qualifications: An independent agency, qualified according to ASTM C 1077 and ASTM E 329 for testing indicated.

C. ACI Publications: Comply with the following unless modified by requirements in the Contract Documents:
   1. ACI 301, "Specifications for Structural Concrete,"

PART 2 - PRODUCTS

2.1 FORM-FACING MATERIALS

A. Rough-Formed Finished Concrete: Plywood, lumber, metal, or another approved material. Provide lumber dressed on at least two edges and one side for tight fit.
2.2 STEEL REINFORCEMENT

A. Reinforcing Bars: ASTM A 615/A 615M, Grade 60, deformed.

B. Bar Supports: Bolsters, chairs, spacers, and other devices for spacing, supporting, and fastening reinforcing bars and welded wire reinforcement in place. Manufacture bar supports from steel wire, plastic, or precast concrete according to CRSI's "Manual of Standard Practice.

2.3 CONCRETE MATERIALS

A. Cementitious Material: Use the following cementitious materials, of the same type, brand, and source, throughout Project:

1. Portland Cement: ASTM C 150, Type I or Type II

B. Normal-Weight Aggregates: ASTM C 33, graded.

1. Maximum Coarse-Aggregate Size: 1 inch nominal.
2. Fine Aggregate: Free of materials with deleterious reactivity to alkali in cement.

C. Water: ASTM C 94/C 94M

2.4 ADMIXTURES


B. Chemical Admixtures: Provide admixtures certified by manufacturer to be compatible with other admixtures and that will not contribute water-soluble chloride ions exceeding those permitted in hardened concrete. Do not use calcium chloride or admixtures containing calcium chloride.

1. Water-Reducing Admixture: ASTM C 494/C 494M, Type A.
2. Retarding Admixture: ASTM C 494/C 494M, Type B.
3. Water-Reducing and Retarding Admixture: ASTM C 494/C 494M, Type D.
4. High-Range, Water-Reducing Admixture: ASTM C 494/C 494M, Type F.
5. High-Range, Water-Reducing and Retarding Admixture: ASTM C 494/C 494M, Type G.
6. Plasticizing and Retarding Admixture: ASTM C 1017/C 1017M, Type II.

2.5 CURING MATERIALS

A. Evaporation Retarder: Waterborne, monomolecular film forming, manufactured for application to fresh concrete.

B. Absorptive Cover: AASHTO M 182, Class 2, burlap cloth made from jute or kenaf, weighing approximately 9 oz./sq. yd. when dry.

C. Moisture-Retaining Cover: ASTM C 171, polyethylene film or white burlap-polyethylene sheet.

D. Water: Potable.

E. Clear, Waterborne, Membrane-Forming Curing Compound: ASTM C 309, Type 1, Class B, dissipating.
2.6 RELATED MATERIALS
A. Expansion- and Isolation-Joint-Filler Strips: ASTM D 1751, asphalt-saturated cellulosic fiber

2.7 CONCRETE MIXTURES
A. Prepare design mixtures for each type and strength of concrete, proportioned on the basis of laboratory trial mixture or field test data, or both, according to ACI 301.
B. Admixtures: Use admixtures according to manufacturer's written instructions.
   1. Use water-reducing admixture in concrete, as required, for placement and workability.
C. Proportion normal-weight concrete mixture as follows:
   1. Minimum Compressive Strength: 3000 psi at 28 days.
   2. Maximum Water-Cementitious Materials Ratio: 0.45.
   3. Slump Limit: 4 inches before adding water-reducing admixture, plus or minus 1 inch.
   4. Air Content: 6 percent, plus or minus 1.5 percent at point of delivery for 1-inch nominal maximum aggregate size.
   5. Air Content: Do not allow air content of trowel-finished floors to exceed 3 percent.

2.8 FABRICATING REINFORCEMENT
A. Fabricate steel reinforcement according to CRSI's "Manual of Standard Practice."

2.9 CONCRETE MIXING
A. Ready-Mixed Concrete: Measure, batch, mix, and deliver concrete according to ASTM C 94/C 94M, and furnish batch ticket information.
   1. When air temperature is between 85 and 90 deg F, reduce mixing and delivery time from 1-1/2 hours to 75 minutes; when air temperature is above 90 deg F, reduce mixing and delivery time to 60 minutes.
PART 3 - EXECUTION

3.1 FORMWORK

A. Design, erect, shore, brace, and maintain formwork, according to ACI 301, to support vertical, lateral, static, and dynamic loads, and construction loads that might be applied, until structure can support such loads.

B. Construct formwork so concrete members and structures are of size, shape, alignment, elevation, and position indicated, within tolerance limits of ACI 117.

3.2 EMBEDDED ITEMS

A. Place and secure anchorage devices and other embedded items required for adjoining work that is attached to or supported by cast-in-place concrete. Use setting drawings, templates, diagrams, instructions, and directions furnished with items to be embedded.

3.3 STEEL REINFORCEMENT

A. General: Comply with CRSI's "Manual of Standard Practice" for placing reinforcement.

3.4 JOINTS

A. General: Construct joints true to line with faces perpendicular to surface plane of concrete.

B. Construction Joints: Install so strength and appearance of concrete are not impaired, at locations indicated or as approved by Architect.

C. Contraction Joints in Slabs-on-Grade: Form weakened-plane contraction joints, sectioning concrete into areas as indicated. Construct contraction joints for a depth equal to at least one-fourth of concrete thickness as follows:

1. Grooved Joints: Form contraction joints after initial floating by grooving and finishing each edge of joint to a radius of 1/8 inch. Repeat grooving of contraction joints after applying surface finishes. Eliminate groover tool marks on concrete surfaces.

D. Isolation Joints in Slabs-on-Grade: After removing formwork, install joint-filler strips at slab junctions with vertical surfaces, such as column pedestals, foundation walls, grade beams, and other locations, as indicated.

E. Waterstops: Install in construction joints and at other joints indicated according to manufacturer's written instructions.

3.5 CONCRETE PLACEMENT

A. Before placing concrete, verify that installation of formwork, reinforcement, and embedded items is complete and that required inspections have been performed.
B. Deposit concrete continuously in one layer or in horizontal layers of such thickness that no new concrete will be placed on concrete that has hardened enough to cause seams or planes of weakness. If a section cannot be placed continuously, provide construction joints as indicated. Deposit concrete to avoid segregation.

1. Consolidate placed concrete with mechanical vibrating equipment according to ACI 301.

C. Cold-Weather Placement: Comply with ACI 306.1.

D. Hot-Weather Placement: Comply with ACI 301.

3.6 FINISHING FORMED SURFACES

A. Rough-Formed Finish: As-cast concrete texture imparted by form-facing material with tie holes and defects repaired and patched. Remove fins and other projections that exceed specified limits on formed-surface irregularities.

B. Related Unformed Surfaces: At tops of walls, horizontal offsets, and similar unformed surfaces adjacent to formed surfaces, strike off smooth and finish with a texture matching adjacent formed surfaces. Continue final surface treatment of formed surfaces uniformly across adjacent unformed surfaces unless otherwise indicated.

3.7 CONCRETE PROTECTING AND CURING

A. General: Protect freshly placed concrete from premature drying and excessive cold or hot temperatures. Comply with ACI 306.1 for cold-weather protection and ACI 301 for hot-weather protection during curing.

3.8 CONCRETE SURFACE REPAIRS

A. Defective Concrete: Repair and patch defective areas when approved by Architect. Remove and replace concrete that cannot be repaired and patched to Architect's approval.

3.9 FIELD QUALITY CONTROL

A. Testing and Inspecting: Owner will engage a qualified testing and inspecting agency to perform field tests and inspections and prepare test reports.

END OF SECTION 03 30 00
SECTION 26 01 00
ELECTRICAL REQUIREMENTS

PART 1 - GENERAL

1.1 RELATED REQUIREMENTS
A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 specifications, apply to all work specified in Division 26.
B. This Section applies to work specified in all Sections of Division 26 of the Specifications.

1.2 SUMMARY
A. Provide the following for and incidental to, the work indicated on the Drawings and specified herein:
   1. Supervision
   2. Materials
   3. Tools and equipment
   4. Labor
   5. Transportation
   6. Waste disposal
   7. Cleaning

1.3 WORKMANSHIP
A. The work shall:
   1. Complete in all details.
   2. Be performed by properly qualified technicians.
   3. Comply with the National Electrical Installation Standards (NEIS), published by the National Electrical Contractors Association (NECA).
   4. Be performed in accordance with manufacturer’s instructions and recommendations.
   5. Comply with the Owner’s arc flash protection procedures and lock-out, tag-out procedures.

1.4 DEFINITIONS
A. As used on the electrical Drawings and in Division 26 of the Specifications, the following definitions shall apply.
B. Definitions regarding scope of work:
   1. “Furnish” shall mean “to supply and deliver equipment to the Project site.”
   2. “Install” shall mean “to place in the designated location, anchor in place, make physical and electrical connections, perform specified testing and demonstration, and leave in operating condition.”
   3. “Provide” shall mean “furnish” and “install,” as defined above.
4. “Verify” shall mean “accurately assess the conditions affecting the work and adjust the work to accommodate the conditions.”

5. “System” shall mean all components necessary, whether specifically indicated or not, to result in a fully operational arrangement providing the functions indicated.

C. Definitions regarding document presentation:

1. “Indicated” shall mean “called out by means of graphical representation, notes, schedules or text on the Drawings or in the Specifications.”
2. “Noted” shall mean “indicated,” as defined above.
3. “Shown” shall mean “indicated,” as defined above.
4. “Specified” shall mean “indicated,” as defined above.

D. Definitions regarding visibility of work:

1. “Concealed” shall mean “hidden from sight as in trenches below grade, in chases, in walls, in furred spaces or above ceilings.”
2. “Exposed” shall mean “not concealed,” as defined above.

E. Definitions regarding location:

1. “Interior” shall mean “bounded on all sides by a building envelope, including roofs, floors, walls, doors, windows and/or louvers in such a manner as to form a protected space, impervious to rain.”
2. “Exterior” shall mean “not interior,” as defined above.

F. Definitions regarding responsible entities:

1. “Contractor” shall mean “the entity that has entered into the Contract with the Owner to perform the Work on the Project in accordance with the Contract Documents.”
2. “Electrical Installer” shall mean “the firm, licensed by the applicable jurisdiction to perform electrical installation that is immediately responsible for installation and supervision of electrical work on the Project in accordance with the Contract Documents.”
3. “Owner’s Representative” shall mean “the person or entity designated by the Owner to represent the Owner’s interests with respect to the Project, and acting within the limits of the delegated authority.”
4. “System Installer” shall mean “the entity, qualified by special skill and experience and employing specially trained technicians, that is engaged by the Contractor to install a particular electrical, communications or electronic safety system on the Project in accordance with the Contract Documents.”
5. “System Vendor” shall mean “a factory branch office or authorized dealer/distributor for equipment provided as part of a particular electrical, communications or electronic safety system that maintains a local shop, equipped with spare parts and trained technicians skilled in installation, maintenance, trouble-shooting and repair of system components.”

G. Other definitions:

1. “Vibrating Equipment” shall mean “electric motors, engine-generators, dry-type transformers, and equipment incorporating one or more such items.”
1.5 INTERPRETATION OF DRAWINGS AND SPECIFICATIONS

A. Diagrammatic Drawings
   1. The size and location of equipment are drawn to scale wherever possible.
   2. Some symbols are distorted dimensionally to attain clarity in representation.
   3. Locations shall be verified to avoid interference, preserve head room, maintain access for operation and maintenance and keep openings and passageways clear.
      a. Changes in location required to accomplish these purposes shall be made without additional compensation.
   4. Diagrams are schematic only and do not necessarily show the physical arrangement of the equipment.
   5. Diagrams shall not be used to obtain quantities or lineal runs of raceway or conductors.
   6. Drawings do not necessarily show the intended routing or total number of raceways or cables required.
   7. Provide quantity of raceways and cables necessary for a complete installation of the wiring required for the equipment included in the Project.

B. Electrical Working Drawings
   1. The electrical Drawings shall serve as the working Drawings for the electrical work.
   2. Review the Architectural Drawings and adjust the electrical work to conform to conditions indicated thereon.
   3. Review the Drawings for the work of other trades and adjust the electrical work to conform to conditions indicated thereon.
   4. Working measurements shall be taken from the building, and checked with those shown on the Drawings.
   5. Report discrepancies to the Architect before proceeding with the Work.

C. Symmetry
   1. Equipment and outlets shall be located symmetrically with respect to Architectural elements.
   2. Coordinate locations for equipment furnished by the Owner and equipment provided by other trades.

D. Complimentary Documents
   1. The Drawings and Specifications are complimentary.
   2. What is required by either document shall be as binding as if required by both.
   3. In the case of inconsistency between or within the Drawings and Specifications, provide the better quality or greater quantity of work, in accordance with the Architect’s interpretation, without additional compensation.
1.6 CODES

A. All work shall comply with the current requirements of:

1. The National Electrical Code (NEC)
2. The International Building Code (IBC)
3. Applicable local, state and national codes.

B. The Electrical Installer shall be fully informed of all such requirements.

C. If any conflict occurs between applicable codes as versus the Drawings and Specifications, the codes and ordinances shall govern. Comply with any requirements of the Drawings and Specifications that are in excess of the codes and ordinances.

1.7 PERMITS

A. Obtain and pay for all permits required to install the work.

1.8 FEES

A. Plan review fees will be paid by the Owner.

1.9 SUBSTITUTIONS AND PRODUCT OPTIONS

A. As a basis of quality, equipment and materials are specified by one or more manufacturers’ names, brands or catalog numbers.

B. Equivalent equipment and materials may be considered.

C. Pre-Bid Substitutions:

1. Obtain written acceptance from the Architect prior to the bid date.
2. Submit requests to the Architect within the time period and in the manner required by the Specifications.
3. Requests shall be accompanied by a form indicating all deviations from the Contract Documents.
4. Acceptance shall not constitute authorization for deviations from the Contract Documents.
5. Subject to shop drawing/product data review for compliance with the Drawings and Specifications.
6. Shall meet or exceed the standard of the specified item.
7. Dimensions shall allow proposed substitute to be installed in the space allowed.
8. Proposed substitute shall operate as intended.
9. Requests to use alternate luminaires shall include electronic .ies files.

D. Post-Bid Substitutions

1. Requests for substitution after award of the contract will be received and considered if:
   a. Extensive revisions to the contract documents are not required.
b. If the proposed changes are in keeping with the general intent of the contract documents.
c. If the requests are timely, fully documented and properly submitted.
d. If one or more of the following conditions is satisfied, all as judged by the Architect/Engineer. Otherwise the requests will be returned without action except to record non-compliance with these requirements.

1) The specified product or method cannot be provided within the Contract time.
2) The specified product or method cannot receive necessary approval by the Authority Having Jurisdiction (AHJ) and the proposed substitution is approved by the AHJ.
3) The proposed substitution offers substantial advantage to the Owner, in terms of cost, time, energy conservation, or other considerations of merit, after deducting offsetting responsibilities the Owner may be required to bear. These additional responsibilities may include such considerations as additional compensation to the Architect/Architect’s Consultant for redesign and evaluation services, the increased cost of other work by the Owner or separate contractors, and similar considerations.
4) The specified product or method cannot be provided in a manner which is compatible with other materials provided for the project and where the substitution will overcome the incompatibility.
5) The specified product or method cannot be properly coordinated with other materials provided for the project and where the proposed substitution can be properly coordinated.
6) The specified product or method cannot receive a warranty as required by the contract documents and where the proposed substitution can provide the required warranty.

2. Requests will not be considered if the product or method cannot be provided as a result of the Contractor’s failure to pursue the work promptly or to coordinate the various activities properly.

3. Requests to use alternate luminaires shall include electronic files.

E. Reimburse the cost of any redesign caused by a product substitution, whether accepted or not.

1.10 SHOP DRAWINGS AND PRODUCT DATA

A. General

1. Submit sufficient information to prove compliance with the Contract Documents and, for substitute equipment and materials, to prove equivalence to the specified products.
2. Before ordering materials or equipment, submit shop drawings and/or product data, as indicated in the Specifications, for proposed material and equipment. Maintain copy of reviewed submittals at the Project site.

a. Submittals shall be available for use by the Architect and the Architect’s Consultant throughout the duration of the Project.
3. All submittal data shall identify the equipment as Underwriter's Laboratory labeled or listed.
   a. Submittals which do not include this information will be considered incomplete, and will be returned “REJECTED.”

4. Electronic files shall be submitted individually in a sequence that does not adversely impact the project schedule.

B. Format
   1. All submittals shall be submitted in unlocked, electronic portable document fire (.pdf) format created from original documents.
   2. The specific products intended for the Project shall be clearly identified.
   3. Information submitted in improper format shall be subject to return without review.
   4. A separate electronic file shall be submitted for each section of the Specifications.
   5. The first page of each submittal shall contain:
      a. Specification Section name and number
      b. Equipment list
      c. Model and/or catalog numbers
      d. Space for review stamp and comments

C. Contractor Review and Documentation
   1. Prior to submitting documents for the Architect's/Architect’s Consultant's review, shop drawings and product data shall be reviewed, approved and stamped by:
      a. The Contractor.
      b. The Electrical Installer.
   2. Shop drawings and product data without the Contractor's and Installer's note of approval will be subject to return without review by the Architect or the Architect’s Consultant.
   3. On the Electrical Installer’s letterhead, record deviations from requirements of the Contract Documents, including minor variations and limitations.
      a. Include copy of recorded deviations in the submittal electronic file.
      b. Absence of recorded deviations constitutes representation that the submitted items, having been reviewed and approved by the Contractor and the Electrical Installer, fully comply with all requirements of the Contract Documents.

D. Product Data:
   1. Submit catalog sheets for standard catalog items.
   2. Product data shall show:
      a. Manufacturer
      b. Catalog number
c. Ratings  
d. Finish  
e. Dimensions  
f. Type of materials used.  
g. Evidence of compliance with required listing and labeling.

E. Shop Drawings:  

1. Outline drawings and component information shall be submitted for assemblies, systems and other non-standard or non-cataloged items.  
2. Shop drawings shall show:  
   a. Manufacturer  
   b. Ratings  
   c. Finish  
   d. Dimensions  
   e. Arrangement of components  
   f. Type of materials used.  
   g. Evidence of compliance with required listing and labeling  
   h. The following when applicable::  
      1) Raceway entry locations  
      2) Access requirements  
      3) Calculations  
      4) Adjustment settings  
      5) Floor plans  
      6) Details  
      7) Riser diagrams  
      8) Wiring diagrams  
      9) Operational matrices

F. Samples:  

1. Submitted for direct examination:  
   a. Of certain items when requested by the Architect/Architect's Consultant.  
   b. Specific items when so required by other Sections of Division 26 of the Specifications.

G. Architect's Review and Documentation  

1. The submittal review by the Architect and/or the Architect’s Consultant shall not relieve the Contractor’s responsibility to furnish materials and perform work as required by the Contract Documents.  
2. If the submittal includes any deviations from the Contract Documents, such deviations shall be presumed as not having been reviewed, except where specific emphatic attention is called to the deviation.  
3. Allow a minimum of 14-calendar days for review of each electronic file.

H. After reviewing and marking the original file, the Architect and/or the Architect’s Consultant will return an electronic copy of the annotated .pdf file.
1.11 COORDINATION AND COOPERATION

A. Coordination

1. Coordinate the electrical work with all other trades performing work on the Project.
2. Electrical workman shall be present during placing of concrete and masonry.
3. Refer to the entire set of Contract Drawings, Specifications and Addenda for details necessary to properly coordinate the electrical work with work of other trades.

B. Cooperation

1. Cooperate with:
   a. The work of other trades on the Project to avoid delays and disputes.
   b. The Architect and the Architect’s Consultants to enable review of the work.
   c. The Authority Having Jurisdiction to allow inspection of the work.

2. Remedial work made necessary by failure to coordinate work with other trades shall be performed with no additional compensation.

1.12 WORK SCHEDULE

A. Accommodate the Project schedule and the requirements of the Owner.

B. Perform overtime work necessary to meet the Project schedule and the Owner’s requirements.

1.13 REVIEW OF WORK

A. Work shall be subject to review by the Architect and the Architect’s Consultant at any and all times.

B. Work shall be subject to inspection by code enforcing authorities at any and all times.

C. Give the Architect, the Architect’s Consultant and code enforcing authorities all assistance necessary to review the work.

1.14 SUBMITTALS

A. Schedule of Values: Itemization of the value of the Division 26 work.

B. Training Sign-In: Attendee sign-in sheet for the training sessions.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Materials and equipment:

1. New and in an unused condition when delivered to the site.
2. Current model with continuing support of the manufacturer.

B. Labeling:

1. Materials and equipment shall bear the Underwriter’s Laboratory (UL) label or the label of another product testing laboratory approved by the AHJ.
2. The label shall indicate items are suitable for:
   a. The intended use
   b. The conditions in which they are installed
   c. Ambient temperatures.

PART 3 - EXECUTION

3.1 SITE CONDITIONS

A. Ascertain conditions affecting the work by examining the site of the work prior to submitting a bid.

B. No allowances will be made due to lack of knowledge of such conditions.

C. Regarding conditions affecting the work, no statement by the Architect, the Architect’s Consultant, the Owner or their representatives will be binding.

3.2 INSPECTIONS

A. During Construction
   1. Arrange for all inspections required by each AHJ.
   2. Provide access to equipment as required by each AHJ.
   3. Do not conceal work without the approval of the appropriate AHJ.

B. Prior to Project Closeout
   1. Arrange for final inspections required by each AHJ.
   2. Make corrections to the work as required by each AHJ.

3.3 PROTECTION AND CLEANING

A. Protection
   1. Fully protect materials and equipment against damage due to weather, construction activities and other causes.
   2. Fully protect finished surfaces.
   4. Protect electrical equipment and materials from accidental painting.
   5. Damaged materials, equipment and finishes shall be replaced or repaired to new condition.

B. Cleaning
1. During the Project:
   a. Maintain clean project site.
   b. Remove all scrap, unused material, packing cartons and other debris created as a result of the work.

2. At conclusion of the Project:
   a. Clean all new and existing luminaires, devices and equipment within the Project area

3.4 MANAGEMENT OF CONSTRUCTION WASTE

A. Comply with waste management and disposal procedures Contained in Division 1 of the Specifications.

B. Recyclable material:
   1. Separate recyclable materials from construction waste.
   2. Segregate recyclable materials by type.

3.5 TESTING, ADJUSTMENT AND DEMONSTRATION

A. General
   1. Supply tools, instruments, gauges, testing equipment, protective devices and safety equipment for adjustment, testing and demonstration.

B. Testing
   1. Notify the Architect’s Consultant, and the Owner’s Representative at least two (2) weeks in advance of the date of each test, to allow witnessing of the tests.
   2. Perform tests necessary to:
      a. Ensure against concealment of defective materials and workmanship
      b. Determine all wiring is free from short circuits
      c. Determine all conductors have correct continuity
      d. Allow the Authority Having Jurisdiction to approve the work
   3. Correct all deficiencies discovered as a result of testing.
   4. Retest corrected work.
   5. Record test results and corrective actions taken.

C. Adjustment
   1. Set adjustable control devices in accordance with:
      a. The manufacturer’s recommendations
      b. As directed by the Owner’s Representative and/or the Architect’s Consultants.
      c. Other Sections of the Specifications
2. Record all settings.
3. Records shall be included in the Operating and Maintenance Manuals

D.

E. Demonstration
1. After satisfactory conclusion of testing and adjustment demonstrate:
   a. Operation of each control switch
   b. Operation of each control panel
   c. Operation of each specific system as specified on other Sections of Division 26.
2. Demonstrations shall be performed in the presence of the Owner’s Representative.

3.6 ON-SITE TRAINING

A. Preparation:
1. Place all systems installed under Division 26 in initial operation.
2. Retain representatives of the equipment manufacturers for certain electrical systems to conduct specific training in the maintenance and operation of each system as specified in the corresponding Sections of the Specifications.
3. Notify the Owner’s Representative at least two (2) weeks in advance of the date of each on-site training session to allow attendance by the Owner’s Personnel.
4. On-site training shall follow written training plans, prepared in advance. The training plans shall outline the topics to be covered, the publications to be used, and the training schedule.
5. The training shall be conducted after the Operating and Maintenance Manuals for the project are completed and available for use during the training session.
6. Maintain training sign-in sheets, upon which participants in each training session, including the instructors, shall record their names. The training sign-in sheets shall be dated.

B. General Training:
1. The Electrical Installer shall conduct a minimum of two (2) hours of general training for the Owner’s Personnel.
2. Training shall include:
   a. Operating instructions.
   b. Maintenance instructions.
   c. Troubleshooting approaches.

C. Specific Training:
1. Conduct specialized training for specific portions of the work as specified in other Sections of Division 26 of the specifications.
2. The training shall be conducted by personnel who are thoroughly familiar with the equipment, and with the Project. The training shall include instruction and field
demonstration. As a minimum, the training shall cover, but not be limited to, the following topics:

a. General overview of the electrical systems, including expansion capability.
b. Location, adjustment procedures and settings for adjustable devices.
c. Location and operation of control devices.
d. Location of batteries, moving parts and other items that require periodic maintenance.
e. Recommended maintenance procedures and intervals.

D. In addition to specific training for certain systems that is conducted by representatives of the equipment manufacturers

E. At the conclusion of each training session:

1. Obtain written sign-off from the Commissioning Authority and the Owner’s Representative.
2. Insert a copy of each sign-off form and each training sign-in sheet into the Operating and Maintenance Manuals.
3. Submit a copy of each training sign-in sheet to the Architect.

3.7 RECORD DOCUMENTS

A. Requirements contained in this Section are in addition to requirements contained in Division 1 of the Specifications.

B. General

1. Maintain one (1) complete set of the Drawings and Specifications throughout the Project as a Record Document set.
2. Do not use Record Document set for any purpose other than recording changes.
3. Enter notations on the set in a neat and legible manner.
4. Update Record Documents daily to record every change from the original Documents made by:

   a. Addendum
   b. Document Clarification
   c. Change Order
   d. Construction Change Directive
   e. Field Authorization
   f. Architect’s direction
   g. Owner’s direction.

5. Record Document set shall be available at the Project site for review at any time.
6. Status of Record Documents will be considered when evaluating partial payments to the Contractor.
7. Submit Record Document set to the Architect’s Consultant for review.
8. Deliver the completed Record Documents to the Owner in the manner prescribed in the general provisions of the Contract.
C. Plans and Details

1. As a minimum, record the following information:
   
   a. Where boxes, monuments, stub-outs and other provisions are made for future connections, the actual location and elevation, with dimensions referenced to building lines or approved bench marks, shall be indicated.
   
   b. Actual routing of underground electrical work on site. Actual location and type of grounding electrodes.
   
   c. Actual routing of feeders and major systems raceways.
   
   d. Origin of branch circuit “home runs”.
   
   e. Actual overcurrent device selection.
   
   f. Actual location and physical size of electrical equipment.
   
   g. Actual location of electrical control devices and outlets installed at locations differing from the locations indicated on the original Documents.
   
   h. Actual circuit numbers, where differing from the circuit numbers indicated on the original Documents. Where deviations are indicated, identify both what was added and what was deleted.
   
   i. Actual types, ratings, sizes, quantities and other pertinent data related to the electrical work, where such data differs from that indicated on the original Documents.
   
   j. Revisions to details shown on the Drawings.

D. Schedules

1. As a minimum, record the following:

   a. Changes to panelboard schedules
   
   b. Changes to equipment schedules
   
   c. Changes to luminaire schedules

E. Specifications

3.8 OPERATING & MAINTENANCE MANUALS

A. General

1. Provide three (3) manuals describing electrical equipment specified in Division 26.

B. Data to be included:

   1. Copies of data submitted under “Shop Drawings and Product Data”
   2. Final manufacturer’s drawings
   3. Test reports
   4. Operation instructions
   5. Maintenance instructions
   6. Certificates
   7. Inspection reports
   8. Warranties, where the manufacturer’s warranty exceeds one year
C. Format:

1. Clean, high-quality pages 216 mm by 280 mm (8½ in by 11 in) size.
2. Loose-leaf
3. Heavy-duty three-ring binders
   a. Maximum 3-inch thick
   b. Maximum 75% full
   c. Multiple volumes as necessary
   d. Edge label:
      1) Project Name
      2) Volume number
   e. Front label:
      1) Project Name
      2) Volume number
      3) Completion date
      4) Architect’s name
      5) Electrical Installer’s name

4. Sections
   a. Section title pages plastic tab indicating related Specification Section number and Specification Section title.
   b. Arranged in numerical order to match Specifications.
   c. Respective information pages located directly behind the section pages.

5. Provide one (1) complete manual in Adobe portable document file (.pdf) format on permanent media.

D. Review:

2. Submit final copies for review two (2) weeks prior to on-site training.

E. Delivery:

1. Deliver completed Manuals to the Owner one (1) week prior to first on-site training session.

3.9 PROJECT CLOSEOUT

A. Inspections

1. For each permit, deliver written final approval of the AHJ to the Owner.

B. Notification
1. Notify the Architect in writing when the electrical work is complete.

C. Review

1. Accompany the Architect’s Consultant during the review of the work.
2. Remove the following as directed by the Architect’s Consultant:
   a. Box cover plates
   b. Switchboard covers
   c. Panelboard covers
   d. Cabinet covers
   e. Access panels

D. Corrective Action

1. The Architect’s Consultant will prepare itemized list of incorrect and incomplete items of work.
2. Correct items included in the list.
3. Notify the Architect in writing when corrections are complete.
4. Submit annotated copy of the correction list denoting disposition of each item.

E. Additional Review

1. Accompany the Architect’s Consultant during the additional review of the work.
2. Demonstrate that all corrections are correctly completed.
3. Additional trips to the Project site necessary due to failure to complete all corrective work will be charged to the Contractor at normal published rate of the Architect’s Consultant plus travel expenses.

F. Spare Materials

1. Prepare pare list of spare materials and required quantities specified in Division 26.
2. Deliver list and spare materials to the Owner’s Representative.
3. Obtain signed receipt for delivered materials

3.10 GUARANTEE

A. Guarantee the satisfactory operation of all material, equipment and labor provided under Division 26 of the Specifications.

B. Repair or replace, to the satisfaction of the Owner and Architect, material, and equipment found to be defective within one (1) year of the date of substantial completion.

1. Excluded from guarantee:
   a. Incandescent lamps

C. The guarantee period shall extend beyond one (1) year for specific equipment as indicated in other sections of the Specifications.

D. Remedial Work
1. Work to correct defective material and labor shall be made to the satisfaction of the Architect.

2. Relocation, cutting, patching, refinishing and other work made necessary to repair defective materials, to remedy defective workmanship or because of failure to properly anticipate the requirements of the electrical work, shall be performed with no additional compensation.

3. Cutting and patching shall conform to the requirements in Division 1.

4. If necessary to accommodate the Owner’s use of the project, remedial work may need to be accomplished on weekends and/or nights.

END OF SECTION 26 01 00
SECTION 26 04 00

ELECTRICAL DEMOLITION

PART 1 - GENERAL

1.1 RELATED REQUIREMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary
   Conditions and Division 1 specification sections, apply to work specified in this section.

B. Requirements in each of the Division 26 specification sections apply to every other
   Division 26 section whether specifically referenced or not.

1.2 SUMMARY

A. Perform selective demolition of existing electrical materials, including disconnecting
   circuits and dismounting, removing and properly disposing of electrical items in
   accordance with the requirements indicated on the Drawings and specified herein.

B. Maintain continuity of electrical services. Where interruption of service is necessary,
   measures shall be taken to minimize the interruption, and the work shall be scheduled
   with the Owner's Representative such that the interruptions do not limit the Owner's use
   of existing occupied facilities.

1.3 EXISTING CONDITIONS

A. Existing equipment, devices, luminaires, raceways and wiring indicated on the Drawings
   are shown only as a guide. Actual field conditions may vary from that shown on the
   Drawings. Report discrepancies to the Architect before disturbing existing conditions.

B. Upon encountering existing electrical materials or installed conditions that are hazardous,
   not code-compliant, improperly supported or otherwise not in accord with generally
   accepted practice, notify the Architect and the Owner's Representative

C. Specific attention is directed to the probability of the existence of asbestos-containing
   materials at the Project site. Work shall proceed only after the Owner's Representative
   signifies that asbestos abatement is complete in the work area.

1.4 SUBMITTALS

A. None required.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Materials for Extending Electrical Work: As specified in applicable Sections of these
   Specifications.

B. Materials for Repairing Electrical Work: As specified in applicable Sections of these
   Specifications, otherwise match existing materials.
PART 3 - EXECUTION

END OF SECTION 26 04 00
PART 1 - GENERAL

1.1 RELATED REQUIREMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 specifications, apply to work specified in this section.

B. Requirements in each of the Division 26 specification sections apply to every other Division 26 section whether specifically referenced or not.

1.2 SUMMARY

A. Perform excavation, including trenching, and backfill as required to install the underground electrical work for the Project.

B. Provide miscellaneous general construction materials, such as concrete, for application in direct conjunction with the electrical Work on the Project.

1.3 SUBMITTALS

A. Product Data: For each type of roof flashing and waterproofing provided on the Project for electrical work.

B. Installation Details: For each type of firestopping assembly provided on the Project to protect fire-rated through-penetrations for electrical work.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Cast-in-Place Concrete: Incidental concrete shall be ready-mix, 300 kg/m³ (5½ sack to cubic yard) ratio of Portland cement to concrete, having a compressive strength of 20,000 kPa (3,000 psi) minimum. Aggregate no larger than 9.5 mm (7/8 in).

2.2 ACCEPTABLE MANUFACTURERS

A. Acceptable manufacturers shall be as listed above.

B. Substitutions may be considered only when submitted in conformance with Section 26 01 00.

PART 3 - EXECUTION

3.1 EXCAVATION AND BACKFILLING

A. Prior to beginning excavation, existing underground utilities within 3 m (120 in) of the excavation shall be located and marked on the existing grade. Arrange for Utility Companies to locate and mark their respective underground utilities. Locate and mark all
privately owned underground utilities. After backfilling is complete, all markings shall be removed.

B. Provide complete excavation, compaction and backfill required to install the electrical work.

C. Exercise extreme care while excavating in the area of existing utilities. Check carefully for location of all possible utilities, whether shown on the Drawings or not, and establish the location of all cutoff valves and switches for ready shutoff in case of an emergency. Repair any utility damaged during excavation.

D. Exercise care not to damage existing vegetation indicated to remain in place.

E. Dig trenches to the uniform width required for the particular item to be installed and sufficiently wide to provide ample working room. Excavate 150 mm (6 in) below the required elevation, and backfill with 152 mm (6 in) layer of sand prior to installing raceway.

F. Grade bottoms of trenches to provide solid bearing for the entire body of the raceway.

G. Do not backfill trenches until underground raceways have been reviewed by the Electrical Inspector and backfilling has been authorized by the Architect/Architect's Consultant. Use care in backfilling to avoid damage to or displacement of the raceway systems.

H. Backfill material shall not contain rocks in excess of 100 mm (4 in) diameter. No cinders shall be used as backfill material. Do not place backfill material on surfaces that are muddy or frozen, including surfaces that contain frost or ice.

I. Remove excess earth from the site and legal dispose off site.

J. Protect adjoining properties and improvements that remain. Repair or replace streets, walks, paved areas, lawns, curbs, fences, and other improvements removed or damaged as a result of excavation to the satisfaction of the Architect. Compact new asphalt base courses to 95%. Provide asphaltic primer between the edges of existing paving and new paving.

K. Where subsidence occurs at excavations for electrical work during the Project warranty period, remove surface treatment add backfill material, compact to specified conditions, and restore surface treatment to match the appearance, quality and condition of the adjacent surfaces.

3.2 INSTALLATION OF WARNING TAPE

A. Provide warning tape extending the entire length of each underground service raceway. During backfill, place the warning tape centered above the buried lines, at the depth indicated on the Drawings, or, where not indicated, place the warning tape approximately 300 mm (12 in) below finished grade.

END OF SECTION 26 05 10
SECTION 26 05 19

LOW-VOLTAGE CONDUCTORS & CABLES

PART 1 - GENERAL

1.1 RELATED REQUIREMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary
   Conditions and Division 1 specifications, apply to work specified in this section.

B. Requirements in each of the Division 26 specification sections apply to every other
   Division 26 section whether specifically referenced or not.

1.2 SUMMARY

A. Provide a complete system of wires and cables for systems operating between 100 VAC
   and 600 VAC as indicated.

1.3 SUBMITTALS

A. Product Data: For each type of wire and cable provided on the Project for systems
   operating between 100 VAC and 600 VAC.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Insulated Copper Wire: Copper conductors shall be soft-drawn copper, 100% IACS .
   Conductors installed fully or partially below grade, below concrete slabs on grade or in
   damp/wet locations shall have THWN-2 or XHHW-2 insulation rated for 600VAC. Wire
   sizes #10 AWG and smaller shall be solid; wire sizes #8 AWG and larger shall be
   stranded. Wire sizes #6 AWG and smaller shall have color-coded insulation. Minimum
   size of copper conductors for power and lighting circuits shall be #12 AWG unless
   indicated otherwise. Wire shall be marked with wire gauge and insulation type on 610
   mm (24 in) intervals.

B. Wire Pulling Lubricant shall be non-toxic, polymer based and compatible with conductor
   insulation. Lubricant shall not reduce the dielectric strength of the conductor insulation.

2.2 ACCEPTABLE MANUFACTURERS

A. Acceptable manufacturers shall be as follows:

1. Insulated Copper Wire: Rome, Southwire, General Cable, American Insulated
   Wire, Superior/Essex or Cerrowire
2. Molded Connectors: 3M or Buchanan
3. Lug and Bolted Connectors: Burndy, O.Z./Gedney or Thomas & Betts
4. Compression Connectors: Burndy, O.Z./Gedney or Thomas & Betts
5. Wire Pulling Lubricant: Thomas & Betts or Ideal, consider adding "Polywater"
6. Tape: 3M

B. Substitutions may be considered only when submitted in conformance with Section 26 01 00.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Wire and cable shall be delivered to the project site in the original containers bearing the UL label.

B. Conductors with THHN insulation shall not be installed below grade.

C. Conductors installed in raceway exposed outdoors shall have XHHW-2 insulation.

D. Conductor insulation shall be color coded as follows:

<table>
<thead>
<tr>
<th>CONDUCTOR</th>
<th>240Y/120 VAC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phase A</td>
<td>Black</td>
</tr>
<tr>
<td>Phase B</td>
<td>Red</td>
</tr>
<tr>
<td>Neutral</td>
<td>White *</td>
</tr>
<tr>
<td>Ground</td>
<td>Green</td>
</tr>
</tbody>
</table>

*Neutral shall have colored stripe where so specified.

E. Color-coding on conductors #6 AWG and smaller wire shall be achieved by installing wire with properly colored insulation. Conductors larger than #6 AWG, if not otherwise properly color-coded, shall be identified with colored insulating tape, helically-wound a minimum of 76 mm (3 in) along the conductor length at each terminal and at each accessible point along the conductor.

F. Individual neutral conductors shall have solid colored insulation with continuous colored stripes to match the phase with which the neutral is associated. Neutral striping may be omitted where no more than one circuit occupies the same raceway.

G. Single-conductor wires shall be installed in appropriate raceway systems. All phase, neutral and ground conductors of a branch circuit shall be installed in a common raceway. Each feeder and service entrance raceway shall contain phase, neutral and ground conductors. Phase, neutral and ground conductors serving the same circuit shall not be isolated in different raceways.

H. All wire and cable in a single raceway shall be installed at the same time.

I. Where conductors are installed in a vertical raceway exceeding the limits on NEC Table 300.19(A), provide a cable support at the top of the raceway and at intermediate intervals as required by the NEC. Remove lubricant before installing wedge plugs.

J. Wire and cables shall be installed in such a manner as to avoid kinking of conductors and abrasion to the insulation. Only approved lubricants shall be used for installing wire and cables. Oil or grease shall not be used to lubricate wires.
K. Insulated bushings shall be installed in all raceway couplings and connectors before wires are installed.

L. Where more than three current-carrying conductors are installed in a single raceway, the minimum wire size shall be increased to comply with NEC 310.15(B)(2). For circuits with individual neutral conductors, both the phase conductor and the neutral conductor of each circuit shall be counted as current-carrying. Wiring shall be arranged as shown on the drawings.

M. Provide a separate neutral conductor for each branch circuit. Shared neutrals will not be allowed.

N. Raceways shall not contain more than one (1) NEC 700 emergency system branch circuit.

O. Installed conductors in lengths up to 300 m (1000 ft) shall have a minimum resistance of 100 mega-ohms between adjacent conductors and between each conductor and ground. The required minimum resistance value between conductors over 300 m (1000 ft) shall be reduced in proportion to the excess length. Conductors with resistance values below the minimum acceptable level shall be replaced.

P. All splices shall be made in properly sized junction boxes or pull boxes.

Q. Neatly train and lace wiring inside boxes, cabinets, panelboards and equipment enclosures.

R. Clean conductor surfaces before installing connectors.

S. Tighten all lug and bolt type mechanical connections in accordance with manufacturer's instructions before taping.

T. Compression connectors shall be installed with hydraulically-actuated dies as recommended by the manufacturer. Dies shall compress the full circumference of the cable.

END OF SECTION 26 05 19
SECTION 26 05 26
GROUNDING & BONDING

PART 1 - GENERAL

1.1 RELATED REQUIREMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 specification sections, apply to work specified in this section.

B. Requirements in each of the Division 26 specification sections apply to every other Division 26 section whether specifically referenced or not.

1.2 SUMMARY

A. Provide a grounding electrode system for the electrical service and all separately derived electrical systems as required by the NEC and as specified herein.

B. Provide grounding for electrical equipment as required by the NEC and as specified herein.

C. Provide bonding for electrical equipment as required by the NEC and as specified herein.

D. Grounding electrode system connectors shall comply with IEEE 837-2002.

1.3 SUBMITTALS

A. Product Data: For ground rods, ground bars and each grounding connection device provided on the Project.

B. Shop Drawings: Plan view drawings showing the locations of grounding terminals.

C. Test Report: Measured resistance values of the grounding electrode system.

1.4 INFORMATION FOR OPERATING & MAINTENANCE MANUALS

A. Submittals: Information submitted for review, updated to record any changes.

B. Commissioning Notification: Written notification of the proposed date for performing commissioning activities. Submit to the Commissioning Authority, with a copy to the Architect.

C. Test Reports: Record of measured resistance values of the made grounding electrodes. Submit to the Architect.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Insulated Grounding Conductors: Copper, as specified in Section 260519.
B. Bare Grounding Conductors: Bare, uncoated soft-drawn copper conductor, 100% conductivity. Minimum size shall be #6 AWG. #6 AWG shall be solid; larger sizes shall be stranded.

C. Ground Rods: Equivalent to Copperweld 19 mm (¾ in) diameter by 3.0 m (120 in) long copper-plated steel rods.

D. Ground Clamps: Equivalent to Burndy Type GAR-BU.

E. Compression Connectors: Irreversible compression-type, suitable for direct burial. Burndy Hyground or Thomas & Betts Color-Keyed.

2.2 ACCEPTABLE MANUFACTURERS

A. Manufacturers shall be as listed above, and as follows:

1. Bare Grounding Conductors: Phelps-Dodge, Southwire, Harger
2. Ground Rods: Erico, Harger, Thomas & Betts
3. Grounding and Bonding Connectors: Burndy, Harger, Thomas & Betts
4. Ground Bars: Chatsworth, Harger, Thomas & Betts
5. Ground Mats: Erico, Harger

B. Substitutions may be considered only when submitted in conformance with Section 26 01 00.

PART 3 - EXECUTION

3.1 INSTALLATION

A. A grounding electrode connection shall be made by means of grounding electrode conductors from the ground bus in the electrical panel to all required grounding electrodes as required by NEC 250.52 and 250.53.

B. Provide ground rod with handhole as indicted on the drawings. Grounding electrode conductor connection to ground rod shall be visible when handhole cover is removed.

END OF SECTION 26 05 26
SECTION 26 05 33

RACEWAYS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 specification sections, apply to work specified in this section.

B. Requirements in each of the Division 26 specification sections apply to every other Division 26 section whether specifically referenced or not.

1.2 SUMMARY

A. Provide raceways for wires and cables as indicated.

B. Provide empty raceways with pull strings.

C. All raceways shall be concealed unless specifically otherwise indicated.

D. Raceways for telecommunications cabling shall comply with ANSI/TIA/EIA Standards 568 and 569.

1.3 SUBMITTALS

A. Product Data:

1. Each type of raceway
2. Each type of coupling, connector and fitting

PART 2 - PRODUCTS

2.1 MATERIALS

A. Rigid Nonmetallic Conduit (RNC):

1. Polyvinyl Chloride Conduit (PVC)
2. Schedule 40 heavy wall
3. Rated for 90°C conductors at 600VAC

B. Liquidtight Flexible Metal Conduit (LFMC):

1. Interlocking, hot-dipped galvanized steel core
2. Copper bonding tape
3. Flexible PVC jacket
4. Sunlight-resistant
5. Wet location labeled
6. With internal equipment grounding conductor to supplement integral bonding tape
7. Rated for 60°C conductors at 600-VAC
C. Fittings for RNC:
   1. Couplings and Connectors for RNC
   2. PVC
   3. Glued type

D. Fittings for LFMC:
   1. Galvanized steel or zinc-plated malleable iron
   2. Liquid-tight compression type
   3. With pre-insulated bushings

E. Fittings for EMT:
   1. Couplings and Connectors for EMT:
   2. Steel, compression type
   3. With pre-insulated bushings
   4. In damp or wet locations:
      a. Rain-tight compression fittings
      b. UL listed for wet locations

F. Pull Strings:
   1. Polypropylene tape or cord
   2. Minimum tensile strength of 700-N (157-pounds)

2.2 MANUFACTURERS

A. Acceptable manufacturers shall be as follows:
   1. RNC: Cantex, Carlon, PW Pipe
   2. LFMC: AFC Cable Systems, Alflex, American Brass, Anamet, Electri-Flex
   3. Threaded Hubs: Crouse-Hinds, O.Z./Gedney
   4. Unions, Couplings, Connectors: Appleton, Bridgeport, O.Z./Gedney, Thomas & Betts
   5. Sealing Fittings: Crouse-Hinds, O.Z./Gedney
   6. Pull Strings, Ropes, and Tapes: Greenlee, Ideal

B. Substitutions may be considered only when submitted in conformance with Section 26 01 00.

PART 3 - EXECUTION

3.1 REQUIRED RACEWAY

A. Provide a complete system of raceway for all circuits.

3.2 RACEWAY SELECTION

A. Direct-buried in Earth:
   1. RNC
B. Connections Equipment in Damp or Wet Locations:
   1. LFMC

3.3 GENERAL INSTALLATION

A. Maximum 40% fill for power and communications raceway. Bond metallic raceways to the power system ground.

B. Pull cleaning swab through the raceway before wires and cables are installed.

C. Joints in raceways in wet locations shall be watertight.

D. Bends:
   1. The inside radius of bends in raceways containing power and signal wires and cables shall comply with the NEC. Hickey bends may only be used for raceways smaller than 27 mm (1” trade size). Factory-manufactured elbows or bends fabricated in a bending machine shall be used for raceways 35 mm (1-1/4” trade size) and larger. The bend angle of manufactured elbows shall not be modified by cutting an elbow midway in the curved section of the fitting; connections to manufactured elbows shall be made only on the straight sections at the ends of the fitting.
   2. Flexible conduit connections to equipment shall include one (1) 90° bend.

E. Lengths:
   1. Exterior raceways shall be limited to 101 m (330 ft) in length between boxes, cabinets or other pulling points. Raceways shall be limited to the equivalent of four (4) 90° bends between boxes, cabinets or other pulling points.

F. Terminations and Connections:

G. Pull Strings:
   1. Nylon pull rope with 610-mm (24-in) slack at each end in all utility service raceways
   2. Pull strings with 305-mm (12-in) in all empty raceways, other than those for utility services. Plenum-rated in environmental air plenums

3.4 BELOW GRADE INSTALLATION

A. Raceway installed below grade and below concrete slabs on grade shall comply with this Section.

B. Terminations and Connections:
   1. Joints shall be liquid-tight.
   2. Bends, 45° or greater, in RNC raceways shall be RMC elbows.
   3. Metallic raceways and bends shall be protected by one of the following:
      a. One, half-lapped layer of 0.25-mm (10-mil) thick corrosion-resistant tape
      b. Factory-applied PVC coating
4. Transitions to above slab or slab on grade:
   a. Made with RMC elbows concealed below the top of slab/grade
   b. Raceways shall be perpendicular with slab/grade

5. Raceways for future use:
   a. Cap ends watertight
   b. Mark capped ends with 203-mm (8-in) diameter by 305-mm (1-in) deep concrete monuments installed flush with grade

   1) The top of each such monument shall be embossed with a 102-mm (4-in) high letter “E”
   2) Record exact monument locations on Record Drawings.

END OF SECTION 26 05 33
SECTION 26 56 23

EXTERIOR LIGHTING

PART 1 - GENERAL

1.1 RELATED REQUIREMENTS

A. Drawings and general provisions of this Contract, including General and Supplementary Conditions and Division 1 specifications, apply to work specified in this section.

B. Requirements in each of the Division 26 specification sections apply to every other Division 26 section whether specifically referenced or not.

1.2 SUMMARY

A. Provide luminaries at all exterior locations indicated on the Drawings. Provide lighting poles where indicated.

B. Adjust and aim luminaires and verify proper operation.

1.3 DESCRIPTION

A. Luminaires shall be complete with trim, mounting hardware, ballasts and lamps, and shall be suitable for the location in which they are installed.

B. Provide all materials required to entirely complete each luminaire ready for use, in accordance with the conditions and requirements of the building construction.

1.4 SUBMITTALS

A. Product Data: For each type of luminaire, light pole, ballast and lamp provided for interior and exterior lighting on the Project. Include physical description, materials and finishes, dimensions, weights, accessories, photometry data and efficiency data, as applicable.

B. Test Reports: Record of all field test data.

C. Training Documentation: Sign-off form and attendee sign-in sheet for the training session.

1.5 INFORMATION FOR OPERATING & MAINTENANCE MANUALS

A. Submittals: Information submitted for review, up-dated to record any changes.

B. Maintenance Instructions: List replacement parts, including source. Indicate recommended and required maintenance and testing procedures and intervals. List all individual lighting components that require periodic maintenance. Identify features, accessory attachments, safety precautions, and procedures for cleaning, lamp replacement and adjustment. Include manufacturer’s installation instructions. Detail trouble-shooting procedures, including step-by-step instructions for typical trouble symptoms. Detail waste disposal procedures, including recycling options, for compliance
with government regulations covering the disposal of lamps containing mercury. Cross out information that does not apply to the Project.

PART 2 - PRODUCTS

2.1 LUMINAIRES

A. See schedule on Drawings for listing of required luminaires. Luminaires shall be complete with trim and mounting hardware.

B. All luminaires shall bear the UL label associated with the type, location, ambient temperature and usage of the individual luminaire. Luminaires shall be enclosed and gasketed vapor-tight to provide a seal against ingress of moisture and foreign material.

C. Ballasts shall be completely enclosed in wiring channels arranged to permit easy access. Ballast replacement shall not require removing the luminaire from its mounting.

D. Lamps shall be replaceable without disassembling the luminaire or removing other lamps.

E. Luminaires shall have finishes applied after fabrication; luminaires manufactured with pre-painted metal are not acceptable.

F. Luminaires equipped with doors shall be free of light leakage around the doors under normal operating conditions. Doors shall be designed to prevent doors, frames, lenses, diffusers, and other components from falling accidentally during re-lamping and when secured in the normal operating position.

2.2 DRIVERS

A. Light-Emitting Diode (LED) Drivers:

1. Matched to lamp assembly and luminaire, with provisions to dissipate heat. Include surge suppression device.
2. Minimum power factor of 90%.

2.3 LAMPS

A. All luminaires shall be complete with lamps. Where applicable, lamps shall be of one of the types specified herein. All other lamps shall be as required by equipment in which they are installed or as indicated on the Drawings.

B. Light-Emitting Diode (LED):

1. White LED Lamp Assemblies: LED lamp assemblies used in general lighting applications shall utilize phosphor technology LED lamps. Color temperature shall be 4000°K. LED lamp assembly shall be rated 50,000 hour life minimum, as determined per IESNA Certification Standard LM-80. LED lamp assembly shall be driven at nominal 300 mA, and performance shall be tested together with LED driver as a complete system, including the luminaire in which it is to be installed, per IESNA Certification Standard LM-79.
2. Colored LED Lamp Assemblies: LED lamp assemblies used in exits signs shall be the indicated color. LED lamp assembly shall be rated for 100,000 hour life minimum.
2.4 LIGHT POLES

A. Poles shall be equipped with internal cable supports and a handhole with cover located near the base. Poles shall also include anchor bolts, base covers and all luminaire mounting hardware.

B. Pole finish shall be factory applied.

C. Poles shall be designed to withstand continuous wind velocities up to 129 km/hr (80 miles/hr) and gusts up 130% of rated velocity while supporting the quantity and types of luminaires indicated on the luminaire schedule.

2.5 ACCEPTABLE MANUFACTURERS

A. Manufacturers of luminaires and poles shall be as indicated on the luminaire schedule.

B. Manufacturers of ballasts and lamps shall be as follows:
   1. LED drivers – Same manufacturer as LED lamp assembly or luminaire.
   2. White LED lamps – Cree, Nichia, Philips or Samsung.

C. Substitutions may be considered only when submitted in conformance with Section 26 01 00.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Install luminaires in accordance with the manufacturer’s recommendations and installation details.

B. Provide backboxes matched to luminaires. Where luminaire manufacturer’s installation instructions indicate use of standard outlet boxes, boxes shall be in accordance with Section 26 05 31. Back boxes shall be plumb and perfectly aligned.

C. Mount exterior luminaires at locations indicated on the drawings. Support luminaires in accordance with Section 26 05 29, in the following manner:
   1. Mount pole-top luminaires on light poles matched to the luminaire. Mounting provisions shall provide structural integrity to withstand the specified wind loading, while maintaining an integrated appearance, coordinated with both the luminaire and the pole.
   2. Mount surface and wall luminaires square with the building lines. Support from fixture stud or as otherwise recommended by the manufacturer. Attach surface luminaires at two (2) support points, minimum.
   3. Install recessed luminaries in exterior soffits in accordance such that luminaire weight is supported by structural members. Verify soffit material and thickness to ensure that recessed luminaires can be properly installed.

D. Verify luminaire locations with the Architectural site plan and exterior wall elevations, when such plans and elevations are included in the Contract Documents.
E. Mount lighting poles on reinforced concrete bases as indicated on the Drawings. Position anchor bolts so that luminaires will be aligned with the appropriate surface features, as indicated. Level each anchor bolt plate so that the associated lighting pole will be vertical and plumb. Provide grout between the concrete base and anchor bolt plate.

F. Provide bonding connections between the pole and the reinforcing steel in the concrete base in accordance with Section 26 05 26 and manufacturer’s installation instructions.

G. Broken or defective parts shall be replaced, with no additional compensation.

3.2 ADJUSTMENT, TESTING & DEMONSTRATION

A. Notify the Owner’s Representative at least two (2) weeks in advance of the date of each test, to allow witnessing of the tests.

B. Supply tools, instruments, gauges, testing equipment, ladders, lifts, protective devices and safety equipment for adjustment, testing, and demonstration.

C. During adjustment and testing, carefully record all settings and all test results, including expected test results, actual test results, and corrective actions taken. Records shall be submitted to the Architect’s Consultant and included in the Operating & Maintenance Manuals.

D. After adjustments are complete, measure the illumination levels at selected points to demonstrate proper distribution and coverage. Verify with the Architect’s Consultant the points where illumination levels are to be measured. Measurements shall be taken at night.

E. Correct any deficiencies discovered as a result of the above testing, and completely retest the work affected by such corrections, with no additional compensation.

END OF SECTION 26 56 23
SECTION 31 10 00
SITE CLEARING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes the following:

1. Protecting existing trees and vegetation to remain.
2. Removing trees and other vegetation.
3. Clearing and grubbing.
4. Topsoil stripping.
5. Removing above-grade site improvements.
6. Disconnecting, capping or sealing, and abandoning site utilities in place.
7. Disconnecting, capping or sealing, and removing site utilities.

1.3 DEFINITIONS

A. Topsoil: Natural or cultivated surface-soil layer containing organic matter and sand, silt, and clay particles; friable, pervious, and black or a darker shade of brown, gray, or red than underlying subsoil; reasonably free of subsoil, clay lumps, gravel, and other objects more than 2 inches in diameter; and free of weeds, roots, and other deleterious materials.

1.4 MATERIALS OWNERSHIP

A. Except for materials indicated to be stockpiled or to remain Owner's property, cleared materials shall become Contractor's property and shall be removed from the site.

1.5 SUBMITTALS

A. Photographs or videotape, sufficiently detailed, of existing conditions of trees and plantings, adjoining construction, and site improvements that might be misconstrued as damage caused by site clearing.

B. Record drawings according to Division 1 Section "Closeout Procedures."

1. Identify and accurately locate capped utilities and other subsurface structural, electrical, and mechanical conditions.

1.6 PROJECT CONDITIONS

A. Traffic: Minimize interference with adjoining roads, streets, walks, and other adjacent occupied or used facilities during site-clearing operations.

1. Do not close or obstruct streets, walks, or other adjacent occupied or used facilities without permission from Owner and authorities having jurisdiction.

B. Notify utility locator service for area where Project is located before site clearing.
PART 2 - PRODUCTS

2.1 SOIL MATERIALS

A. Satisfactory Soil Materials: Requirements for satisfactory soil materials are specified in Division 31 Section “Earthmoving.”

1. Obtain approved borrow soil materials off-site when satisfactory soil materials are not available on-site.

PART 3 - EXECUTION

3.1 PREPARATION

A. Protect and maintain benchmarks and survey control points from disturbance during construction.

B. Provide erosion-control measures to prevent soil erosion and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways.

C. Protect existing site improvements to remain from damage during construction.

1. Restore damaged improvements to their original condition, as acceptable to Owner.

3.2 TREE PROTECTION

A. Erect and maintain a temporary fence around drip line of individual trees or around perimeter drip line of groups of trees to remain. Remove fence when construction is complete.

1. Do not store construction materials, debris, or excavated material within drip line of remaining trees.
2. Do not permit vehicles, equipment, or foot traffic within drip line of remaining trees.

B. Do not excavate within drip line of trees, unless otherwise indicated.

C. Repair or replace trees and vegetation indicated to remain that are damaged by construction operations, in a manner approved by Landscape Architect.

1. Employ a qualified arborist, licensed in jurisdiction where Project is located, to submit details of proposed repairs and to repair damage to trees and shrubs.
2. Replace trees that cannot be repaired and restored to full-growth status, as determined by the qualified arborist.

3.3 UTILITIES

A. Locate, identify, disconnect, and seal or cap off utilities indicated to be removed.

1. Contractor will arrange to shut off indicated utilities.
2. Arrange to shut off indicated utilities with utility companies.
3. Excavations to disconnect and seal or cap utilities shall be replaced with satisfactory soil in accordance with Division 31 Section “Earthmoving”. Utility trench backfill below new buildings, foundations, or slabs shall be completely removed to native soil and backfilled with satisfactory soil in accordance with Division 31 Section “Earthmoving”. 
B. Existing Utilities: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary utility services according to requirements indicated:

1. Notify Engineer not less than two days in advance of proposed utility interruptions.
2. Do not proceed with utility interruptions without Engineer's written permission.

3.4 CLEARING AND GRUBBING

A. Remove obstructions, trees, shrubs, grass, and other vegetation to permit installation of new construction. Removal includes digging out stumps and obstructions and grubbing roots.

1. Do not remove trees, shrubs, and other vegetation indicated to remain or to be relocated.
2. Cut minor roots and branches of trees indicated to remain in a clean and careful manner where such roots and branches obstruct installation of new construction.
3. Completely remove stumps, roots, obstructions, and debris extending to a depth of 18 inches below exposed subgrade. Use smooth blade equipment and maintain subgrade in an undisturbed condition.
4. Use only hand methods for grubbing within drip line of remaining trees.

B. Fill depressions caused by clearing and grubbing operations with satisfactory soil material in accordance with Division 31 Section “Earthmoving”, unless further excavation or earthwork is indicated.

3.5 TOPSOIL STRIPPING

A. Remove sod and grass before stripping topsoil.

B. Strip topsoil to whatever depths are encountered in a manner to prevent intermingling with underlying subsoil or other waste materials.

1. Strip surface soil of unsuitable topsoil, including trash, debris, weeds, roots, and other waste materials.

C. Remove topsoil materials from the project site. Stripped material is NOT to be reused on site.

3.6 SITE IMPROVEMENTS

A. Remove existing above- and below-grade improvements as indicated and as necessary to facilitate new construction. Removal of improvements includes removal of backfill for such improvements below new foundations or new building structures.

B. Remove slabs, paving, curbs, gutters, and aggregate base as indicated.

1. Unless existing full-depth joints coincide with line of demolition, neatly saw-cut length of existing pavement to remain before removing existing pavement. Saw-cut faces vertically.

3.7 DISPOSAL

A. Disposal: Remove surplus soil material, topsoil, obstructions, demolished materials, and waste materials, including trash and debris, and legally dispose of them off Owner's property.

END OF SECTION 31 10 00
SECTION 31 20 00

EARTHMOVING

PART 1 – GENERAL

1.1 SUMMARY

A. This Section includes the following:
   1. Preparing subgrades for slabs-on-grade, walks, pavements, lawns, and plantings.
   2. Subbase course for concrete walks and pavements.
   3. Base course for asphalt paving.
   4. Subsurface drainage backfill for walls and trenches.
   5. Excavating and backfilling trenches for buried mechanical and electrical utilities and pits for buried utility structures.

1.2 DEFINITIONS

A. Base Course: Layer placed between the subbase course and asphalt paving.
B. Bedding Course: Layer placed over the excavated subgrade in a trench before laying pipe.
C. Borrow: Satisfactory soil imported from off-site for use as fill or backfill.
D. Drainage Course: Layer supporting slab-on-grade used to minimize capillary flow of pore water.
E. Excavation: Removal of material encountered above subgrade elevations.
   1. Additional Excavation: Excavation below subgrade elevations as directed by Architect. Additional excavation and replacement material will be paid for according to Contract provisions for changes in the Work.
   2. Bulk Excavation: Excavations more than 10 feet in width and pits more than 30 feet in either length or width.
   3. Unauthorized Excavation: Excavation below subgrade elevations or beyond indicated dimensions without direction by Architect. Unauthorized excavation, as well as remedial work directed by Architect, shall be without additional compensation.
F. Fill: Soil materials used to raise existing grades.
G. Subgrade: Surface or elevation remaining after completing excavation, or top surface of a fill or backfill immediately below subbase, drainage fill, or topsoil materials.
H. Utilities include on-site underground pipes, conduits, ducts, and cables, as well as underground services within buildings.

1.3 SUBMITTALS

A. Product Data: For the following:
   1. Each type of plastic warning tape.

B. Samples: For the following:
   1. 30-lb samples, sealed in airtight containers, of each proposed soil material from on-site or borrow sources.

C. Material Test Reports: From a qualified testing agency indicating and interpreting test results for compliance of the following with requirements indicated:
   1. Classification according to ASTM D 2487 of each on-site or borrow soil material proposed for fill and backfill.
   2. Laboratory compaction curve according to ASTM D 698 for each on-site or borrow soil material proposed for fill and backfill.
   3. Laboratory compaction curve according to ASTM D 1557 for each on-site or borrow soil material proposed for fill and backfill.

1.4 QUALITY ASSURANCE

A. Geotechnical Testing Agency Qualifications: An independent testing agency qualified according to ASTM E 329 to conduct soil materials and rock-definition testing, as documented according to ASTM D 3740 and ASTM E 548.

B. Codes and Standards: Perform earthwork complying with requirements of authorities having jurisdiction, including but not limited to the following:
   1. Materials, workmanship, and other applicable requirements of the “Standard Specifications for State Road and Bridge Construction,” Washington State Department of Transportation, latest addition.

1.5 PROJECT CONDITIONS

A. Existing Utilities: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted in writing by Architect and then only after arranging to provide temporary utility services according to requirements indicated:
   1. Notify Architect not less than two days in advance of proposed utility interruptions.
   2. Do not proceed with utility interruptions without Architect's written permission.

B. Demolish and completely remove from site existing underground utilities indicated to be removed. Coordinate with utility companies to shut off services if lines are active.
PART 2 – PRODUCTS

2.1 SOIL MATERIALS

A. General: Provide borrow soil materials when sufficient satisfactory soil materials are not available from excavations.

B. Satisfactory Soils: ASTM D 2487 soil classification groups GW, GP, GM, SW, SP, and SM, or a combination of these group symbols; free of rock or gravel larger than 4 inches in any dimension, debris, waste, frozen materials, vegetation, and other deleterious matter.

C. Unsatisfactory Soils: ASTM D 2487 soil classification groups GC, SC, ML, MH, CL, CH, OL, OH, and PT, or a combination of these group symbols.

D. Backfill and Fill: Satisfactory soil materials.

E. Top Course Material:
   1. At Asphalt Concrete Paving and Portland Cement Concrete Walks and Exterior Slabs: Top course (3/4” minus) per Washington State Department of Transportation Standard Specification, paragraph 9-03.9(3).

F. Imported Structural Fill: Base course (1-1/4” minus) per Washington State Department of Transportation Standard Specification, paragraph 9-03.9(3).

G. Bedding: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D 2940; except with 100 percent passing a 3/8-inch sieve and not more than 8 percent passing a No. 200 sieve.

H. Drainage Fill: Washed, narrowly graded mixture of crushed stone, or crushed or uncrushed gravel; ASTM D 448; coarse-aggregate grading Size 5 7; with 100 percent passing a 1-1/2-inch sieve and 0 to 5 percent passing a No. 8 sieve.

I. Impervious Fill: Clayey gravel and sand mixture capable of compacting to a dense state.

2.2 ACCESSORIES

A. Detectable Warning Tape: Acid- and alkali-resistant polyethylene film warning tape manufactured for marking and identifying underground utilities, minimum 6 inches wide and 4 mils thick, continuously inscribed with a description of utility, with metallic core encased in a protective jacket for corrosion protection, detectable by metal detector when tape is buried up to 30 inches deep; colored as follows:
   2. Yellow: Gas, oil, steam, and dangerous materials.
   3. Orange: Telephone and other communications.
   4. Blue: Water systems.
   5. Green: Sewer systems.
B. **Drainage Fabric**: Nonwoven needle-punched geotextile, manufactured for subsurface drainage applications, made from polyolefins or polyesters; with elongation greater than 50 percent; complying with Section 9-33.2(1) Table 2 of the WSDOT Standard Specifications.

C. **Separation Fabric**: Woven geotextile fabric, manufactured for separation applications, made from polyolefins or polyesters; with elongation less than 50 percent; complying with Section 9-33.2(1) Table 3 of the WSDOT Standard Specifications.

### PART 3 – EXECUTION

#### 3.1 PREPARATION

A. Protect structures, utilities, sidewalks, pavements, and other facilities from damage caused by settlement, lateral movement, undermining, washout, and other hazards created by earthwork operations.

B. Protect subgrades and foundation soils against freezing temperatures or frost. Provide protective insulating materials as necessary.

C. Provide erosion-control measures to prevent erosion or displacement of soils and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways.

#### 3.2 EXCAVATION, GENERAL

A. Unclassified Excavation: Excavation to subgrade elevations regardless of the character of surface and subsurface conditions encountered, including rock, soil materials, and obstructions.

1. If excavated materials intended for fill and backfill include unsatisfactory soil materials and rock, replace with satisfactory soil materials.

#### 3.3 EXCAVATION FOR STRUCTURES

A. Excavate to indicated elevations and dimensions within a tolerance of plus or minus 0.10 foot. Extend excavations a sufficient distance from structures for placing and removing concrete formwork, for installing services and other construction, and for inspections.

#### 3.4 EXCAVATION FOR WALKS AND PAVEMENTS

A. Excavate surfaces under walks and pavements to indicated cross sections, elevations, and grades.

#### 3.5 EXCAVATION FOR UTILITY TRENCHES

A. Excavate trenches to indicated gradients, lines, depths, and elevations.

1. Beyond building perimeter, excavate trenches to allow installation of top of pipe below frost line.

B. Excavate trenches to uniform widths to provide a working clearance on each side of pipe or conduit. Excavate trench walls vertically from trench bottom to 12 inches higher than top of pipe or conduit, unless otherwise indicated.
C. Trench Bottoms: Excavate and shape trench bottoms to provide uniform bearing and support of pipes and conduit. Shape subgrade to provide continuous support for bells, joints, and barrels of pipes and for joints, fittings, and bodies of conduits. Remove projecting stones and sharp objects along trench subgrade.

1. For pipes and conduit less than 6 inches in nominal diameter and flat-bottomed, multiple-duct conduit units, hand-excavate trench bottoms and support pipe and conduit on an undisturbed subgrade.

2. For pipes and conduit 6 inches or larger in nominal diameter, shape bottom of trench to support bottom 90 degrees of pipe circumference. Fill depressions with tamped sand backfill.

3.6 APPROVAL OF SUBGRADE

A. Notify Architect when excavations have reached required subgrade.

B. If Architect determines that unsatisfactory soil is present, continue excavation and replace with compacted backfill or fill material as directed.

1. Additional excavation and replacement material will be paid for according to Contract provisions for changes in the Work.

C. Proof roll subgrade with heavy pneumatic-tired equipment to identify soft pockets and areas of excess yielding. Do not proof roll wet or saturated subgrades.

D. Reconstruct subgrades damaged by freezing temperatures, frost, rain, accumulated water, or construction activities, as directed by Architect.

3.7 UNAUTHORIZED EXCAVATION

A. Fill unauthorized excavation under foundations or wall footings by extending bottom elevation of concrete foundation or footing to excavation bottom, without altering top elevation. Lean concrete fill may be used when approved by Architect.

1. Fill unauthorized excavations under other construction or utility pipe as directed by Architect.

3.8 STORAGE OF SOIL MATERIALS

A. Stockpile borrow materials and satisfactory excavated soil materials. Stockpile soil materials without intermixing. Place, grade, and shape stockpiles to drain surface water. Cover to prevent windblown dust.

B. Stockpile soil materials away from edge of excavations. Do not store within drip line of remaining trees.

3.9 BACKFILL

A. Place and compact backfill in excavations promptly, but not before completing the following:

1. Construction below finish grade including, where applicable, dampproofing, waterproofing, and perimeter insulation.
2. Surveying locations of underground utilities for record documents.

3. Inspecting and testing underground utilities.

4. Removing concrete formwork.

5. Removing trash and debris.

6. Removing temporary shoring and bracing, and sheeting.

7. Installing permanent or temporary horizontal bracing on horizontally supported walls.

3.10 UTILITY TRENCH BACKFILL

A. Place and compact bedding course on trench bottoms and where indicated. Shape bedding course to provide continuous support for bells, joints, and barrels of pipes and for joints, fittings, and bodies of conduits.

B. Backfill trenches excavated under footings and within 18 inches of bottom of footings; fill with concrete to elevation of bottom of footings.

C. Place and compact initial backfill of bedding material to a height of 12 inches over the utility pipe or conduit.

1. Carefully compact material under pipe haunches and bring backfill evenly up on both sides and along the full length of utility piping or conduit to avoid damage or displacement of utility system.

D. Coordinate backfilling with utilities testing.

E. Fill voids with approved backfill materials while shoring and bracing, and as sheeting is removed.

F. Place and compact final backfill of satisfactory soil material to final subgrade.

G. Install warning tape directly above utilities as indicated on the plans.

3.11 FILL

A. Preparation: Remove vegetation, topsoil, debris, unsatisfactory soil materials, obstructions, and deleterious materials from ground surface before placing fills.

B. Plow, scarify, bench, or break up sloped surfaces steeper than 1 vertical to 4 horizontal so fill material will bond with existing material.

C. Place and compact fill material in layers to required elevations as follows:

1. Under grass and planted areas, use satisfactory soil material.

2. Under walks and pavements, use satisfactory soil material.

3. Under steps and ramps, use structural fill.

4. Under building slabs, use satisfactory soil followed by drainage fill.
5. Under footings and foundations, use structural fill.

3.12 MOISTURE CONTROL

A. Uniformly moisten or aerate subgrade and each subsequent fill or backfill layer before compaction to within 2 percent of optimum moisture content.

1. Do not place backfill or fill material on surfaces that are muddy, frozen, or contain frost or ice.

2. Remove and replace, or scarify and air-dry, otherwise satisfactory soil material that exceeds optimum moisture content by 2 percent and is too wet to compact to specified dry unit weight.

3.13 COMPACTION OF BACKFILLS AND FILLS

A. Place backfill and fill materials in layers not more than 8 inches in loose depth for material compacted by heavy compaction equipment, and not more than 4 inches in loose depth for material compacted by hand-operated tampers.

B. Place backfill and fill materials evenly on all sides of structures to required elevations, and uniformly along the full length of each structure.

C. Compact soil to not less than the following percentages of maximum dry unit weight according to ASTM D 1557:

1. Imported Structural Gravel Fill: 95 percent
2. Footing Subgrade: 95 percent
3. Pavement Subgrade: 95 percent
4. Pavement Aggregate Base: 95 percent
5. Asphalt Pavement: 91 percent
6. Under lawn or unpaved areas, scarify and recompact top 12 inches below subgrade and compact each layer of backfill or fill material at 80 percent.

3.14 GRADING

A. General: Uniformly grade areas to a smooth surface, free from irregular surface changes. Comply with compaction requirements and grade to cross sections, lines, and elevations indicated.

1. Provide a smooth transition between adjacent existing grades and new grades.

2. Cut out soft spots, fill low spots, and trim high spots to comply with required surface tolerances.

B. Site Grading: Slope grades to direct water away from buildings and to prevent ponding. Finish subgrades to required elevations within the following tolerances:

1. Lawn or Unpaved Areas: Plus or minus 0.10 foot.
2. Walks: Plus or minus 0.10 foot.

3. Pavements: Plus or minus 1/2 inch.

3.15 SUBBASE AND BASE COURSES

A. Under pavements and walks, place top course on prepared subgrade and as follows:
   1. Place top course material over approved subgrade.
   2. Compact subgrade top courses at optimum moisture content to required grades, lines, cross sections, and thickness to not less than 95 percent of maximum dry unit weight according to ASTM D 1557.
   3. Shape subgrade and top course to required crown elevations and cross-slope grades.
   4. When thickness of compacted top course is 6 inches or less, place materials in a single layer.
   5. When thickness of compacted subbase or top course exceeds 6 inches, place materials in equal layers, with no layer more than 6 inches thick or less than 3 inches thick when compacted.

3.16 DRAINAGE COURSE

A. Under slabs-on-grade, place drainage course on prepared subgrade and as follows:
   1. Compact drainage course to required cross sections and thickness to not less than 95 percent of maximum dry unit weight according to ASTM D 698.
   2. When compacted thickness of drainage course is 6 inches or less, place materials in a single layer.

3.17 FIELD QUALITY CONTROL

A. Allow testing agency to inspect and test subgrades and each fill or backfill layer. Proceed with subsequent earthwork only after test results for previously completed work comply with requirements.

B. Footing Subgrade: At footing subgrades, at least one test of each soil stratum will be performed to verify design bearing capacities. Subsequent verification and approval of other footing subgrades may be based on a visual comparison of subgrade with tested subgrade when approved by Architect.

C. Testing agency will test compaction of soils in place in accordance with the requirements of the project geotechnical report. Tests will be performed at the following locations and frequencies:
   1. Paved Areas: At subgrade and at each compacted fill and backfill layer, at least one test for every 2000 sq. ft. or less of paved area or building slab, but in no case fewer than three tests.
   2. Trench Backfill: At each compacted initial and final backfill layer, at least one test for each 150 feet or less of trench length, but no fewer than two tests.
D. When testing agency reports that subgrades, fills, or backfills have not achieved degree of compaction specified, scarify and moisten or aerate, or remove and replace soil to depth required; recompact and retest until specified compaction is obtained.

3.18 PROTECTION

A. Protecting Graded Areas: Protect newly graded areas from traffic, freezing, and erosion. Keep free of trash and debris.

B. Repair and reestablish grades to specified tolerances where completed or partially completed surfaces become eroded, rutted, settled, or where they lose compaction due to subsequent construction operations or weather conditions.

1. Scarify or remove and replace soil material to depth as directed by Architect; reshape and recompact.

C. Where settling occurs before Project correction period elapses, remove finished surfacing, backfill with additional soil material, compact, and reconstruct surfacing.

1. Restore appearance, quality, and condition of finished surfacing to match adjacent work, and eliminate evidence of restoration to the greatest extent possible.

3.19 DISPOSAL OF SURPLUS AND WASTE MATERIALS

A. Disposal: Remove surplus satisfactory soil and waste material, including unsatisfactory soil, trash, and debris, and legally dispose of it off Owner's property.

END OF SECTION 31 20 00
PART 1 - GENERAL

1.1 RELATED DOCUMENTS
A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY
A. This Section includes the following:
   1. Hot-mix asphalt paving.
   2. Hot-mix asphalt patching.
   3. Pavement-marking paint
   4. Precast wheel stops
B. Related Sections include the following:
   1. Division 31, Section 31 20 00 "Earthmoving" for aggregate subbase and base courses.

1.3 SYSTEM DESCRIPTION
A. Provide hot-mix asphalt pavement according to the materials, workmanship, and other applicable requirements of the latest edition of "Standard Specifications for Road, Bridge and Municipal Construction" as promulgated jointly by the Washington State Department of Transportation, the American Public Works Association.

1.4 SUBMITTALS
A. Product Data: For each product specified. Include technical data and tested physical and performance properties.
B. Job-Mix Designs: Certification, by authorities having jurisdiction, of approval of each job mix proposed for the Work. Submit mix design to Engineer at least 10 days prior to paving.
C. Material Certificates: Certificates signed by manufacturers certifying that each material complies with requirements.

1.5 QUALITY ASSURANCE
A. Installer Qualifications: Engage an experienced installer who has completed hot-mix asphalt paving similar in material, design, and extent to that indicated for this Project and with a record of successful in-service performance.
B. Manufacturer Qualifications: Engage a firm experienced in manufacturing hot-mix asphalt similar to that indicated for this Project and with a record of successful in-service performance.
   1. Firm shall be a registered and approved paving mix manufacturer with WSDOT.
C. Regulatory Requirements: Conform to applicable standards of authorities having jurisdiction for asphalt paving work on public properties.
1.6 DELIVERY, STORAGE, AND HANDLING

A. Deliver pavement-marking materials to Project site in original packages with seals unbroken and bearing manufacturer's labels containing brand name and type of material, date of manufacture, and directions for storage.

B. Store pavement-marking materials in a clean, dry, protected location and within temperature range required by manufacturer. Protect stored materials from direct sunlight.

1.7 PROJECT CONDITIONS

A. Environmental Limitations: Do not apply asphalt materials if substrate is wet or excessively damp or if the requirements of WSDOT are not met:

B. Pavement-Marking Paint: Proceed with pavement marking only on clean, dry surfaces and at a minimum ambient or surface temperature of 40 deg F for oil-based materials, 50 deg F for water-based materials, and not exceeding 95 deg F.

PART 2 - PRODUCTS

2.1 AGGREGATES

A. General: Use materials and gradations in accordance with WSDOT Standard Specifications 9-03.8.

2.2 ASPHALT MATERIALS


B. Tack Coat: Meeting with WSDOT Standard Specification 5-04(5)A.

C. Water: Potable.

2.3 AUXILIARY MATERIALS

A. Herbicide: Commercial chemical for weed control, registered by Environmental Protection Agency (EPA). Provide granular, liquid, or wettable powder form.

B. Sand: ASTM D 1073, Grade Nos. 2 or 3.

C. Pavement Markings: Alkyd-resin type, ready mixed, complying with AASHTO M-248, Type N.  
   1. Color:
      a. ADA Striping: Blue
      b. General Parking Lot Striping: White or as indicated.

D. Wheel Stops: Precast, air-entrained concrete, 2500-psi minimum compressive strength, 4-1/2 inches high by 9 inches wide by 72 inches long. Provide chamfered corners, drainage slots on underside, and holes for anchoring to substrate.
   1. Dowels: Galvanized steel, 3/4-inch diameter, 10-inch minimum length.
2.4 MIXES

A. Hot-Mix Asphalt: Meeting with WSDOT Standard Specifications for HMA Class ½ with less then 0.3 M ESALs.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify that subgrade is dry and in suitable condition to support paving and imposed loads.
B. Proof-roll base course using heavy, pneumatic-tired rollers to locate areas that are unstable or that require further compaction.
C. Notify Engineer in writing of any unsatisfactory conditions. Do not begin paving installation until these conditions have been satisfactorily corrected.

3.2 PATCHING AND REPAIRS

A. Patching: Saw cut perimeter of patch and excavate existing pavement section to sound base. Recompact new subgrade. Excavate rectangular or trapezoidal patches, extending 12 inches into adjacent sound pavement, unless otherwise indicated. Cut excavation faces vertically.

1. Tack coat faces of excavation and allow to cure before paving.
2. Partially fill excavation with dense-graded, hot-mix asphalt base mix and compact while still hot. Cover asphalt base course with compacted, hot-mix surface layer finished flush with adjacent surfaces.

B. Tack Coat: Apply uniformly to existing surfaces of previously constructed asphalt or portland cement concrete paving and to surfaces abutting or projecting into new, hot-mix asphalt pavement.

1. Allow tack coat to cure undisturbed before paving.
2. Avoid smearing or staining adjoining surfaces, appurtenances, and surroundings. Remove spillages and clean affected surfaces.

3.3 SURFACE PREPARATION

A. General: Immediately before placing asphalt materials, remove loose and deleterious material from substrate surfaces. Ensure that prepared subgrade is ready to receive paving.

1. Sweep loose granular particles from surface of unbound-aggregate base course. Do not dislodge or disturb aggregate embedded in compacted surface of base course.

3.4 HOT-MIX ASPHALT PLACING

A. Machine place hot-mix asphalt mix on prepared surface, spread uniformly, and strike off. Place asphalt mix by hand to areas inaccessible to equipment in a manner that prevents segregation of mix. Place each course to required grade, cross section, and thickness, when compacted.

1. Place hot-mix asphalt base course in single lift.
2. Place hot-mix asphalt surface course in single lift.
3. Regulate paver machine speed to obtain smooth, continuous surface free of pulls and tears in asphalt-paving mat.
4. Spread mix at temperature sufficient to maintain compaction temperature range per submitted mix design.

B. Place paving in consecutive strips not less than 10 feet wide, except where infill edge strips of a lesser width are required.

1. After first strip has been placed and rolled, place succeeding strips and extend rolling to overlap previous strips. Complete asphalt base course for a section before placing asphalt surface course.

C. Promptly correct surface irregularities in paving course behind paver. Use suitable hand tools to remove excess material forming high spots. Fill depressions with hot-mix asphalt to prevent segregation of mix; use suitable hand tools to smooth surface.

3.5 JOINTS

A. Construct joints to ensure continuous bond between adjoining paving sections. Construct joints free of depressions with same texture and smoothness as other sections of hot-mix asphalt course.

1. Clean contact surfaces and apply tack coat.
2. Offset longitudinal joints in successive courses a minimum of 6 inches.
3. Offset transverse joints in successive courses a minimum of 24 inches.
4. Construct transverse joints by bulkhead method or sawed vertical face method.
5. Compact joints as soon as hot-mix asphalt will bear roller weight without excessive displacement.

3.6 COMPACTION

A. General: Begin compaction as soon as placed hot-mix paving will bear roller weight without excessive displacement. Compact hot-mix paving with hot, hand tampers or vibratory-plate compactors in areas inaccessible to rollers.

B. Breakdown Rolling: Accomplish breakdown or initial rolling immediately after rolling joints and outside edge. Examine surface immediately after breakdown rolling for indicated crown, grade, and smoothness. Repair surfaces by loosening displaced material, filling with hot-mix asphalt, and rerolling to required elevations.

C. Intermediate Rolling: Begin intermediate rolling immediately after breakdown rolling, while hot-mix asphalt is still hot enough to achieve 91% of reference maximum theoretical density in accordance with section 5-04.3(10) of the WSDOT specifications. Continue rolling until hot-mix asphalt course has been uniformly compacted to the required density.

D. Finish Rolling: Finish roll paved surfaces to remove roller marks while hot-mix asphalt is still warm.

E. Edge Shaping: While surface is being compacted and finished, trim edges of pavement to proper alignment. Bevel edges while still hot, with back of rake or smooth iron. Compact thoroughly using tamper or other satisfactory method.

F. Repairs: Remove paved areas that are defective or contaminated with foreign materials. Remove paving course over area affected and replace with fresh, hot-mix asphalt. Compact by rolling to specified density and surface smoothness.

G. Protection: After final rolling, do not permit vehicular traffic on pavement until it has cooled and hardened.
3.7 PAVEMENT MARKING

A. Do not apply pavement-marking paint until layout, colors, and placement have been verified with Engineer.

B. Allow paving to age for 10 days before starting pavement marking.

C. Sweep and clean surface to eliminate loose material and dust.

D. Apply paint with mechanical equipment to produce pavement markings, of dimensions indicated, with uniform, straight edges. Apply at manufacturer’s recommended rates to provide a minimum wet film thickness of 15 mils.

3.8 WHEEL STOPS

A. Securely attach wheel stops to pavement with not less than two galvanized-steel dowels embedded at one-quarter to one-third points. Securely install dowels into pavement and bond to wheel stop. Recess head of dowel beneath top of wheel stop.

3.9 FIELD QUALITY CONTROL

A. Testing Agency: Owner will engage a qualified independent testing and inspecting agency to perform field tests and inspections and to prepare test reports.

   1. Testing agency will conduct and interpret tests and state in each report whether tested Work complies with or deviates from specified requirements.

B. Additional testing and inspecting, at Contractor’s expense, will be performed to determine compliance of replaced or additional work with specified requirements.

C. Surface Smoothness: Finished surface of each hot-mix asphalt course will be tested for compliance with smoothness tolerances.

D. In-Place Density: Testing agency will test in-place density in accordance with WSDOT Standard Specification 5-04.3(10).

E. Remove and replace or install additional hot-mix asphalt where test results or measurements indicate that it does not comply with specified requirements.

END OF SECTION 32 12 16
PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes exterior cement concrete pavement for the following:

1. Driveways.
2. Sidewalks
3. Curbs and gutters.

B. Related Sections include the following:

1. Division 31 Section "Earthmoving" for subgrade preparation, grading, and subbase course.

1.3 SUBMITTALS

A. Design Mixes: For each concrete pavement mix. Include alternate mix designs when characteristics of materials, project conditions, weather, test results, or other circumstances warrant adjustments.

1.4 QUALITY ASSURANCE

A. Installer Qualifications: An experienced installer who has completed pavement work similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.

B. Manufacturer Qualifications: Manufacturer of ready-mixed concrete products complying with ASTM C 94 requirements for production facilities and equipment.


PART 2 - PRODUCTS

2.1 FORMS

A. Form Materials: Plywood, metal, metal-framed plywood, or other approved panel-type materials to provide full-depth, continuous, straight, smooth exposed surfaces.

1. Use flexible or curved forms for curves of a radius 100 feet or less.

B. Form-Release Agent: Commercially formulated form-release agent that will not bond with, stain, or adversely affect concrete surfaces and will not impair subsequent treatments of concrete surfaces.
2.2 STEEL REINFORCEMENT

A. Reinforcement Bars: ASTM A 615/A 615M, Grade 60, deformed.

2.3 CONCRETE MATERIALS

A. General: Use the same brand and type of cementitious material from the same manufacturer throughout the Project.

B. Portland Cement: ASTM C 150, Type I or II.

C. Aggregate: ASTM C 33, uniformly graded, from a single source, with coarse aggregate as follows:
   1. Do not use fine or coarse aggregates containing substances that cause spalling.

D. Water: ASTM C 94.

2.4 ADMIXTURES

A. General: Admixtures certified by manufacturer to contain not more than 0.1 percent water-soluble chloride ions by mass of cement and to be compatible with other admixtures.


C. Water-Reducing Admixture: ASTM C 494, Type A.

D. High-Range, Water-Reducing Admixture: ASTM C 494, Type F.

E. Water-Reducing and Accelerating Admixture: ASTM C 494, Type E.

F. Water-Reducing and Retarding Admixture: ASTM C 494, Type D.

2.5 CURING MATERIALS

A. Absorptive Cover: AASHTO M 182, Class 2, burlap cloth made from jute or kenaf, weighing approximately 9 oz./sq. yd. dry.

B. Moisture-Retaining Cover: ASTM C 171, polyethylene film or white burlap-polyethylene sheet.

C. Water: Potable.

D. Evaporation Retarder: Waterborne, monomolecular film forming, manufactured for application to fresh concrete.

E. Clear Solvent-Borne Liquid-Membrane-Forming Curing Compound: ASTM C 309, Type 1, Class B.

F. Clear Waterborne Membrane-Forming Curing Compound: ASTM C 309, Type 1, Class B.

G. White Waterborne Membrane-Forming Curing Compound: ASTM C 309, Type 2, Class B.

H. Available Products: Subject to compliance with requirements.

2.6 RELATED MATERIALS

B. Bonding Agent: ASTM C 1059, Type II, non-redispersible, acrylic emulsion or styrene butadiene.

C. Epoxy Bonding Adhesive: ASTM C 881, two-component epoxy resin, capable of humid curing and bonding to damp surfaces, of class and grade to suit requirements.

2.7 CONCRETE MIXES

A. Prepare design mixes, proportioned according to ACI 211.1 and ACI 301, for each type and strength of normal-weight concrete determined by either laboratory trial mixes or field experience.

B. Use a qualified independent testing agency for preparing and reporting proposed mix designs for the trial batch method.

C. Proportion mixes to provide concrete with the following properties:

2. Slump Limit: 3 inches.

D. Add air-entraining admixture at manufacturer's prescribed rate to result in concrete at point of placement having an air content as follows within a tolerance of plus or minus 1.5 percent:

1. Air Content: 6.0 percent.

2.8 CONCRETE MIXING

A. Ready-Mixed Concrete: Comply with requirements and with ASTM C 94.

PART 3 - EXECUTION

3.1 PREPARATION

A. Proof-roll prepared subbase surface to check for unstable areas and verify need for additional compaction. Proceed with pavement only after nonconforming conditions have been corrected and subgrade is ready to receive pavement.

B. Remove loose material from compacted subbase surface immediately before placing concrete.

3.2 EDGE FORMS AND SCREED CONSTRUCTION

A. Set, brace, and secure edge forms, bulkheads, and intermediate screed guides for pavement to required lines, grades, and elevations. Install forms to allow continuous progress of work and so forms can remain in place at least 24 hours after concrete placement.

B. Clean forms after each use and coat with form release agent to ensure separation from concrete without damage.

3.3 STEEL REINFORCEMENT

A. General: Comply with CRSI's "Manual of Standard Practice" for fabricating reinforcement and with recommendations in CRSI's "Placing Reinforcing Bars" for placing and supporting reinforcement.

B. Clean reinforcement of loose rust and mill scale, earth, ice, or other bond-reducing materials.
C. Arrange, space, and securely tie bars and bar supports to hold reinforcement in position during concrete placement. Maintain minimum cover to reinforcement.

3.4 JOINTS

A. General: Construct construction, isolation, and contraction joints and tool edgings true to line with faces perpendicular to surface plane of concrete. Construct transverse joints at right angles to centerline, unless otherwise indicated.

B. Edging: Tool edges of pavement, gutters, curbs, and joints in concrete after initial floating with an edging tool to the following radius. Repeat tooling of edges after applying surface finishes. Eliminate tool marks on concrete surfaces.

3.5 CONCRETE PLACEMENT

A. Inspection: Before placing concrete, inspect and complete formwork installation, reinforcement steel, and items to be embedded or cast in. Notify other trades to permit installation of their work.

B. Moisten subbase to provide a uniform dampened condition at the time concrete is placed. Do not place concrete around manholes or other structures until they are at the required finish elevation and alignment.

C. Do not add water to concrete during delivery, at Project site, or during placement.

D. Deposit and spread concrete in a continuous operation between transverse joints. Do not push or drag concrete into place or use vibrators to move concrete into place.

E. Screed pavement surfaces with a straightedge and strike off. Commence initial floating using bull floats or darbies to form an open textured and uniform surface plane before excess moisture or bleed water appears on the surface. Do not further disturb concrete surfaces before beginning finishing operations or spreading dry-shake surface treatments.

F. Curbs and Gutters: When automatic machine placement is used for curb and gutter placement, submit revised mix design and laboratory test results that meet or exceed requirements. Produce curbs and gutters to required cross section, lines, grades, finish, and jointing as specified for formed concrete. If results are not approved, remove and replace with formed concrete.

3.6 CONCRETE FINISHING

A. General: Wetting of concrete surfaces during screeding, initial floating, or finishing operations is prohibited.

B. Float Finish: Begin the second floating operation when bleed-water sheen has disappeared and the concrete surface has stiffened sufficiently to permit operations. Float surface with power-driven floats, or by hand floating if area is small or inaccessible to power units. Finish surfaces to true planes. Cut down high spots, and fill low spots. Refloat surface immediately to uniform granular texture.

1. Medium-to-Fine-Textured Broom Finish: Draw a soft bristle broom across float-finished concrete surface perpendicular to line of traffic to provide a uniform, fine-line texture.

3.7 CONCRETE PROTECTION AND CURING

A. General: Protect freshly placed concrete from premature drying and excessive cold or hot temperatures. Comply with ACI 306.1 for cold-weather protection and follow recommendations in ACI 305R for hot-weather protection during curing.
B. Evaporation Retarder: Apply evaporation retarder to concrete surfaces if hot, dry, or windy conditions cause moisture loss approaching 0.2 lb/sq. ft. x h before and during finishing operations. Apply according to manufacturer's written instructions after placing, screeding, and bull floating or darbying concrete, but before float finishing.

C. Begin curing after finishing concrete, but not before free water has disappeared from concrete surface.

D. Curing Methods: Cure concrete by moisture curing, moisture-retaining-cover curing, curing compound, or a combination of these as follows:

1. Moisture Curing: Keep surfaces continuously moist for not less than seven days with the following materials:
   a. Water.
   b. Continuous water-fog spray.
   c. Absorptive cover, water saturated, and kept continuously wet. Cover concrete surfaces and edges with 12-inch lap over adjacent absorptive covers.

2. Moisture-Retaining-Cover Curing: Cover concrete surfaces with moisture-retaining cover for curing concrete, placed in widest practicable width, with sides and ends lapped at least 12 inches, and sealed by waterproof tape or adhesive. Immediately repair any holes or tears during curing period using cover material and waterproof tape.

3. Curing Compound: Apply uniformly in continuous operation by power spray or roller according to manufacturer's written instructions. Recoat areas subjected to heavy rainfall within three hours after initial application. Maintain continuity of coating and repair damage during curing period.

3.8 FIELD QUALITY CONTROL

A. Testing Agency: Owner will engage a qualified testing and inspection agency to sample materials, perform tests, and submit test reports during concrete placement. Sampling and testing for quality control may include those specified in this Article.

B. Additional Tests: Testing agency shall make additional tests of the concrete when test results indicate slump, air entrainment, concrete strengths, or other requirements have not been met, as directed by Engineer. Testing agency may conduct tests to determine adequacy of concrete by cored cylinders complying with ASTM C 42, or by other methods as directed.

3.9 REPAIRS AND PROTECTION

A. Remove and replace concrete pavement that is broken, damaged, or defective, or does not meet requirements in this Section.

B. Protect concrete from damage. Exclude traffic from pavement for at least 14 days after placement. When construction traffic is permitted, maintain pavement as clean as possible by removing surface stains and spillage of materials as they occur.

C. Maintain concrete pavement free of stains, discoloration, dirt, and other foreign material. Sweep concrete pavement not more than two days before date scheduled for Substantial Completion inspections.
SECTION 32 84 00

PLANTING IRRIGATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes piping, valves, sprinklers, quick couplers, specialties, controls, valve boxes, and wiring for automatic-control irrigation system.

1.3 DEFINITIONS

A. Circuit Piping: Downstream from control valves to sprinklers, specialties, and drain valves. Piping is under pressure during flow.
B. Irrigation Main Piping: Downstream from point of connection to water distribution piping to, and including, control valves. Piping is under water-distribution-system pressure.
C. The following are industry abbreviations for plastic materials: The following are industry abbreviations for plastic materials:
   - FRP: Fiberglass-reinforced plastic.
   - PA: Polyamide (nylon) plastic.
   - PE: Polyethylene plastic.
   - PP: Polypropylene plastic.
   - PTFE: Polytetrafluoroethylene plastic.
   - PVC: Polyvinyl chloride plastic.
   - TFE: Tetrafluoroethylene plastic.
D. Low Voltage: As defined in NFPA 70 for circuits and equipment operating at less than 50 V or for remote-control, signaling power-limited circuits.

1.4 PERFORMANCE REQUIREMENTS

A. Location of Sprinklers and Specialties: Design location is approximate. Make minor adjustments necessary to avoid plantings and obstructions such as signs and light standards. Maintain 100 percent water coverage of turf and planting areas indicated.
B. Irrigation zone control shall be automatic operation with controller and automatic control valves.
C. Contractor shall designate a project manager to be the sole source contact for coordinating the installation of this project with the Owner's representative.
D. Contractor shall retain and protect and/or repair all existing irrigation systems so that they remain unchanged after project completion. Existing landscape areas which have been injured by the work shall be graded and restored to original conditions.
E. Minimum Working Pressures: The following are minimum pressure requirements for piping, valves, and specialties, unless otherwise indicated:
   1. Irrigation Main Piping: 200 psig.
2. Circuit Piping: 200 psig.

1.5 SUBMITTALS

A. Product Data: Include pressure ratings, rated capacities, and settings of selected models for the following:

1. General-duty valves.
2. Specialty valves.
3. Automatic-control valves.
4. Vaults
5. Control-valve boxes.
7. Irrigation specialties.
9. Control cables. Include splice kits and conduit.
10. Field quality-control test reports.

B. The static line pressure at the point of connection to the existing irrigation mainline is assumed to be an adequate PSI. The contractor is responsible for verifying static, working pressure and flow. Contractor shall set all pressure regulation values at the appropriate levels to ensure proper pressure for the type of head.

C. Project Record Drawings: Contractor shall record all changes made during construction which deviate from design documents. Contractor shall provide dimensioned as built drawings for all equipment installed, to include actual locations (horizontal and vertical) of sleeves, control valves, and conduit wiring, at project completion.

D. Operation and Maintenance Data: Contractor shall provide complete documentation of the delivered system to include three (3) sets of manufacturer’s maintenance data sheets, replacement parts lists, equipment brochures and systems operations information bound in 3-ring binders. Composite data sheets shall have the specific product used on the project clearly identified in colored ink marking.

E. Controller Timing Schedule: Indicate timing settings for each automatic controller zone.

1.6 QUALITY ASSURANCE

A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.

B. All material utilized in the work shall be new, of the latest make/model currently in production, and shall be of a type specifically manufactured for the use intended.

C. Contractor shall provide products and system installation in accordance with all local, municipal, and state laws, rules and regulations governing or relating to any work in this section.

1.7 DELIVERY, STORAGE, AND HANDLING
A. Deliver piping with factory-applied end caps. Maintain end caps through shipping, storage, and handling to prevent pipe-end damage and to prevent entrance of dirt, debris, and moisture.

B. Store plastic piping protected from direct sunlight. Support to prevent sagging and bending.

C. Stockpiling of materials and piping onsite is prohibited. Materials and piping brought to the project site shall be laid out and installed and shall not reach heights greater than 3 feet.

1.8 PROJECT CONDITIONS

A. Interruption of Existing Water Service: Do not interrupt water service to facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary water service according to requirements indicated:

   1. Notify Owner no fewer than 3 days in advance of proposed interruption of water service.

   2. Do not proceed with interruption of water service without Owner's written permission.

1.9 EXTRA MATERIALS

A. Furnish extra materials described below that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

B. Sprinkler Units: Equal to 10 percent of amount installed for each type and size indicated, but no fewer than 4 units.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. In other Part 2 articles where titles below introduce lists, the following requirements apply to product selection:

B. Manufacturers: Subject to compliance with requirements, provide products by one of the manufacturers specified.

2.2 PIPES, TUBES, AND FITTINGS

A. All mainline change of direction fittings shall be reinforced with thrust blocks.

B. Plastic pipe shall be rigid unplasticized PVC Schedule 40 as indicated on the drawings conforming to ASTM D-1784 and D-2241 standards specifications for PVC plastic pipe. The pipe shall be homogenous throughout and free from visible cracks, holes, foreign materials, blister, deleterious, wrinkles, and dents.

C. All pipe shall be continuously and permanently marked with the following information:

   1. Manufacturer's name or trademark, size, schedule and type of pipe, working pressure at 73 degrees F. and National Sanitation Foundation (NSF) approval.

D. All plastic pipe fittings to be installed shall be molded fittings manufactured of the same material as the pipe and shall be suitable for solvent weld, slip joint ring tight seal, or screwed connections.
E. When connection is plastic to metal, plastic female adapters shall be used. The female adapter shall be hand tightened, plus one turn with a strap wrench. Joint compound shall be Teflon Tape or Water Based Teflon Paste.
F. Steel Pipe: ASTM A 53/A 53M, Schedule 40, Type S or E, Grade A or B, galvanized with threaded ends.
H. Gray-Iron Threaded Fittings: ASME B16.4, Class 125, galvanized, standard pattern.
I. Glands, Gaskets, and Bolts: AWWA C111, ductile- or gray-iron glands, rubber gaskets, and steel bolts.
J. Gaskets: AWWA C111, rubber.
N. PVC Socket Fittings, Schedule 80: ASTM D 2467.
O. PVC Threaded Fittings: ASTM D 2464.
Q. PVC Socket Fittings, Schedule 80: ASTM D 2467.
R. AWWA C900 Distribution Pipe (Gasketed): ASTM 1784, Gasket ASTM F 477, Pressure Class 150, DR 18.

2.3 JOINING MATERIALS
A. Glued fittings for circuit piping. Follow Manufacturer's instructions for cementing PVC pipe.
B. For PVC pipe cement use WELD-ON plastic pipe cement, P75 Wet/Dry for PVC gray, heavy bodied, medium set.
C. Primer: Weld-on primer, P-75 Wet/Dry, purple primer.

2.4 AUTOMATIC VALVES
A. Globe Valve with pressure regulating module
   B. Manufacturers:
      a. PEB Series as manufactured by Rainbird Corporation.

2.5 GENERAL-DUTY VALVES
A. Gate Valves: Non-Rising Stem, solid disc wedge, threaded end connections, WGV-X
   B. Manufacturers:

2.6 SPECIALITY VALVES
A. Quick-Coupling Valves: Factory-fabricated, bronze or brass, two-piece assembly. Include coupler water-seal valve; removable upper body with spring-loaded or weighted, rubber-covered cap; hose swivel with ASME B1.20.7, 3/4-11.5NH threads for garden hose on outlet; and operating key.
   B. Manufacturers:
      a. Rain Bird Sprinkler Mfg. Corp. – 44NP.

2.7 VALVE BOXES
A. To be Carson #1419-12 green plastic w/bolt down lid (purple lid for non-potable water) for electric remote control valves, quick coupling valves, gate valves, manual drain valves, and air release valves. For valve boxes located in paved areas: 'Brocks' #36-
HMB concrete valve boxes with cast iron locking cover shall be used with non-potable water designation.

B. Manufacturers:
   a. Oldcastle Enclosure Solutions

2.8 SPRINKLER ROTOR

A. Description: Plastic housing and corrosion and vandal-resistant parts designed for uniform coverage over entire spray area indicated, at available water pressure.

B. Pop-up, Rotor Sprinklers: Gear drive, full-circle and part-circle types.
   a. 'PGP-ADJ Series as manufactured by Hunter Industries.

2.9 SPRINKLER SPRAY HEAD

A. Sprays: 'Rainbird' 1800 Series. Nozzle as indicated on drawings.

2.10 AUTOMATIC-CONTROL SYSTEM (2 – WIRE SYSTEM)

A. Existing Controller: Irritrol Dial 36 station electronic controller

B. Control Wire: 24 volt solid wire, UF No. 14 AWG minimum, UL approved for direct burial in ground. No. 14 wire for up to 1000' and No. 12 wire above 1000' length. Use color for lead and white for common. Exposed control wire to the controller shall only be placed in Electrical Metallic Tubing (EMT) conduit for interior building locations and PVC pipe for exterior building locations.

C. Splicing Materials: Manufacturer's packaged kit consisting of insulating, spring-type connector or crimped joint and epoxy resin moisture seal; suitable for direct burial.
   a. 3M - model #DBY.

PART 3 - EXECUTION

3.1 EARTHWORK

A. Refer to Specification Section 31 20 00 "Earthmoving" for excavating, trenching, and backfilling.

B. Install warning tape directly above pressure piping, 12 inches below finished grades, except 6 inches below subgrade under pavement and slabs.

C. Install piping and wiring in sleeves under sidewalks, roadways, parking lots, and railroads.

D. Install piping sleeves by boring or jacking under existing paving if possible.

E. Provide minimum cover over top of underground piping according to the following:

   F. Boring locations – Mainline, 36 inches.

   G. Irrigation Main Piping: 24 inches.

   H. Circuit Piping: 18 inches.

   I. Sleeves: 24 inches.

3.2 PREPARATION

A. Set stakes to identify locations of proposed irrigation system. Obtain Landscape Architect's approval before excavation.

3.3 PIPING APPLICATION
A. Install components having pressure rating equal to or greater than system operating pressure.
B. Piping in control-valve boxes and aboveground may be joined with flanges instead of joints indicated.
C. Underground Irrigation Main Piping: Use the following piping materials for each size range:
   1. NPS 4 (DN 100): Schedule 40, PVC pipe and gasketed fittings
D. Circuit Piping: Use the following piping materials for each size range:
   1. NPS 3 and Smaller: Schedule 40, PVC pipe and socket fittings; and solvent-cemented joints.
E. Underground Branches and Offsets at Sprinklers and Devices: Schedule 80, PVC pipe; threaded PVC fittings; and threaded joints.
F. Sleeves: Schedule 40, PVC pipe and socket fittings; and solvent-cemented joints.
G. Transition Fittings: Use transition fittings for plastic-to-metal pipe connections according to the following:
H. Couplings:
   a. Underground Piping NPS 1-1/2 and Smaller: Manufactured fitting or coupling.
I. Fittings:
   Underground Piping: Union with plastic end of same material as plastic piping.

3.4 VALVE APPLICATIONS

A. Underground, Shutoff-Duty Valves: Use the following:
   a. NPS 3 and Smaller: Bronze ball valve.
   b. NPS 4 and Larger: AWWA cast-iron resilient wedge gate valve with elastomeric gaskets and stem nut, valve box, and shutoff rod.
B. Control Valves:
   a. NPS 2 (DN 50) and Smaller: Plastic automatic control valve.

3.5 PIPING INSTALLATION

A. Location and Arrangement: Drawings indicate schematic location and arrangement of piping systems. Install piping as indicated unless deviations are approved on Coordination Drawings.
B. Install piping free of sags and bends.
C. Install groups of pipes parallel to each other spaced to permit valve servicing.
D. Install fittings for changes in direction and branch connections.
E. Lay piping on solid subbase, uniformly sloped without humps or depressions.
F. Install PVC piping in dry weather when temperature is above 40 deg F 5 deg C. Allow joints to cure at least 24 hours at temperatures above 40 deg F 5 deg C before testing unless otherwise recommended by manufacturer.

3.6 JOINT CONSTRUCTION

A. Mainline piping shall be glued connections with solvent weld.
B. Circuit piping shall be glued connections with solvent weld.
C. Swing joint nipples and heads shall have screwed connections per detail.

3.7 VALVE INSTALLATION

A. Underground Isolation and Quick Coupling Valves: Install in round valve box with top flush with grade.
3.8 SPRINKLER INSTALLATION
A. Flush circuit piping with full head of water and install sprinklers after hydrostatic test is completed.
B. Install sprinklers at manufacturer’s recommended heights.
C. Locate part-circle sprinklers to maintain a minimum distance of 2 inches from walls, asphalt pavement and other boundaries, unless otherwise indicated.

3.9 AUTOMATIC-CONTROL SYSTEM INSTALLATION
A. Install control cable in same trench as irrigation mainline piping beside piping. Provide conductors of size not smaller than recommended by controller manufacturer. Install cable in separate sleeve under paved areas if irrigation piping is installed in sleeve.

3.10 LABELING AND IDENTIFYING
A. Warning Tapes: Arrange for installation of continuous, underground, detectable warning tape over underground piping, during backfilling of trenches.

3.11 FIELD QUALITY CONTROL
A. Manufacturer’s Field Service: Engage a factory-authorized service representative to inspect, test, and adjust field-assembled components and equipment installation, including connections. Report results in writing.
B. Perform the following field tests and inspections and prepare test reports:
C. Pressure Test: After mainline installation, charge mainline to 100 PSI and test for leaks. Successful pressure test shall occur when the mainline holds pressure without losing 5 or more psi over a 2 hour period. Repair leaks and retest until mainline passes pressure test.
D. Operational Test: After electrical circuitry has been energized, operate controllers and automatic control valves to confirm proper system operation.
E. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.
F. Water Coverage Test: Prior to seeding and sodding, ensure 100% coverage of all grass areas is met by system.
G. Notify the Landscape Architect and the owner a minimum of 48 hours prior to testing.
H. Remove and replace units and retest as specified above.

3.12 STARTUP SERVICE
A. Verify that controllers are installed and connected according to the Contract Documents.
B. Verify that electrical wiring installation complies with manufacturer’s submittal and installation requirements in Division 16 Sections.
C. Complete startup checks according to manufacturer’s written instructions.
D. Coordinate start-up with the owner.
3.13 ADJUSTING

A. Adjust settings of controller.
B. Adjust automatic control valves to provide flow rate of rated operating pressure required for each sprinkler circuit.
C. Adjust sprinklers so they will be flush with finish grade.

3.14 CLEAN-UP

A. Contractor shall maintain cleanliness in all areas of this operation and shall remove all debris within the limits of work. Contractor shall remove from the project site all rubbish and debris resulting from this contract work, leaving site in a safe and clean condition on a day-to-day basis.

3.15 RECORD DRAWINGS AND DELIVERIES

A. Record accurately on one set of reproducible copies of the site plan provided by the Landscape Architect, all installed work including both pressure and non-pressure lines. Upon completion of each increment of work, transfer all such information and dimensions to the print. The dimensions shall be recorded in a legible and workmanlike manner.

B. Dimension from two permanent points of reference (buildings, monuments, sidewalks, curbs, pavement, etc.) Locations shown on as-built drawings shall be kept day to day as the project is being installed. All dimensions noted on drawings shall be 1/8 inch in size (minimum).

C. Show locations and depths of the following items:
   1. Point of connection
   2. Routing of sprinkler pressure lines (dimension maximum 100 feet along routing)
      1. Quick coupling valves
      2. Routing of control wires
      3. Other related equipment

D. Maintain as-built drawings on site at all times.

B. Make all notes on drawings in pencil (no ink pen).

C. Contractor shall preserve a set of approved contract drawings on which is to be placed exact measured dimensions of line runs, tee, valves, sprinkler locations, gate valves, wire runs. This work must be done daily. Requests for partial payments will not be honored without proof that these as-built drawings are totally up to date. All buried work shall be located by accurate measurements from at least two permanent structures.

D. Upon substantial completion of the project, the Contractor shall submit the drawings to the Landscape Architect, for review and approval. Upon approval, the Contractor shall prepare a set of ‘as-built’ reproducibles on which all the information is clearly shown, with drafting and legibility comparable to original drawings. The Owner’s Representative will be the sole judge of the acceptability of the drawings. The receipt and approval of these documents is prerequisite to Final Payment.

E. Surrender to Landscape Architect ‘as-built’ record drawings in AUTOCAD V13 and one paper hard copy prior to final inspection.
F. Contractor to provide (2) 11 x 17 colored coded and laminated drawings delineating irrigation zones placed next to irrigation controller.

G. Provide two (2) Quick Couple Valve Keys with hose swivel for installed Quick Couplers.

3.16 GUARANTEE

A. The entire irrigation and water system shall be guaranteed to give satisfactory service for a period of one year from date of acceptance by the Owner.

B. Should any trouble develop within the time specified above due to inferior or faulty materials or workmanship, the trouble shall be corrected by the Contractor at no expense to the Owner.

END OF SECTION 32 84 00
SECTION 32 92 00
TURF AND GRASSES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS
A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY
A. Section Includes:
   1. Sodding.
   2. Hydroseeding.
B. Related Requirements:
   1. Section 329113 "Soil Preparation" for topsoil amendments.

1.3 DEFINITIONS
A. Finish Grade: Elevation of finished surface of planting soil.
B. Pesticide: A substance or mixture intended for preventing, destroying, repelling, or mitigating a pest. Pesticides include insecticides, miticides, herbicides, fungicides, rodenticides, and molluscicides. They also includes substances or mixtures intended for use as a plant regulator, defoliants, or desiccants.
C. Pests: Living organisms that occur where they are not desired or that cause damage to plants, animals, or people. Pests include insects, mites, grubs, mollusks (snails and slugs), rodents (gophers, moles, and mice), unwanted plants (weeds), fungi, bacteria, and viruses.
D. Planting Soil: Existing, on-site soil; imported soil; or manufactured soil that has been modified with soil amendments and perhaps fertilizers to produce a soil mixture best for plant growth. See Section 329113 "Soil Preparation" and drawing designations for planting soils.
E. Subgrade: The surface or elevation of subsoil remaining after excavation is complete, or the top surface of a fill or backfill before planting soil is placed.

1.4 PREINSTALLATION MEETINGS
A. Preinstallation Conference: Conduct conference at Project site.
1.5 INFORMATIONAL SUBMITTALS

A. Qualification Data: For landscape Installer.

B. Certification of Grass Seed: From seed vendor for each grass-seed monostand or mixture, stating the botanical and common name, percentage by weight of each species and variety, and percentage of purity, germination, and weed seed. Include the year of production and date of packaging.

1. Certification of each seed mixture for turfgrass sod. Include identification of source and name and telephone number of supplier.

C. Product Certificates: For fertilizers, from manufacturer.

D. Pesticides and Herbicides: Product label and manufacturer's application instructions specific to Project.

1.6 CLOSEOUT SUBMITTALS

A. Maintenance Data: Recommended procedures to be established by Owner for maintenance of turf during a calendar year. Submit before expiration of required maintenance periods.

1.7 QUALITY ASSURANCE

A. Installer Qualifications: A qualified landscape installer whose work has resulted in successful turf establishment.

1. Professional Membership: Installer shall be a member in good standing of either the Professional Landcare Network or the American Nursery and Landscape Association.

2. Experience: Five years’ experience in turf installation in addition to requirements in Section 014500 "Quality Control."

3. Installer's Field Supervision: Require Installer to maintain an experienced full-time supervisor on Project site when work is in progress.

4. Personnel Certifications: Installer's field supervisor shall have certification in one of the following categories from the Professional Landcare Network:

   a. Landscape Industry Certified Technician - Exterior.

   b. Landscape Industry Certified Lawncare Manager.

   c. Landscape Industry Certified Lawncare Technician.

5. Pesticide Applicator: State licensed, commercial.

1.8 DELIVERY, STORAGE, AND HANDLING

A. Sod: Harvest, deliver, store, and handle sod according to requirements in "Specifications for Turfgrass Sod Materials" and "Specifications for Turfgrass Sod Transplanting and Installation" sections in TPI's "Guideline Specifications to Turfgrass Sodding." Deliver sod within 24 hours of harvesting and in time for planting promptly. Protect sod from breakage and drying.

B. Bulk Materials:
1. Do not dump or store bulk materials near structures, utilities, walkways and pavements, or on existing turf areas or plants.
2. Provide erosion-control measures to prevent erosion or displacement of bulk materials; discharge of soil-bearing water runoff; and airborne dust reaching adjacent properties, water conveyance systems, or walkways.
3. Accompany each delivery of bulk materials with appropriate certificates.

1.9 FIELD CONDITIONS

A. Planting Restrictions: Plant during the following period. Coordinate planting periods with initial maintenance periods to provide required maintenance from date of Substantial Completion.

1. Summer Planting: By August 25, 2020
2. Immediately start maintenance after planting to allow a minimum of 3 weeks for grass to nit into topsoil prior to owner use.

B. Weather Limitations: Proceed with planting only when existing and forecasted weather conditions permit planting to be performed when beneficial and optimum results may be obtained. Apply products during favorable weather conditions according to manufacturer's written instructions.

PART 2 - PRODUCTS

2.1 TURFGRASS SOD

A. Turfgrass Sod: Approved complying with "Specifications for Turfgrass Sod Materials" in TPI's "Guideline Specifications to Turfgrass Sodding." Furnish viable sod of uniform density, color, and texture that is strongly rooted and capable of vigorous growth and development when planted.

B. Turfgrass Species: Kentucky Bluegrass/Perennial ryegrass sod blend

C. Turfgrass Species: Sod of grass species as follows, with not less than 85 percent germination, not less than 95 percent pure seed, and not more than 0.5 percent weed seed:

2.2 FERTILIZERS

A. Commercial Fertilizer: Commercial-grade complete fertilizer of neutral character, consisting of fast- and slow-release nitrogen, 50 percent derived from natural organic sources of urea formaldehyde, phosphorous, and potassium in the following composition:

1. Composition: Nitrogen, phosphorous, and potassium in amounts recommended in soil reports from a qualified soil-testing laboratory.

2.3 PESTICIDES

A. General: Pesticide, registered and approved by the EPA, acceptable to authorities having jurisdiction, and of type recommended by manufacturer for each specific problem and as
required for Project conditions and application. Do not use restricted pesticides unless authorized in writing by authorities having jurisdiction.

B. Pre-Emergent Herbicide (Selective and Nonselective): Effective for controlling the germination or growth of weeds within planted areas at the soil level directly below the mulch layer.

C. Post-Emergent Herbicide (Selective and Nonselective): Effective for controlling weed growth that has already germinated.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine areas to be planted for compliance with requirements and other conditions affecting installation and performance of the Work.

1. Verify that no foreign or deleterious material or liquid such as paint, paint washout, concrete slurry, concrete layers or chunks, cement, plaster, oils, gasoline, diesel fuel, paint thinner, turpentine, tar, roofing compound, or acid has been deposited in soil within a planting area.

2. Suspend planting operations during periods of excessive soil moisture until the moisture content reaches acceptable levels to attain the required results.

3. Uniformly moisten excessively dry soil that is not workable or which is dusty.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

C. If contamination by foreign or deleterious material or liquid is present in soil within a planting area, remove the soil and contamination as directed by Architect and replace with new planting soil.

3.2 PREPARATION

A. Protect structures; utilities; sidewalks; pavements; and other facilities, trees, shrubs, and plantings from damage caused by planting operations.

1. Protect grade stakes set by others until directed to remove them.

3.3 TURF AREA PREPARATION

A. General: Prepare planting area for soil placement and mix planting soil according to Section 329113 "Soil Preparation.

B. Placing Planting Soil: Place and mix planting soil in place over exposed subgrade.

C. Moisten prepared area before planting if soil is dry. Water thoroughly and allow surface to dry before planting. Do not create muddy soil.

D. Before planting, obtain Landscape Architect's acceptance of finish grading; restore planting areas if eroded or otherwise disturbed after finish grading.
3.4 HYDROSEEDING

A. Hydroseeding: Mix specified seed, Commercial fertilizer, and fiber mulch in water, using equipment specifically designed for hydroseed application. Continue mixing until uniformly blended into homogeneous slurry suitable for hydraulic application.

1. Mix slurry with nonasphaltic tackifier.
2. Spray-apply slurry uniformly to all areas to be seeded in a one-step process. Apply slurry at a rate so that mulch component is deposited at not less than 1500-lb/acre dry weight, and seed component is deposited at not less than the specified seed-sowing rate.
3. Spray-apply slurry uniformly to all areas to be seeded in a two-step process. Apply first slurry coat at a rate so that mulch component is deposited at not less than 500-lb/acre dry weight, and seed component is deposited at not less than the specified seed-sowing rate. Apply slurry cover coat of fiber mulch (hydromulching) at a rate of 1000 lb/acre.

3.5 SODDING

A. Lay sod within 24 hours of harvesting unless a suitable preservation method is accepted by Landscape Architect prior to delivery time. Do not lay sod if dormant or if ground is frozen or muddy.

B. Lay sod to form a solid mass with tightly fitted joints. Butt ends and sides of sod; do not stretch or overlap. Stagger sod strips or pads to offset joints in adjacent courses. Avoid damage to soil or sod during installation. Tamp and roll lightly to ensure contact with soil, eliminate air pockets, and form a smooth surface. Work sifted soil or fine sand into minor cracks between pieces of sod; remove excess to avoid smothering sod and adjacent grass.

C. Saturate sod with fine water spray within two hours of planting. During first week after planting, water daily or more frequently as necessary to maintain moist soil to a minimum depth of 1-1/2 inches below sod.

3.6 TURF MAINTENANCE

A. General: Maintain and establish turf by watering, fertilizing, weeding, mowing, trimming, replanting, and performing other operations as required to establish healthy, viable turf. Roll, regrade, and replant bare or eroded areas to produce a uniformly smooth turf. Provide materials and installation the same as those used in the original installation.

1. Fill in as necessary soil subsidence that may occur because of settling or other processes. Replace materials and turf damaged or lost in areas of subsidence.
2. Apply treatments as required to keep turf and soil free of pests and pathogens or disease. Use integrated pest management practices whenever possible to minimize the use of pesticides and reduce hazards.

B. Watering: Install and maintain turf-watering equipment to convey water from sources and to keep turf uniformly moist to a depth of 4 inches (100 mm).

1. Schedule watering to prevent wilting, puddling, erosion, and displacement of seed or mulch. Lay out temporary watering system to avoid walking over muddy or newly planted areas.
2. Water turf with fine spray at a minimum rate of 1 inch (25 mm) per week unless rainfall precipitation is adequate.
C. Contractor to verify grass is has properly nit into topsoil prior to owner use to prevent potential damage to the sod.

D. Mow turf as soon as top growth is tall enough to cut. Repeat mowing to maintain specified height without cutting more than one-third of grass height. Remove no more than one-third of grass-leaf growth in initial or subsequent mowings. Do not delay mowing until grass blades bend over and become matted. Do not mow when grass is wet. Schedule initial and subsequent mowings to maintain the following grass height:

1. Mow turf to a height of 1-1/2 to 2 inches (38 to 50 mm).

E. Turf Postfertilization: Apply commercial fertilizer after initial mowing and when grass is dry.

1. Use fertilizer that provides actual nitrogen of at least 1 lb/1000 sq. ft. (0.45 kg/92.9 sq. m) to turf area.

3.7 SATISFACTORY TURF

A. Turf installations shall meet the following criteria as determined by Landscape Architect:

1. Satisfactory Sodded Turf: At end of maintenance period, a healthy, well-rooted, even-colored, viable turf has been established, free of weeds, open joints, bare areas, and surface irregularities.

B. Use specified materials to reestablish turf that does not comply with requirements, and continue maintenance until turf is satisfactory.

3.8 PESTICIDE APPLICATION

A. Apply pesticides and other chemical products and biological control agents according to requirements of authorities having jurisdiction and manufacturer's written recommendations. Coordinate applications with Owner's operations and others in proximity to the Work. Notify Owner before each application is performed.

B. Post-Emergent Herbicides (Selective and Nonselective): Apply only as necessary to treat already-germinated weeds and according to manufacturer's written recommendations.

3.9 CLEANUP AND PROTECTION

A. Promptly remove soil and debris created by turf work from paved areas. Clean wheels of vehicles before leaving site to avoid tracking soil onto roads, walks, or other paved areas.

B. Remove surplus soil and waste material, including excess subsoil, unsuitable soil, trash, and debris, and legally dispose of them off Owner's property.

C. Erect temporary warning signs as required to protect newly planted areas from traffic.
3.10 MAINTENANCE SERVICE

A. Turf Maintenance Service: Provide full maintenance by skilled employees of landscape installer. Maintain as required in "Turf Maintenance" Article. Begin maintenance immediately after area is planted and continue until acceptable turf is established, but for not less than the following periods:

1. Turf: 60 days from date of Substantial Completion.

END OF SECTION 32 92 00
SECTION 32 93 00

PLANTS

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 1 Specification sections, apply to work of this section.

1.2 DESCRIPTION OF WORK

A. Extent of work is shown on drawings.

B. The work of this section consists of furnishing all plants, labor, equipment, and performing all operations in connection with planting of all trees and mulching of beds. Topsoil in beds shall have been provided and rough graded prior to this portion of the contract.

1.3 QUALITY ASSURANCE

A. Qualification of Workmen: Provide at least one person who shall be present at all times during execution of this portion of the work and who shall be thoroughly familiar with the type of materials being installed and the best methods for their installation and who shall direct all work performed under this section.

B. Standards: All plants and planting material shall meet or exceed the specifications of federal, state, and county laws requiring inspection for plant disease and insect control.

C. Quality and size shall conform to the current edition of "Horticultural Standards" for number one grade nursery stock as adopted by the American Association of Nurserymen's Standard Specifications.

D. All plants shall be true to name and one of each bundle or lot shall be tagged with the name and size of the plants in accordance with the standards of practice of the American Association of Nurserymen's Standard Specifications. In all cases, botanical names shall take precedence over common names.

1.4 SUBMITTALS

A. Materials List: Before any planting materials are delivered to the job site, submit to the Landscape Architect a complete list of all plants and other items proposed to be installed. Include complete data on source, size, and quality.

B. Mulch: One (1) gallon zip-lock bag with mulch sample.

C. Demonstrate complete conformance with the requirements of this section. This shall in no way be construed as permitting substitution for specific items described in the plans.
or these Specifications unless the substitution has been approved in advance in writing by the Landscape Architect.

D. As-Built Drawings: During the course of the installation, carefully record in red line on a print of the planting plans all changes made to the planting system layout during installation. Autocad drawings, and paper form hardcopies shall be turned in as part of project closeout.

E. Certificates: All certificates required by law shall accompany shipments. Upon completion of the installation, deliver all certificates to the Landscape Architect.

1.5 PRODUCT HANDLING

A. Delivery and Storage: Deliver all items to the site in their original containers with all labels intact and legible at time of Landscape Architect’s inspection. Landscape Architect shall receive 48 hours minimum notice for plant material inspection.

B. Immediately remove from the site all plants which are not true to name and all materials which do not comply with the provisions of this section of these Specifications.

C. Use all means necessary to protect plant materials before, during and after installation and to protect the installed work and materials of all other trades.

1.6 INSPECTION

A. Requirements for Verification: The Contractor will inform the Landscape Architect to provide for inspection of operation. Landscape Architect shall receive 48 hours minimum notice prior to all inspections.

B. The Contractor will notify the Landscape Architect as each operation is completed and request inspection and approval prior to initiating any additional work.

PART 2 - MATERIALS

2.1 PLANT MATERIALS – GENERAL

A. Plant materials shall mean trees and plants of all descriptions required to be furnished for the project, in accordance with the plans and specifications. All plant material must be true to name, which shall conform to Standardized Plant Names of the American Joint Committee on Horticultural Nomenclature, and shall be legibly tagged with the name and size of the material according to the general nursery practice as recommended by the American Association of Nurserymen’s Standard Specifications.

B. All plants shall be first-class representatives of their normal species or varieties. Unless otherwise specified, plants shall have average or normally developed branch systems and vigorous root systems. Plants shall be free from scale, disfiguring knots, sunscald injuries, abrasions of the bark, or other objectionable blemishes. Weak plants will not be accepted. Plants must show appearance of normal health and vigor in strict accordance with these Specifications. All stock shall be nursery grown.
C. All plant material shall comply with state and federal laws with respect to inspection for plant disease and infection. Any inspection certificates required by law shall accompany each shipment, invoice, or order of stock.

D. All plant material is subject to Landscape Architect’s approval and inspection at any place, before during and/or after planting. Any plant material not approved by the Landscape Architect shall be immediately removed from the site.

E. No plant material shall be accepted with loose or broken balls.

2.2 LANDSCAPE MATERIALS

A. Mulch: Mulch shall be dark bark fines topdressing installed to a minimum depth of 3”.

B. Planter Edging/Mowstrip: Mowstrip shall be concrete edging as per detail.

C. Compost: Eko Compost

2.3 PLANTING MIXTURE

A. Planting Mix: All landscaped bed/planter areas are to receive import topsoil planting mix prior to planting. Planting mix shall consist of 3 parts existing topsoil mixed with one part EKO Compost. If contractor determines there is insufficient existing topsoil, then import sandy loam shall be used. General contractor shall place Planting mix to finish grades. Contractor to confirm topsoil depths prior to planting.

B. All imported topsoil shall be a fertile, friable, natural loam soil, representative of productive soils in the vicinity. Topsoil is usually dark in color. It shall be obtained from well-drained areas, free from admixtures of subsoil, clay lumps, brush, weeds and other foreign matter, and free of roots, stumps, stones larger than 1.5 inches in any dimension; and free of other extraneous or toxic matter harmful to plant growth and be a hindrance to grading, planting, an maintenance operations. Topsoil should be obtained from local sources. It should have an acidity range (pH) of 5.5 - 7.5, and an organic matter content between 2% and 8%. Sandy Loam topsoil must have 0% to 20% clay, 25% to 50% silt, and more than 50% sand particles. Not more than 15 of topsoil weight can be gravel or stones. Soil particle size categories: Clay - 0.002 millimeters and smaller, Silt - 0.002 to .02 mm, Sand - 0.02 to 0.2 mm.

C. The above mixture shall have biostimulant added to it at the following rates:


F. Fill soil: Fill soil for placement in planting beds below the topsoil layer shall be natural friable loam free of lumps, roots, stumps, stones larger than 3” in any direction or other trash and debris such as concrete chunks or concrete spillage along the edge of any formwork. It shall not contain more than 10% by weight of gravel and/or stones less than
1.5 inches in any dimension. It must not contain toxic matter harmful to plant growth. It must have an acidity range (pH) within 5.6 to 7.5 and a particle size distribution as required for topsoil. In most instances, soil excavated from a construction site may be used for fill soil going back into the construction site.

PART 3 - WORKMANSHIP

3.1 SURFACE CONDITIONS

A. Inspection: Prior to all work of this section, carefully inspect the installed work of all other trades and verify that all such work is complete to the point where this installation may properly commence.

B. Verify that planting may be completed in accordance with the original design and the referenced standards.

C. Discrepancies: In the event of discrepancy, immediately notify the Landscape Architect.

D. Do not proceed with installation in areas of discrepancy until all such discrepancies have been fully resolved.

3.2 PLANTING – GENERAL

A. Plant nursery stock immediately upon delivery to the site and approval of the Landscape Architect, except that, if this is not feasible, heel-in all balled material with damp soil and protect from sun and wind.

B. Regularly water all nursery stock in containers, and place them in a cool area protected from sun and drying winds.

C. Excavation of Plant Holes: Tree pits shall be as shown on detail drawing.

D. Trees shall be supplied in sizes shown on the planting plan with all plants balled and burlapped.

E. During planting operations, the nursery stock shall not be exposed to the sun, drying winds, or winter freezing.

F. The soil in the bottom of the hole, which has been excavated to the prescribed requirements, shall be loosened to a depth of 3 inches and mixed with an equal amount of planting mix. A mound of soil shall be formed in the center of the hole to support the roots of the plant. The plant shall be placed on the mound of soil and held in a vertical position. The plant shall be so set, by adjusting the elevation of the mound that after settlement the plant will stand at approximately two inches above finish grade. The plant hole shall be backfilled with planting mix and placed in layers around the roots. Each layer shall be carefully tamped in place in a manner to avoid injury to the tree or disturbing the position of the plant. When approximately two-thirds of the plant hole has been backfilled, the hole shall be filled with water and the soil allowed to settle around the roots. After the water has been absorbed, the plant hole shall be filled with planting mix and tamped lightly to grade as shown on detail drawing.

G. In the case of planting in the open on hot days, shorten the time between planting and watering.
3.3 MULCHING
A. Apply mulch to a depth of 3", evenly spread over the entire area of each tree basin, shrub or ground cover bed as required.

3.4 PRUNING
A. General: Each tree shall be pruned in accordance with standard horticultural practice to preserve natural character of plant. Pruning shall be done with clean, sharp tools.
B. Pruning: The brushed or broken parts of large or fleshy roots shall be cut off smooth before planting. The only pruning to be done shall consist of removing dead, damaged, or crossing limbs so that the plant retains its natural form. All cuts shall be made flush with the collar on the trunk or branch as indicated by the International Society of Arboriculture pruning standards.

3.5 INSPECTION
A. In addition to the normal progress inspections, schedule and conduct the following formal inspections, giving the Landscape Architect at least 48 hours prior notice of readiness for inspection.
B. Inspection of prototype section of planting, prior to proceeding with installation of landscape materials and plants throughout site.
C. Final inspection after completion of planting. Schedule this inspection sufficiently in advance, and in cooperation with Landscape Architect/Owner so that final inspection may be conducted within 24 hours after completion of planting.
D. One year walk through inspection at the end of the maintenance period, provided that all previous deficiencies have been corrected.

3.6 GUARANTEE
A. The Contractor shall guarantee all plant material to be true to botanical name, specified size and in a vigorous condition for a period of 1 year after job is accepted. The Contractor shall replace any plant materials that are dead and that are in the opinion of the Owner/Landscape Architect, in an unhealthy or unsightly condition, or that have lost their natural shape due to dead branches, excessive pruning or inadequate or improper maintenance. All plant materials rejected by the Owner/Landscape Architect shall be removed and replaced at no cost to the Owner. Only one replacement of any plant is required after Provisional Acceptance.
B. Replacement plants and planting operations shall be in accordance with the original specifications. All costs for such replacements shall be considered to be included in the bid price. Replacement planting shall be completed no later than the next succeeding planting season. All areas damaged by replacement operations shall be fully restored by the Contractor to their original and/or specified conditions.

END OF SECTION 32 93 00
SECTION 33 41 00

STORM UTILITY DRAINAGE PIPING

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes:

1. Pipe and fittings.
2. Cleanouts.
3. Catch basins.
4. Stormwater inlets.
5. Pipe outlets.
6. Drywells.

1.2 DEFINITIONS

A. PE: Polyethylene plastic.
B. PVC: Polyvinyl chloride plastic.

1.3 PERFORMANCE REQUIREMENTS

A. Gravity-Flow, Nonpressure, Drainage-Piping Pressure Rating: 30 kPa. Pipe joints shall be at least silttight, unless otherwise indicated.

1.4 SUBMITTALS

A. Product Data: For the following:

1. Pipe and pipe fittings.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Do not store plastic manholes, pipe, and fittings in direct sunlight.
B. Protect pipe, pipe fittings, and seals from dirt and damage.
PART 2 - PRODUCTS

2.1 PE PIPE AND FITTINGS

A. Corrugated PE Drainage Pipe and Fittings: AASHTO M 252M, Type S, with smooth waterway for coupling joints.
   1. Silttight Couplings: PE sleeve with ASTM D 1056, Type 2, Class A, Grade 2 gasket material that mates with tube and fittings.

2.2 PVC PIPE AND FITTINGS

A. PVC Type PSM Sewer Piping:
   1. Pipe: ASTM D 3034, SDR 35, PVC Type PSM sewer pipe with bell-and-spigot ends for gasketed joints.
   2. Fittings: ASTM D 3034, PVC with bell ends.

2.3 CLEANOUTS

A. Plastic Cleanouts:
   1. Description: PVC body with PVC threaded plug. Include PVC sewer pipe fitting and riser to cleanout of same material as sewer piping.

2.4 CONCRETE

A. General: Cast-in-place concrete according to ACI 318 and the following:
   1. Cement: ASTM C 150, Type II.

B. Portland Cement Design Mix: 3000 psi minimum, with 0.45 maximum water/cementitious materials ratio.

2.5 CATCH BASINS

A. Standard Precast Concrete Catch Basins:
   1. Description: ASTM C 478, precast, reinforced concrete, of depth indicated, with provision for sealant joints.
2.6  STORMWATER INLETS
   A.  Curb Inlets: Made with vertical curb opening, of materials and dimensions according to the plans.

2.7  PIPE OUTLETS
   A.  Head Walls: Cast-in-place reinforced concrete, with apron and tapered sides.
   B.  Riprap Basins: Broken, irregularly sized and shaped, graded stone according to NSSGA's "Quarried Stone for Erosion and Sediment Control."

2.8  DRY WELLS
   A.  Description: ASTM C 913, precast, reinforced, perforated concrete rings.

PART 3 - EXECUTION

3.1  EARTHWORK
   A.  Excavation, trenching, and backfilling are specified in Division 2 Section "Earthwork."

3.2  PIPING APPLICATIONS
   A.  Pipe couplings and special pipe fittings with pressure ratings at least equal to piping rating may be used in applications below, unless otherwise indicated.
      1.  Gravity-Flow, Nonpressure Sewer Piping:

3.3  PIPING INSTALLATION
   A.  General Locations and Arrangements: Drawing plans and details indicate general location and arrangement of underground storm drainage piping. Location and arrangement of piping layout take design considerations into account. Install piping as indicated, to extent practical. Where specific installation is not indicated, follow piping manufacturer's written instructions.
   B.  Install piping beginning at low point, true to grades and alignment indicated with unbroken continuity of invert. Place bell ends of piping facing upstream. Install gaskets, seals, sleeves, and couplings according to manufacturer's written instructions for use of lubricants, cements, and other installation requirements.
3.4 CLEANOUT INSTALLATION

A. Install cleanouts and riser extension from sewer pipe to cleanout at grade. Use cast-iron soil pipe fittings in sewer pipes at branches for cleanouts and cast-iron soil pipe for riser extensions to cleanouts. Install piping so cleanouts open in direction of flow in sewer pipe.

3.5 DRY WELL INSTALLATION

A. Excavate bottom of the hole to diameter of at least 24 inches greater than outside of dry well. Excavate to surface at minimum slope of 2V:1H. Do not extend excavation into ground-water table.

3.6 CLEANING

A. Clean interior of piping of dirt and superfluous materials. Flush with potable water.

END OF SECTION 33 41 00