

Port of Pasco

INVITATION FOR BIDS

Small Works Roster

Notice to Contractors: The Port of Pasco requests your proposal to furnish labor, equipment, and material to accomplish the project: Big Pasco Industrial Center WH2B3 Concrete Dock.

- Instructions:** Please submit your proposal by mail or by hand not later than **10:00 AM, PST, May 14, 2025**. Bids shall be mailed, or delivered to the Project Manager, Port of Pasco, 1110 Osprey Pointe Blvd, Suite 201, P.O. Box 769, Pasco, WA 99301. Questions may be directed to Matt Whitish at Ph. 509.783.2244 or Jaime Vera, Ph. 509.547.3378. Plans and specifications may be examined or obtained at the Port of Pasco Administrative office at the address listed above or at the Port's web site, www.portofpasco.org under "Business with the Port". Contractors must be on the Port's Small Works Roster to be eligible for bidding on this project. Small Works Roster applications are available on the Port's web site, www.portofpasco.org.
- Bid Opening:** Bids will immediately be publicly opened and read aloud on the submittal time and date listed above. Bids received after the time for opening cannot be considered.
- Bid Award:** Opened proposals will be submitted to the Board of Commissioners of the Port of Pasco at the next regular meeting. It is anticipated an award will be made within one week after the presentation to the Board of Commissioners. The work will be awarded to, and a contract negotiated with the lowest responsible bidder or the bid judged to be in the best interest of the Port of Pasco. The successful bidder shall have 10 days after receipt of the Notice of Award to execute the Agreement and furnish required bonds and proof of insurance.
- Start Date and Contract Time:** Work will begin within 10 days after the execution of the contract, and require completion not to exceed 60 calendar days.
- Pre-Bid Walk-Through:** A pre-bid meeting for the project will be held at the Port Administrative Office, 1110 Osprey Pointe Blvd, Suite 201, Pasco, WA on May 1, 2025, at 10:00 AM. A walk-through of the project site will be conducted at the pre-bid meeting.
- Bid Proposal Form:** Proposals shall be prepared on the standard proposal form attached. The bidder shall make no stipulation on the bid form, nor qualify the bid in any manner. The proposal shall be placed in a sealed envelope marked in the lower left corner with "Proposal for Big Pasco Industrial Center WH2B3 Concrete Docks". Please place name of company on front of envelope as well.
- Bid Comparisons:** Discrepancies between the multiplication of units of Work and unit prices will be resolved in favor of the unit prices. Discrepancies between the indicated sum of any column of figures and the correct sum thereof will be resolved in favor of the correct sum. Discrepancies between figures and numbers written as words shall be resolved in favor of the numbers written as words.
- Bid Hold:** No Bid may be withdrawn for a period of four weeks after the bid date.

Bid Guarantee: A certified check, cashier's check or bid bond made payable to the Port of Pasco for an amount equal to at least 5% of the total base bid amount shall accompany each bid.

Performance & Payment Bond: The Contractor shall furnish performance and payment bonds, each in an amount at least equal to the Contract Price, as required by R.C.W. 39.08, upon execution of a contract. These bonds shall remain in effect until one year after the date when final payment becomes due. In lieu of the said performance and payment bonds, and in the event the contract is for an amount less than \$150,000.00, the Contractor may elect to have the Port retain 10% of the contract amount for a period of forty five (45) days after the date of final acceptance, or until receipt of all necessary releases from the Department of Revenue, Department of Labor and Industries, and the settlement of liens filed under Chapter 60.28 R.C.W., whichever is later. Retained amounts will be held by the Port unless Contractor submits a written request to invest the deposit retainage in accordance with applicable law.

Agreement: Successful bidder will execute the attached Agreement between the Port of Pasco and the Contractor.

Right of the Port to Accept or Reject Bids: The Port of Pasco reserves the right to reject any or all bids, to waive any informalities or irregularities in any bid, or in the bidding, and to accept or reject any bid for reasons based solely on considerations for the best interests of the Port of Pasco.

GENERAL CONDITIONS:

Insurance: The Contractor shall purchase and maintain such insurance as will protect it from claims arising out of Contractor's operations under the contract, whether such operations be by itself or by any subcontractor or by anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable (per Title 48 of the R.C.W.). Said insurance shall include provisions applying to:

- A. Claims under workman's compensation, disability benefit and other similar employee benefit acts;
- B. Claims for damages because of bodily injury, occupational sickness or disease, or death of its employees, and claims insured by usual personal injury liability coverage;
- C. Claims for damages because of bodily injury, sickness or disease, or death of person other than its employees, and claims insured by usual personal injury liability coverage; and
- D. Claims for damages because of injury to or destruction of tangible property, including loss of use resulting there from.

The insurance required by this paragraph shall be written for not less than:

- A. Commercial General Liability and Contractual Liability Insurance; written on an Occurrence form, and include Premises and Products/Completed Operations; Employers Liability.

Combined Single Limit per Occurrence \$1,000,000

General Aggregate \$2,000,000

- B. Commercial Auto Liability; including all Owned, Non-Owned, and Hired Autos:
- | | |
|--------------------------------------|---|
| Combined Single Limit per Occurrence | \$1,000,000 each Accident including Bodily Injury and Property Damage Liability |
|--------------------------------------|---|
- C. Workers Compensation Statutory Requirements
- D. Excess/Umbrella \$1,000,000 Each Occurrence

All such insurance policies shall be issued by a reputable insurance company satisfactory to Port; authorized to do business in the State of Washington and rated A- or better by A. M. Best Company. The insurance company and its agent shall be licensed with the State of Washington Insurance Commissioner per Title 48 of the RCW of Washington.

The policy of Commercial General Liability shall 1) name the Port as an Additional Insured for both "ongoing" and "completed operations", and shall include coverage for the Port's officers, directors, partners, employees, agents, and consultants and 2) be primary coverage for both Defense and Indemnity and Non-Contributory with any insurance maintained by Port, and shall provide for a Waiver of Subrogation rights as to the Port.

Evidence of Insurance shall be filed with the Port prior to the execution of the agreement, which documents that policies providing such coverage and limits of insurance are in full force and effect in a form acceptable to the Port. Attach appropriate endorsement forms evidencing required additional insured parties. Thirty (30) days advance notice shall be given in writing to the PORT prior to cancellation, termination or alteration of said policies of insurance. The insurance company and its agent shall be licensed with the State of Washington Insurance Commissioner per Title 48 of the RCW of Washington.

Warranty: Standard one year Contractors Guarantee covering the work performed and Manufacturers' Warranty on material, and warranties as otherwise listed in these specifications. Copies of all such warranties to be furnished to the Port of Pasco.

Cancellation of Contract for Violation of Port Policy: This contract pursuant to R.C.W. 49.28.050 and 49.28.060 may be cancelled by the officers or agents of the Port authorized to contract for or supervise the execution of such work, in case such work is not performed in accordance with the policy of the Port relating to such work.

Prevailing Wage: The hourly wages paid to laborers, workmen or mechanics shall not be less than the prevailing rate of wage, R.C.W. 39.12.020. No worker may be paid less than the specified hourly rate. Contractor will submit Intent to Pay Prevailing Wages, Affidavit of Wages Paid, and Request for Release to the Department of Labor and Industries at appropriate times.

The Washington State Prevailing Wage Rates for Public Works Contracts, Franklin County, effective March 30, 2025, is a part of this Invitation and may be accessed from the following website: <http://www.lni.wa.gov/TradesLicensing/PrevWage/WageRates/default.asp>. A copy is also available for viewing at the Port of Pasco office, 1110 Osprey Pointe Blvd, Suite 201, Pasco, WA 99301, and can be mailed upon request.

Retainage:

Retainage of 5% will be administered in accordance with R.C.W. 60.28 when contractor elects to furnish a performance and payment bond for the project when all requirements are met. If contractor elects not to furnish a performance and payment bond on the project of \$150,000 or less, retainage of 10% will be withheld until requirements of R.C.W. 60.28 are met.

**Bidder
Responsibility
Criteria**

It is the intent of Owner to award a contract to the lowest, responsible bidder. In accordance with RCW 39.04.350, before award of a public works contract, the bidder must meet the following bidder responsibility criteria to be considered a responsible bidder and qualified to be awarded a public works project. The bidder may be required by the Owner to submit documentation demonstrating compliance with the criteria. The bidder must:

- A. Have a current certificate of registration as a contractor at the time of bid submittal, in compliance with chapter 18.27 RCW. In addition, per RCW 39.06.010(1), all electrical and elevator contractors must also be licensed, which must have been in effect at the time of bid submittal;
- B. Have a current Washington Unified Business Identifier (UBI) number;
- C. If applicable:
 - 1. Have Industrial Insurance (workers' compensation) coverage for the bidder's employees working in Washington, as required in Title 51 RCW, unless self insured;
 - 2. Have a Washington Employment Security Department number, as required in Title 50 RCW;
 - 3. Have a Washington Department of Revenue state excise tax registration number, as required in Title 82 RCW;
 - 4. Have a Federal Employer Identification number (EIN or Federal Tax ID number)
- D. Not be disqualified from bidding on any public works contract under RCW 39.06.010 or 39.12.065(3).
- E. If bidding on a public works 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 bid solicitation;
- F. Have received training on the requirements related to public works and prevailing wage under this chapter and chapter 39.12 RCW. The bidder must designate a person or persons to be trained on these requirements. The training must be provided by the department of labor and industries or by a training provider whose curriculum is approved by the department. The department, in consultation with the prevailing wage advisory committee, must determine the length of the training. Bidders that have completed three or more public works projects and have had a valid business license in Washington for three or more years are exempt from this subsection. The department of labor and industries must keep records of entities that have satisfied the training requirement or are exempt and make the records available on its web site. Responsible parties may

rely on the records made available by the department regarding satisfaction of the training requirement or exemption;

- G. Within the three year period immediately preceding the date of the bid solicitation, not have been determined by a final binding citation and notice of assessment issued by the Department of Labor and Industries or through a civil judgement entered by a court of limited or general jurisdiction to have willfully violated, as defined in RCW 49.48.082, any provision of chapter 49.46, 49.48, or 49.52 RCW. This requires the successful bidder to submit to the municipality a signed acknowledged statement under oath verifying under penalty of perjury that the bidder is in compliance with the responsible bidder criteria requirement set forth under this number.
- H. In accordance with RCW 39.06, a public works contractor must verify responsibility criteria for each first tier subcontractor, and a subcontractor of any tier that hires other subcontractors must verify responsibility criteria for each of its subcontractors. Verification shall include that each subcontractor, at the time of subcontract execution, meets the responsibility criteria and possesses an electrical contractor license if required by RCW 19.28, or an elevator contractor license, if required by RCW 70.87. This verification requirement, as well as the responsibility criteria, must be included in every public works contract and subcontract of every tier.

TABLE OF CONTENTS

Number	Title	No. of Pages
	Table of Contents	2
Section 1	Specifications	
Division 1	Description of Work.....	1
012600	Contract Modification Procedures.....	1
013100	Project Management and Coordination.....	1
013200	Construction Progress Documentation.....	1
014000	Quality Requirements.....	2
016000	Product Requirements.....	2
017839	Project Record Documents.....	1
Division 2		
024119	Selective Demolition.....	2
Division 3		
033000	Cast-In-Place Concrete.....	7
033001	Concrete Floor Slabs.....	9
Division 5		
055000	Metal Fabrications.....	7
Division 6		
061000	Rough Carpentry.....	5
Division 7		
079000	Joint Sealers.....	3
Division 9		
099113	Paints and Coatings.....	9
Division 31		
312000	Structural Fill.....	5
312200	Excavation.....	5
Division 32		
312000	Paving & Surface Treatments.....	5
Section 2	Permits	
Section 3	Disposal & Notification	
Section 4	Site	
Section 5	Dust Control and Water	
Section 6	Utilities	
Section 7	Security	
Section 8	Health and Safety	

TABLE OF CONTENTS

Number	Title	No. of Pages
Section 9	Plans	
Section 10	Cleanup	
	Bid Form	
	Certificate of Compliance With Wage Payment Status	
	Bidder's Checklist	
	Agreement	
	Prevailing Wages	
	Reports	
	Drawings	

SPECIFICATIONS:

Section 1:

Description of the Work: The project involves construction of a concrete dock including interior concrete slab at door opening. Plans are attached as Drawings G-01 through G-03, A-01, S-001 and S-01.

General demolition at each door includes, but is not limited to, saw cutting and removal of existing concrete slab for installation of new slab area at door location. Project specific requirements are listed below:

DIVISION 012600 - CONTRACT MODIFICATION PROCEDURES

PART 1 - GENERAL

1.01 SUMMARY

- A. Section includes administrative and procedural requirements for handling and processing contract modifications.

1.02 MINOR CHANGES IN THE WORK

- A. Architect will issue supplemental instructions authorizing minor changes in the work, not involving adjustment to the contract sum or the contract time, on AIA Document G710, "Architect's Supplemental Instructions."

1.03 PROPOSAL REQUESTS

- A. Owner-Initiated Proposal Requests: Architect will issue a description of proposed changes in the work that may require adjustment to the contract sum or the contract time. Work change proposal requests issued by architect are not instructions either to stop work in progress or to execute the proposed change. Cost shall include a list of quantities of products required or eliminated and unit costs, with total amount of purchases and credits to be made, applicable taxes, delivery charges, equipment rental, and costs of labor and supervision directly attributable to the change.
- B. Contractor-Initiated Work Change Proposals: If latent or changed conditions require modifications to the contract, contractor may initiate a claim by submitting a request for a change to architect. Include a statement outlining reasons for the change and the effect of the change on the work. Provide a complete description of the proposed change. Indicate the effect of the proposed change on the contract sum and the contract time. Cost shall include a list of quantities of products required or eliminated and unit costs, with total amount of purchases and credits to be made, applicable taxes, delivery charges, equipment rental, and costs of labor and supervision directly attributable to the change.

1.04 CHANGE ORDER PROCEDURES

- A. On owner's approval of a work changes proposal request, architect will issue a change order for signatures of owner and contractor on AIA Document G701.

1.05 CONSTRUCTION CHANGE DIRECTIVE

- A. Construction Change Directive: Architect may issue a construction change directive on AIA Document G714. Construction change directive instructs contractor to proceed with a change in the work, for subsequent inclusion in a change order.

- B. Documentation: Maintain detailed records on a time and material basis of work required by the construction change directive. After completion of change, submit an itemized account and supporting data necessary to substantiate cost and time adjustments to the contract.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF DIVISION 012600 - CONTRACT MODIFICATION PROCEDURES

DISISION 013100 - PROJECT MANAGEMENT AND COORDINATION

PART 1 – GENERAL

1.01 SUMMARY

- A. Section includes administrative provisions for coordinating construction operations on project including, but not limited to Requests for Information (RFIS) and project meetings.

1.02 GENERAL COORDINATION PROCEDURES

- A. Coordination: Coordinate construction operations included in different sections of the specifications to ensure efficient and orderly installation of each part of the work. Coordinate construction operations, included in different sections, which depend on each other for proper installation, connection, and operation. Schedule construction operations in sequence required to obtain the best results where installation of one part of the work depends on installation of other components, before or after its own installation. Coordinate installation of different components to ensure maximum performance and accessibility for required maintenance, service, and repair. Make adequate provisions to accommodate items scheduled for later installation.
- B. Administrative Procedures: Coordinate scheduling and timing of required administrative procedures with other construction activities to avoid conflicts and to ensure orderly progress of the work. Such administrative activities include, but are not limited to, preparation of contractor's construction schedule, delivery and processing of submittals, progress meetings, pre-installation conferences, project closeout activities, and startup and adjustment of systems.

1.03 REQUESTS FOR INFORMATION (RFIS)

- A. General: Immediately on discovery of the need for additional information or interpretation of the contract documents, contractor shall prepare and submit an RFI in the form specified. Architect will return RFIS submitted to architect by other entities controlled by contractor with no response.
- B. Content of the RFI: Include a detailed, legible description of item needing information or interpretation and the contractor's suggested resolution. If contractor's solution(s) impacts the contract time or the contract sum, contractor shall state impact in the RFI.
- C. RFI forms: AIA Document G716 or approved form, acceptable to architect.

- D. Architect's Action: Architect will review each RFI, determine action required, and respond. Allow seven working days for architect's response for each RFI. The following RFIS will be returned without action: Requests for approval of submittals or substitutions and requests for coordination information already indicated in the contract documents.
- E. RFI Log: Prepare, maintain, and submit a tabular log of RFIS organized by the RFI number. Include RFI description, date submitted and date architect's response was received. Notify architect within five days if contractor disagrees with response.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF DIVISION 013100 - PROJECT MANAGEMENT AND COORDINATION

DIVISION 013200 - CONSTRUCTION PROGRESS DOCUMENTATION

PART 1 – GENERAL

1.01 SUMMARY

- A. Section includes administrative and procedural requirements for documenting the progress of construction during performance of the work, consisting of the contractor's construction schedule.

1.02 SUBMITTALS

- A. Contractor's Construction Schedule: Initial schedule, of size required to display entire schedule for entire construction period.

1.03 COORDINATION

- A. Coordinate contractor's construction schedule with the schedule of values, submittal schedule, progress reports, and payment requests coordinate each construction activity with other activities and schedule them in proper sequence.

PART 2 – PRODUCTS

2.01 CONTRACTOR'S CONSTRUCTION SCHEDULE, GENERAL

- A. Time Frame: Extend schedule from date established for the notice to proceed to date of substantial completion. Contract completion date shall not be changed by submission of a schedule that shows an early completion date, unless specifically authorized by change order.
- B. Activities: Separate area as a separate numbered activity for each main element of the work. Comply with the following: define activities so no activity is longer than 90 days. Include procurement process activities for long lead items and major items, requiring a cycle of more than 60 days, as separate activities in schedule. Procurement cycle activities include, submittals, approvals, purchasing, fabrication, and delivery.
- C. Milestones: Include milestones indicated in the contract documents in schedule, including, but not limited to, the notice to proceed, substantial completion, and final completion.

- D. Recovery Schedule: When periodic update indicates the work is 14 or more calendar days behind the current approved schedule, submit a separate recovery schedule indicating means by which contractor intends to regain compliance with the schedule.

2.02 CONTRACTOR'S CONSTRUCTION SCHEDULE (GANTT CHART)

- A. Gantt-chart Schedule: Submit a comprehensive, fully developed, horizontal, Gantt-chart-type, contractor's construction schedule within 7 days prior of date established for commencement of the work. Indicate each significant construction activity separately. Identify first workday of each week with a continuous vertical line. For construction activities that require more than three months to complete, indicate an estimated completion percentage in 10 percent increments within time bar.

PART 3 – EXECUTION

3.01 CONTRACTOR'S CONSTRUCTION SCHEDULE

- A. Contractor's Construction Schedule Updating: At monthly intervals, update schedule to reflect actual construction progress and activities. Issue schedule one week before each regularly scheduled progress meeting.
- B. Distribution: Distribute copies of approved schedule to architect owner, separate contractors, testing and inspecting agencies, and other parties identified by contractor with a need-to-know schedule responsibility.

END OF DIVISION 013200 - CONSTRUCTION PROGRESS DOCUMENTATION

DIVISION 014000 - QUALITY REQUIREMENTS

PART 1 - GENERAL

1.01 SUMMARY

- A. Section includes administrative and procedural requirements for quality assurance and quality control.
- B. Testing and inspecting services are required to verify compliance with requirements specified or indicated in the contract documents for specific test and inspection requirements. These services do not relieve contractor of responsibility for compliance with the contract document requirements.

1.02 CONFLICTING REQUIREMENTS

- A. Referenced Standards: If compliance with two or more standards is specified and the standards establish different or conflicting requirements for minimum quantities or quality levels, comply with the most stringent requirement. Refer conflicting requirements that are different, but apparently equal, to architect for a decision before proceeding.
- B. Minimum quantity or quality levels: the quantity or quality level shown or specified shall be the minimum provided or performed.

1.03 REPORTS AND DOCUMENTS

- A. Test and Inspection Reports: Prepare and submit certified written reports specified in other sections.
- B. Manufacturer's Field Reports: Prepare written information documenting tests and inspections specified in other sections.
- C. Permits, Licenses, and Certificates: For owner's records, submit copies of permits, licenses, certifications, inspection reports, notices, receipts for fee payments, judgments, correspondence, records, and similar documents, established for compliance with standards and regulations bearing on performance of the work.
- D. Testing Agency Qualifications: An independent agency with the experience to conduct testing and inspecting indicated, as documented according to ASTM E 329; and with additional qualifications specified in individual technical sections; and that is acceptable to authorities having jurisdiction.

1.04 QUALITY CONTROL

- A. Owner Responsibilities: Where quality-control services are indicated as owner's responsibility, owner will engage a qualified testing agency to perform these services.
- B. Contractor Responsibilities: Tests and inspections not explicitly assigned to the owner are contractor's responsibility. Perform additional quality-control activities required to verify that the work complies with requirements, whether specified or not.
- C. Manufacturer's Field Services: Where indicated, engage a manufacturer's representative to observe and inspect the work. Manufacturer's representative's services include examination of substrates and conditions, verification of materials, inspection of completed portions of the work, and submittal of written reports.
- D. Re-testing/re-inspecting: Regardless of whether original tests or inspections were contractor's responsibility, provide quality-control services, including retesting and re-inspecting, for construction that replaced work that failed to comply with the contract documents.
- E. Associated Services: Cooperate with agencies performing required tests, inspections, and similar quality-control services, and provide reasonable auxiliary services as requested. Notify agency sufficiently in advance of operations to permit assignment of personnel. Provide access to the work, and incidental labor and facilities necessary to facilitate tests and inspections.
- F. Coordination: Coordinate sequence of activities to accommodate required quality-assurance and control services with a minimum of delay and to avoid necessity of removing and replacing construction to accommodate testing and inspecting.

PART 2 - PRODUCTS (NOT USED)

PART 3 – EXECUTION

3.01 TEST AND INSPECTION LOG

- A. Test and inspection log: maintain a record at project site.

3.02 REPAIR AND PROTECTION

- A. General: On completion of testing, inspecting, sample taking, and similar services, repair damaged construction and restore substrates and finishes. Repair and protection are contractor's responsibility, regardless of the assignment of responsibility for quality-control services.

END OF DIVISION 014000 - QUALITY REQUIREMENTS

DIVISION 016000 - PRODUCT REQUIREMENTS

PART 1 – GENERAL

1.01 SUMMARY

- A. Section includes administrative and procedural requirements for selection of products for use in project; product delivery, storage, handling; manufacturers' standard warranties; special warranties; and comparable products.

1.02 DEFINITIONS

- A. Products: Items obtained for incorporating into the work, whether purchased for project or taken from previously purchased stock. The term "Product" includes the terms "Material," "Equipment," "System," and terms of similar intent.
 - 1. Named products: Items identified by manufacturer's product name, make or model number listed in manufacturer's published product literature that is current as of date of the contract documents.
 - 2. New products: Items that have not previously been incorporated into another project or facility. Products salvaged or recycled from other projects are not considered new products.
 - 3. Comparable product: product that is approved through the submittal process to have the indicated qualities related to type, function, dimension, performance, physical properties, appearance, and other characteristics that equal or exceed those of the specified product.
- B. Basis-of-design Product Specification: A specification in which a specific manufacturer's product is named, including make or model number or other designation, to establish the significant qualities related to type, function, dimension, performance, physical properties, appearance, and other characteristics for purposes of evaluating comparable products of additional manufacturers named in the specification.

1.03 SUBMITTALS

- A. Comparable Product Requests: Submit request for consideration of each comparable product. Identify product or fabrication or installation method to be replaced. Include specification section number and title and drawing numbers and titles.
- B. Basis-of-design Product Specification Submittal: Comply with requirements in division 01 section "Submittal Procedures." show compliance with requirements.

1.04 QUALITY ASSURANCE

- A. Compatibility of Options: If contractor is given option of selecting between two or more products for use on project, select product compatible with products previously selected, even if previously selected products were also options.

1.05 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store, and handle products using means and methods that will prevent damage, deterioration, and loss, including theft and vandalism. Comply with manufacturer's written instructions. Schedule delivery to minimize long-term storage at project site and to ensure minimum holding time for items that are flammable, hazardous, easily damaged, or sensitive to deterioration. Deliver products to project site in an undamaged condition in manufacturer's original sealed containers, complete with labels and instructions for handling, storing, unpacking, protecting, and installing. Protect stored products from damage and liquids from freezing.

1.06 PRODUCT WARRANTIES

- A. Warranties shall be in addition to, and run concurrent with, other provisions of the contract documents. Manufacturer's disclaimers and limitations on product warranties do not relieve contractor of obligations under requirements of the contract documents.
- B. Special Warranties: Prepare a written document that contains appropriate terms and identification, ready for execution from Manufacturers.

PART 2 – PRODUCTS

2.01 PRODUCT SELECTION PROCEDURES

- A. General Product Requirements: Provide products that comply with the contract documents, are undamaged and, unless otherwise indicated, are new at time of installation. Provide products complete with accessories, trim, finish, fasteners, and other items needed for a complete installation and indicated use and effect.
 - 1. Product: Where specifications name a single manufacturer and product, provide the named product that complies with requirements. Comparable products or substitutions for contractor's convenience will not be considered. Where specifications include a list of names of both available manufacturers and products, provide one of the products listed, or an unnamed product, that complies with requirements.
 - 2. Basis-of-design Product: Where specifications name a product, or refer to a product indicated on drawings, and include a list of manufacturers, provide the specified or indicated product or a comparable product by one of the other named manufacturers. Drawings and specifications indicate sizes, profiles, dimensions, and other characteristics that are based on the product named.
 - 3. Visual Selection Specification: Where specifications include the phrase "as selected from manufacturer's full range" or similar phrase, select a product that complies with requirements. Architect will select color, gloss, pattern, density, or texture from manufacturer's product line that includes both standard and premium items.

2.02 COMPARABLE PRODUCTS & SUBSTITUTIONS

- A. Substitutions will be considered up to 5 calendar days prior to bid opening.

- B. Substitutions may be considered after contract award only when a product becomes unavailable through no fault of the contractor, or when the Owner deems it to be in the Owner's best interest to do so.
- C. Document each request with complete data substantiating compliance of proposed substitution with Contract Documents.
- D. A request constitutes a representation that the Bidder/Contractor:
 - 1. Has investigated proposed product and determined that it meets or exceeds the quality level of the specified product.
 - 2. Will provide the same warranty for the Substitution as for the specified product.
 - 3. Will coordinate installation and make changes to other Work that may be required for the Work to be complete with no additional cost to Owner.
 - 4. Waives claims for additional costs or time extension that may subsequently become apparent.
 - 5. Will reimburse Owner for review or redesign services associated with re-approval by authorities.
- E. Substitutions will not be considered when they are indicated or implied on shop drawing or product data submittals, if they have not been previously approved.
- F. Substitution Submittal Procedure:
 - 1. All substitution requests shall be accomplished by requesting substitution form from Engineer.
 - 2. Clearly indicate with red arrows on the supporting data the proposed substitution and accessories.
- G. Substitution Review Procedure: Engineer will review substitution requests prior to bid within the 10 days prior to bidding. The substitution request form will be required to be filled out. Only approved substitutions will be listed on addenda. All proposed substitutions not listed on addenda shall be considered by the submitter and the Contractor as non-acceptable substitution and shall not be used. Substitutions after bid submission by Contractor will be reviewed only as per item B above or a better quality item is requested for substitution on approval by Engineer.

PART 3 - EXECUTION (NOT USED)

END OF DIVISION 016000 - PRODUCT REQUIREMENTS

DIVISION 017839 - PROJECT RECORD DOCUMENTS

PART 1 – GENERAL

1.01 SUMMARY

- A. Section includes administrative and procedural requirements for project record documents, including record drawings and specifications.

1.02 SUBMITTALS

- A. Record drawings: Submit one complete paper-copy set of marked-up record prints.

PART 2 – PRODUCTS

2.01 RECORD DRAWINGS

- A. Record Prints: Maintain one set of marked-up paper copies of the contract drawings and shop drawings, incorporating new and revised drawings as modifications are issued. Mark record prints to show the actual installation where installation varies from that shown originally. Give particular attention to information on concealed elements that would be difficult to identify or measure and record later. Note construction change directive numbers, alternates, change order numbers, and similar identification, where applicable.

PART 3 – EXECUTION

3.01 RECORDING AND MAINTENANCE

- A. Recording: Maintain one copy of each submittal during the construction period for project record document purposes. Post changes and revisions to project record documents as they occur.
- B. Maintenance of Record Documents: Store record documents apart from the contract documents used for construction. Do not use project record documents for construction purposes. Maintain record documents in good order and in a clean, dry, legible condition, protected from deterioration and loss. Provide access to project record documents for architect's reference during normal working hours.

END OF DIVISION 017839 - PROJECT RECORD DOCUMENTS

DIVISION 024119 - SELECTIVE DEMOLITION

PART 1 – GENERAL

1.01 DESCRIPTION

- A. This section consists of furnishing all labor, materials and equipment necessary and incidental to selective demolition and removal of existing structures and miscellaneous items at the locations indicated on the Contract Drawings. All associated concrete removal, and miscellaneous items unless otherwise noted, is included in the work described in this section.

1.02 RELATED WORK

- A. Coordinate the work of this section with all other sections of the project-specific Specifications and the Contract Drawings, but more specifically the following sections:
 - 1. Division 03, Concrete
 - 2. Division 06, Carpentry
 - 3. Division 31, Excavation

1.03 FIELD CONDITIONS

- A. Tenants occupy building and buildings immediately adjacent to selective demolition area. Conduct selective demolition so Tenant operations will be disrupted to the least extent.
- B. Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical.
- C. Hazardous Materials: It is not expected that hazardous materials will be encountered in the Work.
 - 1. If suspected hazardous materials are encountered, do not disturb; immediately notify the Port. Hazardous materials will be removed by the Port under a separate contract.
- D. Utility Service: Maintain existing utilities and protect them against damage during selective demolition operations.

PART 2 – PRODUCTS

2.01 PERFORMANCE REQUIREMENTS

- A. Regulatory Requirements: Comply with governing EPA notification regulations before beginning selective demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.

PART 3 – EXECUTION

3.01 EXAMINATION

- A. Verify utility locations before starting selective demolition operations.
- B. Review record documents of existing construction provided by the Port. Port does not guarantee that existing conditions are same as those indicated in record documents.
- C. Survey existing conditions and correlate with requirements indicated to determine extent of selective demolition required.

3.02 PREPARATION

- A. Site Access and Temporary Controls: Conduct selective demolition and debris-removal operations to ensure minimum interference with roads, rails, tenants, and other adjacent occupied and used facilities.
- B. Temporary Facilities: Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.
 - 1. Provide protection to ensure safe passage of people around selective demolition area and to and from occupied portions of buildings.

3.03 SELECTIVE DEMOLITION, GENERAL

- A. General: Demolish and remove existing construction only to the extent required by new construction and as indicated. Use methods required to complete the Work within limitations of governing regulations and as follows:
 - 1. Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction. Use hand tools or small power tools

designed for sawing or grinding, not hammering and chopping, to minimize disturbance of adjacent surfaces. Temporarily cover openings to remain.

2. Dispose of demolished items and materials promptly.

3.04 DISPOSAL OF DEMOLISHED MATERIALS

- A. General: Remove demolished materials from Project site and legally dispose.
 1. Do not allow demolished materials to accumulate on-site.
 2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
- B. Burning: Do not burn demolished materials.
- B. Disposal: Transport demolished materials off Owner's property and legally dispose of them.

3.05 RAILROAD TRACKS

- A. Railroad tracks are being used for deliveries of product to tenants. Contractor shall protect all tracks, ballast areas, walkways, etc. from damage through and during construction activities. All equipment and materials must be clear of tracks after daily shifts for BNSF deliveries in the evenings and early mornings.

END OF DIVISION 024119

DIVISION 033000 - CAST-IN-PLACE CONCRETE

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

- A. Drawing and general provisions of contract, including general conditions and supplemental conditions to the general conditions and Division 1 specification sections, apply to work of this section.

1.02 SECTION INCLUDES

- A. Reinforcing steel
- B. Concrete formwork, shoring and bracing
- C. Cast in place concrete

1.03 RELATED SECTIONS

- A. Coordinate the work of this section with all other sections of the project-specific Specifications and the Contract Drawings.

1.04 REFERENCES

- A. All references shall be the latest adopted edition unless noted otherwise.
- B. ACI 211.1 - Standard practice for selecting proportions for normal, heavyweight, and mass concrete; American Concrete Institute International.
- C. ACI 301 - Specifications for Structural Concrete for Buildings; American Concrete Institute International.
- D. ACI 302.1R - Guide for Concrete Floor and Slab Construction; American Concrete Institute International.
- E. ACI 304R - Guide for Measuring, Mixing, Transporting, and Placing Concrete; American Concrete Institute International.
- F. ACI 305R - Hot Weather Concreting; American Concrete Institute International.
- G. ACI 306R - Cold Weather Concreting; American Concrete Institute International.
- H. ACI 318 - Building Code Requirements for Reinforced Concrete and Commentary; American Concrete Institute International.
- I. ASTM C 33 - Standard Specification for Concrete Aggregates.
- J. ASTM C 94 - Standard Specification for Ready-Mixed Concrete.
- K. ASTM C 150 - Standard Specification for Portland Cement.
- L. ASTM C 260 - Standard Specification for Air-Entraining Admixtures for Concrete.
- M. ASTM C 1059 - Standard Specification for Latex Agents for Bonding Fresh to Hardened Concrete.
- N. ASTM C 1107 - Standard Specification for Packaged Dry, Hydraulic-Cement Grout (Non-shrink).
- O. ASTM D 1751 - Standard Specification for Preformed Expansion Joint Filler for Concrete Paving and Structural Construction (Non-extruding and Resilient Bituminous Types)

1.05 SUBMITTALS

- A. Product data; submit concrete design mix(s) from concrete supplier for each different design mix proposed along with historic testing lab reports on past projects.
- B. Shop Drawings - Reinforcing steel: submit shop drawings showing reinforcing steel complying with requirements of ACI SP-66. Include bar schedules, shapes of bent bars, spacing of bars, and location of splices.

1.06 QUALITY ASSURANCE

- A. Perform form work in accordance with ACI 347R, ACI 301, and ACI 318.
- B. Perform reinforcing steel installation in accordance with ACI 301.
- C. Perform concrete work in accordance with ACI 301 and ACI 318.

- D. Acquire cement from same source and aggregate from same source for entire project.
- E. Follow recommendations of ACI 305R when concreting during hot weather.
- F. Follow recommendations of ACI 306R when concreting during cold weather.

1.07 DESIGN RESPONSIBILITY-FORMWORK, BRACING & SHORING

- A. Contractor is responsible for designing and engineering the formwork along with the associated bracing and shoring to withstand all forces during construction.

PART 2 – PRODUCTS

2.01 WOOD FORM MATERIALS

- A. Form materials (except at concrete exposed to view): provide per ACI 347R at discretion of contractor.
- B. Form material for concrete exposed to view: APA rated B-B high density concrete form overlay plywood, Class I, conforming to PS 1.
 - 1. Plywood shall be new, or used once with face free of defects and nail holes filled.

2.02 FORMWORK ACCESSORIES

- A. Form Ties: Cone type snap ties designed to break off below face of wall after formwork is stripped, galvanized metal, fixed length, free of defects that could leave holes larger than 1 inch in concrete surface.
 - 1. Strength and spacing as required to resist fresh concrete placement and vibration loads.
- B. Shoring and Bracing: Provide materials/system designed by contractor to withstand all imposed construction forces.
- C. Form Release Agent: Colorless, non-staining, will not adversely affect surface coatings or waterproofing.
- D. Corners: Filleted, wood type; 3/4"x 3/4" inch size; maximum possible lengths.
- E. Nails, Spikes, Lag Bolts, Through Bolts, Anchorages: Sized as required, of sufficient strength and character to maintain formwork in place while placing concrete.

2.03 REINFORCEMENT

- A. Reinforcing Steel: As specified in general notes on structural drawings.
- B. Reinforcement Accessories:
 - 1. Tie wire: Annealed, minimum 16 gage.
 - 2. Chairs, Bolsters, Bar Supports, Spacers: Sized and shaped for adequate support of reinforcement during concrete placement.

- a. Provide plastic or stainless steel chairs and accessories in walls where finish wall surface is exposed to view.
- b. Provide stainless steel or plastic components for placement within 1-1/2 inches of weathering surfaces.

C. Reinforcing Steel Fabrication:

- 1. Fabricate concrete reinforcing in accordance with CRSI (DA4) - Manual of Standard Practice.
- 2. Welding of reinforcement is permitted only with the specific approval of architect. Perform welding in accordance with AWS D14.

2.04 CONCRETE MATERIALS

- A. Concrete: As specified in general notes on drawings.

2.05 ADMIXTURES

- A. Admixtures: As specified in general notes on drawings.

2.06 CONCRETE ACCESSORIES

- A. Bonding Agent: ASTM C 1059, Type II Acrylic non-redispersable type.
- B. Non-shrink Grout: As specified in general notes on drawings.

2.07 JOINT DEVICES AND MATERIALS

- A. Waterstops: Composite benonite and butyl rubber waterstop; volclay waterstop-rx or approved.

2.08 CONCRETE MIX DESIGN

- A. Proportioning Normal Weight Concrete: Provide concrete mix design that will result in concrete as specified in the general notes on the drawings. Comply with ACI 211.1 recommendations.

2.09 MIXING

- A. Transit Mixers: Comply with ASTM C 94.

PART 3 – EXECUTION

3.01 COORDINATION

- A. Review, coordinate and accommodate work of other trades that interface with, affect or are affected by the work of this section so as to facilitate the execution of the overall work of this project in a coordinated and efficient manner.
- B. Coordinate and facilitate installation of embedded structural items with section 055000.
- C. Coordinate and adjust concrete mix and additives to comply with requirements of manufacturers of coatings, sealants and adhesives applied to concrete.

3.02 EXAMINATION

- A. Verify lines, levels, and dimensions before proceeding with work of this section.

3.03 FORMWORK – ERECTION

- A. Erect formwork, shoring and bracing to achieve design requirements, in accordance with requirements of ACI 301.
- B. Provide bracing to ensure the stability of formwork. Shore or strengthen formwork subject to overstressing by construction loads to provide support and limit deflection of formwork to specified criteria.
- C. Arrange and assemble formwork to permit dismantling and stripping. Do not damage concrete during stripping. Permit removal of remaining principal shores.
- D. Align joints and seal watertight with sealant or foam tape. Keep form joints to minimum.
- E. Obtain approval before framing openings in structural members that are not indicated on drawings.
- F. Coordinate this section with other sections of work that require attachment of components to formwork.

3.04 FORMWORK - FORM RELEASE AGENT

- A. Apply form release agent on formwork in accordance with manufacturer's recommendations.
 - 1. Protect reinforcing steel, inserts and bonding surfaces from application of any form release agent.

3.05 FORMWORK - INSERTS, EMBEDDED PARTS, AND OPENINGS

- A. Provide formed openings where required for items to be embedded in passing through concrete work.
- B. Locate and set in place items that will be cast directly into concrete.
- C. Coordinate with work of other sections in forming and placing openings, slots, reglets, recesses, sleeves, bolts, anchors, other inserts, and components of other work.
- D. Install accessories in accordance with manufacturer's instructions, so they are straight, level, and plumb. Ensure items are not disturbed during concrete placement.
- E. Install waterstops in accordance with manufacturer's instructions, so they are continuous without displacing reinforcement.

3.06 FORMWORK – CLEANING

- A. Clean forms as erection proceeds, to remove foreign matter within forms.
- B. Clean formed cavities of debris prior to placing concrete.
 - 1. Flush with water or use compressed air to remove remaining foreign matter. Ensure that water and debris drain to exterior through clean-out ports.

2. During cold weather, remove ice and snow from within forms. Do not use de-icing salts. Do not use water to clean out forms, unless formwork and concrete construction proceed within heated enclosure. Use compressed air or other means to remove foreign matter.

3.07 FORMWORK – TOLERANCES

- A. Construct formwork to maintain tolerances required by ACI 301.

3.08 REINFORCEMENT – PLACEMENT

- A. Place, support and secure reinforcement against displacement. Do not deviate from required position.
- B. Accommodate placement of formed openings.
- C. Bend all tie wire back behind the line of rebar on weathering surfaces.
- D. Conform to applicable code for concrete cover over reinforcement.

3.09 CONCRETE – PREPARATION

- A. Verify that forms are clean and free of rust before applying release agent.
- B. Coordinate placement of joint devices with erection of concrete formwork and placement of form accessories.
- C. Prepare previously placed concrete by cleaning with steel brush and applying bonding agent in accordance with manufacturer's instructions.

3.10 CONCRETE – PLACEMENT

- A. Place concrete in accordance with ACI 304R, vibrate concrete thoroughly to eliminate voids, air pockets and rock pockets.
 1. Do not over-vibrate or use improper vibrations methods or equipment that result in "bug holes" on face of concrete exposed to view.
- B. Notify architect no less than 24 hours prior to commencement of placement operations.
- C. Ensure reinforcement, inserts, waterstops, embedded parts, and formed construction joint devices will not be disturbed during concrete placement.
- D. Maintain records of concrete placement. Record date, location, quantity, air temperature, and test samples taken.
- E. Do not interrupt successive placement; do not permit cold joints to occur.

3.11 CONCRETE – FINISHING

- A. Top of Footings & Foundation Walls: Float finish the top of concrete footings and foundation walls to a smooth, straight, level surface, free of vibrations of top elevation exceeding 1/4" in 10'-0".

- B. Repair surface defects, including tie holes, immediately after removing formwork.
- C. Unexposed Form Finish: Rub down or chip off fins or other raised areas 1/8 inch or more in height.
- D. Concrete finish where exposed to view:
 - 1. Rub down or chip off and smooth fins or other raised areas and grind smooth.
 - 2. Break open and expose shallow air pockets and "bug holes" that occur on face of concrete.
 - 3. Fill form tie holes, air pockets, "bug holes", voids, rock pockets and any uneven or irregular areas with cement grout matching concrete color.

3.12 CONCRETE - CURING AND PROTECTION

- A. Cure concrete in accordance with ACI 308; leave forms in place for as long as practicable after pouring concrete, apply spray applied non-staining curing compound compatible with grout cleaned surface finish and finish/coatings to be applied later (as applicable).
- B. Protect concrete for damage after forms are removed; do not damage surface of concrete during removal of forms.

3.13 FIELD QUALITY CONTROL

- A. Contractor Quality Control: Employ/assign quality control personnel to monitor the work of this section for conformance to the requirements of this section and to good construction practices.
 - 1. Contractor is solely responsible for managing and controlling the quality of the work and conformance with the requirements of this section.

3.14 RAILROAD TRACKS

- A. Railroad tracks are being used for deliveries of product to tenants. Contractor shall protect all tracks, ballast areas, walkways, etc. from damage through and during construction activities. All equipment and materials must be clear of tracks after daily shifts for BNSF deliveries in the evenings and early mornings.

END OF DIVISION 033000- CAST-IN-PLACE CONCRETE

DIVISION 033001 - CONCRETE FLOOR SLABS

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of contract, including general conditions and supplemental conditions to the general conditions and Division 1 Specification Sections, apply to work of this section.

1.02 SECTION INCLUDES

- A. Formwork, reinforcing, placement, finishing and curing for:
 - 1. Concrete slab on grade.
 - 2. Compressive strength to be achieved in 3 days. High early strength mix with optimal aggregate mix.

1.03 RELATED SECTIONS

- A. Coordinate the work of this section with all other sections of the project-specific Specifications and the Contract Drawings.

1.04 REFERENCES

- A. All references shall be the latest adopted edition unless noted otherwise.
- B. ACI 211.1 - Standard Practice for Selecting Proportions for Normal, Heavyweight, and Mass concrete; American Concrete Institute International.
- C. ACI 301 - Specifications for Structural Concrete for Buildings; American Concrete Institute International.
- D. ACI 302.1R - Guide for Concrete Floor and Slab Construction; American Concrete Institute International.
- E. ACI 304R - Guide for Measuring, Mixing, Transporting, and Placing Concrete; American Concrete Institute International.
- F. ACI 305R - Hot Weather Concreting; American Concrete Institute International.
- G. ACI 306R - Cold Weather Concreting; American Concrete Institute International.
- H. ACI 318 - Building Code Requirements for Reinforced Concrete and Commentary; American Concrete Institute International.
- I. ASTM C 33 - Standard Specification for Concrete Aggregates.
- J. ASTM C 94 - Standard Specification for Ready-mixed Concrete.
- K. ASTM C 150 -Standard Specification for Portland Cement.
- L. ASTM C 260 - Standard Specification for Air-entraining Admixtures for Concrete.
- M. ASTM C 1059 - Standard Specification for Latex Agents for Bonding Fresh to Hardened Concrete.
- N. ASTM C 1107 - Standard Specification for Packaged Dry, Hydraulic-cement Grout (non shrink).
- O. ASTM D 1751 - Standard Specification for Performed Expansion Joint Filler for Concrete Paving and Structural Construction (non-extruding and resilient bituminous types).

1.05 SUBMITTALS

- A. Product data: submit product data for the following:
 - 1. Concrete design mix(s) from concrete supplier for each different floor slab condition.

- B. Shop Drawings - Reinforcing Steel: Comply with requirements of ACI SP-66. Include bar schedules, shapes of bent bars, and location of splices.

1.06 QUALITY ASSURANCE

- A. Perform work of this section in accordance with ACI 301 and ACI 318.
- B. Acquire cement from same source and aggregate from same source for entire project.
- C. Follow recommendations of ACI 305R when concreting during hot weather.
- D. Follow recommendations of ACI 306R when concreting during cold weather.

1.07 CONTRACTOR RESPONSIBILITY

- A. Contractor is responsible for designing and engineering the formwork along with the associated bracing and shoring to withstand all imposed forces during construction.
- B. Contractor is responsible for coordinating and controlling the installation and protection of the entire concrete slab assembly including the capillary break, selection of concrete design mix conforming to design criteria, control of water added to concrete on the site, placement of concrete, slab finishing methods, slab curing methods and dry-out of the concrete slabs so as to achieve a crack-free slab with surface finish, vapor emission rate, moisture content and PH level required for and by the floor covering manufacturer(s) for successful application of their products.

1.08 PROJECT CONDITIONS

- A. Existing Improvements: Provide protection necessary to prevent damage to existing improvements not indicated for removal. Restore damaged improvements to their original condition

PART 2 – PRODUCTS

2.01 FORWORK MATERIALS

- A. Form Materials (except at concrete exposed to view): Provide per ACI 347R at discretion of contractor.
- B. Form Material for Concrete Exposed to View: APA rated B-B high density concrete form overlay plywood, Class I, conforming to PS 1.
 - 1. Plywood shall be new, or used once with face free of defects and nail holes filled.
- C. Accessories:
 - 1. Form release agent: colorless, non-staining, will not adversely affect surface coatings or waterproofing.
 - 2. Nails, Spikes, Lag Bolts, Through Bolts, Anchorages: Sized as required, of sufficient strength and character to maintain formwork in place while placing concrete.

2.02 INSERTS & EMBEDS

- A. Inserts and Embeds: Steel or ductile iron, type and configuration suitable for intended load/connection and rated for intended load with generous margin of safety.

2.03 REINFORCEMENT

- A. Reinforcing Steel: As specified on general notes on drawings.
- B. Welded Wire Mesh: As specified on general notes on drawings.
- C. Reinforcement accessories:
 - 1. Tie Wire: Annealed, minimum 16 gage.
 - 2. Chairs, Bolsters, Bar Supports, Spacers: Sized and shaped for adequate support of reinforcement during concrete placement.
 - a. Provide stainless steel or plastic components for placement within 1-1/2 inches of weathering surface.
- D. Fabrication:
 - 1. Fabricate concrete reinforcing in accordance with CRSI (DA4) - manual of standard practice.
 - 2. Welding of reinforcement is permitted only with the specific approval of architect. Perform welding in accordance with AWS D1.4.
 - 3. Locate reinforcing splices not indicated on drawings at point of minimum stress.

2.04 CONCRETE MATERIALS

- A. Concrete: As specified in general notes on drawings. Provide High early strength concrete.

2.05 ADMIXTURES

- A. Admixtures: As specified in notes on drawings.
- B. Water-reducing Admixture: Provide water reducing, super-plasticizing admixture to concrete mix as required to maintain the water/cement ratio specified herein and allow for workability and slump required for proper placement and finishing of concrete slab.

2.06 CONCRETE MIX DESIGN

- A. Proportioning Normal Weight Concrete: Provide concrete mix design that will result in concrete as specified in the general notes on the structural drawings and this section. Comply with ACI 211.1 recommendations. Conform with the following special requirements:
 - 1. Special Requirements: In addition to the requirements of the general notes on the drawings, conform to the following:
 - a. Water/cement ratio: 0.40 or less

- b. Concrete shall not contain high alkaline content aggregates that would prevent slab surface from achieving a PH of 9 or less after curing and dehydration.

2.07 MIXING

- A. Transit Mixers: Comply with ASTM C 94.

2.08 CONCRETE ACCESSORIES

- A. Control Joint: T-shaped vinyl control joint.
 - 1. W.R.Meadows Speed-E-Joint.
 - 2. Zip strip.
 - 3. Or similar
- B. Bonding Agent: ASTM C 1059, Type II acrylic non-redispersable type.
- C. Non-shrink Grout: As specified in general notes on drawings.

2.09 CURING MATERIALS

- A. General: Refer to curing schedule in Part 3 of this section.
- B. Type 1 Curing - Curing Sheet/Blanket: Select from the following as appropriate for conditions:
 - 1. Curing sheet consisting of white polyethylene sheet with water retaining polyester fabric or natural cellulose fiber backing.
 - a. PNA Hydracure S16.
 - b. MCTech Group Ultracure Sun, phone; (866) 913-8363.
 - 2. Cold Weather Curing: Reinforced polyethylene sheet blanket filled with polypropylene foam insulation.
- C. Type 2 Curing: Liquid-type high solids, clear acrylic, copolymer curing compound, sealer, dustproofer and hardener conforming to ASTM C 1315; non water base v.o.c compliant:
 - 1. EDOCO: Burke Spartan Cote 30% v.o.c. or approved.

2.10 REPAIR MATERIALS

- A. Repair Underlayment: Cement-based, polymer-modified, self-leveling product that can be applied in thicknesses from 1/8 inch and that can be feathered at edges to match adjacent floor elevations.
 - 1. Cement Binder: ASTM C 150, Portland cement or hydraulic or blended hydraulic cement as defined in ASTM C 219.
 - 2. Primer: Product of underlayment manufacturer recommended for substrate, conditions, and application.
 - 3. Aggregate: Well-graded, washed gravel, 1/8 to 1/4 inch or coarse sand as recommended by underlayment manufacturer.

4. Compressive Strength: Not less than 4100 psi at 28 days when tested according to ASTM C 109/C.

PART 3 – EXECUTION

3.01 COORDINATION

- A. Review, coordinate and accommodate work of other trades that interface with, affect or are affected by the work of this section so as to facilitate the execution of the overall work of this project in a coordinated and efficient manner.
- B. Coordinate and facilitate concrete slab construction to meet requirements of floor covering manufacturers.
- C. Coordinate and adjust concrete mix and additives to comply with requirements of manufacturers of coatings, sealants and adhesives applied to concrete.

3.02 EXAMINATION

- A. Verify lines, levels, and dimensions before proceeding with work of this section.

3.03 PREPARATION

- A. Verify that forms are clean and free of rust before applying release agent.
- B. Coordinate placement of joint devices with erection of concrete formwork and placement of form accessories.
- C. Prepare previously placed concrete by cleaning with steel brush and applying bonding agent in accordance with manufacturer's instructions.
- D. Utilize screed support system for slabs with underslab vapor retarder that does not penetrate or damage vapor retarder.

3.04 FORMWORK

- A. Edge forms:
 1. Construct edge forms and bracing, for slabs on grade, metal floor decking and decks with waterproof membrane to achieve design requirements, in accordance with requirements of ACI 301.
 2. Arrange and assemble forms to permit dismantling and stripping so as to avoid damage to concrete during stripping.
 3. Apply form release agent on forms in accordance with manufacturer's recommendations.
 - a. Protect reinforcing steel, inserts and bonding surfaces from application of any form release agent.
- B. Screeds: Construct a rigid screed system to facilitate placement of concrete to a uniform flat plane; with uniform slope where shown or required for drainage.

1. Slabs with Underslab Vapor Retarder: Use screed support system that does not penetrate or damage the vapor retarder during concrete placement.

C. Inserts, embedded part and openings

1. Provide formed openings where required for items to be embedded in passing through concrete work.
2. Locate and set in place items that will be cast directly into concrete.
3. Coordinate with work of other sections in forming and placing openings, slots, recesses, sleeves, bolts, anchors, other inserts, and components of other work.
4. Install accessories in accordance with manufacturer's instructions, so they are straight, level, and plumb. Ensure items are not disturbed during concrete placement.

D. Install construction joint devices in coordination with floor slab pattern placement sequence. Set top to required elevations. Secure to resist movement by wet concrete.

3.05 REINFORCING STEEL PLACEMENT

- A. Place, support and secure reinforcement against displacement. Do not deviate from required position.
- B. Do not displace or damage underslab vapor retarder.
- C. Accommodate placement of formed openings.
- D. Conform to applicable code for concrete cover over reinforcement.

3.06 CONTROL OF CONCRETE SLAB CONSTRUCTION

- A. Coordinate and control the installation and protection of the entire concrete slab assembly (slabs on grade) including the capillary break, underslab vapor retarder, selection of concrete design mix, water added to concrete on the site, placement of concrete, slab finishing methods, slab curing methods and dry-out of the concrete slabs so as to achieve a crack-free slab and surface finish, vapor emission rate, moisture content and PH level required for and by the floor covering manufacturer(s) for successful application of their products.
- B. Select and provide the equipment and power/fuel required to dry out the floor slab to the required moisture content and vapor emission rate required for the successful installation of any floor covering or coating being applied.

3.07 TOLERANCES

- A. Floor Slab Surface Tolerances - Slabs scheduled to receive resilient flooring, carpeting or left bare and exposed to view: floor slabs shall be constructed to achieve the following tolerances when measured in accordance with ACI 302.1R:
 1. Maximum variation of surface flatness for concrete floors: 3/16 inch in 10 feet.

3.08 CONSTRUCTION & CONTROL JOINTS

- A. Construction Joints: Construct full depth keyed form in configuration shown on drawings or as approved by architect.
 - 1. Remove temporary forms carefully and protect exposed edge of concrete from damage.
- B. Tooled/scored Control Joints: Tooled joints made in wet concrete, with uniform appearance, straight and true, depth as follows:
 - 2. Joints shall be straight and true.
- C. Sawcut Control Joints: Sawcut joints shall be made in concrete within 4 to 12 hours after concrete is finished, straight and true, depth and spacing in accordance with ACI Standards.

3.09 PLACING CONCRETE

- A. Place concrete in accordance with ACI 304R.
- B. Place concrete for floor slabs in accordance with ACI 302.1R.
- C. Notify architect not less than 24 hours or as agreed upon prior to commencement of placement operations.
- D. Ensure reinforcement, inserts, waterstops, embedded parts, and formed construction joint devices will not be disturbed during concrete placement.
- E. Maintain records of concrete placement. Record date, location, quantity, air temperature, and test samples taken.
- F. Place concrete continuously between predetermined expansion, control and construction joints.
- G. Do not interrupt successive placement; do not permit cold joints to occur.
- H. Place floor slabs with joint locations as shown on the drawings and approved by architect.
- I. Screed floors to a level flat plane, maintaining specified surface flatness.

3.10 FLOOR FINISHING

- A. General: Finish concrete floor surfaces with bull float, wood/magnesium hand floats and steel trowels in accordance with ACI 301 and ACI 302.1R.
 - 1. Do not sprinkle water on slab while finishing.
 - 2. Do not dust slab with cement powder while finishing.
- B. Rough Broom Finish – Floors not scheduled to receive floor coverings and interior concrete warehouse floors exposed to view: Rough broom finish, free of ripples or surface defects.

3.11 CURING SCHEDULE

- A. Curing schedule: cure floor slabs as noted:

1. Slabs exposed to view: Type 2 curing.
- B. Cure concrete slabs in accordance with ACI 308 and the following to properly moisture cure the concrete and to reduce/eliminate uncontrolled shrinkage cracking.
- C. Type 2 liquid type curing/sealing compound:
 - a. Apply 2 separate coats of curing and sealing compound to concrete slabs as soon as final finishing operations are complete (immediately after surface water sheen has disappeared) in strict conformance with manufacturer's recommended installation instructions.
 - b. Apply uniformly at manufacturer's recommended application rate for uniform and complete coverage in continuous operation by power spray or roller.
 - c. Recoat areas subjected to heavy rainfall within 3 hours after initial application.
 - d. Maintain continuity of coating and repair damage during curing period.

3.12 FIELD QUALITY CONTROL

- A. Contractor Quality Control: Employ/assign quality control personnel to monitor the work of this section for conformance to the requirements of this section and to good construction practices.
 1. Contractor is solely responsible for managing and controlling the quality of the work and conformance with the requirements of this section.
 2. Contractor shall rely on his own testing, experience and skill in determining what means and methods to employ to achieve specified compacted density and other requirements of this section and not rely solely on test data from testing agency.
- B. Testing Agency: Owner will engage a qualified testing agency to inspect the work and perform field quality-control sampling/testing.
 1. Test data and reviews shall not be construed as acceptance of the work by the testing agency nor shall it relieve the contractor of his responsibility to replace no-conforming or failed work.
- C. Coordinate and schedule the work to accommodate inspections and tests of reinforcing steel and concrete construction as specified on the structural drawings.
- D. Provide testing agency free access to concrete operations at project site and cooperate with appointed firm.
 1. Submit proposed concrete mix design of each different type/class of concrete to testing agency for review prior to commencement of concrete operations.
 2. Provide testing agency with latest reviewed copies of reinforcing steel shop drawings.
- E. Tests of concrete and concrete materials may be performed at any time to ensure conformance with specified requirements.

END OF DIVISION 033001- CONCRETE FLOOR SLABS

DIVISION 055000 - METAL FABRICATIONS

PART 1 – GENERAL

1.01 SECTION INCLUDES

- A. Miscellaneous Metal Fabrications

1.02 RELATED WORK

- A. Coordinate the work of this section with all other sections of the project-specific Specifications and the Contract Drawings.

1.03 REFERENCES

- A. All references shall be the latest adopted edition unless noted otherwise.
- B. ASTM A 36/A 36M - Standard Specification for Carbon Structural Steel.
- C. ASTM A 53 - Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless.
- D. ASTM A 123 - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings On Iron and Steel Products.
- E. ASTM A 153/A A53M - Standard Specification for Zinc Coating (Hot-Dip) On Iron and Steel Hardware.
- F. ASTM A 283/A 283M - Standard Specification for Low and Intermediate Tensile Strength Carbon Steel Plates.
- G. ASTM A 325 - Standard Specification for Structural Bolts, Steel, Heat Treated, 120/105 ksi Minimum Tensile Strength.
- H. ASTM A 500 - Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Tubing In Rounds And Shapes.
- I. ASTM A 1008 - Standard Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy With Improved Formability, Solution Hardened, And Bake Hardenable.
- J. AISC M016- Manual for Steel Construction - Allowable Stress Design; American Institute of Steel Construction, Inc.
- K. AISC S303 - Code of Standard Practice For Steel Buildings And Bridges; American Institute Of Steel Construction, Inc.
- L. AWS A2.4 - Symbols for Welding, Brazing, And Non-Destructive Examination; American Welding Society.
- M. AWS D1.1 - Structural Welding Code- Steel; American Welding Society.
- N. SSPC (PM2) - Painting Manual, Vol. 2, Systems and Specifications; Steel Structures Painting Council.

1.04 SUBMITTALS

- A. Shop Drawings: Submit shop drawings prepared by an experienced professional steel detailer showing each metal fabrication; indicate profiles, sizes, connection attachments, reinforcing, anchorage, size and type of fasteners, and accessories. Include erection drawings, elevations, and details where applicable.
- B. Product Data: Submit manufacturer's specifications, anchor details and installation instructions for products used in the fabrication of miscellaneous metal fabrications, including paint products and grout.

1.05 QUALITY ASSURANCE

- A. Fabricate structural steel members in accordance with AISC M016 and S303.
 - 1. Comply with Section 10 of AISC S303 for Architecturally Exposed Structural Steel.
- B. Welders: Qualified within the previous 12 months for type of welding required for this project in accordance with AWS D-1.1 and AWS D-1.4 and Washington Association of Building Officials (WABO) certified as required by local building official having jurisdiction on this project.
- C. Take field measurements prior to preparation of shop drawings and fabrication, where possible. Do not delay job progress; allow for trimming and fitting wherever taking field measurements before fabrication might delay work.
- D. Furnish inserts and anchoring devices which must be set in concrete for installation of miscellaneous metal work. Coordinate delivery with other work to avoid delay.
- E. Shop Assembly: Pre-assemble items in shop to greatest extent possible to minimize field splicing and assembly. Disassemble units only as necessary for shipping and handling limitations. Clearly mark units for reassembly and coordinated installation.
- F. Erector Qualifications: Company specializing in performing the work of this section with minimum 5 years' experience.

PART 2 – PRODUCTS

2.01 MATERIALS

- A. Steel Sheet: ASTM A 1008.
- B. Solid Steel Bars, Plates & Shapes: ASTM 36/A 36M.
- C. Steel Tubing: ASTM A 500, Grade B.
- D. Plates: ASTM A 283.
- E. Pipe: ASTM A 53, Grade B Schedule 40 and Schedule 80, black finish.
- F. Bolts, Nuts, and Washers: ASTM A 325 galvanized to ASTM A 153/A 153M for galvanized components.
- G. Welding Materials: AWS D1.1; type required for materials being welded.
- H. Non-shrink Grout: As specified in the structural general notes.

- I. Shop and Touch-up Primer: SSPC-paint 15, type 1, red oxide.
- J. Touch-up Primer for Galvanized Surfaces: SSPC-paint 20 type 1 inorganic zinc rich.

2.02 FABRICATION

- A. Coordinate and confirm field dimensions and conditions prior to fabrication.
- B. Fit and shop assemble items in largest practical sections, for delivery to site.
- C. Fabricate items with joints tightly fitted and secured.
- D. Welds: Use welding equipment/technique that provides a clean, neat, weld bead of consistent width and appearance, with low profile and edges feathered into adjacent metal, no splatter, no voids or porosity, and a smooth surface finish.
 - 1. Provide continuous welds the full length and circumference of pieces being connected, no stitch welds where exposed to view.
 - 2. Weld shall fill joint completely free of any voids or holes.
 - 3. Grind welds exposed to view flush and smooth, do not leave grinder marks or visible scratches on surface of steel.
- E. Grind exposed joints flush and smooth with adjacent finish surface. Make exposed joints but tight, flush, and hairline. Ease exposed edges to small uniform radius.
- F. Welding shall conform to structural welding code AWS D-1.1.
- G. Fabricate connections for bolt, nut, and washer connectors.
- H. Exposed Mechanical Fastenings: Flush countersunk screws or bolts; unobtrusively located; consistent with design of component, except where specifically noted otherwise.
- I. Supply components required for anchorage of fabrications. Fabricate anchors and related components of same material and finish as fabrication, except where specifically noted otherwise.

2.03 FABRICATED ITEMS

- A. Miscellaneous Framing and Supports: Fabricate from structural steel shapes, plates, and bars, of welded construction to sizes, shapes, and profiles indicated and required, to receive other adjacent construction retained by framing and supports.
 - 1. Use mitered joints for field connection.
 - 2. Cut, drill, and tap units to receive hangars, hardware, and similar items.
 - 3. Hot-dip galvanize items on building exterior, exposed to exterior atmosphere or so indicated on the drawings; prime paint other items.

- B. Other miscellaneous fabricated steel items shown on the drawings: Fabricate as shown.

2.04 FINISHES – STEEL

- A. Prime paint:
 - 1. Prepare surfaces to be primed in accordance with SSPC-SP-1 and SP 3, power tool cleaning.
 - 2. Clean surfaces of rust, scale, oil, grease, and foreign matter prior to finishing.
 - 3. Prime painting: one coat.
- B. Galvanizing: Galvanize after fabrication to ASTM A 123. Provide minimum 2.0 oz/sq ft galvanizing coating.
 - 1. Hot-dip galvanize fabricated items located on building exterior, exposed to exterior atmosphere or so indicated on the drawings.

2.05 FABRICATION TOLERANCES

- A. Squareness: 1/8 inch maximum difference in diagonal measurements.
- B. Maximum Offset Between Faces: No misalignment allowed, fabricate flush.
- C. Maximum Misalignment Of Adjacent Members; 1/16 inch.
- D. Maximum Bow: 1/8 inch in 48 inches.
- E. Maximum Deviation from Plane: 1/16 inch in 48 inches.

2.06 MISCELLANEOUS METAL ITEMS

- A. Rough Hardware:
 - 1. Furnish bent or otherwise custom fabricated bolts, plates, anchors, hangars, dowels and other miscellaneous steel and iron shapes as required.
 - 2. Manufacture or fabricate items of sizes, shapes and dimensions required.
- B. Edge Angles:
 - 1. Provide edge angles fabricated of structural steel shapes as shown, of all welded construction with radius corners and continuously welded joints.
- C. Provide other miscellaneous steel items; work of this section is not limited to the items listed above.

PART 3 – EXECUTION

3.01 COORDINATION

- A. Review, coordinate and accommodate work of other trades that interface with, affect or are affected by the work of this section to facilitate the execution of the overall work of this project in a coordinated and efficient manner.

3.02 EXAMINATION

- A. Verify that field conditions are acceptable and are ready to receive work.
- B. Beginning installation indicates installer's acceptance of conditions.

3.03 PREPARATION

- A. Clean and strip primed steel items to bare metal where site welding is required.
- B. Provide temporary shores, guys, braces and other supports during erection to keep structural steel secure, plumb and in alignment against temporary construction loads and loads equal in intensity to design loads.
- C. Remove temporary supports only after all permanent structural members, braces, shear walls, diaphragms and brace frames are in place and properly connected.
- D. Furnish setting drawings, diagrams, templates, instructions, and directions for installation of anchorages, such as concrete inserts, anchor bolts and miscellaneous items having integral anchors, which are to be embedded in concrete construction. Coordinate delivery of such items to project site.

3.04 INSTALLATION

- A. Fastening to In-place Construction:
 - 1. Provide anchorage devices and fasteners where necessary for securing miscellaneous metal items to in-place construction including threaded fasteners for concrete inserts, toggle bolts, through-bolts, and other connectors as required.
- B. Cutting, Fitting and Placement:
 - 1. Perform cutting, drilling and fitting required for installation of miscellaneous metal items. Set work accurately in location, alignment and elevation, plumb level, true and free of rack, measured from established lines and levels with lines visually parallel. Provide temporary bracing or anchors in framework for items which are to be built into concrete or similar construction.
 - 2. Fit exposed connections accurately together to form tight hairline joints. Weld connections which are not to be left as exposed joints, but cannot be shop welded because of shipping size limitations. Grind joints smooth and touch-up shop paint coat, do not weld, cut or abrade the surfaces of exterior units which have been hot-dip galvanized after fabrication, and are intended for bolted or screwed field connections.
- C. Field Welding:
 - 1. Comply with AWS D1.1 code for procedures of manual shielded metal-arc welding, appearance and quality of welds made, methods used in correcting welding work.
- D. Touch-up Paint:

1. Immediately after erection, clean field welds, bolted connections, and abraded areas of shop paint, and paint exposed areas with same material as used for shop painting. Apply by brush or spray to provide a minimum dry film thickness of 1.0 mils.

- E. Install items plumb and level, accurately fitted, free from distortion or defects.
- F. Provide for erection loads, and for sufficient temporary bracing to maintain true alignment until completion of erection and installation of permanent attachments.
- G. Obtain approval prior to site cutting or making adjustments not scheduled.
- H. After erection, prime welds, abrasions, and surfaces not shop primed or galvanized.

3.05 ERECTION

- A. Erect structural steel accurately in locations and to elevations required in compliance with AISC S303.
- B. Allow for erection loads, and provide sufficient temporary bracing to maintain structure in safe condition, plumb, and in true alignment until completion of erection and installation of permanent bracing.
- C. Field weld components as indicated on drawings in conformance with AWS D1.1.
- D. Install and tighten bolted connections as indicated on drawings.
- E. Do not field cut or alter structural members without approval of architect.
- F. After erection, prime welds, abrasions, and surfaces not shop primed, except surfaces to be in contact with concrete.
- G. Grout solidly between bearing plates and bearing surfaces, complying with manufacturer's instructions for non-shrink grout. Trowel grouted surfaces smooth, splaying neatly in accordance with manufacturer's specification for grout.

3.06 ERECTION TOLERANCES

- A. Maintain erection tolerances of structural steel with in AISC S303 and the following:
 1. Maximum Variation from Plumb: 1/4 inch per story, non-cumulative.
 2. Maximum Offset from True Alignment: 1/4 inch.
 3. Maximum Out-Of-Position: 1/4 inch.

END OF DIVISION 055000 – METAL FABRICATIONS

DIVISION 061000 – ROUGH CARPENTRY

PART 1 – GENERAL

1.01 SECTION INCLUDES

- A. Rough Carpentry.

1.02 RELATED WORK

- A. Coordinate the work of this section with all other sections of the project-specific Specifications and the Contract Drawings.

1.03 REFERENCES

- A. All references shall be the latest adopted edition unless noted otherwise.
- B. ASTM C 79 – Standard Specification for Gypsum Sheathing Board.
- C. AWP A U2 – Lumber, Timbers, Bridge Ties and Mine Ties—Preservative Treatment by Pressure Processes; American Wood – Preservers’ Association.
- D. PS 20 – American Softwood Lumber Standard.
- E. IBC – International Building Code, 2016 Edition.
- F. ICC – International Code Council.
- G. WCLB (GR)- Standard Grading and Dressing Rules No. 17; West Coast Lumber Inspection Bureau.
- H. WWPA G-5 – Western Lumber Grading Rules; Western Wood Products Association.

1.04 QUALITY ASSURANCE

- A. Lumber: Comply with PS 20 and approved grading rules and inspection agencies.

- 1. Acceptable Lumber Inspection Agencies: WCLB and WWPA.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Cover wood products to protect against moisture and growth of mold/mildew. Support stacked products to prevent deformation and to allow air circulation.

PART 2 – PRODUCTS

2.01 DIMENSION LUMBER

- A. Species: As specified in the General Notes on the drawings and these specifications.
- B. Grade: As specified in the General Notes on the drawings and these specifications.
- C. Sizes: Nominal sizes as indicated on drawings, S4S.
- D. Moisture Content: Maximum 19 percent, stack or kiln-dried.

- E. Backing: 2 x 6 and larger solid lumber, cut from No. 2 Douglas Fir/Larch dimension lumber that is free of large knots, splits or other defects that would reduce the strength of the backing piece.
- F. Wood Nailers and Insulation Stops For Roofing: Preservative pressure treated wood No. 2 Hem/Fir or Douglas Fir/Larch.
- G. Fiber Cement Board Lap Siding Primed: HardiPlank or equal. At area entire length of bay where existing canopy was removed.

2.02 CONSTRUCTION PANELS

- A. APA Rated Wall Sheathing: As specified in the General Notes on the drawings and these specifications.

2.03 ACCESSORIES

- A. Fasteners, Anchors and Anchorbolts: As specified in the General Notes on the drawings and these specifications.
 - 1. Fasteners on Building Exterior, in High Humidity or in Preservative Pressure Treated Wood: Stainless steel or hot-dipped galvanized.
 - a) Use only stainless steel fasteners in wood treated with ACZA preservative treatment.
 - 2. Anchor For Concrete and Masonry: As specified in the General Notes on the drawings and these specifications and the following:
 - a) Concealed Location: Zinc plated steel, expansion type fasteners manufactured by Rawl or Hilti.
 - b) Exposed Location: Hot-dipped galvanized or stainless steel.
 - c) Preservative Pressure Treated Wood: Hot-dipped galvanized or stainless steel.
 - 1) Use only stainless steel anchors in wood treated with ACZA preservative treatment.
- B. Die-Stamped Framing Connectors: As specified in the General Notes on the drawings and these specifications; hot dipped galvanized steel, ICC approved, Simpson *StrongTie* or similar.
- C. Construction Adhesive: APA AFG-01, Waterproof, solvent base, air cure type, cartridge dispensed.
- D. Building Paper: 30 lb asphalt saturated felt.
- E. Sheet Metal Flashing: Specified in Section 076200 – Sheet Metal Flashing And Trim.

PART 3 – EXECUTION

3.01 COORDINATION

- A. Review, coordinate and accommodate work of other trades that interface with, affect or are affected by the work of this Section so as to facilitate the execution of the overall Work of this project in a coordinated and efficient manner.
- B. Coordinate the layout of wall, column framing to accommodate the location of penetrations, recessed items and to minimize cutting framing members and/or framing openings in these assemblies.

3.02 GENERAL

- A. Drilling, Notching and Cutting: Coordinate and control drilling, notching and cutting of all framing members required to admit or install work of other trades, do not violate the structural integrity of any wood framed members, comply with restrictions and requirements of Structural Engineer, IBC and local Building Official.
- B. Nailing: Nailing shall conform to the size and spacing shown on the drawings; where nailing is not indicated, provide nailing per IBC Table 2304.9.1. Fastener Schedule.
- C. Wood In Contact With Concrete & Masonry shall be preservative pressure treated.
 - 1. At ends of beams, behind engineered wood ledgers or at similar situations, separate wood from concrete or masonry with building paper.

3.03 FRAMING INSTALLATION

- A. Cut and fit framing members accurately, set members level, plumb, and true to line. Discard crooked or twisted pieces or with defects that would lower required strength or result in unacceptable appearance of exposed member.
- B. Wall Plates: Comply with size(s) shown on drawings.
 - 1. Bottom plates bearing on concrete shall be preservative pressure treated.
 - 2. Bore holes of proper diameter for anchor bolts accurately; oversized or elongated holes are not acceptable.
- C. Wall Framing: Cull out crooked, twisted or inconsistent width framing, align framing members so that finish walls are straight and free of waviness.
- D. Make provisions for temporary construction loads, and provide temporary bracing sufficient to maintain structure in true alignment and safe condition until completion of erection and installation of permanent bracing.
- E. Install structural member's full length without splices.
- F. Comply with member sizes, spacing, and configurations indicated, and fastener size and spacing indicated on Drawings and General Notes, but not less than required by applicable codes.
- G. Install horizontal spanning members with crown edge up and not less than 1-1/2 inches of bearing at each end.
- H. Provide framing members at all vertical ends/edges of GWB and wall sheathing and at ends of floor sheathing.
- I. Construct headers at floor, roof and wall openings required by the design and work of other trades. Where not shown, provide double joist headers; use metal joist hangers unless otherwise detailed.
- J. Frame wall openings required by the design and for work of other trades. Where not shown, provide minimum two or more studs at each jamb; support heaters on cripple studs.
- K. Provide blocking between framing members wherever required by Drawings, IBC, Building Official, or good construction practice.

- L. Provide additional framing members and/or modifications required to accommodate work of other trades.
- M. Provide backing and miscellaneous members as indicated or as required to support work provided by other trades (finishes, fixtures, specialty items, trim, etc.).

3.04 INSTALLATION OF CONSTRUCTION PANELS

- A. Wall Sheathing: Orient sheathing panels with long dimension perpendicular to wall studs and end over firm bearing, stagger end joints between adjacent panels, securely nail as noted on drawings or, where not noted, per code.
 - 1. Use only full sized panels, cut to fit; do not use cutoff ends pieced together where full size panel will fit.
 - 2. Edge/End Gap: Install sheathing panels with gap between sheets as recommended by APA.

3.05 SITE APPLIED WOOD TREATMENT

- A. Apply preservative treatment compatible with factory-applied treatment at site-sawn cuts, complying with manufacturer's instructions.
- B. Allow preservative to dry prior to erecting members.

3.06 DRILLING, CUTTING AND NOTCHING

- A. Do not drill, cut, notch or alter any structural framing, except as noted on the Drawings and in this specification, without the approval of Engineer and/or code requirements.

3.07 WORKMANSHIP

- A. Carpentry work shall be accomplished using the best workmanship, including the following:
 - 1. Crooked, bowed, twisted or damaged lumber culled out and used for blocking/backing.
 - 2. End cuts at proper angle and length for tight fit.
 - 3. Nailed connections free of splitting or damage.
 - 4. Framing aligned plumb and square.
 - 5. Framing conforming to specified tolerances.
 - 6. Bolt/anchor holes not oversized or misaligned.
 - 7. Panel ends aligned at center of supporting framing member.
 - 8. Panel ends and edges properly gapped.
 - 9. Consistent nail spacing on panels.
- B. Any part of the carpentry work installed with improper or poor workmanship shall be removed and replaced at Contractor's expense.

3.08 TOLERANCES

- A. Framing Members: 1/4 inch from true position, maximum, provided other tolerances are met.
- B. Wall Plane (Flatness): Maximum of 1/4" in 10'-0" out of plane (this equates to no more than 1/8" gap at each end of a 10'-0" long straightedge center on high spot in wall, or no more than 1/8" gap at center of a 10'-0" long straightedge centered on low spot in wall).

- C. Variation from Plane (Other than Walls): 1/8 inch in 10 feet maximum, and 1/4 inch in 30 feet maximum.

END OF DIVISION 061000 – ROUGH CARPENTRY

DIVISION 079000 – JOINT SEALERS

PART 1 – GENERAL

1.01 SECTION INCLUDES

- A. Exterior Joint Sealers.

1.02 RELATED WORK

- A. Coordinate the work of this section with all other sections of the project-specific Specifications and the Contract Drawings.

1.03 SUBMITTALS

- A. Product Data: Provide data indicating sealant chemical characteristics, performance criteria, substrate preparation, limitations, and color availability.

1.04 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing the Products specified in this Section with minimum 5 years experience.
- B. Applicator Qualifications: Company specializing in performing the work of this section with minimum 5 years experience.

1.05 ENVIRONMENTAL REQUIREMENTS

- A. Maintain temperature and humidity recommended by the sealant manufacturer during and after installation.

1.06 COORDINATION

- A. Coordinate the work with all sections referencing this section.

1.07 GUARANTY

- A. The Contractor shall guaranty the sealant installation for a period of 5 years against defects in installed materials and workmanship including a 5 year watertight warranty. Correct any sealant that is found to be defective, improperly installed or leaks within a 5 year period at no cost to the Owner.

PART 2 – PRODUCTS

2.01 SEALANTS

- A. Type A – Exterior Joint Sealant: Silicone; ASTM C 920, Type S, Grade NS, Class 50, Uses NT, M, G, A and O; single component.

1. Color: Color as selected to match adjacent material, selected from manufacturer's full range of available colors.
 2. Product: *795 Silicone Building Sealant* manufactured by Dow Corning.
 3. Applications: Use for:
 - a. Exterior masonry control joints – (match mortar color and sand sealant).
- B. Type B – Exterior Joint Sealant: Polyurethane; ASTM C 920, Type S, Grade NS, Class 25, Uses NT, M, G, A and O.
1. Color: Color as selected to match adjacent material, selected from manufacturer's full range of available colors.
 2. Product: *Dynatrol I XL* single component or *Dynatrol II* two component (as required to achieve required color) manufactured by Pecora, or equal.
 3. Applications: Use for:
 - a. Sealant for sheet metal flashing installations/joints.
 - b. Exterior locations requiring painted finish over sealant.
 - c. Other exterior joints for which no other sealant is indicated.
 - d. Concealed secondary sealant.
- C. Type C – Exterior Lap Joint Sealant: Butyl rubber, non-drying, non-skinning, non-curing.
1. Product: *BC-158 Butyl Rubber Sealant* manufactured by Pecora or approved.
 2. Applications: Use for:
 - a. Sealant for lap joints in masonry flashings.
 - b. Concealed sealant bead in lap joints for sheet metal work.
 - c. Concealed sealant bead in lap joints in prefinished wall and roof panels.
 - d. Do not use in any location exposed to view.

2.02 ACCESSORIES

- A. Primer: Non-staining type, recommended by sealant manufacturer to suit application.
- B. Joint Cleaner: Non-corrosive and non-staining type, recommended by sealant manufacturer; compatible with joint forming material.
- C. Joint Backing: Round foam rod compatible with sealant of type recommended by sealant manufacturer for type of sealant; ASTM D 1667, oversized as recommended by sealant manufacturer.
- D. Bond Breaker: Pressure sensitive tape recommended by sealant manufacturer to suit application.
- E. Foam Tape: PVC Foam Tape (adhesive both sides).
- F. Sand (For Sanded Joints): Provide sand matching color of masonry mortar.

PART 3 – EXECUTION

3.01 COORDINATION

- A. Review, coordinate and accommodate work of other trades that interface with, affect or are affected by the work of this Section so as to facilitate the execution of the overall Work of this project in a coordinated and efficient manner.
- B. Coordinate work sequences and installation with work of other trades to provide a weathertight installation at exterior applications.

3.02 EXAMINATION

- A. Inspect the substrate surfaces and joint openings and confirm they are ready to receive sealant work.
- B. Confirm that joint size, configuration and conditions conform to sealant manufacturer's requirements so as to achieve manufacturer's published sealant performance.
- C. Verify that joint backing and release tapes are recommended for use by sealant manufacturer with the specified sealant.
- D. Do not start sealant installation until substrate surfaces and joint opening conform to sealant manufacturer's requirements.
- E. Start of sealant installation indicates installer's acceptance and confirmation that substrate, joint openings and conditions are in conformance with sealant manufacturer's requirements.

3.03 PREPARATION

- A. Thoroughly clean and prepare joint substrate surfaces in accordance with sealant manufacturer's instructions to achieve published sealant performance.
- B. Remove loose materials and foreign matter which might impair adhesion of sealant.
- C. Clean and prime joints in accordance with manufacturer's instructions.
- D. Protect elements surrounding the work of this section from damage or disfiguration.

3.04 INSTALLATION

- A. Perform work in accordance with sealant manufacturer's requirements for preparation of surfaces and material installation instructions to achieve published sealant performance.
- B. Perform installation in accordance with ASTM C 1193.
- C. Measure joint dimensions and size joint backers to achieve width-to-depth ratio, neck dimension, and surface bond area as recommended by manufacturer.
- D. Install bond breaker where joint backing is not used.
- E. Install foam tape at locations indicated on drawings.
- F. Install sealant free of air pockets, foreign embedded matter, ridges, and sags.

- G. Apply sealant within recommended application temperature ranges. Consult manufacturer when sealant cannot be applied within these temperature ranges.
- H. Tool joints concave.
- I. Broadcast sand into joints specified to be sanded.

3.05 CLEANING

- A. Clean adjacent soles surfaces.

3.06 PROTECTION OF FINISHED WORK

- A. Protect sealants until cured.

END OF DIVISION 079000 – JOINT SEALERS

DIVISION 099113 – PAINTS AND COATINGS

PART 1 – GENERAL

1.01 SECTION INCLUDES

- A. Exterior Painting

1.02 RELATED WORK

- A. Coordinate the work of this section with all other sections of the project-specific Specifications and the Contract Drawings.

1.03 REFERENCES

- A. All references shall be the latest adopted edition unless noted otherwise.
- B. Architectural Painting Specification Manual by the Master Painters Institute (MPI), including Identifiers, Evaluation, Systems, Preparation and Approved Product List. (Hereafter referred to as the MPI Architectural Painting Manual)
- C. SSPC – Steel Structures Painting Council, Steel Structures Painting Manual.

1.04 SUBMITTALS

- A. Product Data: For each type of product. Include preparation requirements and application instructions.
- B. Samples for Initial Selection: For each type of topcoat product.
- C. Samples for Verification: For each type of paint system and each color and gloss of topcoat.
 - 1. Submit Samples on rigid backing, 8 inches (200 mm) square.

- D. At project completion provide an itemized list complete with manufacturer, paint type and color coding for all colors used for Owner's later use in maintenance.

1.05 MAINTENANCE MATERIALS

- A. Furnish extra materials, from the same product, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Paint: 5 percent, but not less than 1 gal. of each material and color applied.

1.06 QUALITY ASSURANCE

- A. All materials, preparation and workmanship shall conform to requirements of the latest edition of the Architectural Painting Specification Manual by the Master Painters Institute (MPI) (hereafter referred to as the MPI Painting Manual).
- B. Single Source Responsibility: All paint products used for painting a given material/surface shall be manufactured by the same company.
- C. All paint manufacturers and products used shall be as listed under the Approved Product List section of the MPI Painting Manual.
- D. This Contractor shall have a minimum of five (5) years proven satisfactory experience and shall show proof before commencement of work that he will maintain a qualified crew of painters throughout the duration of the work.
- E. All surfaces requiring painting shall be inspected by this Contractor and shall notify the General Contractor in writing of any defects or problems, prior to commencing painting work, or after the prime coat shows defects in the substrate.

1.07 REGULATORY REQUIREMENTS

- A. Conform to the latest edition of Industrial Health and Safety Regulations issued by applicable authorities having jurisdiction in regard to site safety (ladders, scaffolding, ventilation, etc.).
- B. Conform to requirements of local authorities having jurisdiction in regard to the storage, mixing, application and disposal of all paint and related waste materials.
- C. Conform to applicable code for flame and smoke rating requirements for products and finishes.

1.08 DELIVERY, STORAGE, AND HANDLING

- A. Delivery and Handling: Deliver products to Project site in an undamaged condition in manufacturer's original sealed containers, complete with labels and instructions for handling, storing, unpacking, protecting, and installing. Packaging shall bear the manufacture's label with the following information:
 - 1. Product name and type (description).
 - 2. Batch date.
 - 3. Color number.
 - 4. VOC content.
 - 5. Environmental handling requirements.

6. Surface preparation requirements.
7. Application instructions.

- B. Store materials not in use in tightly covered containers in well-ventilated areas with ambient temperatures continuously maintained at not less than 45 degrees F (7 deg C) and a maximum of 90 degrees F.
 1. Maintain containers in clean condition, free of foreign materials and residue.
 2. Remove rags and waste from storage areas daily.
- C. Take all necessary precautionary and safety measures to prevent fire hazards and spontaneous combustion and to protect the environment from hazard spills. Materials that constitute a fire hazard (paints, solvents, drop clothes, etc.) shall be stored in suitable closed and rated containers and removed from the site on a daily basis.

1.09 FIELD CONDITIONS

- A. Apply paints only when temperature of surfaces to be painted and ambient air temperatures are between 50 and 95° F (10 and 35° C).
- B. Do not apply paints in snow, rain, fog, or mist; when relative humidity exceeds 85 percent; at temperatures less than 5° F (3° C) above the dew point; or to damp or wet surfaces.
- C. Hazardous Materials: It is not expected that hazardous materials will be encountered in the Work.
 1. If suspected hazardous materials are encountered, do not disturb; immediately notify Architect and Owner.

1.10 SCHEDULING

- A. Schedule painting operations to prevent disruption of and by other trades.
- B. Schedule painting operations in occupied facilities to prevent disruption of occupants in and about the building. Painting shall be carried out in accordance with Owner's operating requirements. Schedule work such that painted surfaces will have dried before occupants are affected. Obtain written authorization from Tenant / Owner for changes in work schedule.

1.11 PROJECT / SITE REQUIREMENTS

- A. UNLESS specifically pre-approved by the specifying body, and the applied product manufacturer, perform no painting or decorating work when the ambient air and substrate temperatures are below 50° F (10° C) for both interior and exterior work.
- B. Perform no exterior painting work unless environmental conditions are within MPI and paint manufacturer's requirements or until adequate weather protection is provided. Where required, suitable weatherproof covering and sufficient heating facilities shall be in place to maintain minimum ambient air and substrate temperatures for 24 hours before, during and after paint application.
- C. Perform no interior painting or decorating work unless adequate continuous ventilation and sufficient heating facilities are in place to maintain ambient air and substrate temperatures above minimum requirements for 24 hours before, during and after paint application. Provide supplemental ventilating and heating equipment if ventilation and heating from existing system is inadequate to meet minimum requirements.

- D. Perform no painting or decorating work when the relative humidity is above 85% or when the dew point is less than 5° F (3° C) variance between the air / surface temperature.
- E. Perform no painting or decorating work when the maximum moisture content of the substrate exceeds:
 - 1. 15% for wood.
 - 2. 12 % for plaster and gypsum board.
- F. Conduct all moisture tests using a properly calibrated electronic Moisture Meter, except test concrete floors for moisture using a simple cover patch test.
- G. Test concrete, masonry and plaster surfaces for alkalinity as required.

Note: Concrete and masonry surfaces must be installed at least 28 days prior to painting and decorating work and must be visually dry on both sides.
- H. Apply paint only to dry, clean, properly cured and adequately prepared surfaces in areas where dust is no longer generated by construction activities such that airborne particles will not affect the quality of finished surfaces.
- I. Perform no painting or decorating work unless a minimum lighting level of 323 Lux (30 foot candles) is provided on surfaces to be painted or decorated. Adequate lighting facilities shall be provided by the Painting Contractor.

PART 2 – PRODUCTS

2.01 MANUFACTURERS

- A. Basis-of-Design Product: Subject to compliance with requirements, provide Sherwin-Williams Company products indicated or comparable product from one of the following:
 - 1. Benjamin Moore & Co.
 - 2. Duron, Inc.
 - 3. Glidden Professional, Division of PPG Architectural Finishes, Inc.
 - 4. M.A.B. Paints.
 - 5. PPG Architectural Finishes, Inc.
 - 6. ICI Dulux
 - 7. Kelly Moore
 - 8. Master Coating Technologies
 - 9. Parker Paint
 - 10. Sherwin-Williams
 - 11. Tnemec
 - 12. Approved equal.
- B. Source Limitations: Obtain paint materials from single source from single listed manufacturer.
 - 1. Manufacturer's designations listed on a separate color schedule are for color reference only and do not indicate prior approval.
- C. Other materials such as linseed oil, shellac, thinners, solvents, etc. shall be the highest quality product of an MPI listed manufacturer and shall be compatible with paint materials being used as required.

- D. All materials used shall be lead and mercury free and shall have low VOC content where possible.
- E. All paint materials shall have good flowing and brushing properties and shall dry or cure free of blemishes, sags, air entrapment, etc.

2.02 PAINT, GENERAL

- A. MPI Standards: Provide products that comply with MPI standards indicated and that are listed in its "MPI Approved Products List."
- B. Material Compatibility:
 - 1. Provide materials for use within each paint system that are compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
 - 2. For each coat in a paint system, provide products recommended in writing by manufacturers of topcoat for use in paint system and on substrate indicated.
- C. VOC Content: Provide materials that comply with VOC limits of authorities having jurisdiction.
- D. Colors: As selected by Architect from manufacturer's full range.

2.03 EQUIPMENT

- A. Painting and Decorating Equipment: to best trade standards for type of product and application.
- B. Spray Painting Equipment: of ample capacity, suited to the type and consistency of paint or coating being applied and kept clean and in good working order at all times.

2.04 MIXING AND TINTING

- A. Unless otherwise specified herein or pre-approved, all paint shall be ready-mixed and pre-tinted. Re-mix all paint in containers prior to and during application to ensure break-up of lumps, complete dispersion of settled pigment, and color and gloss uniformity.
- B. Where thinner is used, addition shall not exceed paint manufacturer's recommendations. Do not use kerosene or any such organic solvents to thin water-based paints.
- C. If required, thin paint for spraying according in strict accordance with paint manufacturer's instructions. If directions are not on container, obtain instructions in writing from manufacturer and provide copy of instructions to Consultant.

2.05 ACCESSORY MATERIALS

- A. Accessory Materials: Linseed oil, shellac, turpentine, paint thinners and other materials not specifically indicated but required to achieve the finishes specified; commercial quality.
- B. Patching Material: Latex-based filler.

- C. Sealant: Silicon-latex acrylic sealant as specified in Section 079000.

PART 3 – EXECUTION

3.01 COORDINATION

- A. Review: Coordinate and accommodate work of other trades that interface with, affect or are affected by the work of this Section so as to facilitate the execution of the overall Work of this project in a coordinated and efficient manner.
- B. Coordinate selection of paint products to be applied over prime coats applied by others for compatibility and good adhesion.
- C. Schedule work to follow completion of all dust/dirt producing work.

3.02 EXAMINATION

- A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work. Verify suitability of substrates, including surface conditions and compatibility with existing finishes and primers. Where acceptability of substrate conditions is in question, apply samples and perform in-situ testing to verify compatibility, adhesion, and film integrity of new paint application.
 - 1. Report, in writing, conditions that may affect application, appearance, or performance of paint.
- B. Substrate Conditions:
 - 1. Maximum Moisture Content of Substrates: When measured with an electronic moisture meter as follows:
 - a. Concrete: 12 percent.
 - b. Masonry (Clay and CMU): 12 percent.
 - c. Wood: 15 percent.
 - d. Portland Cement Plaster: 12 percent.
 - e. Gypsum Board: 12 percent.
 - 2. Portland Cement Plaster Substrates: Verify that plaster is fully cured.
 - 3. Exterior Gypsum Board Substrates: Verify that finishing compound is sanded smooth.
- C. Test shop-applied primer/paint for proper adhesion and compatibility with subsequent cover materials.
- D. Measure moisture content of surfaces. Do not apply finishes unless moisture content of surfaces conforms to the recommendations of the MPI Manual and paint manufacturer.
- E. Proceed with coating application only after unsatisfactory conditions have been corrected; application of coating indicates acceptance of surfaces and conditions.

3.03 PREPARATION

- A. Comply with manufacturer's written instructions and recommendations in "MPI Manual" applicable to substrates and paint systems indicated.

- B. Remove hardware, covers, plates, and similar items already in place that are removable and are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and painting.
 - 1. After completing painting operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection.
- C. Clean substrates of substances that could impair bond of paints, including dust, dirt, oil, grease, and incompatible paints and encapsulants.
 - 1. Remove incompatible primers and re-prime substrate with compatible primers or apply tie coat as required to produce paint systems indicated.
- D. Concrete Substrates: Remove release agents, curing compounds, efflorescence, and chalk. Do not paint surfaces if moisture content or alkalinity of surfaces to be painted exceeds that permitted in manufacturer's written instructions.
- E. Masonry Substrates: Remove efflorescence and chalk. Do not paint surfaces if moisture content or alkalinity of surfaces or mortar joints exceeds that permitted in manufacturer's written instructions.
- F. Steel Substrates: Remove rust, loose mill scale, and shop primer if any. Clean using methods recommended in writing by paint manufacturer but not less than the following:
 - 1. SSPC-SP 2, "Hand Tool Cleaning."
 - 2. SSPC-SP 3, "Power Tool Cleaning."
 - 3. SSPC-SP 7/NACE No. 4, "Brush-off Blast Cleaning."
 - 4. SSPC-SP 11, "Power Tool Cleaning to Bare Metal."
- G. Shop-Primed Steel Substrates: Clean field welds, bolted connections, and abraded areas of shop paint, and paint exposed areas with the same material as used for shop priming to comply with SSPC-PA 1 for touching up shop-primed surfaces.
- H. Galvanized-Metal Substrates: Remove grease and oil residue from galvanized sheet metal by mechanical methods to produce clean, lightly etched surfaces that promote adhesion of subsequently applied paints.
- I. Aluminum Substrates: Remove loose surface oxidation.
- J. Wood Substrates:
 - 1. Scrape and clean knots. Before applying primer, apply coat of knot sealer recommended in writing by topcoat manufacturer for exterior use in paint system indicated.
 - 2. Sand surfaces that will be exposed to view, and dust off.
 - 3. Prime edges, ends, faces, undersides, and backsides of wood.
 - 4. After priming, fill holes and imperfections in the finish surfaces with putty or plastic wood filler. Sand smooth when dried.
- K. Surface Appurtenances: Remove electrical plates, hardware, light fixture trim, escutcheons, and fittings prior to preparing surfaces or finishing.

- L. Plastic Trim Fabrication Substrates: Remove dust, dirt, and other foreign material that might impair bond of paints to substrates.
- M. Sand, clean, dry, etch, neutralize and/or test all surfaces under adequate illumination, ventilation and temperature requirements.
- N. Marks: Seal with shellac those which may bleed through surface finishes.
- O. Factory Primed/Painted Items to be Painted: Hand sand factory finished surfaces to provide proper tooth for good adhesion of finish coats.

3.04 APPLICATION

- A. Apply paints according to manufacturer's written instructions and recommendations in "MPI Manual."
 - 1. Use applicators and techniques suited for paint and substrate indicated.
 - 2. Paint surfaces behind movable items same as similar exposed surfaces. Before final installation, paint surfaces behind permanently fixed items with prime coat only.
 - 3. Paint dock edge metal.
 - 4. Do not paint over labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.
 - 5. Primers specified in painting schedules may be omitted on items that are factory primed or factory finished if acceptable to topcoat manufacturers.
- B. Tint undercoats same color as topcoat, but tint each undercoat a lighter shade to facilitate identification of each coat if multiple coats of same material are to be applied. Provide sufficient difference in shade of undercoats to distinguish each separate coat.
- C. If undercoats or other conditions show through topcoat, apply additional coats until cured film has a uniform paint finish, color, and appearance.
- D. Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and color breaks.
- E. Apply paint and coatings within an appropriate time frame after cleaning when environmental conditions encourage flash-rusting, rusting, contamination or the manufacturer's paint specifications require earlier applications.
- F. Painting coats specified are intended to cover surfaces satisfactorily when applied at proper consistency and in accordance with manufacturer's recommendations.
- G. Do not apply finishes on surfaces that are not sufficiently dry. Unless manufacturer's directions state otherwise, each coat shall be sufficiently dry and hard before a following coat is applied.
- H. Apply each coat to uniform appearance. Apply each coat of paint slightly darker than preceding coat unless otherwise approved.

3.05 FIELD QUALITY CONTROL

- A. All surfaces, preparation and paint applications shall be inspected.

- B. Painted exterior and interior surfaces shall be considered to lack uniformity and soundness if any of the following defects are apparent:
1. Brush / roller marks, streaks, laps, runs, sags, drips, heavy stippling, hiding or shadowing by inefficient application methods, skipped or missed areas, and foreign materials in paint coatings.
 2. Evidence of poor coverage at rivet heads, plate edges, lap joints, crevices, pockets, corners and re-entrant angles.
 3. Damage due to touching before paint is sufficiently dry or any other contributory cause.
 4. Damage due to application on moist surfaces or caused by inadequate protection from the weather.
 5. Damage and/or contamination of paint due to blown contaminants (dust, spray paint, etc.).
- C. Painted surfaces shall be considered unacceptable if any of the following are evident under natural lighting source for exterior surfaces and final lighting source (including daylight) for interior surfaces:
1. Visible defects are evident on vertical surfaces when viewed at normal viewing angles from a distance of not less than 1000 mm (39").
 2. Visible defects are evident on horizontal surfaces when viewed at normal viewing angles from a distance of not less than 1000 mm (39").
 3. Visible defects are evident on ceiling, soffit and other overhead surfaces when viewed at normal viewing angles.
 4. When the final coat on any surface exhibits a lack of uniformity of color, sheen, texture, and hiding across full surface area.
- D. Painted surfaces rejected by the Architect shall be made good at the expense of the Contractor. Small affected areas may be touched up; large affected areas or areas without sufficient dry film thickness of paint shall be repainted. Runs, sags of damaged paint shall be removed by scraper or by sanding prior to application of paint.

3.06 CLEANING AND PROTECTION

- A. At end of each workday, remove rubbish, empty cans, rags, and other discarded materials from Project site.
- B. After completing paint application, clean spattered surfaces. Remove spattered paints by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.
- C. Protect work of other trades against damage from paint application. Correct damage to work of other trades by cleaning, repairing, replacing, and refinishing, as approved by Architect, and leave in an undamaged condition.
- D. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces.
- E. Clean equipment and dispose of wash water / solvents as well as all other cleaning and protective materials (e.g. rags, drop cloths, masking papers, etc.), paints, thinners, paint removers / strippers in accordance with the safety requirements of authorities having jurisdiction.

3.07 REPAINTING OF EXISTING FINISHES

- A. Refer to MPI Maintenance Repainting Manual for repainting of existing finishes.

- B. Use finish coat of respective new surface paint system for minor repair of existing finishes. Use system primer where existing finishes are damaged down to bare surface.

3.08 EXTERIOR PAINTING SCHEDULE

- A. All materials/surfaces scheduled hereinafter shall be painted in accordance with designated MPI or proprietary Systems and Product requirements.
 - 1. Sheen on finish coats shall be as selected by Engineer from manufacturer's paint sheen samples.
 - 2. Use the same manufacturer for each coat specified for a given system, do not intermix different manufacturer's products within the same paint system unless specifically approved by manufacturer(s) and products are known to be compatible for use together.
 - a. Where primer is applied by others:
 - 1) Select paint system compatible with primer installed by others.
 - 2) Test compatibility and adhesion of proposed paint products over primer prior to application.
 - b. Paint failure due to incompatibility between different manufacturer's products is Contractor's responsibility to correct.
- B. Ferrous Metal, Galvanized-Metal, and Aluminum Substrates: Finish all surfaces.
 - 1. Exterior: MPI EXT 5.1T
 - a. Prime Coat: Shop primer specified in Section where substrate is specified.
 - b. First Coat: H.B. Self-priming Epoxy, MPI Product #120
 - c. Second Coat: Polyurethane, MPI Product #72.
 - d. Topcoat: Polyurethane, MPI Product #72.
 - e. Application: Spray.

END OF DIVISION 099113 – PAINTS AND COATINGS

DIVISION 312000 – STRUCTURAL FILL

PART 1 – GENERAL

1.01 SECTION INCLUDES

- A. Structural Fill.

1.02 RELATED WORK

- A. Coordinate the work of this section with all other sections of the project-specific Specifications and the Contract Drawings.

1.03 RELATED WORK

- A. All references shall be the latest adopted edition unless noted otherwise.
- B. ASTM C 136 – Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates.
- C. ASTM D 1556 - Test Method for Density and Unit Weight of Soil in Place by the Sand-Cone Method.

- D. ASTM D 1157 – Test Method for Laboratory Compaction Characteristics of Soil Using Modified Effort.
- E. ASTM D 2167 – Standard Test Method for Density and Unit Weight of Soil in Place by the Rubber Balloon Method.
- F. ASTM D 2922 – Standard Test Method for Density of Soil and Soil-Aggregate in Place by Nuclear Methods (Shallow Depths).
- G. ASTM D 2937 – Standard Test Method for Density of Soil in Place by the Drive Cylinder Method.
- H. WSDOT Specification: Standard Specification for Road, Bridge, and Municipal Construction, prepared by the Washington State Department of Transportation, the latest adopted edition. (Delete Measurement and Payment Provisions).
- I. WSDOT Standard Plans for Road and Bridge and Municipal Construction: Standard plans prepared by the Washington State Department of Transportation, latest revision issued prior to bid date.

1.04 PROJECT CONDITIONS

- A. Existing Improvements: Provide protection necessary to prevent damage to existing improvements not indicated for removal. Restore damaged improvements to their original condition.

PART 2 – PRODUCTS

2.01 MATERIALS

- A. Structural Fill: The Contractor shall utilize any of the following materials that allow compaction to the specified density (wet soil or weather conditions do not constitute cause for increase in Contract sum).
 - 1. Imported Structural Fill: Gravel borrow conforming to WSDOT Specification 9-03.14(1). Material at time of importing shall have a moisture content at or near enough to optimum to allow compaction to specified density, and shall be maintained at this level until compacted in place.

PART 3 – EXECUTION

3.01 COORDINATION

- A. Review, coordinate and accommodate work of other Sections that interface with, affect or are affected by the work of this Section so as to facilitate the execution of the overall work of this project in a coordinated and efficient manner.

3.02 HORIZONTAL & VERTICAL CONTROL

- A. Provide field engineering services. Establish elevations, lines, and levels, utilizing recognized engineering survey practices.
- B. Lay out and stake the work area prior to starting work.

3.03 PREPARATION

- A. Protect structures, utilities, concrete slabs, and other facilities from damage caused by structural fill operations.

3.04 EXCAVATION

- A. Excavate to elevations and dimensions required to accommodate the work.
- B. Compact any existing subgrade or excavated subgrade to required grade to uniformly firm and unyielding condition.

3.05 SUBGRADE COMPACTION, PROOF-ROLLING

- A. Cut Areas Under slab: After area has been cut to required grade, but prior to placement of any fill or structural elements, the exposed undisturbed native subgrade soils shall be compacted to a uniformly firm and unyielding condition.

3.06 FILL

- A. Preparation: Subgrade surface over which fill will be placed shall be free of any organic matter, vegetation, topsoil, debris, unsuitable soil materials, uncompactable soil, and deleterious materials from ground surface before placing fill.
 - 1. Subgrade Approval: Do not place fill until Testing Agency has inspected and approved the subgrade.
- B. Placement and Compaction: Place fill material in uniform thickness loose fill layers; limit fill layer thickness to no more than the compaction equipment being utilized is capable of compacting to the specified density through the full depth of layer, but in no case shall fill layer exceed a maximum thickness of 6 inches.
 - 1. Compact fill layers uniformly over the entire fill area to specified density.
 - 2. Continuously monitor compaction effort to assure that specified density is being achieved over entire area of fill.
 - 3. Adjust fill layer thickness as required to achieve specified compacted density through the full depth of layer.
 - 4. Coordinate compaction monitoring with testing lab compaction test results.
- C. Moisture Content: Uniformly moisten or aerate fill soil before compaction to the optimum moisture content to achieve specified density.
 - 1. Fill Material With Over Optimum Moisture Content: If specified density cannot be achieved because fill material is over optimum moisture content, select either of the following options:
 - a. Remove over optimum fill from the site and replace with fill with moisture content at optimum.
 - b. If weather and project schedule permits, dry out fill as required to achieve specified compaction by spreading out, etc.
 - 2. Fill Material With Under Optimum Moisture Content: Remove from site and replace, or provide water and equipment necessary to increase moisture content of fill uniformly so as to achieve specified density.

3.07 MOISTURE CONTROL

- A. Uniformly moisten or aerate subgrade and each subsequent fill or backfill layer before compaction to the optimum moisture content to achieve specified density.
 - 1. Provide equipment for applying water uniformly to the subgrade.
 - 2. Do not place backfill or fill material on surfaces that are muddy or frozen.
 - 3. Remove and replace, or scarify and air-dry otherwise suitable material that exceeds optimum moisture content and is too wet to compact to specified density.

3.08 COMPACTION

- A. Compact soil to the following percentage of maximum dry density as determined by the ASTM D 1557 (Modified Proctor) test procedure:
 - 1. Within the Bearing Plane* Under Building And Pavements: 95%
 - a. *The bearing plane is that area located directly beneath any building, structure or pavement.
- B. Reduce the thickness of lifts as required to accommodate the limitations of the compaction equipment being used to achieve specified density.
- C. Failure To Achieve Compaction Density: Contractor shall remove and replace any fill material that fails to meet the specified compaction density or that settles after project completion at the Contractor's expense.

3.09 GRADING

- A. General: Uniformly grade areas to a smooth surface free from irregular surface changes. Comply with compaction requirements and grade to cross section, lines, and elevation indicated.
 - 1. Provide a smooth transition between adjacent existing grades and new grades.
 - 2. Cut out soft spots, as determined by the Engineer, fill low spots, and trim high spots to comply with required surface tolerances.
- B. Grading Subgrade: Finish subgrades to required elevations.
 - 1. Subgrade surface shall be graded smooth and free of low spots or ridges that would stop the flow of water or result in ponding.

3.10 FIELD QUALITY CONTROL

- A. Contractor Quality Control: Employ/assign quality control personnel to monitor the work of this section for conformance to the requirements of this section and to good construction practices.
 - 1. Contractor is solely responsible for managing and controlling the quality of the work and conformance with the requirements of this Section.

2. Contractor shall rely on his own testing, experience and skill in determining what means and methods to employ to achieve specified compacted density and other requirements of this Section and not rely solely on test data from Testing Agency.
- B. Testing Agency: Contractor will engage a qualified testing agency to perform periodic field quality-control testing and review of Contractor's work.
1. Tests taken are spot checks only at a given location and shall not be interpreted as representing the quality or integrity of all of the earthwork performed.
 2. Test data and reviews shall not be construed as acceptance of the work by the testing agency nor shall it relieve the Contractor of his responsibility to replace non-conforming or failed work.
- C. Coordinate and schedule the work to accommodate inspections and testing as follows:
1. Testing Agency shall inspect and test the following:
 - a. Excavated subgrade prior to placement of any fill.
 - b. Each fill layer.
 - c. Areas required by the Engineer.
- D. Testing Agency will test compaction of soils in place according to ASTM D 1556, ASTM D 1557, ASTM D 2167, ASTM D 2922, and ASTM D 2937, as applicable. Tests will be performed at the following locations and minimum frequencies:
1. Fill Under Slab and Pavement: At each fill and backfill layer, at least one test every 1,000 sq. ft or less of fill, but in no case fewer than three tests.
- E. When testing agency report that subgrade, fill, or backfill has not achieved degree of compaction density specified, scarify and moisten or aerate, or remove and replace soil to depth and width determined by the Engineer; re-compact or replace with compacted structural fill and retest, as required to achieve specified compaction density.

3.11 PROTECTION

- A. Protect building and utility structures from damage or collapse due to operation of heavy compaction equipment in too close proximity. Use smaller lifts and had operated compaction equipment around walls and structures where damage could occur.
- B. Repair and re-establish 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 and structural fill material to depth as required by Engineer; reshape and re-compact.
- C. Repair and/or replacement of damaged facilities shall be accomplished at the Contractor's expense.

3.12 CORRECTION OF SUBGRADE SETTLEMENT

- A. Where settlement of subgrade occurs at any time, remove and replace as follows:

1. Inform Engineer immediately of any settlement that appears on the site or in the building.
2. Remove affected/failed pavement or building elements and underlying settled soil, as required by the Engineer, until firm, dense and unyielding suitable soil is exposed, backfill with structural fill (or other material as required by Engineer) and compact to specified density, and reconstruct removed pavements and building elements to match original construction.
3. Restore appearance, quality, and condition of finished surfaces to match adjacent work, and eliminate evidence of restoration to the greatest extent possible.
4. The cost of correction of settlement, including restoration of pavements or building elements, resulting from Contractor's failure to comply with the requirements of the Contract Documents or as required by Engineer shall be borne by the Contractor.

3.13 GENERAL NOTES FOR STRUCTURAL FILL

- A. Tracks will need to be protected to prevent any damage during construction activities.

END OF DIVISION 312000- STRUCTURAL FILL

DIVISION 312200- EXCAVATION

PART 1 – GENERAL

1.01 SECTION INCLUDES

- A. This section consists of furnishing all labor, materials and equipment necessary and incidental to excavation to complete site grading, site preparation, general and footing excavation as shown on the Contract Drawings. All associated excavation and miscellaneous items unless otherwise noted, is included in the work described in this section.

1.02 RELATED WORK

- A. Coordinate the work of this section with all other sections of the project-specific Specifications and the Contract Drawings.

1.03 REFERENCE STANDARDS

- A. Comply with provisions of all local, state and federal codes, specifications, standards and recommended practices, except as otherwise indicated and, in particular, of most recent English measurement edition and addenda thereto of the following:
- B. City of Pasco: Standard Specifications
- C. WSDOT Standard Specifications for Road, Bridge and Municipal Construction – 2014.
- D. WUTC Washington State Utilities and Transportation Commission.

- E. ASTM: American Society for Testing Materials
- F. Port of Pasco: Standard Specifications
- G. All references shall be the latest adopted edition unless noted otherwise.

1.04 SAFETY CONSIDERATIONS

- A. The Contractor is solely responsible for developing a safety plan to protect workers and the public from injury or harm conforming to all Local, State and Federal requirements and for executing and enforcing it on the Project site.
 - 1. It is not the intent of the Construction Documents to dictate any unsafe construction means or methods; Contractor shall determine means and methods of construction conforming to their safety plan as required to construct work shown on the Contract Documents.

PART 2 – PRODUCTS

2.01 MATERIALS

- A. General: Provide imported soil materials when suitable soil materials are not available from excavation.

PART 3 – EXECUTION

3.01 COORDINATION

- A. Review, coordinate and accommodate work of other Sections that interface with, affect or are affected by the work of this Section so as to facilitate the execution of the overall work of this project in a coordinated and efficient manner.

3.02 PREPARATION

- A. Locate and mark existing utilities as required.
- B. Schedule shutdown of existing utilities affected by earthwork operations as required.
- C. Protect structures, utilities, sidewalks, pavements, and other facilities from damage caused by settlement, lateral movement, undermining, washout, and other hazards created by earthwork operations.
- D. Preparation of subgrade for earthwork operations including removal of vegetation, topsoil, debris, obstructions, and deleterious materials from ground surface.
- E. Protect and maintain erosion and sedimentation controls during earthwork operations and maintain dust control at all times.

3.03 EXCAVATION

- A. Excavate to elevations and dimensions required to accommodate the work.
- B. Protect subgrades from softening, undermining, washout, and damage by rain or water accumulation.

1. Reroute surface water runoff away from excavated areas. Do not allow water to accumulate in excavations. Do not use excavated trenches as temporary drainage ditches.
2. Install a dewatering system to keep subgrades dry and convey ground water away from excavations. Maintain until dewatering is no longer required.

3.04 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, as determined by the Engineer, fill low spots, and trim high spots to comply with required surface tolerances.
 3. Subgrade surface shall be graded smooth and free of low spots or ridges that would stop the flow of water or result in ponding.

3.05 BACKFILL

- C. Backfill: Fill areas with uniform thickness loose fill layers placed over the compacted subgrade or previous layer of fill and compact each layer to specified density.
1. Limit fill layer thickness to no more than the compaction equipment being utilized is capable of compacting to the specified density through the full depth of layer, but in no case shall fill layer exceed a maximum thickness of 6 inches.
 2. Utilize means and methods for compacting backfill that will not damage or displace the underlying utility or any structures while achieving specified density.
 3. Continuously monitor compaction effort to assure that specified density is being achieved over entire area of backfill area.
 4. Adjust fill layer thickness as required to achieve specified compacted density through the full depth or layer.
 5. Coordinate compaction monitoring with testing lab compaction test results.
 6. Take special precaution around utility and building structures to assure that compaction of backfill is achieved, adjust the type of compaction equipment and change type of backfill being placed to avoid areas that do not achieve the specified density and result in settlement.
 7. If wet weather or site conditions are anticipated or encountered, utilize backfill materials and means and methods that will permit placement and compaction of fill material to specified density.
- D. Coordinate backfilling to allow utilities testing and inspection.
- E. Fill voids with approved backfill materials while shoring and bracing, and as sheeting is removed.
- F. Place and compact final backfill material to final subgrade.

3.06 COMPACTION OF BACKFILL AND FILLS

- A. Preparation: Subgrade surface over which fill will be placed shall be free of any organic matter, vegetation, topsoil, debris, unsuitable soil materials, uncompactable soil, and deleterious materials from ground surface before placing fill.
 - 1. Subgrade Approval: Do not place fill until Testing Agency has inspected and approved the subgrade.
- G. Place backfill materials to the following percentage of maximum density as determined by the ASTM D 1557 (Modified Proctor) test procedure.
 - 1. Within the Bearing Plane* Under Building And Pavements: 95%
 - a. *The bearing plane is that area located directly beneath any building, structure or pavement or within a 1 to 1 slope away from the bottom outside edge of any foundation or pavement.
 - 2. Areas outside of building and pavement bearing plane: 90%
- H. Reduce the thickness of lifts as required to accommodate the limitations of the compaction equipment being used to achieve specified density.
- I. Protect utility line from damage during compaction.
- J. Failure to Achieve Compaction Density: Contractor shall remove and replace any backfill material that fails to meet the specified compaction density or that settles after project completion at their own expense.

3.07 DUST CONTROL

- A. Control and prevent the production of airborne dust due to wind or construction equipment traffic at all times during construction by watering the work area and site; comply with all local and State air quality regulations.
- B. Do not permit conditions on the site that would allow airborne dust resulting from the work of this project to drift onto adjacent properties.

3.08 BASE COURSES FOR PAVEMENTS

- A. Place base course on subgrades free of mud, frost, snow, or ice.
- B. On prepared subgrade, place base course under pavements as follows:
 - 1. Shape base course to required crown elevations and cross-slope grades.
 - 2. Place base course that exceeds 6 inches in compacted thickness in layers of equal thickness, with no compacted layer more than 6 inches thick or less than 3 inches thick.
 - 3. Compact base course 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.

3.09 FIELD QUALITY CONTROL

- A. Contractor Quality Control: Employ/assign quality control personnel to monitor the work of this section for conformance to the requirements of this section and to good construction practices.
 - 1. Contractor is solely responsible for managing and controlling the quality of the work and conformance with the requirements of this section.
 - 2. Contractor shall rely on his own testing, experience and skill in determining what means and methods to employ to achieve specified compacted density and other requirements of this section and not rely solely on test data from Testing Agency.

3.10 PROTECTION

- A. Protecting Subgrade and Graded Areas:
 - 1. Protect newly graded areas from damage due to traffic, freezing, and erosion.
 - 2. Protect newly exposed subgrade from damage due to water, traffic, freezing, and erosion. Plan work so that subgrade is not left open and exposed to wet weather and construction traffic.
 - 3. Contractor is responsible for planning and overseeing the work so that exposed subgrade is protected from becoming soft, yielding or unsuitable after being exposed, requiring over-excavation and structural fill.
 - 4. Contractor is responsible for planning and overseeing the work so that excavated soil and stockpiles are protected from becoming wet and over optimum moisture content, requiring removal and replacement.
- B. Protect building and utility structures from damage or collapse due to operation of heavy compaction equipment in too close proximity. Use smaller lifts and hand operated compaction equipment around retaining walls and utility structures.
- C. 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 required by Engineer; reshape and re-compact.
- D. Utilities: The Contractor shall protect private and public utilities from damage. Adequate provisions shall be made for maintaining all electrical, and other overhead or underground facilities encountered during construction. Structures which have been disturbed or damaged by the Contractor shall be satisfactorily restored, unless shown for demolition, upon completion of the work.
- E. Repair and/or replacement of damaged facilities shall be accomplished at the Contractor's expense.

3.11 CORRECTION OF SUBGRADE SETTLEMENT

- A. Where settlement of subgrade occurs at any time, remove and replace as follows:
 - 1. Inform Port immediately of any settlement that appears on the site.
 - 2. Remove affected/failed pavement elements and underlying settled soil, as required until firm, dense and unyielding suitable soil is exposed, backfill with structural fill (or other material as required) and

compact to specified density, and reconstruct removed pavement elements to match original construction.

3. Restore appearances, quality, and condition of finished surfaces to match adjacent work, and eliminate evidence of restoration to the greatest extent possible.
4. The cost for correction of settlement, including restoration of pavements, resulting from Contractor's failure to comply with the requirements of the Contract Documents or as required by Engineer shall be borne by the Contractor.

3.12 DISPOSAL OF SURPLUS AND WASTE MATERIALS

- A. Disposal: Remove surplus suitable soil to site within Port and grade appropriately as directed by Port. Remove unsuitable waste material including soil, trash, and debris, and legally dispose of it off Port property.

3.13 RAILROAD TRACKS

- A. Railroad tracks are being used for deliveries of product to tenants. Contractor shall protect all tracks, ballast areas, walkways, etc. from damage through and during construction activities. All equipment and materials must be clear of tracks after daily shifts for BNSF deliveries in the evenings and early mornings.

END OF DIVISION 312200- EXCAVATION

SECTION 32140 PAVING & SURFACE TREATMENTS

PART 1 – GENERAL

1.01 DESCRIPTION

This section consists of furnishing all labor, materials and equipment necessary and incidental to asphalt paving and surface treatments to complete paving and surface preparations as shown on the Contract Drawings. All associated paving and miscellaneous surface preparation items unless otherwise noted, is included in the work described in this section.

1.02 SECTION INCLUDES

- A. Crushed Surfacing Base & Top Courses
- B. Asphalt Paving

1.03 RELATED WORK

Coordinate the work of this section with all other sections of the project-specific Specifications and the Contract Drawings, but more specifically the following sections:

- A. Section 01000, Special Provisions Roadway
- B. Section 4, 5, 7 & 9 of the SWSS
- C. Section 02413, Pavement Removal

- D. Section 02419, Selective Demolition
- E. Section 31200, Excavation
- F. Section 32116, Asphalt Milling
- G. Section 32117, Tack Coat

1.04 REFERENCE STANDARDS

Comply with provisions of all local, state and federal codes, specifications, standards and recommended practices, except as otherwise indicated and, in particular, of most recent English measurement edition and addenda thereto of the following:

- A. City of Pasco: Standard Specifications
- B. WSDOT Standard Specifications for Road, Bridge and Municipal Construction – Latest Edition.
- C. WUTC Washington State Utilities and Transportation Commission.
- D. ASTM: American Society for Testing Materials
- E. Port of Pasco: Standard Specifications
- F. All references shall be the latest adopted edition unless noted otherwise.

1.05 SUBMITTALS

- A. Product Data: For each type of product indicated. 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.
- C. Material certificates.

1.06 QUALITY ASSURANCE

- A. Perform Work in accordance with the City of Pasco Amendment to the Standard Specifications and the WSDOT Standard Specification.
- B. Mixing Plant: Conform to the City of Pasco Amendment to the Standard Specifications and the WSDOT Standard Specification.
- C. Obtain materials from same source throughout.
- D. Manufacturer Qualifications: Manufacturer shall be registered with and approved by authorities having jurisdiction or the DOT of the state in which Project is located.

1.07 REGULATORY REQUIREMENTS

- A. Conform to City requirements for all work within the City Right-Of-Way.

1.08 ENVIRONMENTAL REQUIREMENTS

- A. Conform to weather limitations for paving as listed in the City of Pasco Amendment.

PART 2 – PRODUCTS

2.01 MATERIALS

- A. Crushed Surfacing Base Course & Top Course: WSDOT Specification 9-03.9(3) for crushed surfacing base course and top course.
- B. Asphalt Concrete Paving Materials: WSDOT Specification 5-04 and 9-03.8.
- C. Primer: In accordance to WSDOT Standard Specification.
- D. Tack Coat: In accordance to WSDOT Standard Specification 5.04.3(5)A.
- E. Herbicide Treatment: Commercial chemical for weed control, registered by Environmental Protection Agency.

2.02 ASPHALT PAVING MIXES AND MIX DESIGN

- A. Provide plant-mixed, hot-laid asphalt-aggregate mixture complying with WSDOT Standard Specification 5-04 and associated City of Pasco Amendments for mix design.
- B. Aggregate For Asphalt Concrete: Conform to WSDOT 9-03.8, HMA Class 1/2 inch.
- C. Provide mixes with a history of satisfactory performance in geographical area where Project is located.

PART 3 – EXECUTION

3.01 PREPARATION OF SURFACE

- A. Prior to commencement of paving operations, the existing pavement surface shall be cleaned of all accumulated dust, mud, vegetation or other debris, which may affect the bond of the thin lift hot mix asphalt overlay by the Contractor.

3.02 PROJECT CONDITIONS

- A. Environmental Limitations: Do not apply asphalt materials if subgrade is wet or excessively damp or if the following conditions are not met:
 - 1. Tack Coat: Minimum surface temperature of 60 deg F.
 - 2. Asphalt Base Course: Minimum surface temperature of 40 deg F and rising at time of placement.
 - 3. Asphalt Surface Course: Minimum surface temperature of 60 deg F at time of placement.

3.03 COORDINATION

- A. Coordinate with and accommodate the tenants prior to operations of asphalt and milling operations.

3.04 EXAMINATION

- A. Verify that compacted subgrade and granular base is dry, compacted to specified density and ready to support paving and imposed loads.
- B. Proof-roll subgrade to check for unstable areas or areas requiring additional compaction.
- C. Verify gradients and elevations of base are correct.
- D. Placement of crushed surfacing top course indicates acceptance of the subgrade by installer.

3.05 HERBICIDE TREATMENT

- A. Apply herbicide treatment in strict compliance with manufacturer's recommended dosage and application instructions to the subgrade prior to placement of granular base.
- B. Apply herbicide to the granular base course after it has been graded and compacted.

3.06 TOP COURSE

- A. The top and base course shall conform to Section 9-03.9(3) of WSDOT M41-10 latest amendment. Top course may be used for base course.
- B. Place crushed surfacing top course over properly compacted subgrade to compacted thickness shown on Drawings.
- C. Grade crushed surfacing top course accurately to proper slope and elevation.
- D. Compact crushed surfacing top course to 95% of maximum density as determined by ASTM Test Method D-1557 (Modified Proctor).
- E. Check the elevation, surface tolerances and slopes of compacted crushed surfacing top course using a level and 10' straightedge to confirm proper flatness and drainage. Regrade and re-compact any areas that do not conform.

3.07 PREPARATION - PRIMER

- A. Apply primer to base course in accordance with WSDOT Standard Specification.

3.08 PREPARATION – TACK COAT

- A. Apply tack coat in accordance with WSDOT Standard Specification to all asphalt sub-surfaces under asphalt paving and to contact surfaces at the joints between old and new pavement. Allow tack coat to cure undisturbed before applying hot-mix asphalt paving.
- B. Avoid smearing or staining adjoining surfaces, appurtenances, and surroundings. Remove spillages and clean affected surfaces.

3.09 PLACING ASPHALT PAVEMENT

- A. Install Work in accordance with City of Pasco Amendments and WSDOT Standard Specifications using equipment and methods that will spread the asphalt pavement in a minimum 10' widths, having a uniform thickness and a smooth flat surface free of imperfections or exposed aggregate that does not allow ponding of water anywhere.
- B. Machine place hot-mix asphalt 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.
- C. Regulate paver machine speed to obtain smooth, continuous surface free of pulls and tears in asphalt-paving mat.
- D. 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.
- E. Place asphalt within 24 hours of applying primer or tack coat.
- F. Compact pavement by rolling to specified density. Do not displace or extrude pavement from position. Hand compact in areas inaccessible to rolling equipment.
- G. Perform rolling with consecutive passes to achieve even and smooth finish without roller marks or open, exposed aggregate.

3.10 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.
 - 1. Complete compaction before mix temperature cools to 185 deg F. ACP shall be compacted to a min. 91% of the maximum specific gravity (Rice Density).
- B. Protection: After final rolling, do not permit vehicular traffic on pavement until it has cooled and hardened.
- C. Erect barricades to protect paving from traffic until mixture has cooled enough not to become marked.

3.11 INSTALLATION TOLERANCES

- A. Thickness: Compact each course to produce the thickness indicated within the following tolerances:
 - 1. Base Course: Plus or minus 1/2 inch.
 - 2. Surface Course: Plus 1/4 inch, no minus.
- B. Surface Smoothness: Compact each course to produce a surface smoothness within the following tolerances as determined by using a 10-foot straightedge applied transversely or longitudinally to paved areas:
 - 1. Base Course: 1/4 inch.

2. Surface Course: 1/8 inch.

3.12 JOINT SEALING

- A. After pavement has been placed for at least 48 hours, apply hot tar to all joints between old and new pavement. Joint should be clean and dry, heat the joint just ahead of the hot tar application with a torch to allow good bond of tar to pavement and proper sealing of joint. Sprinkle clean, dry sand into the tar while it is still hot.

3.13 INSTALLATION – ASPHALT SEAL COAT

- A. Preparation & Repair: Clean existing asphalt surfaces in accordance with ISSA Guidelines; repair any cracks or damaged areas in existing pavement before application of seal coat.
- B. Application: Apply asphalt seal coat uniformly to existing asphalt paving surfaces noted on the Drawings in accordance with ISSA Guidelines.

3.14 FIELD QUALITY CONTROL

- A. Contractor Quality Control: Employ/assign quality control personnel to monitor the work of this Section for conformance to the requirements of this section and to good construction practices.
 1. Contractor is solely responsible for managing and controlling the quality of the work and conformance with the requirements of this Section.
 2. Contractor shall rely on his own testing, experience and skill in determining what means and methods to employ to achieve specified compacted density and other requirements of this Section and not rely solely on test data from Testing Agency.

SECTION 32140 PAVING & SURFACE TREATMENTS-END OF SECTION

Section 2:

Permits: Owner shall be responsible for obtaining all City of Pasco Building Department, Hazardous Materials removal and any state, county or local governmental permits and any costs and fees associated with and applicable to this project for these permits and applications. Contractor shall be responsible for the costs of disposal of all building debris associated with project. The plan review fee will be paid for by the Port of Pasco.

Section 3:

Disposal & Notification: Contractor shall be responsible for the disposal of all debris in a legal manner according to all applicable laws, codes and regulations. Notification of proper authorities for hazardous materials removal if required shall be the responsibility of the contractor. All fees associated with disposal of hazardous materials and general construction debris shall be included in Contractors scope of work.

Section 4:

Site: Excavated areas shall be brought to grade with clean fill dirt or sand. Fill shall be thoroughly compacted in lifts not to exceed 8-inches before placing the next lift and compacted to 95% proctor. All testing shall be included in contractor scope of work. One inch of ¾ inch minus crushed rock shall be placed over disturbed areas of the site.

Section 5:

Dust Control and Water: Contractor shall, at all times during the length of the contract, maintain proper dust control at the project sites. Non-potable water is available from the Port of Pasco at no charge to the Contractor.

Section 6:

Utilities: Contractor shall be responsible to coordinate with Port of Pasco and other local utility companies for the proper location of all utilities.

Section 7:

Security: Contractor shall erect temporary construction fencing as determined by contractor to extent they determine necessary to secure the site during construction and maintain public safety. Materials shall be stored to protect nearby properties from wind-blown debris.

Section 8:

Health and Safety: The Contractor's attention is alerted to the strict enforcement and requirements of the "Occupational Safety and Health Act" (OSHA) and "The Washington Industrial Safety and Health Act of 1973" (WISHA), which apply to all operations within this contract. The Contractor shall comply with all provisions thereof and make such reports and maintain such records as the acts require. The Contractor shall prepare a project-specific health and safety plan in full compliance with OSHA and WISHA requirements. The Contractor shall be solely and completely responsible for conditions of the job site including safety of all persons and property during performance of the work. This requirement will apply continuously and not be limited to normal working hours.

Section 9:

Plans: The plans are for reference only. Dimensions are estimated and location details are general in nature.

Section 10:

Cleanup: Contractor shall leave the job site clean on a daily basis.

BID FORM
Small Works Contract

To: Port Of Pasco
1110 Osprey Pointe Blvd, Suite 201
P O Box 769
Pasco, WA 99301

Project: Big Pasco Industrial Center WH2B3 Concrete Dock

Submitted By: _____
(Full Name)

(Address)

(City, State and Zip Code)

(Phone Number) (Employment Security Dept. Number)

Offer: Furnish labor, equipment, and material, to complete "Big Pasco Industrial Center WH2B3 Concrete Docks " according to the specifications and other descriptive documents, for the amount of (including Washington Sales Tax):

1	Base Bid WH2B3 Concrete Dock	LS	\$
	WSST 8.9%	LS	\$
Total Base Bid Incl. WSST		(use numbers)	\$
		(use words)	dollars

Signature

Date

Print Name

(Contractor License Number)

Title: _____
If Corporation please affix Corporate Seal.

(Contractor UBI Number)

(Federal Employer ID Number)

CERTIFICATION OF COMPLIANCE WITH WAGE PAYMENT STATUS



Certification of Compliance with Wage Payment Statutes

The bidder hereby certifies that, within the three-year period immediately preceding the bid solicitation date (, 2025), the bidder is not a “willful” violator, as defined in RCW 49.48.082, of any provision of chapters 49.46, 49.48, or 49.52 RCW, as determined by a final and binding citation and notice of assessment issued by the Department of Labor and Industries or through a civil judgment entered by a court of limited or general jurisdiction.

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

Bidder's Business Name

Signature of Authorized Official*

Printed Name

Title

Date

City

State

Check One:

Sole Proprietorship ☐ Partnership ☐ Joint Venture ☐ Corporation ☐

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

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

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

Port of Pasco
BIDDERS'S CHECKLIST

The bidder's attention is especially called to the following forms which must be completed in full as required and submitted collectively as the bid proposal package:

- ____ 1. Proposal Form- The unit prices must be shown in the space provided. Show all unit prices in both words and figures when indicated.
- ____ 2. Bid Bond- Surety bond or Cashier's Check. The amount of the bid bond shall not be less than five percent (5%) of the total amount of the bid.
- ____ 3. Addenda- All Addenda shall be signed and included in sealed bid.
- ____ 4. Certification of Compliance with Wage Payment Status. Certification of Compliance with Wage Payment Status form shall be completed, signed and included in sealed bid.
- ____ 5. Sealed Envelope- Proposals shall be prepared on the standard proposal form attached. The proposal shall be placed in a sealed envelope marked in the lower left corner with "Proposal for *Job Name*". Please place name of company on front of envelope as well. See bidder instructions for further information.

The following forms shall be executed and submitted within ten (10) calendar days after Notice of Award.

- ____ 1. Contract- To be executed by the successful bidder.
- ____ 2. Payment and Performance Bonds- Separate performance and payment bonds shall be completed on Standard AIA bond forms by Contractor's Surety and submitted with Contractor executed Contracts.
- ____ 3. Certificate of Insurance- Contractor shall furnish Certificate of Insurance and all applicable Endorsements naming the Port of Pasco as additional insured on its Commercial General Liability and Automobile Liability Policies per General Instructions under Insurance in bid specifications Instructions to Bidders.
- ____ 4. Construction Schedule- To be submitted by Contractor prior to scheduled Pre-Construction meeting.
- ____ 5. Schedule of Values- To be submitted by Contractor with executed Contract.
- ____ 6. List of Subcontractors- To be submitted by Contractor with executed Contract.
- ____ 7. Contractor's W-9- To be submitted by Contractor with executed Contract.

The following shall be filed prior to Notice to Proceed.

- ____ 1. Statement of Intent to Pay Prevailing Wages- To be filed immediately by the Prime Contractor after Contract is awarded and before work begins and subsequently by all those providing labor on the project.

AGREEMENT

Agreement between Port of Pasco and Contractor

Small Works Contract

THIS AGREEMENT is made on the __ day of __, 2025 between the Port of Pasco (hereinafter “the Port”) and the contractor, __, (hereinafter “the Contractor”), who in consideration of the mutual promises contained herein, agree as follows:

ARTICLE 1: The Work

1.1 The Contractor shall perform all the work required by the contract documents identified in Article 5 and by this reference incorporated herein, for the project entitled Big Pasco Industrial Center WH2B3 Concrete Docks .

ARTICLE 2: Time of Commencement and Completion

2.1 The work to be performed under this contract shall commence not later than Notice to Proceed date and shall be completed not later than 60 calendar days following the date of commencement (hereinafter the “completion date”).

ARTICLE 3: Contract Sum

3.1 The Port will pay the Contractor, for the satisfactory performance of the work, a contract sum of (\$), which includes applicable Washington State sales tax.

ARTICLE 4: Payment

4.1 Monthly progress payments will be made for invoices submitted by the first of the month. Invoices should reflect work completed to date and are subject to approval by the Engineer. Materials and equipment not incorporated in the Work, but delivered, suitably stored, and accompanied by documentation satisfactory to the Port will be paid at 75% of cost (with the balance being retainage until fully incorporated into the Work).

4.2 Upon final acceptance of the work by the Port, the Contractor shall submit a final invoice in the amount of 100% of the contract sum, plus 100% of the applicable Washington State sales tax.

4.3 The Port may withhold payment (or a portion thereof) otherwise due the Contractor on account of:

- A. defective work not remedied;
- B. claims filed;
- C. failure of the Contractor to make payment properly to subcontractors or for labor, materials or equipment;
- D. damages to another Contractor; or
- E. unsatisfactory performance of the work by the Contractor.

4.4 The acceptance of the final payment by the Contractor shall constitute a waiver of all claims, of whatever sort or nature, by the Contractor against the Port.

4.5 Unless withheld pursuant to paragraph 4.3, final payment to the Contractor shall be made upon occurrence of the following:

- A. The expiration of 45 days following the final acceptance of the project, and
- B. The receipt by the Port of the department of revenue certificate of payment of state excise taxes if contract is for a sum of \$35,000.00 or more, and
- C. Satisfaction of the Port that the claims of materialmen and laborers incurred in filing and processing such claims have been paid or provided for, and
- D. All requirements of RCW 39.12 relating to Prevailing Wage have been met.

4.6 Retainage of 5% will be withheld until the requirements in Section 4.5 hereinabove and RCW 60.28 are met when contractor elects to furnish a performance and payment bond for the project of \$150,000 or less. If contractor elects not to furnish a performance and payment bond on project of \$150,000 or less, retainage of 10% will be withheld until the requirements in Section 4.5 hereinabove and RCW 60.28 are met.

ARTICLE 5: The Contract Documents

5.1 The contract documents, which by this reference are incorporated herein, consist of those documents listed below specifically:

- A. This Agreement.
- B. Invitation for Bids, Addenda, Small Works Roster.
- C. General Conditions

- D. Specifications.
- E. Bid Form submitted by Bidder
- F. Drawings.
- G. Prevailing Wages Schedule.

5.2 The contract documents set forth above form the entire and integrated agreement between the Parties hereto, and supersede all prior negotiations, representation, or agreements, either written or oral. The contract may be amended or modified only by a written amendment to the contract signed by both parties or by a change order.

5.3 By his execution of the contract, the Contractor represents that he has visited the site of the work and familiarized himself with all conditions under which the work is to be performed.

5.4 The Contractor shall comply with all applicable Federal/State laws, City/County ordinances, and rules and regulations of all authorities having jurisdiction of project construction. Said laws will be deemed to be included the same as though written out in full.

ARTICLE 6: Owner

6.1 The Port of Pasco, as owner, shall issue all instructions to the Contractor through an authorized representative. The Port shall at all times have access to the work wherever it is in preparation or progress.

ARTICLE 7: Contractor

7.1 The Contractor shall be solely responsible for all construction means, methods, techniques, sequences and procedures, and for performing, scheduling and coordinating all portions of the work under the contract in a proper fashion and in strict compliance with all applicable codes, rules, regulations and laws.

7.2 Contractor shall carry on the Work in a safe manner, and shall comply with all applicable federal, state and local laws, regulations, standards, and recognized trade practices for the protection and safety of its employees and other persons about its Work, including without limitation those governing labor, safety, health, sanitation, and protection of the environment.

7.3 Contractor is solely responsible for protection and safety of its employees, for final selection of safety methods and means, and for

establishing, supervising, inspecting and enforcing its safety obligations in accord with this Agreement and applicable law.

7.4 Contractor shall defend, indemnify and hold the Port, its officers, officials, employees, engineer and volunteers harmless from any and all claims, injuries, damages, losses or suits including attorney fees, arising out of or resulting from the acts, errors or omissions of the Contractor, any Subcontractor, any Supplier, or any individual or entity directly or indirectly employed by any of them in performance of this Agreement, except for injuries and damages caused by the sole negligence of the Port. Should a court of competent jurisdiction determine that this Agreement is subject to RCW 4.24.115, then, in the event of liability for damages arising out of bodily injury to persons or damages to property caused by or resulting from the concurrent negligence of the Contractor, any Subcontractor, any Supplier, or any individual or entity directly or indirectly employed by any of them and the Port, its officers, officials, employees, engineer and volunteers, the Contractor's liability, including the duty and cost to defend, hereunder shall be only to the extent of the Contractor's negligence, or of any Subcontractor, any Supplier, or any individual or entity directly or indirectly employed by any of them. It is further specifically and expressly understood that the indemnification provided herein constitutes the Contractor's waiver of immunity under Industrial Insurance, Title 51 RCW, solely for the purposes of this indemnification. This waiver has been mutually negotiated by the parties. The provisions of this section shall survive the expiration or termination of this Agreement.

7.5 Unless otherwise specifically noted, the Contractor shall provide and pay for all labor and materials, equipment, tools, construction equipment and machinery, water, heat, utilities, transportation, and other facilities and services necessary for the proper execution and completion of the work.

7.6 The Contractor shall pay prevailing wages, all sales, consumer, use, and other similar taxes required by law, and shall secure and pay for all permits, fees, and licenses necessary for execution of the work.

7.7 The Contractor will warrant to the Port that all materials and equipment furnished under the contract will be new unless otherwise specified, and that all work will be of good quality, free from faults and defects and in conformance with the specifications. All work not so conforming to these standards may be considered defective. If required by the Port, the Contractor shall furnish satisfactory evidence as to the kind and

quality of materials and equipment. This warranty shall be in addition to and not in limitation of any other warranty or remedy afforded by law.

7.8 RCW 39.06.020 requires a public works contractor to verify responsibility criteria for each first tier subcontractor, and a subcontractor of any tier that hires other subcontractors must verify responsibility criteria for each of its subcontractors. Verification is to include that, at the time of subcontract execution, each subcontractor meets the responsibility criteria listed above and in RCW 39.04.350(1) and additionally – if applicable – possesses an electrical contractor license or an elevator contractor license.

ARTICLE 8: Separate Contracts

8.1 The Port reserves the right to award other contracts in connection with other portions of the project.

ARTICLE 9: Time

9.1 All time limits stated in the contract documents are of the essence of the contract.

ARTICLE 10: Independent Contractor

10.1 Contractor represents, warrants and understands that it is an independent contractor and employing unit, duly licensed to perform the Work (including without limitation state contractor registration), subject to all applicable Social Security, Unemployment Compensation and Workers' Compensation statutes, and shall keep records and make reports and payments of all taxes or contributions required. Contractor agrees to indemnify, defend and hold Port harmless from any expenses or liability incurred under such statutes in connection with employees of Contractor.

10.2 If any Work hereunder is performed by principals of Contractor who are not covered by Workers' Compensation, the principals agree that they shall have no claim against Port or its insurers or its Workers' Compensation coverage in the event they are injured while performing such Work.

ARTICLE 11: Miscellaneous Provisions

11.1 This agreement is executed on the day first above written.

11.2 In the event of any dispute between Port and Contractor arising out of or relating to this Agreement, the prevailing party shall be entitled, whether or not a suit, action, or arbitration proceeding is instituted, to recover all costs incurred in connection with the dispute, including without limitation reasonable attorneys' and expert witness fees, whether at trial, on appeal or denial of any petition for review, or in connection with enforcement of any judgment.

11.3 This Agreement shall be interpreted in accordance with the laws and court rules of the State of Washington in effect on the date of execution of this Agreement. In the event any party deems it necessary to institute legal action or proceedings to ensure any right or obligation under this Agreement, the parties agree that such action shall be brought in a court of competent jurisdiction situated in Franklin County, Washington.

11.4 The Defend Trade Secrets Act provides that an individual may not be held criminally or civilly liable under any federal or state trade secret law for disclosure of a trade secret: (1) made in confidence to a government official, either directly or indirectly, or to an attorney, solely for the purpose of reporting or investigating a suspected violation of law; and/or (2) in a complaint or other document filed in a lawsuit or other proceeding, if such filing is made under seal. Additionally, an individual suing an employer for retaliation based on the reporting of a suspected violation of law may disclose a trade secret to his or her attorney and use the trade secret information in the court proceeding, so long as any document containing the trade secret is filed under seal and the individual does not disclose the trade secret except pursuant to court order.

PORT OF PASCO:

By: _____
Title: _____

By: _____
Title: _____

CONTRACTOR:

By: _____
Title: _____

By: _____
Title: _____

Washington State Contractors License No.:

PREVAILING WAGES

DRAWINGS



Port of Pasco Administrative Office

Phone: 509.547.3378

Fax: 509.547.2547

portofpasco@portofpasco.org

1110 Osprey Pointe Blvd.

Suite 201

Pasco, Washington U.S.A. 99301

Port Commissioners

Vicki Gordon

Jean Ryckman

Hans J. Engelke

Executive Director

Adam Lincoln

SUBJECT: Big Pasco Industrial Center WH2B3 Concrete Dock
BIDS DUE MAY 14, 2025 AT 10:00 AM

Dear Small Works Roster General Contractor:

Please find enclosed the bidding documents for the Port of Pasco, Big Pasco Industrial Center WH2B3 Concrete Dock.

We would appreciate your bid proposal or a response indicating that you will not be submitting a bid.

If you have any questions, please feel free to contact me at (509) 547-3378.

Respectfully,

Jaime Vera
Project Manager

enclosure