

PREPARED FOR: RHODE ISLAND DEPARTMENT OF
ENVIRONMENTAL MANAGEMENT PLANNING AND
DEVELOPMENT

**CONTRACT DOCUMENTS
GODDARD PARK CAROUSEL ROOF REPAIRS
WARWICK, RHODE ISLAND**

PREPARED BY:

PARE CORPORATION
10 LINCOLN ROAD, SUITE 210
FOXBORO, MASSACHUSETTS 02035

PARE PROJECT NUMBER 23042.01

APRIL 2024

100% CONSTRUCTION DOCUMENTS



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Goddard Park Carousel Roof Repairs
WARWICK, RHODE ISLAND

Division # Description

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SECTION 01010
SUMMARY OF WORK

PART 1.00 - GENERAL

1.01 RELATED DOCUMENTS:

- A. Drawings, General Provisions of the Contract, and all Technical Specification Sections apply to the work of this Section.

1.02 PROJECT IDENTIFICATION:

- A. General: Project name is "Goddard Park Carousel Roof Repairs".
- B. Contract Documents: The work to be performed under this Contract is shown in the Contract Documents prepared by Pare Corporation of Foxboro, Massachusetts.

1.03 SUMMARY OF WORK:

- A. The work required by these specifications shall include furnishing all labor, skill, supervision, tools, construction plant, equipment and materials, and performing all operations to properly complete contract work as shown on the Drawings, as mentioned in these specifications, and as evidently required, to the complete satisfaction of the Owner and the Engineer.
- B. The Contractor is responsible for updating and/or filing any Local, State, and/or Federal permits to complete construction.
- C. The following summary of work is intended to be general in nature and shall not be considered direction by the Engineer or the Owner. Although it is likely that some of the work items will overlap, construction sequences, phases, and order for the various project components are described separately and may not necessarily proceed in the order presented. The work on the Goddard Park Carousel Roof Repairs project, includes but is not limited to:
 - 1. Mobilize to the project site; establish site access and staging areas.
 - 2. Jack glulams near existing compression ring to equilibrium and to remove pressure from existing ring.
 - 3. Remove and replace existing cupola to match.
 - a. Cupola to be pre-fabricated wood or fiberglass.
 - 4. Remove existing compression ring and install new compression ring.
 - 5. Repair delaminated glulam arch ribs.
 - 6. Remove and replace deteriorated roof purlins.
 - 7. Install new wood sealant along exposed sides of glulam arch ribs, purlins, and decking.
 - 8. Reset existing stage.
 - 9. Reset existing tension rods and lighting ring.
- D. The work is located at Goddard Park in the Town of Warwick, Kent County, Rhode Island. Access points to the site are from Ives Road. Prior to construction, the Contractor shall identify all bridges with load restrictions on any and all haul routes proposed to be used for this project and assure that throughout construction these load restrictions are not exceeded by any project related hauling activities.
- E. During the construction, monitoring will be on-going and the Contractor shall accommodate the Owner's representatives.

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SECTION 01010
SUMMARY OF WORK

- F. Coordinate all work with the Owner and the Engineer and maintain the site in a clean, orderly condition during and upon completion of work.

- G. In cases where the Specifications and Drawings include the provision for particular work, equipment or systems as part of the Contract, but do not completely specify all work incidental to such a provision, or do not provide complete detailed designs for all parts of the provision, then the Contractor will provide or perform such incidental work or design services using generally accepted standards of engineering, material, and construction. All Contractor designs shall be approved in writing by the Engineer prior to proceeding with the work.

PART 2.00 - PRODUCTS

Not Used

PART 3.00 - EXECUTION

Not Used

END OF SECTION

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SECTION 01019
CONTRACT CONSIDERATIONS

PART 1.00 - GENERAL

1.01 RELATED SECTIONS

- A. Owner-Contractor Agreement: Contract sum/price including allowances. Bonds and Insurance Requirements.
- B. Section 01700 - Contract Close Out.

1.02 INSPECTION AND TESTING

- A. The Contractor shall be responsible for engaging an inspection or testing firm, execution of inspection or tests, and reporting results as per Section 01400.
- B. The Contractor will cooperate with the Owner and provide the Owner's agents with the facilities necessary to sample and inspect during each phase of construction at no cost to the Owner. The Contractor shall be responsible for all costs associated with retesting areas that have previously failed.

1.03 APPLICATIONS FOR PAYMENT

- A. Submit four (4) copies of each applications on AIA Form G.703.
- B. For each item, provide a column for listing: Item Number; Description of Work; Scheduled Value, Previous Applications; Work in Place and Stored Materials under this Application; Authorized Change Orders; Total Completed and Stored to Date of Applications; Percentage of Completion; Balance to Finish; and Retainage.
- C. Present required information in typewritten form.
- D. Execute certification by signature of authorized officer.
- E. Use data from approved Schedule of Values. Provide dollar value in each column for each line item for portion of work performed and for stored Products.
- F. List each authorized Change Order as an extension on continuation sheet, listing Change Order number and dollar amount as for an original item of Work.
- G. Prepare Application for Final Payment as specified in Section 01700 - Contract Closeout.

1.04 CHANGE PROCEDURES

- A. The Engineer/Owner will advise of minor changes in the Work not involving an adjustment to Contract Sum/Price or Contract Time as authorized by the Engineer/Owner, by issuing written supplemental instructions.
- B. The Engineer/Owner may issue a Notice of Change which includes a detailed description of a proposed change with supplementary or revised Drawings and specifications, a change in Contract Time for executing the change with a stipulation of any overtime work required and the period of time during which the requested price will be considered valid. Contractor will prepare and submit an estimate within 7 days.

**SECTION 01019
CONTRACT CONSIDERATIONS**

- C. The Contractor may propose a change by submitting a request for change to the Engineer/Owner, describing the proposed change and its full effect on the Work. Include a statement describing the reason for the change, and the effect on the Contract Sum/Price and Contract Time with full documentation and a statement describing the effect on Work by separate or other contractors. Document any requested substitutions in accordance with Section 01340. No change will be allowed except under written approval and Notice of Change from the Engineer/Owner, verbal orders are not binding.
- D. Stipulated Sum/Price Change Order: Based on Notice of Change and Contractor's estimated price quotation.
- E. Unit Price Change Order: For pre-determined unit prices and quantities, the Change Order will be executed on a fixed unit price basis. For unit costs or quantities of units of work which are not pre-determined, execute Work under a Work Directive Change. Changes in Contract Sum/Price or Contract Time will be computed as specified for Time and Material Change Order.
- F. Work Directive Change: The Engineer/Owner may issue a directive, signed by the Owner, instructing the Contractor to proceed with a change in the Work, for subsequent inclusion in a Change Order. Document will describe changes in the Work, and designate method of determining any change in Contract Sum/Price or Contract Time. Promptly execute the change.
- G. Time and Material Change Order: Submit itemized account and supporting data after completion of change, within time limits indicated in the Conditions of the Contract. The Engineer/Owner will determine the change allowable in Contract Sum/Price and Contract Time as provided in the Contract Documents.
- H. Maintain detailed records of work done on Time and Material basis. Provide full information required for evaluation of proposed changes, and to substantiate costs for changes in the Work.
- I. Execution of Change Orders: The Engineer/Owner will issue Change Orders for signature of parties as provided in the Conditions of the Contract.

1.05 SUBSTANTIAL COMPLETION

- A. For the purposes of this project, substantial completion shall be considered after a point when all work is completed and the contractor is prepared to demobilize from the site. Work to be completed subsequent to substantial completion shall be limited to project closeout requirements.

PART 2.00 - PRODUCTS

Not Used

PART 3.00 – EXECUTION

Not Used

END OF SECTION

**SECTION 01025
MEASUREMENT AND PAYMENT**

PART 1.00 - GENERAL

1.01 ADMINISTRATIVE SUBMITTALS

- A. Application for Payment: In accordance with the General Conditions and as specified herein.
- B. Final Application for Payment: As specified herein.

1.02 APPLICATION FOR PAYMENT

- A. Reference the General Conditions.
- B. Use separate, detailed Application for Payment Form suitable to Owner for each pay application.
- C. Preparation:
 - 1. List each Change Order and Written Amendment executed prior to date of submission as separate line item.
 - 2. Submit three (3) copies of Application for Payment Form, and such supporting data as may be requested by Owner.

1.03 MEASUREMENT - GENERAL

- A. Reference the General Conditions for additional requirements on Unit Price Work.
- B. All unit prices which are specified for measurement by the linear foot (LF) shall be measured from the beginning to the termination point of the unit being measured.
- C. Measurement and payment for all bid items shall include furnishing all equipment, material, plant, and personnel required for completion the work in accordance with the contract documents unless otherwise noted.
- D. Units of measure shown on the Bid Form shall be as follows unless specified otherwise.

<u>Item</u>	<u>Method of Measurement</u>
EA	Each-Field Count by Owner/Owner's Representative
LF	Linear Foot-Field Measure by Engineer or Owner/Owner's Representative
LS	Lump Sum-Unit is one; no measurement will be made.

1.04 PAYMENT

- A. General: Progress payment requests shall be submitted monthly as specified in the General Conditions.
- B. Payment for Lump Sum Work covers all personnel, equipment, materials, and incidentals required to furnish, install and/or complete the Work as specified, indicated, and directed as indicated in the Construction Documents. Payment for lump sum work shall be based upon the percentage complete in accordance with the contract documents at the time of each Application for Payment.

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MEASUREMENT AND PAYMENT**

- C. Payment for unit price items covers all personnel, equipment, materials, and incidentals required to furnish, install and/or complete the Work as specified, indicated, and directed as indicated in the Construction Documents for the following items. Payment for unit price items shall be based upon the quantity installed in accordance with the contract documents at the time of each Application for Payment.
- D. The unit prices are applicable for additional or deductive work from that as specified or shown on the Contract Documents and included in the Base Bid Price. The Base Bid Price shall include the quantities listed in an attached – BASE BID BREAKDOWN. Unit Prices shall reflect the total cost for each unit item described, including overhead and profit. Deductions based on unit prices shall not include deductions in overhead and profit. Therefore unit price deductions will be calculated as 90 percent of the submitted unit price.
- E. Payment for equipment, materials and labor for items not included on the Bid Form or described in Article PAYMENT, herein, shall be considered incidental and no separate payment will be made.

1.05 NONPAYMENT FOR REJECTED OR UNUSED PRODUCTS

- A. Payment will not be made for following:
 - 1. Loading, hauling, and disposing of rejected material.
 - 2. Quantities of material wasted or disposed of in manner not called for under the Contract Documents.
 - 3. Rejected loads of material, including material rejected after it has been placed or installed by Contractor.
 - 4. Material not unloaded from transporting vehicle.
 - 5. Defective Work not accepted by the Engineer.
 - 6. Material remaining on hand after completion of Work.

1.06 PARTIAL PAYMENT FOR STORED MATERIALS AND EQUIPMENT

- A. Final Payment: Will be made only for materials incorporated into the Work in the Contract; no partial payments shall be made for equipment or materials delivered to the site but not used.

1.07 FINAL APPLICATION FOR PAYMENT

- A. Reference the General Conditions, and as may otherwise be required in the Contract Documents.
- B. Prior to submitting final application, make acceptable delivery of required documents.

PART 2.00 - PRODUCTS
Not Used

PART 3.00 – EXECUTION
Not Used

END OF SECTION

SECTION 01200
PROJECT MEETINGS

PART 1.00 - GENERAL

1.01 REQUIREMENTS INCLUDED

- A. The Owner or Owner's Representative shall schedule and administer the preconstruction conference. The Owner or Owner's Representative shall:
 - 1. Prepare the agenda for the meeting.
 - 2. Notify all parties required to attend meeting.
 - 3. Make physical arrangements for meeting.
 - 4. Preside at meeting.
 - 5. Record the minutes, including significant proceedings and decisions.
 - 6. Reproduce and distribute copies of minutes within three (3) business days after the meeting to participants in the meeting and other parties affected by decisions made at the meeting.

- B. The Owner or Owner's Representative shall schedule and administer periodic progress meetings, and specially called meetings throughout the progress of the Work. The Owner or Owner's Representative shall:
 - 1. Prepare agenda for meetings.
 - 2. Make physical arrangements for meetings.
 - 3. Preside at meetings.
 - 4. Record the minutes, including significant proceedings and decisions.
 - 5. Reproduce and distribute copies of minutes within three (3) business days after each meeting to participants in the meeting and other parties affected by decisions made at the meeting.

- C. Representatives of Contractors, Subcontractors and suppliers attending meetings shall be qualified and authorized to act on behalf of the entity each represents.

1.02 PRE-CONSTRUCTION CONFERENCE

- A. Attendance:
 - 1. Owner and/or Representative.
 - 2. Resident project Representative (if applicable).
 - 3. Contractor's superintendent.
 - 4. Major Subcontractors.
 - 5. Major suppliers.
 - 6. Others as appropriate.

- B. Suggested Agenda:
 - 1. Distribution and discussion of
 - a. List of major Subcontractors and suppliers.
 - b. Projected construction schedules.
 - 2. Critical work sequencing.
 - 3. Major equipment deliveries and priorities.
 - 4. Project coordination.
 - a. Designation of responsible personnel.

SECTION 01200
PROJECT MEETINGS

5. Procedures and processing of:
 - a. Field decisions.
 - b. Proposal requests.
 - c. Submittals.
 - d. Change orders.
 - e. Applications for payment.
6. Adequacy of distribution of Contract Documents.
7. Procedures for maintaining record documents.
8. Use of premises:
 - a. Office, work and storage areas.
 - b. Owner's requirements.
9. Construction facilities, controls, and construction aids.
10. Temporary utilities.
11. Safety and first-aid procedures.
12. Security procedures.
13. Housekeeping procedures.
14. Place, date, and time for regular progress meetings.

1.03 PROGRESS MEETINGS

- A. Conduct scheduled progress meetings at regular intervals and a place and time agreed upon at Pre-Construction Conference.
- B. Conduct additional meetings as progress of the Work dictates.
- C. Attendance:
 1. Engineer and professional consultants as needed.
 2. Owner or Representative, when required.
 3. Contractor's superintendent.
 4. Subcontractors as appropriate to the agenda.
 5. Suppliers as appropriate to the agenda.
 6. Others.
- D. Suggested Agenda:
 1. Review approval of minutes of previous meeting.
 2. Review of work progress since previous meeting.
 3. Field observations, problems, and conflicts.
 4. Problems which impede construction schedule.
 5. Review of off-site fabrication, delivery schedules.
 6. Corrective measures and procedures to regain projected schedule.
 7. Revisions to construction schedule.
 8. Progress schedule during succeeding work period.
 9. Maintenance of quality standards.
 10. Pending changes and substitutions.
 11. Coordination of schedules.
 12. Review submittal schedules; expedite as required.
 13. Review proposed changes for:
 - a. Effect on construction schedule and on completion date.
 - b. Effect on subcontracts of the project.

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SECTION 01200
PROJECT MEETINGS

14. Other business.

PART 2.00 - PRODUCTS

Not Used

PART 3.00 - EXECUTION

Not Used

END OF SECTION

**SECTION 01310
CONSTRUCTION SCHEDULES**

PART 1.00 - GENERAL

1.01 REQUIREMENTS INCLUDED

- A. At least three (3) business days before the scheduled Pre-Construction Conference, prepare and submit to Owner or Owner's Representative the initial construction schedule for the Work, with sub schedules, if required, of related activities that are essential to its progress.
- B. Submit revised progress schedules with the submission of each payment request.

1.02 FORM OF SCHEDULES

- A. Prepare schedules using Microsoft Project (V.4.0 or later) in the form of a horizontal bar chart.
- B. Provide a separate horizontal bar for each item of work that matches verbatim the breakdown of the contract price toward which partial payments will be made to the Contractor.
- C. Horizontal Time Scale: Identify the first workday of each week.
- D. Scale and Spacing: To allow space for notations and future revisions.
- E. Minimum Sheet Size: 8-1/2" by 11".

1.03 CONTENT OF SCHEDULES

- A. Construction Progress Schedule: Include the following:
 - 1. The name of the project and name and address of the Contractor.
 - 2. The name and address of the Owner.
 - 3. Date indicating the end of the construction period being reported.
 - 4. Legend showing a solid line representing estimated construction and a dotted line representing actual construction.
 - 5. Columns showing the percentage of the total contract of each item, the percentage of completion to date of each item and the weighted percentage of completion of each item to the project as a whole.
 - 6. Starting and completion dates of the contract.
 - 7. Projected percentage of completion for each item, as of the first day of each month.
- B. Submittals Schedule for Shop Drawings, Product Data and Samples: Show the following:
 - 1. The dates for Contractor's submittals.
 - 2. The dates reviewed submittals will be required from the Engineer/Owner.

1.04 MONTHLY PROGRESS REPORTS

- A. Indicate progress of each activity to date of submission.
- B. Show changes occurring since previous submission of schedule:
 - 1. Major changes in scope.
 - 2. Activities modified since previous submission.

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**SECTION 01310
CONSTRUCTION SCHEDULES**

3. Revised projections of progress and completion.
4. Other identifiable changes.

C. Provide a narrative report as needed to define:

1. Problem areas, anticipated delays, and the impact on the schedule.
2. Corrective action recommended, and its effect.
3. The effect of changes on schedules of other prime Contractors.

1.05 SUBMISSIONS

A. Submit initial schedule at least three (3) business days before the scheduled Pre-Construction Conference.

1. Owner will review schedule prior to the scheduled Pre-Construction Conference.
2. If required, resubmit within three (3) business days after return of review copy.

B. Submit revised progress schedules:

1. With each application for payment.
2. Each time there is a change and/or delay to the projects critical path.

C. Submit initial schedule and schedule updates in accordance with Section 01340 Submittals.

1.06 DISTRIBUTION

A. Distribute copies of the reviewed schedules to:

1. Job site file.
2. Subcontractors.
3. Other concerned parties.

B. Instruct recipients to report promptly to the Contractor, in writing, any problems anticipated by the projections shown in the schedules.

PART 2.00 - PRODUCTS

Not Used

PART 3.00 - EXECUTION

Not Used

END OF SECTION

PART 1.00 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings, General Provisions of Contract, and Division-1 Specification Sections, apply to work of this section.

1.02 DESCRIPTION OF REQUIREMENTS

- A. General: This section specifies procedural requirements for non-administrative submittals including shop drawings, product data, samples and other miscellaneous work-related submittals. Shop drawings, product data, samples and other work-related submittals are required to amplify, expand and coordinate the information contained in the Contract Documents.

1. Refer to other Division-1 sections and other Contract Documents for specifications on administrative, non-work-related submittals. Such submittals include, but are not limited to the following items:
 - a. Permits.
 - b. Written consents.
 - c. Manifests
 - d. Payment applications.
 - e. Performance and payment bonds.
 - f. Insurance certificates.
 - g. Inspection and test reports.
 - h. Progress reports.
 - i. Listing of Subcontractors.
 - j. Construction schedules.

- B. Shop drawings are technical drawings and data that have been specially prepared for this project, including but not limited to the following items:

1. Fabrication and installation drawings.
2. Coordination drawings (for use on-site).
3. Schedules.
4. Design mix formulas.
5. Where verification of existing conditions is required to fabricate/construct an element; the Contractor shall provide a letter along with the submittal stating that the conditions have been verified.

- C. Product data includes standard printed information on manufactured products that has not been specially-prepared for this project, including but not limited to the following items:

1. Manufacturer's product specifications and installation instructions.
2. Catalog cuts.
3. Roughing-in diagram and templates.
4. Standard wiring diagrams.
5. Printed performance curves.
6. Operational range diagrams.

- D. Samples are physical examples of work, including but not limited to the following items:

SECTION 01340
SUBMITTALS

1. Partial sections of manufactured or fabricated work.
 2. Small cuts or containers of materials.
 3. Complete units of repetitively-used materials.
- E. Miscellaneous submittals are work-related, non-administrative submittals that do not fit in the three previous categories, including, but not limited to the following:
1. Specially-prepared and standard printed warranties.
 2. Project photographs.
 3. Testing and certification reports.
 4. Record drawings.
 5. Field measurement data.
 6. Keys and other security protection devices.

1.03 SUBMITTAL PROCEDURES

- A. General: Refer to the General Conditions for basic procedures for submittal handling.
- B. Coordination: Coordinate the preparation and processing of submittals with the performance of the work. Coordinate each separate submittal with other submittals and related activities such as testing, purchasing, fabrication, delivery and similar activities that require sequential activity.
1. Coordinate the submittal of different units of interrelated work so that one submittal will not be delayed by the Engineer/Owner/Owner's Representative's need to review a related submittal. The Engineer/Owner/Owner's Representative reserves the right to withhold action on any submittal requiring coordination with other submittals until related submittals are forthcoming.
- C. Scheduling: In each appropriate administrative submittal, such as the progress schedule, show the principal work-related submittals and time requirements for coordination of submittal activity with related work.
- D. Coordination of Submittal Times: Prepare and transmit each submittal to the Engineer/Owner sufficiently in advance of the scheduled performance of related work and other applicable activities. Transmit different kinds of submittals for the same unit of work so that processing will not be delayed by the Engineer/Owner's need to review submittals concurrently for coordination.
- E. Review Time: Allow sufficient time so that the installation will not be delayed as a result of the time required to properly process submittals, including time for resubmittal, if necessary. Advise the Engineer/Owner on each submittal, as to whether processing time is critical to the progress of the work, and if the work would be expedited if processing time could be shortened.
1. Allow seven (7) business days for the Engineer/Owner's initial processing of each submittal. Allow a longer time period where processing must be delayed for coordination with subsequent submittals. The Engineer/Owner will advise the Contractor promptly when it is determined that a submittal being processed must be delayed for coordination.
 2. Allow five (5) business days for reprocessing each submittal.
 3. No extension of time will be authorized because of the Contractor's failure to transmit submittals to the Engineer/Owner sufficiently in advance of the work.

SECTION 01340
SUBMITTALS

- F. Submittal Preparation: Mark each submittal with a permanent label for identification. Provide the following information on the label for proper processing and recording of action taken.
1. Project name.
 2. Date.
 3. Name and address of Owner.
 4. Name and address of Contractor.
 5. Name and address of supplier.
 6. Name of manufacturer.
 7. Number and title of appropriate specification section.
 8. Drawing number and detail references, as appropriate.
 9. Similar definitive information as necessary.
 10. Provide a space on the label for the Contractor's review and approval markings, and a space for the Engineer/Owner's "Action" marking.
 11. Submittals shall be titled "23042.01_GoddardParkCarouselRepairs_SubmittalNo.XX-xxxxxxxxxxxxx".
 - a. Where "XX" is the designated submittal Number.
 - b. Where "xxxxxxxxxxxxx" is a short description of the submittal content.
- G. Electronic Submittal Transmittal: Package each submittal appropriately for transmittal and handling. Transmit one (1) copy, including a transmittal form to the Contractor's Folder on the Pare File Transfer Protocol site. Emailed submittals shall be sent to the Engineer in the same format. Prepare a separate transmittal form for each division of work and identify each submittal by specification section number on the transmittal form.
1. Record relevant information and requests for data on the transmittal form. On the transmittal form, or on a separate sheet attached to the form, record deviations from the requirements of the Contract Documents, if any, including minor variations and limitations.
 2. Include the Contractor's signed certification stating that information submitted complies with requirements of the Contract Documents.
 3. Sequentially number the transmittal forms; resubmittals to have original number with an alphabetic suffix.
 4. Where appropriate, submittals shall be in Adobe PDF format. Where appropriate, File formats shall be compatible with Microsoft Office 2010.
 5. In the event of a discrepancy between the electronically transmitted submittal and the hardcopy, the hardcopy shall prevail.
 6. Contractor shall be responsible for notifying Engineer in writing when new submittals are posted to the FTP site.
 7. Emailed submittals shall be limited to one submittal per email.
 8. Emailed submittals shall be titled "23042.01_GoddardParkCarouselRepairs_Submittal No.XX-xxxxxxxxxxxxx".
 - a. Where "XX" is the designated submittal Number.
 - b. Where "xxxxxxxxxxxxx" is a short description of the submittal content.
 9. Emailed submittals must be confirmed as received by the Engineer through either but not limited to a read receipt or confirmatory email.
- H. Contractor Review: Stamp of approval indicates to Owner and Engineer/Owner that all quantities, dimensions, field construction criteria, materials, catalog numbers, and similar data have been determined and verified, and that each submittal has been reviewed or coordinated with requirements of work and Contract Documents.

- I. No portion of Work requiring shop drawings shall be started or any materials be fabricated, delivered to site, or installed prior to approval of such items. Fabrication performed, materials purchased or on-site construction accomplished which does not conform to approved shop drawings and data shall be at Contractor's risk. Owner will not be liable for any expense or delay due to corrections or remedies required to accomplish conformity.
- J. Project work, materials, fabrications, and installation shall conform to approved shop drawings.

1.04 SPECIFIC SUBMITTAL REQUIREMENTS

A. Miscellaneous Submittals:

- 1. Inspection and Test Reports: Classify each inspection and test report as being either "shop drawings" or "product data" depending on whether the report is specially prepared for the project, or a standard publication of workmanship control testing at the point of production. Process inspection and test reports accordingly.
 - 2. Survey Data: Provide copies of all survey data collected for property surveys, field measurements, quantitative records of actual work, damage surveys and similar data required by the individual sections of these specifications. None of the specified copies will be returned.
 - 3. Standards: Where submittal of a copy of standards is indicated, and except where copies of standards are specified as an integral part of a "Product Data" submittal, submit a single copy of standards for the Engineer/Owner's use. Where workmanship, whether at the project site or elsewhere, is governed by a standard, furnish additional copies of the standard to installers, Owner's field representative, and others involved in the performance of the work.
 - 4. Closeout Submittals: Refer to section "Project Closeout" and to individual sections of these specifications for specific submittal requirements of project closeout information, materials, tools, and similar items.
 - a. Record Documents: Furnish set of original documents as maintained on the project site.
 - 5. General Distribution: Provide additional distribution of submittals to Subcontractors, suppliers, fabricators, installers, governing authorities and others as necessary for the proper performance of the work. Include such additional copies of submittals in the transmittal to the Engineer/Owner where the submittals are required to receive "Action" marking before final distribution. Record distributions on transmittal forms.
- B. Verification of Existing Conditions: Where verification of existing conditions is required to fabricate/construct an element; the Contractor shall provide a letter along with the submittal stating that the conditions have been verified.

1.05 ENGINEER/OWNER'S ACTION

- A. General: Except for submittals for the record and similar purposes, where action and return on submittals is required or requested, the Engineer/Owner will review each submittal, mark with appropriate "Action", and where possible return within seven (7) business days of receipt. Where the submittal must be held for coordination the Engineer/Owner will so advise the Contractor without delay.

- B. Action Stamp: The Engineer/Owner will stamp, sign and date each submittal copy to be returned to Contractor and indicate disposition of each submittal in accordance with the following grading requirements:
1. "No Exceptions Taken" indicates that Engineer/Owner notes no exception to the intent of the Contract Documents. Fabrication of item may commence.
 2. "Furnish as Corrected" indicates that with minor corrections or additions, Engineer/Owner notes no exception to the intent of the Contract Documents. Item may be fabricated on basis of corrections noted. No further checking will be required.
 3. "Revise and Resubmit". No fabrication may commence.
 4. "Rejected" indicates nonconformance with the contract requirements, or that too many corrections would be necessary. The Engineer/Owner will state the reasons for rejections.
 5. "Submit Specified Item" indicates missing portions of the submissions. Fabrication may commence upon submission and approval of specified item.
 6. "Reviewed" indicates that the Engineer/Owner has received and processed the submittal. No determination of conformance was completed/necessary.
- C. Engineer/Owner Review:
1. Engineer/Owner's review of submitted drawings and data will cover only general conformity to drawings and specification, external connections, and dimensions which affect layout.
 2. Engineer/Owner's review does not indicate thorough review of all dimensions.
 3. Engineer/Owner's review of submittals does not relieve Contractor's responsibility for errors, omissions, or deviations, nor responsibility for compliance with Contract Documents.

1.06 RESUBMISSION REQUIREMENTS

- A. Make any corrections or changes in the submittals required by the Engineer/Owner and resubmit until they are denoted "No Exceptions Taken" or "Furnish as Corrected" by the Engineer/Owner. Resubmission requirements specified in individual specification sections, which differ from these requirements, will take precedence over these requirements.
- B. Shop Drawings and Product Data:
1. Revise initial drawings or data, and resubmit as specified for the initial submittal.
 2. Indicate any changes which have been made other than those requested by the Engineer/Owner. All changes shall be clouded.
- C. Samples: Submit new samples as required for initial submittal.

1.07 DISTRIBUTION

- A. Distribute reproductions of shop drawings and copies of product data which carry the Engineer's stamp denoting "No Exceptions Taken" or "Furnish as Corrected" to:
1. Job site file.
 2. Record documents file.
 3. Subcontractors.
 4. Supplier or fabricator.

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- B. Distribute samples which carry the Engineer/Owner's stamp denoting "No Exceptions Taken" or "Furnish as Corrected" as directed by the Engineer/Owner.

PART 2.00 - PRODUCTS

Not Used

PART 3.00 - EXECUTION

Not Used

END OF SECTION

SECTION 01400
QUALITY CONTROL/QUALITY ASSURANCE

PART 1.00 - GENERAL

1.01 SECTION INCLUDES

- A. Quality Control (QC) that the Contractor will perform during the performance of this work.
- B. Quality Assurance (QA) that the Owner will perform during the performance of this work.

1.02 SUBMITTALS

- A. Submit Quality Control Plan to the Owner/Owner's Representative at least three (3) business days before starting work which includes the following information:
 - 1. Statement and description of Contractor's overall Quality Control (QC) program as described below. Each Sub-contractor shall submit a separate QC program applicable to their scope of work to the Contractor.
 - 2. Procedures to be used in obtaining field samples of materials except where required for submittal under other sections.
 - 3. Name, qualifications, and prior experience of inspection and testing laboratories that Contractor proposes for Owner/Owner's Representative's consideration.

1.03 QUALITY CONTROL (QC) PROGRAM

- A. Formulation, Submission, Details and Acceptance of Plan:
 - 1. Contractor shall develop a QC program appropriate to the scale of the project.
 - 2. The plan shall identify personnel, and establish procedures, instructions, records, and forms to be used.
 - 3. The Contractor's QC Plan shall include as a minimum, the following:
 - a. A description of the Contractor's QC organization, including a chart showing lines of authority, and acknowledgement that the Contractor's QC staff shall conduct inspections for all aspects of the work specified.
 - b. The name, qualifications, responsibilities, and authority of each person assigned to the Contractor's QC function.
 - c. Procedures for scheduling and managing submittals, including those of Subcontractor, fabricators, suppliers, and purchasing agents.
 - d. Control procedures to be promulgated.
 - e. Control testing procedures for each specific test, including field sampling.
 - f. Reporting procedures including proposed reporting formats.
 - 3. Acceptance of Plan: Acceptance of the Contractor's plan by the Owner/Owner's Representative is required prior to the start of construction. Acceptance is conditional, and its continuation will depend on satisfactory performance by the Contractor during construction. The Owner/Owner's Representative reserves the right to require the Contractor to make changes to the Contractor's QC Plan and operations as necessary to obtain the quality specified at no additional cost to the Owner.
 - 4. Notification of Changes: After acceptance of the Contractor's QC Plan, the Contractor shall notify the Owner/Owner's Representative in writing of any proposed change. The proposed changes will be subject to acceptance by the Owner/Owner's Representative.

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B. Implementation of QC Plan:

1. General:
 - a. Comply with the highest industry standards except when specified requirements indicate more rigid standards, or more precise workmanship is required.
 - b. Provide personnel to produce work of specified quality.
 - c. Secure, protect, and maintain products and Work completed or in progress from damage during the progress of remaining Work.
2. Preparatory Inspection: This shall be performed prior to beginning any segment of Work. It shall include a review of Contract requirements; a check to assure that all materials and or equipment are on hand, and have been tested, samples submitted and approved; a check to assure that provisions have been made to do required control testing; examination of the work that has been completed; and a physical examination of materials, equipment and sample work to assure that they conform to approved shop drawings or submittal data. Contractor shall instruct each Subcontractor contributing work as to the acceptable level of workmanship required in the Contractor's QC Plan in order to meet Specifications.
3. Initial Inspection: This shall be performed as soon as a representative portion of a particular segment of Work has been accomplished, and shall include examination of the quality of workmanship and materials, a review of control testing for compliance with Contract requirements, and inspection for omissions and dimensional requirements.
4. Follow-up Inspections: These shall be performed regularly to assure continuing compliance with Contract requirements, including control testing, until Completion. Final follow-up inspections shall be conducted and deficiencies corrected prior to final acceptance of segments of Work.
9. Documentation:
 - a. The Contractor shall maintain records of QC operations, activities and tests performed including the work of suppliers and Subcontractors. These records shall be on an acceptable form and shall include a description of the trades working on the project, the number of personnel working, weather conditions encountered, and delays encountered, and acknowledgement of deficiencies noted along with corrective actions taken on current or previous deficiencies. Additionally these records shall include evidence that required activities or tests have been performed, including but not limited to the following:
 - i. Type and number of control activities and tests performed.
 - ii. Results of control activities or tests, including nature of any defects, causes for rejection, and other information related to deficient features.
 - iii. Proposed remedies and accomplished corrections.
 - b. These records shall cover both conforming and defective features, and shall include a statement that supplies and materials incorporated in the Work comply with the Contract requirements. Legible copies of these records shall be submitted to the Owner/Owner's Representative.
 - c. Notification of Noncompliance: Owner/Owner's Representative will notify the Contractor or his designated representative of any observed noncompliance with requirements of this Section. If the Contractor fails or refuses to comply promptly, the Owner/Owner's Representative may issue an order stopping all or part of the Work until satisfactory corrective action has been taken.

1.05 WEIGHTS AND MEASURES

- A. The Contractor shall weigh and measure its own materials.

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QUALITY CONTROL/QUALITY ASSURANCE

- B. Give one copy of each delivery's weight or measurement to Owner/Owner's Representative prior to stockpiling or storage.

1.06 REFERENCE STANDARDS

- A. Where reference to an industry standard does not include a date of issue, conform to issue current as of date of Contract Documents.
- B. Where reference to an industry standard includes a date of issue, conform to issue current as of the date specified.

1.07 INSPECTION AND TESTING LABORATORIES

- A. Independent testing laboratories shall perform inspections, tests, and other services specified in individual specification sections, the Contractor's Quality Control Plan, and as required for QA by the Owner/Owner's Representative.
- B. Reports and test results shall be submitted by the independent testing laboratory directly to the Owner, indicating observations and results of tests and indicating compliance or noncompliance with the requirements of the specifications.
- C. Contractor shall provide access to the work and fully cooperate with laboratory firms. Notify Owner at least 48 hours prior to expected time when work is ready for inspection, sampling, or testing, if not otherwise specified for the particular work to be tested.
- D. Retesting required due to nonconformance to specified requirements shall be performed by the same independent testing laboratories on instructions from the Owner/Owner's Representative. Retesting costs shall be borne by the Contractor and will not be applied to any unit price items.

PART 2.00 – PRODUCTS

2.01 MATERIALS

- A. See applicable Specification Sections for types of material and equipment used on this project.

PART 3.00 – EXECUTION

3.01 PRECONSTRUCTION TESTING

- A. All material evaluation tests shall be performed by the independent testing laboratory retained by the Contractor and approved for use by the Owner/Owner's Representative.

3.03 QC TESTING FREQUENCY

- A. All QC testing shall be conducted in accordance with the Contractor's QC Plan. Documentation and reporting of test results shall be the responsibility of the Contractor.
- B. Sampling locations shall be approved by the Owner/Owner's Representative.

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QUALITY CONTROL/QUALITY ASSURANCE

- C. A special testing frequency shall be used at the discretion of the Owner/Owner's Representative when visual observations of construction performance indicate a potential problem. Additional testing for suspected areas shall be considered when:
 - 1. Materials appear substantially different from those specified
 - 2. Directed by the Owner/Owner's Representative

- D. During construction, the frequency of testing may also be increased in the following situations:
 - 1. Adverse weather conditions
 - 2. Breakdown of equipment
 - 3. Material fails to meet specification

3.05 DEFICIENCIES

- A. If a defect is discovered, the Contractor shall immediately determine the extent and nature of the defect.
 - 1. If the defect is indicated by unsatisfactory test results, the Contractor shall determine the extent of the deficient area by additional tests, observations, a review of records, or other means that the Contractor deems appropriate. Costs for additional testing shall be borne by the Contractor and not applied to any unit price items.

- B. After determining the extent and nature of a defect, the Contractor shall notify the Owner/Owner's Representative and schedule for defect repair and retesting.

- C. The Contractor shall correct the deficiency to the satisfaction of the Owner/Owner's Representative. If the project specification criteria cannot be met, or if unusual weather conditions hinder work, then the Contractor shall develop and present to the Owner/Owner's Representative suggested solutions for their approval.

- D. All retests by the Contractor must verify that the defect has been corrected before any additional work is performed by the Contractor in the area of the deficiency. The Contractor shall also verify that all installation requirements are met and that all required submittals are provided.

END OF SECTION

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SECTION 01500
TEMPORARY FACILITIES AND CONTROLS

PART 1.00 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings, General Provisions of contract, and Division 1 Specification Sections, apply to work of this section.

1.02 ACCESS

- A. Block public access to the site for the prosecution of the work.
- B. Provide all necessary scaffolding, platforms, ladders, ramps, chutes, temporary stairs, and all other access items. Maintain in a safe condition throughout the construction process.

1.03 HOISTING FACILITIES

- A. Provide hoisting facilities as required for the vertical movement of all materials.
- B. Comply with OSHA and other governing codes for all hoists, conveyors, and elevators and maintain the facilities in compliance with the law.

1.04 GUARDRAILS, DECK AND OTHER OPENINGS

- A. Provide guardrails, barricades, handrails, and covers for decks, and other openings.

1.05 TRASH

- A. Provide sufficient trash receptacles. Provide construction dumpster for all debris and packaging. Provide construction recycling of construction demolition where allowed and of excess new materials and packaging where allowed.
- B. Collect and deposit debris in such collection facilities as necessary to separate recyclables from materials scheduled to be brought to legal dump sites.
- C. Remove all debris from the job site on a regular basis. Do not allow trash and debris to accumulate or remain on site.

1.06 SANITATION FACILITIES

- A. The Contractor must provide temporary chemical toilets for use by workmen as well as Owner personnel. All temporary facilities shall be maintained in a clean and sanitary fashion.
- B. The Contractor shall clean, polish, touchup, and renew all areas effected at the completion of the Construction work, and this item shall be a punch list item for this Construction Contract.

1.07 WEATHER PROTECTION AND TEMPORARY HEAT/VENTILATION

- A. During construction, provide weather protection and necessary heat, ventilation, and dehumidification for all elements of the work

1.08 OTHER TEMPORARY FACILITIES AND CONTROLS

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SECTION 01500
TEMPORARY FACILITIES AND CONTROLS

- A. Protection of Work-In-Place:
 - 1. Thoroughly protect all completed work and all stored materials.
 - 2. Provide boards, cloths, planks, waterproof paper, canvas or other approved protection and use as necessary to prevent any damage.
 - 3. Replace or rectify work or materials damaged by workers, by the elements or by any other cause, to the satisfaction of the Engineer and at no additional expense to the Owner.
 - 4. Do not allow workers, including those of any subcontractor or supplier to mark finish surfaces with marking pens or other such devices which are not readily erasable.

- B. Special Openings:
 - 1. Early in the work, confer with all parties providing apparatus of various kinds. Should any be of a size and character than cannot properly be taken into the indicated position through openings shown, make necessary arrangements for the installation of such items in a manner satisfactory to those providing them and to the Owner. Make good any damage that may be caused thereby.

- C. Field or Construction Office Area
 - 1. Provide a field office area for the project, approved by the Owner, prior use at the site. Provide plan table, including chairs, for all meeting attendees, separate from that needed by the Contractor, for general meetings.
 - 2. Provide temporary lighting as needed at all areas.
 - 3. Provide for fire and liability Insurance on the Structure.
 - 4. Provide temporary barricades and devices to protect the work site.

1.09 REMOVAL OF TEMPORARY FACILITIES

- A. Remove all items indicated above and other construction of a temporary nature from the site as soon as the progress of the work will permit.

- B. Recondition the portions of the site so occupied and restore to conditions acceptable to the Engineer.

1.10 PROJECT SIGN

- A. Provide a temporary project or construction sign as specified by the Owner, with lettering as approved, and by a professional sign painter.

- B. Do not post other signs, unless approved by the Engineer, within the project or contract limit line.

END OF SECTION

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SECTION 01600
MATERIAL AND EQUIPMENT

PART 1.00 - GENERAL

1.01 REQUIREMENTS INCLUDED

- A. Material and Equipment Incorporated into the Work:
 - 1. Conform to applicable specifications and standards.
 - 2. Comply with size, make, type and quality specified, or as specifically reviewed by the Engineer.
- B. Manufactured and Fabricated Products:
 - 1. Design, fabricate and assemble in accordance with the best engineering and shop practices.
 - 2. Manufacture like parts of duplicate units to standard sizes and gages, to be interchangeable.
 - 3. Two or more items of the same kind shall be identical, by the same manufacturer.
 - 4. Products shall be suitable for service conditions.
- C. Equipment capacities, sizes and dimensions shown or specified shall be adhered to unless variations are specifically reviewed by Engineer.
- D. Do not use material or equipment for any purpose other than that for which it is designed or is specified.

1.02 MANUFACTURER'S INSTRUCTIONS

- A. When the Contract Documents require that installation of work shall comply with manufacturer's printed instructions, obtain and distribute copies of such instructions to parties involved in the installation, as specified in Section 01340, SUBMITTALS.
- B. Maintain one set of complete instructions at the job site during installation and until completion.
- C. Handle, install, connect, clean, condition and adjust products in strict accordance with such instructions and in conformity with specified requirements.
- D. Should job conditions or specified requirements conflict with manufacturer's instructions, consult with Engineer for further instructions.
- E. Do not proceed with work without clear instructions.
- F. Perform work in accordance with manufacturer's instructions. Do not omit any preparatory step or installation procedure unless specifically modified or exempted by the Contract Documents.

1.03 TRANSPORTATION AND HANDLING

- A. Arrange deliveries of products in accordance with construction schedules, coordinate to avoid conflict with work and conditions at the site and also when two or more trades, Contractors, or suppliers are involved.

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SECTION 01600
MATERIAL AND EQUIPMENT

- B. Transport all materials and equipment on legally approved conveyances as required or recommended by the respective manufacturer or supplier.
- C. Deliver products in undamaged condition, in manufacturer's original containers or packaging, with identifying labels intact and legible.
- D. Receive and handle all materials and equipment, at the project site, by conveyances or methods as recommended by the respective manufacturer or supplier to prevent damage to products.
- E. Immediately on delivery, inspect shipments to assure compliance with requirements of Contract Documents and reviewed submittals, and that products are properly protected and undamaged.
- F. Remove from the site any material or item of equipment damaged during the transportation or handling process, and immediately replace at no additional cost to the Owner.

1.04 STORAGE AND PROTECTION

- A. Store products in accordance with the manufacturer's instructions, with seals and labels intact and legible.
- B. Store products subject to damage by the elements in weather tight enclosures.
- C. Maintain temperature and humidity within the ranges required by manufacturer's instructions.
- D. Maintain all storage areas in a clean and orderly condition at all times.
- E. Store calibrated products in such a manner as to not alter the calibrated settings.

1.05 EXTERIOR STORAGE

- A. Store fabricated products above the ground, on blocking or skids, prevent soiling or staining. Cover products, which are subject to deterioration with impervious sheet coverings, provide adequate ventilation to avoid condensation.
- B. Arrange storage in a manner to provide easy access for inspection. Make periodic inspections of stored products to assure that products are maintained under specified conditions, and free from damage or deterioration.
- C. Replace any material or item of equipment damaged, due to inadequate storage protection, and immediately replace at no additional cost to the Owner.

1.06 PROTECTION AFTER INSTALLATION

- A. Provide substantial coverings as necessary to protect installed products from damage from traffic and subsequent construction operations. Remove when no longer needed.

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SECTION 01600
MATERIAL AND EQUIPMENT

1.07 CERTIFICATES OF CONFORMANCE AND MANUFACTURE

- A. In addition to other requirements specified herein, the Contractor shall furnish to the Engineer, as specified in Section 01340, SUBMITTALS, notarized certificates of conformance and manufacture that all materials and/or equipment to be furnished under this contract meet the specification requirements. When directed, each shipment of material shall be accompanied by the manufacturer's notarized certificates of conformance and manufacture. Unless otherwise specifically specified, all testing of materials shall be provided by the Contractor at no additional expense to the Owner.

- B. Each manufacturer's certificate shall be endorsed or accompanied by the Contractor's certificate that the material certified by the manufacturer will be the material incorporated in the work.

PART 2.00 - PRODUCTS

Not Used

PART 3.00 - EXECUTION

Not Used

END OF SECTION

PART 1.00 - GENERAL

1.01 REQUIREMENTS INCLUDED

- A. Comply with requirements stated in conditions of the contract and in specifications for administrative procedure in closing out the work.

1.02 SUBSTANTIAL COMPLETION

- A. When Contractor considers the work is substantially complete, he shall submit to Owner:
 - 1. A written notice that the work, or designated portion thereof, is substantially complete.
 - 2. A list of items to be completed or corrected.
- B. Within a reasonable time after receipt of such notice, Owner will review the work to determine the status of completion.
- C. Should Owner determine that the work is not substantially complete:
 - 1. Owner will promptly notify the Contractor in writing, giving the reasons therefore.
 - 2. Contractor shall remedy the deficiencies in the work, and send out another written notice of substantial completion to the Owner.
 - 3. Owner will again review the work.
- D. When Owner concurs that the work is substantially complete, he will:
 - 1. Prepare a certificate of substantial completion, accompanied by Contractor's list of items to be completed or corrected, as verified and amended by the Owner.
 - 2. Submit the certificate to Contractor and manufacturer for their written acceptance of the responsibilities assigned to them in the certificate.

1.03 FINAL REVIEW

- A. When Contractor considers the work is complete, he shall submit written certification that:
 - 1. Contract documents have been reviewed.
 - 2. Work has been inspected for compliance with Contract Documents.
 - 3. Work has been completed in accordance with Contract Documents.
 - 4. Equipment and systems have been tested in the presence of the Owner's representative and are operational.
 - 5. Work is completed and ready for final review.
- B. Owner will make final review to verify the status of completion with reasonable promptness after receipt of such certification.
- C. Should Owner consider that the work is incomplete or defective:
 - 1. Owner will promptly notify the Contractor in writing, listing the incomplete or defective work.
 - 2. Contractor shall take immediate steps to remedy the stated deficiencies, and send out another written certification to Owner that the Work is complete.

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**SECTION 01700
CONTRACT CLOSEOUT**

3. Owner will again review the Work.

D. When the Owner finds that the Work is acceptable under the Contract Documents and that all punch list items have been accomplished to his satisfaction, he shall request the Contractor to make closeout submittals.

1.04 FEES FOR ADDITIONAL REVIEWS

A. Should Owner or Owner's Representative perform additional reviews due to failure of the Work to comply with the claims of status of completion made by the Contractor:

1. Owner or Owner's Representative will be compensated for such additional services.
2. Owner will deduct the amount of such compensation from the final payment to the Contractor.

1.05 CONTRACTOR'S CLOSEOUT SUBMITTALS TO OWNER

A. Operating and Maintenance Data:

1. Instruct the Owner's personnel with regard to equipment, systems and operating specialties which are installed as part of this project.
2. Submit brochures indicating operating instructions and maintenance schedules for all equipment, systems, operating devices and specialties, as specified in Section 01340, SUBMITTALS.
3. Submit detailed maintenance methods and schedules for all materials and equipment provided in this project, as specified in Section 01340, SUBMITTALS.

B. Warranties, Guarantees, and Bonds:

1. In addition to the Warranty and Guarantee Requirements of the General Conditions, provide all other guarantees, bonds, affidavits and certifications required throughout the specifications.

C. Spare parts and maintenance materials for Owner.

D. Contractor's affidavit of payment of debts and claims.

E. Contractor's affidavit of release of liens.

F. Consent of surety to final payment.

G. Certificate of insurance for products and completed operations.

H. Project Record Drawings – (see Section 01720)

1. Inclusive of red-lined markups.

1.06 FINAL ADJUSTMENT OF ACCOUNTS

A. Submit a final statement of accounting to Owner.

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**SECTION 01700
CONTRACT CLOSEOUT**

- B. Statement shall reflect all adjustments to the contract sum:
1. The original contract sum.
 2. Additions and deductions resulting from:
 - a. Previous change orders.
 - b. Allowances.
 - c. Unit prices.
 - d. Deductions for uncorrected work.
 - e. Deductions for liquidated damages.
 - f. Deductions for re-inspection payments.
 - g. Other adjustments.
 3. Total contract sum, as adjusted.
 4. Previous payments.
 5. Sum remaining due.
- C. Owner will prepare a final change order reflecting approved adjustments to the contract sum which were not previously made by change orders.

1.07 FINAL APPLICATION FOR PAYMENT

- A. Contractor shall submit the final application for payment in accordance with procedures and requirements stated in the General Conditions.

PART 2.00 - PRODUCTS

Not Used

PART 3.00 - EXECUTION

Not Used

END OF SECTION

PART 1.00 - GENERAL

1.01 REQUIREMENTS INCLUDED

- A. Maintain at the site for the Owner one record copy of
 - 1. Drawings
 - 2. Specifications
 - 3. Addenda
 - 4. Change orders and other modifications to the contract
 - 5. Engineer field orders or written instructions
 - 6. Reviewed shop drawings, product data and samples
 - 7. Field test records

1.02 MAINTENANCE OF DOCUMENTS AND SAMPLES

- A. Store documents and samples in Contractor's field office apart from documents used for construction.
- B. Provide locked file cabinet for storage of documents.
- C. Provide locked cabinet space for storage of samples.
- D. File documents and samples in accordance with CSI/CSC format.
- E. Maintain documents in a clean, dry, legible condition and in good order. Do not use record documents for construction purposes.
- F. Make documents and samples available at all times for inspection by Engineer and Owner.

1.03 MARKING DEVICES

- A. Provide felt tip marking pens for recording information in the color code designated by Engineer.

1.04 RECORDING

- A. Label each document "Project Record" in neat large printed letters.
- B. Record information concurrently with construction progress.
- C. Do not conceal any work until required information is recorded.
- D. Drawings: Principal dimensions, elevations and other data, as required, shall be recorded for all work, such as:
 - 1. Deviations of any nature made during construction.
 - 2. Field changes of dimension and detail.
 - 3. Changes made by field order or by change order.
 - 4. Details not on original contract drawings.
- E. The marked-up prints shall be inspected weekly by the Engineer and shall be corrected immediately if found either inaccurate or incomplete.

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**SECTION 01720
PROJECT RECORD DOCUMENTS**

- F. Specifications and Addenda: Legibly mark each section to record:
1. Manufacturer, trade name, catalog number, and supplier of each product and item of equipment actually installed.
 2. Changes made by field order or by change order shall reference the appropriate order on the drawings.

1.05 FINAL MEASUREMENTS

- A. The Contractor shall provide qualified personnel and equipment for taking final measurements for quantities and record documents.

1.06 RECORD DRAWINGS

- A. At the completion of the project, and prior to submitting for final payment, the record prints shall be submitted to the Engineer for final review and comment.
- B. The Contractor shall correct, amplify and do all other work as may be required by the Engineer to complete the drawings in a manner satisfactory to the Engineer and at no additional cost to the Owner.
- C. Upon approval, the Contractor shall provide two (2) full size copies of the final record drawing set and one (1) in PDF or electronic format to the Engineer. The final record set shall be submitted to the Owner by the Engineer.

1.07 SUBMITTAL

- A. Close out submittal shall consist of the following:
1. A cover sheet indicating:
 - a. Project Title
 - b. Owner's name and address
 - c. Contractor's name and address
 - d. Date of substantial completion
 - e. Date of final completion
 - f. Contents of submittal package
 2. Final project submittals (submittals marked "rejected" or "revise and resubmit" need not be included)
 3. Project RFI's
 4. Project record documents (redlined drawings)
- B. At contract close-out, deliver record documents to Engineer for the Owner.
- C. Accompany submittal with transmittal letter in duplicate, containing:
1. Date
 2. Project title and number
 3. Contractor's name and address
 4. Title and number of each record document
 5. Signature of Contractor or his authorized representative

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SECTION 01720
PROJECT RECORD DOCUMENTS

PART 2.00 – PRODUCTS
Not Used

PART 3.00 – EXECUTION
Not Used

END OF SECTION

DIVISION 2 – SITE CONSTRUCTION

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**SECTION 02005
MOBILIZATION/DEMobilIZATION**

PART 1.00 - GENERAL

1.01 WORK INCLUDED

- A. This section covers the work necessary to move in personnel and equipment, set up Contractor's temporary offices, facilities, utilities, prepare the site for construction, and demobilize.

1.02 GENERAL

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.
- B. Areas designated for Contractor stockpiles (staging area) and site access shall be coordinated with the Owner prior to commencing construction.
- C. In the event additional space is required for the Contractor's operations, the Contractor shall make its own arrangements and pay for such additional space.

PART 2.00 - PRODUCTS

2.01 TEMPORARY FACILITIES

- A. The Contractor shall obtain necessary permits, coordinate, and provide all temporary facilities as required for performing the work, including any facilities specified for the Owner's or the Engineer's use.

2.02 TEMPORARY UTILITIES

- A. The Contractor shall coordinate for and obtain the necessary permits for connection to these services.

2.03 SECURITY FENCE

- A. Construct temporary security fence as required for the protection of the Contractor's materials, tools, and equipment. Maintain fence during construction.

2.04 PARKING FACILITIES

- A. Provide parking facilities for Contractor, Owner, and Engineer personnel working on the project.

PART 3.00 - EXECUTION

3.01 LAYOUT

- A. Set up construction facilities in a neat and orderly manner within the Contractor's staging area and at a location acceptable to the Owner. Accomplish all required work in accordance with applicable portions of these Specifications. Confine operations within the general work limits shown.

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**SECTION 02005
MOBILIZATION/DEMobilIZATION**

3.02 DEMOBILIZATION

- A. At the completion of the work and immediately prior to final inspection, clean the entire project area removing all debris, soil, and rubbish.
 - 1. Should Contractor not remove rubbish or debris or not clean the facilities and site as specified above, the Owner reserves the right to have final cleaning done by others at the sole expense of the Contractor.

- B. The Contractor shall:
 - 1. Employ experienced workers or professional cleaners for final cleaning.
 - 2. Conduct final inspection of concealed spaces in preparation for Contract completion.
 - 3. Remove from the property temporary structures and materials, equipment, and appurtenances not required as part of, or appurtenant to, the completed work.

- C. At the completion of the work, the Contractor shall:
 - 1. Restore all roadways outside the limits of reconstruction to preconstruction condition.
 - 2. Loam and seed staging area and repair areas damaged by construction activities to preconstruction condition.

END OF SECTION

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**SECTION 02050
DEMOLITION AND REMOVAL**

PART 1.00 - GENERAL

1.01 WORK INCLUDED

- A. This section covers the work associated with the demolition and removal of existing materials to be removed as shown in the Contract Documents, and the offsite disposal of this material.
- B. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SUBMITTALS

- A. The Contractor shall submit to the Engineer a schedule of removal and disposal.
- B. Contractor shall submit disposal site certification and haul roads for all disposal.

PART 2.00 - PRODUCTS

2.01 GENERAL

- A. The Contractor shall provide all materials and equipment in suitable and adequate quantity as required to accomplish the work shown and specified

PART 3.00 - EXECUTION

3.01 GENERAL

- A. No demolition or removal shall occur until proper controls have been accepted and installed.
- B. Demolition approaches shall employ low vibration methodologies that limits disturbance to adjacent structure(s) to remain. Vibrations are not to exceed 2 in/sec.
- C. No burning of combustible materials will be permitted. Remove all demolition materials from the work site and dispose of in accordance with all Federal, State, and local codes, regulations, and ordinances.

END OF SECTION

DIVISION 6 – WOOD, PLASTICS, AND COMPOSITES

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SECTION 06100
ROUGH CARPENTRY

PART 1.00 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. Section Includes:
 - 1. Framing with dimension lumber.
 - 2. Framing with timber and glulams.

1.03 DEFINITIONS

- A. Exposed Framing: Framing not concealed by other construction.
- B. Dimension Lumber: Lumber of 2 inches nominal or greater but less than 5 inches nominal in least dimension.
- C. Timber: Lumber of 5 inches nominal or greater in least dimension.
- D. Lumber grading agencies, and the abbreviations used to reference them, include the following:
 - 1. NeLMA: Northeastern Lumber Manufacturers' Association.
 - 2. NLGA: National Lumber Grades Authority.
 - 3. RIS: Redwood Inspection Service.
 - 4. SPIB: The Southern Pine Inspection Bureau.
 - 5. WCLIB: West Coast Lumber Inspection Bureau.
 - 6. WWPA: Western Wood Products Association.

1.04 ACTION SUBMITTALS

- A. Product Data: For each type of process and factory-fabricated product. Indicate component materials and dimensions and include construction and application details.
 - 1. Include data for wood-preservative treatment from chemical treatment manufacturer and certification by treating plant that treated materials comply with requirements. Indicate type of preservative used and net amount of preservative retained.
 - 2. For products receiving waterborne treatment, include statement that moisture content of treated materials was reduced to levels specified before shipment to Project site.
 - 3. Include copies of warranties from chemical treatment manufacturers for each type of treatment.
- B. Fastener Patterns: Full-size templates for fasteners in exposed framing.

1.05 INFORMATIONAL SUBMITTALS

- A. Material Certificates: For dimension lumber specified to comply with minimum allowable unit stresses. Indicate species and grade selected for each use and design values approved by the ALSC Board of Review.

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- B. Evaluation Reports: For the following, from ICC-ES:
 - 1. Wood-preservative-treated wood.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Stack lumber flat with spacers beneath and between each bundle to provide air circulation. Protect lumber from weather by covering it with waterproof sheeting, securely anchored. Provide for air circulation around stacks and under coverings.

PART 2.00 - PRODUCTS

2.01 WOOD PRODUCTS, GENERAL

- A. Lumber: DOC PS 20 and applicable rules of grading agencies indicated. If no grading agency is indicated, provide lumber that complies with the applicable rules of any rules-writing agency certified by the ALSC Board of Review. Provide lumber graded by an agency certified by the ALSC Board of Review to inspect and grade lumber under the rules indicated.
 - 1. Factory mark each piece of lumber with grade stamp of grading agency.
 - 2. For exposed lumber indicated to receive a stained or natural finish, mark grade stamp on end of each piece.
 - 3. Where nominal sizes are indicated, provide actual sizes required by DOC PS 20 for moisture content specified. Where actual sizes are indicated, they are minimum dressed sizes for dry lumber.
 - 4. Provide dressed lumber, S4S, unless otherwise indicated.
- B. Maximum Moisture Content of Lumber: 15 percent, unless otherwise indicated.

2.02 WOOD-PRESERVATIVE-TREATED LUMBER

- A. Preservative Treatment by Pressure Process: AWWPA U1; Use Category UC2 for interior construction not in contact with the ground, Use Category UC3b for exterior construction not in contact with the ground, and Use Category UC4a for items in contact with the ground.
 - 1. Preservative Chemicals: Acceptable to authorities having jurisdiction and containing no arsenic or chromium.
 - 2. For exposed items indicated to receive a stained or natural finish, use chemical formulations that do not require incising, contain colorants, bleed through, or otherwise adversely affect finishes.
- B. Kiln-dry lumber after treatment to a maximum moisture content of 15 percent. Do not use material that is warped or that does not comply with requirements for untreated material.
- C. Mark lumber with treatment quality mark of an inspection agency approved by the ALSC Board of Review.
 - 1. For exposed lumber indicated to receive a stained or natural finish, mark end or back of each piece.
- D. Application: Treat items indicated on Drawings, and the following:

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1. Wood cants, nailers, curbs, blocking, stripping, and similar members in connection with roofing, flashing, vapor barriers, and waterproofing.
2. Wood sills, sleepers, blocking, and similar concealed members in contact with masonry or concrete.
3. Wood framing and furring attached directly to the interior of below-grade exterior masonry or concrete walls.
4. Wood framing members that are less than 18 inches above the ground in crawlspaces or unexcavated areas.
5. Wood floor plates that are installed over concrete slabs-on-grade.

2.03 DIMENSION LUMBER FRAMING

- A. Provide lumber sizes and species as indicated on the Drawings.
- B. Exposed Framing: Provide material hand-selected for uniformity of appearance and freedom from characteristics, on exposed surfaces and edges, that would impair finish appearance, including decay, honeycomb, knot-holes, shake, splits, torn grain, and wane.
 1. Application: Exposed interior framing indicated to receive a stained finish].
 2. Species and Grade: As indicated on the Drawings.

2.04 TIMBER FRAMING

- A. Provide timber framing sizes and species as indicated on the Drawings.

2.05 FASTENERS

- A. General: Provide fasteners of size and type indicated that comply with requirements specified in this article for material and manufacture.
 1. Where rough carpentry is exposed to weather, in ground contact, pressure-preservative treated, or in area of high relative humidity, provide fasteners with hot-dip zinc coating complying with ASTM A 153/A 153M.
- B. Nails, Brads, and Staples: ASTM F 1667.
- C. Power-Driven Fasteners: NES NER-272.
- D. Wood Screws: ASME B18.6.1.
- E. Lag Bolts: ASME B18.2.
- F. Bolts: Steel bolts complying with ASTM A 307, Grade A; with ASTM A 563 hex nuts and, where indicated, flat washers.

PART 3.00 - EXECUTION

3.01 INSTALLATION, GENERAL

- A. Set rough carpentry to required levels and lines, with members plumb, true to line, cut, and fitted. Fit rough carpentry to other construction; scribe and cope as needed for accurate fit. Locate nailers, blocking, and similar supports to comply with requirements for attaching other construction.

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- B. Framing Standard: Comply with AF&PA's WCD 1, "Details for Conventional Wood Frame Construction," unless otherwise indicated.
- C. Do not splice structural members between supports unless otherwise indicated.
- D. Provide blocking and framing as indicated and as required to support facing materials, fixtures, specialty items, and trim.
- E. Sort and select lumber so that natural characteristics will not interfere with installation or with fastening other materials to lumber. Do not use materials with defects that interfere with function of member or pieces that are too small to use with minimum number of joints or optimum joint arrangement.
- F. Comply with AWWPA M4 for applying field treatment to cut surfaces of preservative-treated lumber.
 - 1. Use inorganic boron for items that are continuously protected from liquid water.
 - 2. Use copper naphthenate for items not continuously protected from liquid water.
- G. Securely attach rough carpentry work to substrate by anchoring and fastening as indicated, complying with the following:
 - 1. NES NER-272 for power-driven fasteners.
 - 2. Table 2304.10.1, "Fastening Schedule," in ICC's International Building Code.
- H. Use steel common nails unless otherwise indicated. Select fasteners of size that will not fully penetrate members where opposite side will be exposed to view or will receive finish materials. Make tight connections between members. Install fasteners without splitting wood. Drive nails snug but do not countersink nail heads unless otherwise indicated.
- I. For exposed work, arrange fasteners in straight rows parallel with edges of members, with fasteners evenly spaced, and with adjacent rows staggered.
 - 1. Comply with indicated fastener patterns where applicable. Before fastening, mark fastener locations, using a template made of sheet metal, plastic, or cardboard.
 - 2. Use common nails unless otherwise indicated. Drive nails snug but do not countersink nail heads.

3.02 WOOD AND NAILER INSTALLATION

- A. Install where indicated and where required for attaching other work. Form to shapes indicated and cut as required for true line and level of attached work. Coordinate locations with other work involved.
- B. Attach items to substrates to support applied loading. Recess bolts and nuts flush with surfaces unless otherwise indicated.

3.03 PROTECTION

- A. Protect wood that has been treated with inorganic boron (SBX) from weather. If, despite protection, inorganic boron-treated wood becomes wet, apply EPA-registered borate treatment. Apply borate solution by spraying to comply with EPA-registered label.

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- B. Protect rough carpentry from weather. If, despite protection, rough carpentry becomes sufficiently wet that moisture content exceeds that specified, apply EPA-registered borate treatment. Apply borate solution by spraying to comply with EPA-registered label.

END OF SECTION

DIVISION 9 – FINISHES

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SECTION 09931
WOOD STAINS AND TRANSPARENT FINISHES

PART 1.00 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. Section includes surface preparation and application of wood finishes on the following substrates:
 - 1. All exposed sides of roof framing, including arched glulams, compression ring, roof beams, and purlins.
 - 2. All exposed sides of roof decking.

1.03 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated. Include preparation requirements and application instructions.
- B. Samples for Initial Selection: For each type of product indicated.
- C. Samples for Verification: For each type of finish system and in each color and gloss of finish indicated.
 - 1. Submit Samples on representative samples of actual wood substrates, minimum 8 inches long.
 - 2. Label each Sample for location and application area.
- D. Product List: For each product indicated, include the following:
 - 1. Cross-reference to finish system and locations of application areas. Use same designations indicated on Drawings and in schedules.
 - 2. Printout of current "MPI Approved Products List" for each product category specified in Part 2, with the product proposed for use highlighted.
 - 3. VOC content.

1.04 MAINTENANCE MATERIAL SUBMITTALS

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

1.05 QUALITY ASSURANCE

- A. Mockups: Apply mockups of each finish system indicated and each color selected to verify preliminary selections made under sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.

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1. Engineer/Owner will select one surface to represent surfaces and conditions for application of each type of finish system and substrate.
- B Vertical and Horizontal Surfaces: Provide samples of at least 100 sq. ft
- C. Other Items: Engineer/Owner will designate items or areas required.
 1. Final approval of stain color selections will be based on mockups.
- D. If preliminary stain color selections are not approved, apply additional mockups of additional stain colors selected by Engineer/Owner at no added cost to Owner.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Store materials not in use in tightly covered containers in well-ventilated areas with ambient temperatures continuously maintained at not less than 45 deg F.
 1. Maintain containers in clean condition, free of foreign materials and residue.
 2. Remove rags and waste from storage areas daily.

1.07 FIELD CONDITIONS

- A. Apply finishes only when temperature of surfaces to be finished and ambient air temperatures are between 50 and 95 deg F or as recommended by the finish system manufacturer.
- B. Do not apply finishes when relative humidity exceeds 85 percent; at temperatures less than 5 deg F above the dew point; or to damp or wet surfaces.
- C. Do not apply exterior finishes in snow, rain, fog, or mist.

PART 2.00 - PRODUCTS

2.01 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, acceptable manufacturers that may be incorporated into the Work include, but are not limited to, the following:
 1. Behr Process Corporation.
 2. Benjamin Moore & Co.
 3. Euclid Chemical Company.
 4. Kelly-Moore Paints.
 5. Sherwin-Williams Company (The).
 6. Approved equivalent.

2.02 MATERIALS, 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:

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1. Provide materials for use within each finish 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 finish system, provide products recommended in writing by manufacturers of topcoat for use in finish system and on substrate indicated.

C. Stain Colors: Match existing.

2.03 STAINS

A. Stain, Semi-Transparent, for Interior Wood: MPI #90; color to match existing.

2.04 WOOD PRESERVATIVE/SEALER

A. Wood Preservative/Sealer: Clear, moisture and mildew resistant, rated for exterior and interior applications.

2.05 SOURCE QUALITY CONTROL

A. Testing of Materials: Owner reserves the right to invoke the following procedure:

1. Owner will engage the services of a qualified testing agency to sample wood finishing materials. The contractor will be notified in advance and may be present when samples are taken. If materials have already been delivered to Project site, samples may be taken at Project site. Samples will be identified, sealed, and certified by a testing agency.
2. Testing agency will perform tests for compliance with product requirements.
3. Owner may direct Contractor to stop applying wood finishes if test results show materials being used do not comply with product requirements. Contractor shall remove noncomplying materials from Project site, pay for testing, and refinish surfaces finished with rejected materials. Contractor will be required to remove rejected materials from previously finished surfaces before refinishing with complying materials if the two finishes are incompatible or produce results that, in the opinion of the Engineer/Owner

PART 3.00 - EXECUTION

3.01 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.
- B. Maximum Moisture Content of Exterior Wood Substrates: 15 percent, when measured with an electronic moisture meter, unless more stringent criteria is required by the finish system manufacturer.
- C. Maximum Moisture Content of Interior Wood Substrates: 15 percent, when measured with an electronic moisture meter, unless more stringent criteria is required by the finish system manufacturer.
- D. Verify suitability of substrates, including surface conditions and compatibility with existing finishes and primers.

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- E. Proceed with finish application only after unsatisfactory conditions have been corrected.
 - 1. Beginning finish application constitutes Contractor's acceptance of substrates and conditions.

3.02 PREPARATION

- A. Comply with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual" applicable to substrates indicated.
- B. Remove hardware, covers, plates, and similar items already in place that are removable. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and finishing.
 - 1. After completing finishing operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection if any.
- C. Clean and prepare surfaces to be finished according to manufacturer's written instructions for each particular substrate condition and as specified.
 - 1. Remove existing coatings as recommended by the manufacturer.
 - 2. Remove dust, dirt, oil, and grease by washing with a detergent solution; rinse thoroughly with clean water and allow to dry. Remove grade stamps and pencil marks by sanding lightly. Remove loose wood fibers by brushing.
 - 3. Remove mildew by scrubbing with a commercial wash formulated for mildew removal and as recommended by stain manufacturer.
- D. Interior Wood Substrates:
 - 1. Scrape and clean knots and apply coat of knot sealer before applying primer.
 - 2. Apply wood filler paste to open-grain woods, as defined in "MPI Architectural Painting Specification Manual," to produce smooth, glasslike finish.
 - 3. Sand surfaces that will be exposed to view and dust off.
 - 4. After priming, fill holes and imperfections in the finish surfaces with putty or plastic wood filler. Sand smooth when dried.

3.03 APPLICATION

- A. Apply finishes according to manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual."
 - 1. Use applicators and techniques suited for finish and substrate indicated.
 - 2. Finish surfaces behind movable equipment and furniture same as similar exposed surfaces.
 - 3. Do not apply finishes over labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.
- B. Apply finishes to produce surface films without cloudiness, holidays, lap marks, brush marks, runs, ropiness, or other surface imperfections.

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3.04 CLEANING AND PROTECTION

- A. At end of each workday, remove rubbish, empty cans, rags, and other discarded materials from Project site.
- B. After completing finish application, clean spattered surfaces. Remove spattered materials by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.
- C. Protect work of other trades against damage from finish application. Correct damage 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 finished wood surfaces.

3.05 WOOD-FINISH-SYSTEM SCHEDULE

- A. Apply stain to all new purlins and compression ring to match existing.
- B. Apply wood preservative/sealer to all exposed sides of roof framing and roof decking.

END OF SECTION

APPENDIX A – PERMITS