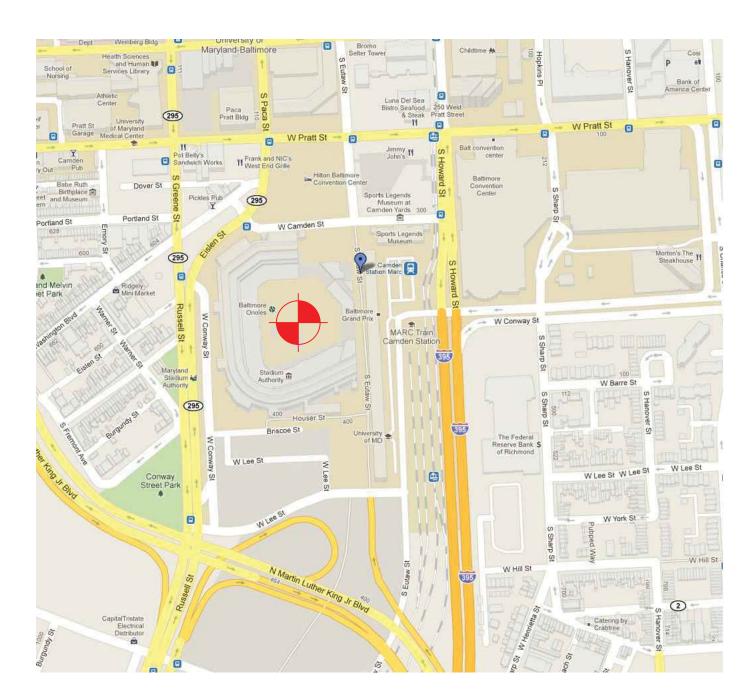
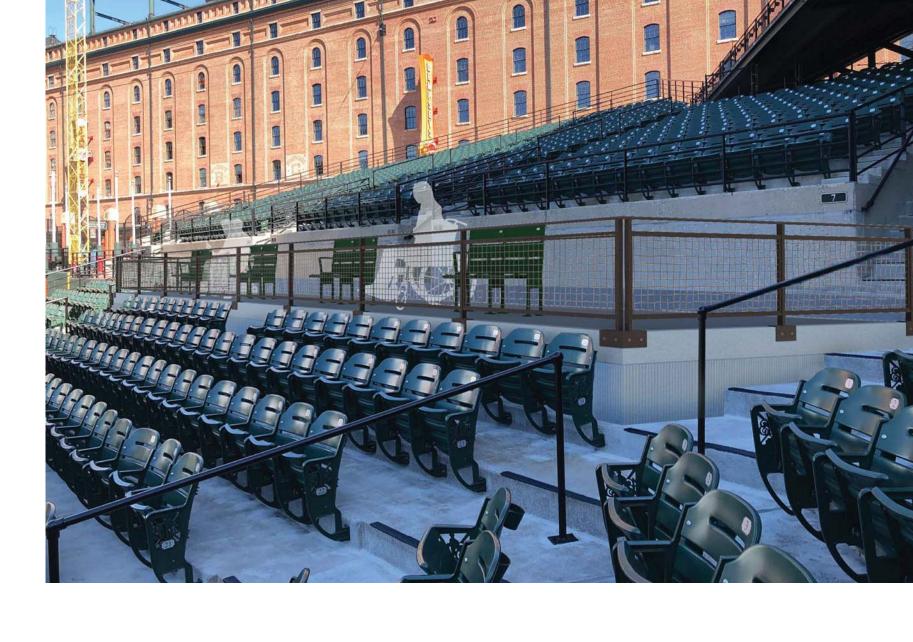
THE MARYLAND STADIUM AUTHORITY ORIOLE PARK AT CAMDEN YARDS LOWER SEATING BOWL MODIFICATIONS

333 WEST CAMDEN STREET | BALTIMORE, MARYLAND | 21201

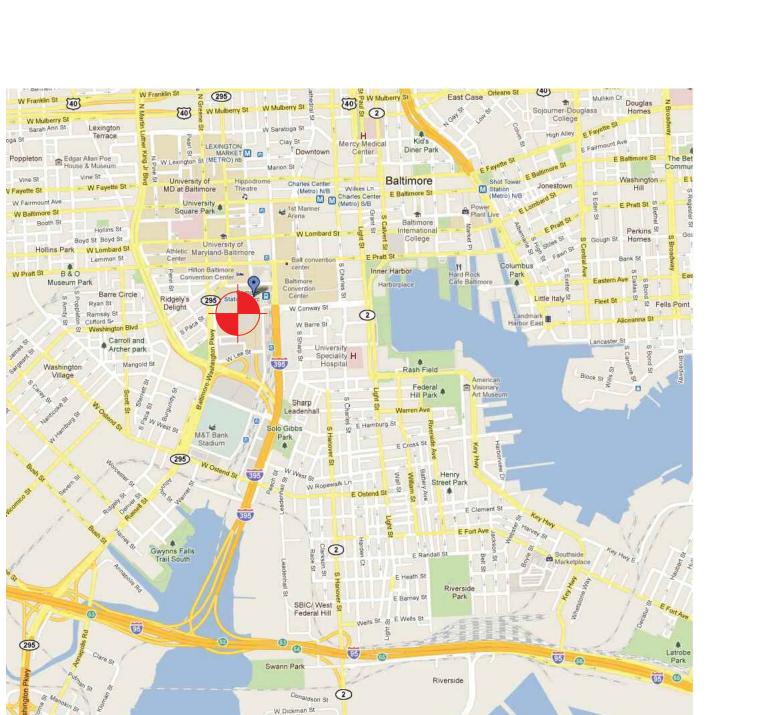
OWNER ADDRESS:
MARYLAND STADIUM AUTHORITY
333 WEST CAMDEN STREET - SUITE 500
BALTIMORE MD 21201



LOCATION MAP - NTS



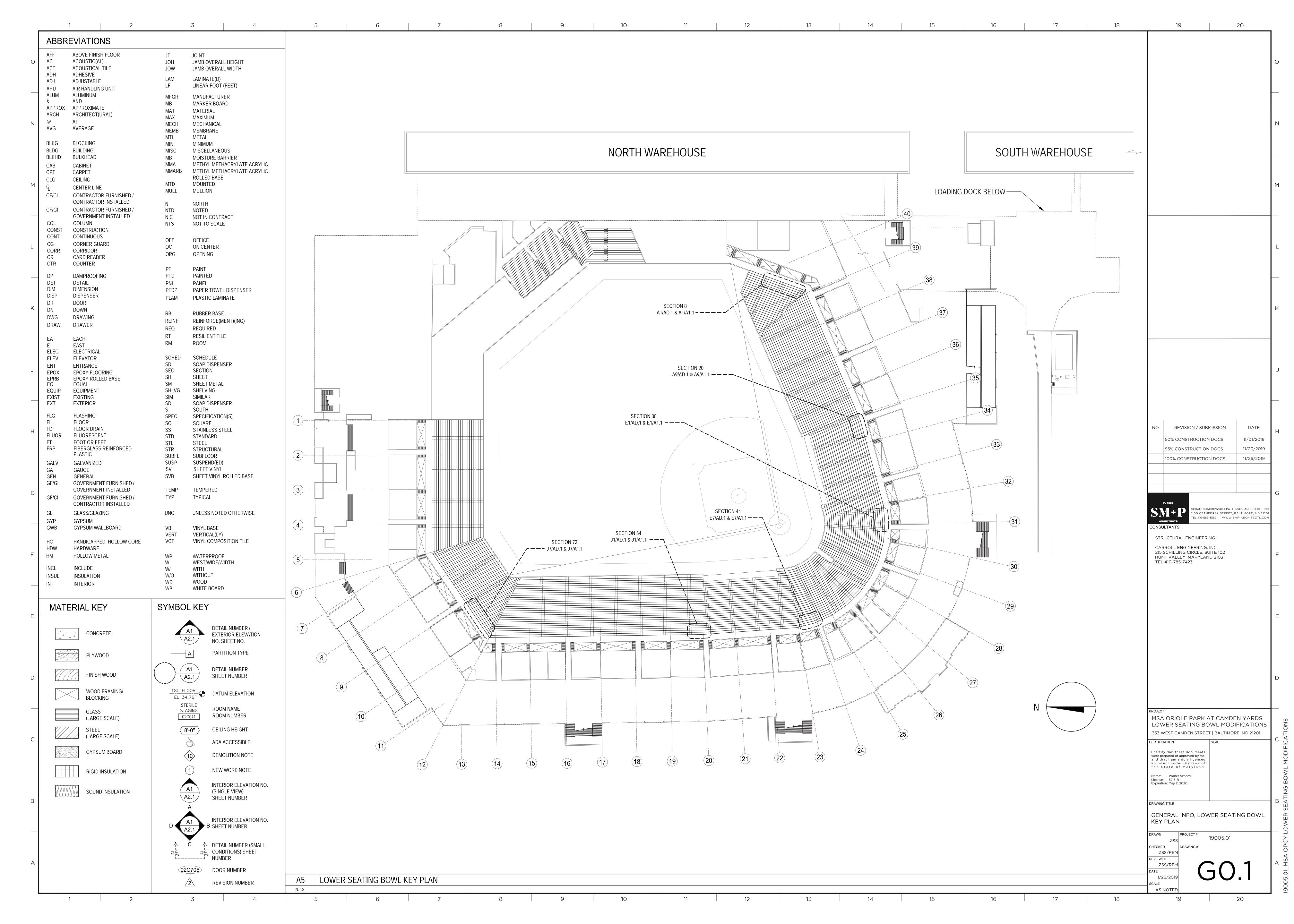
CONCEPT IMAGES - NTS



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AS.2 ARCHITECTURAL SPECIFICATIONS AD.1 PART LOWER SEATING BOWL - DEMOLITION PLANS					
A1.1 PART LOWER SEATING BOWL - NEW WORK PLANS A2.1 ELEVATIONS AND DETAILS					
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The primary work area is approximately x,xxx SF.

Project Scope and Intent: The project is comprised of modifications within the lower seating bowl of the Oriole Park baseball stadium at Camden Yards for the Maryland Stadium Authority. Work includes selective demolition of fixed seating, construction of new platforms to expand accessible seating areas, and the installation of new fixed companion seats on

the new platforms. The stadium is to be considered occupied during construction and the General Contractor shall protect adjacent surfaces from dust and damage as necessary.

2. This project proposes NO changes to the current Use, Occupancy, or Occupant load. There is NO mechanical, plumbing, fire protection, or electrical work.

01 15 00 - GENERAL REQUIREMENTS:

Project documents include 30X42 drawings for Architectural, Mechanical, Electrical, and Fire Protection Work. Specifications are on Drawings.

The Owner's Representative for this project shall be: Anthony Pruner, 410-349-7965, tpruner@mdstad.com Construction work will be required to coordinate with occupied spaces. Maintain existing entrances, exits, and egress pathways at all times as required by building codes.

Contractor's access and use of the project site shall be closely coordinated with designated Owner's Representative. Contractors shall limit the use of Project site to areas within designated work areas in accordance with an agreed upon schedule and sequencing plan. Do not access or disturb portions of the building or Project area beyond those areas and locations specifically designated in these documents or approved separately in writing by the Owner. Contractor shall photograph the work spaces to establish a record of the existing conditions.

6. Protect and maintain all portions of the existing building and site affected by construction operations in good order. Damage and/or alteration of existing materials and building components shall be documented and made known to the Owner and Architect. Make repairs and provide restorative work as necessary in accordance with Owner's directions,

should damage or disturbance arise caused by construction operations. 7. Contractor shall provide the Owner a full project schedule detailing construction operations and sequence of work from start to finish. Provide not less than **one week** notification to

the Owner of activities that may deviate from the project schedule and that which may affect the Owner's operations in any way. 8. Provide not less than **one week** notification to the Owner of activities that may result in high levels of noise, odors, or other disruptions, such as Utility shutdowns. Limit and contain the levels of dust and debris that may be generated by construction operations.

Owner and Contractor shall agree to work hours and any restrictions thereto. Facility will be available to the Contractor at any day/time for work activities outside of Owner's events and shall coordinate work around any Owner events.

10. Cooperate and coordinate with Owner's operations to determine acceptable site access locations, vehicular drop-off for personnel and loading and unloading of materials, locations for refuse containers, etc. Comply with City laws and ordinances pertaining to use of public ways, streets and sidewalks. 11. Contractor shall comply with all local, state, and federal safety, performance, and building code requirements.

12. Contractor shall carefully survey work areas and compare to project requirements described on contract documents. Contractor shall provide written notice to the Owner and Architect of discrepancies found and submit a Request For Information (RFI) and direction prior to executing work. 13. At the start of construction, coordinate with Owner's security representatives to review site access and security requirements, such as sign-in forms and identification badges, for Contractor's and Subcontractor's personnel. Owner-issued identification badges may be required for this project for all employees while on the premises. Maintain a daily log of all employees who have been issued badges or who access the site. Return all badges at the completion of construction. Comply with Owner's requirements throughout for site access and restrictions.

14. Provide to Owner and Architect a contact information sheet listing Contractor's and Sub-Contractor's key project personnel; include names, company names, mailing address, office and cellular phone numbers, and email addresses.

01 25 00-SUBSTITUION PROCEDURES:

References to manufacturers or processes in the drawings and specifications are meant to be descriptive and not restrictive. Substitutions will be considered if product data, test

reports and other descriptive information, sufficient in detail to permit comparison with referenced materials are submitted. All substitutions must be submitted to the Owner and Architect prior to installation

01 26 00 - CONTRACT MODIFICATIONS:

Time. This may include supplemental Drawings and Specifications. Within five (5) days of receipt of Proposal Request, submit a quotation estimating the cost adjustments to the Contract Sum and the Contract Time to execute the change. Include a breakdown of material quantities, labor and supervision costs, and an updated construction schedule.

Owner Initiated Proposal Requests will be accompanied by a detailed description of proposed changes in the Work which may require adjustment to the Contract Sum or Contract

Contractor Initiated Proposal Requests shall be submitted to the Owner and Architect including a statement outlining the reasons for the change and the effects of the change on the Work, material quantities, labor and supervision costs, and an updated construction schedule. Upon Owner's approval of Work changes, Contractor shall prepare a Change Order for signatures of Owner, Contractor, and Architect on AIA Document G701.

Owner may issue a Construction Change Directive instructing Contractor to proceed with a change in the Work for subsequent inclusion in a Change order. In such cases, Contractor shall submit documentation of proposed changes to contract cost or time as soon as is practical.

01 29 00 - PAYMENT PROCEDURES:

List of subcontractors.

Submit a Schedule of Values to the Owner and Architect at the earliest possible date, but not later than two weeks following Notice to Proceed. Format Schedule of Values

consistent with AIA Document G703. Coordinate Schedule of Values with contents listed in the project specifications. Submit Applications for Payment to the Owner in PDF format, in accordance with Owner's Contract and schedule requirements, covering a one month period. Use AIA Documents G702 and G703 to format Applications for Payment. The initial application for Payment shall include the following:

Contractor's construction schedule (preliminary if not final). Schedule of unit prices.

Submittal schedule (preliminary if not final).

Certificates of insurance and insurance policies. Other documents as requested and required by Owner.

After completing Project closeout requirements, submit final Application for Payment showing evidence of completion of Project closeout requirements, updated final statements, AIA Documents G706, G706A, and G707.

01 31 00 - PROJECT COORDINATION:

Coordinate construction operations required to complete requirements of the full scope of the Contract Documents to ensure efficient and orderly construction of each portion of Work. Prepare and submit coordination drawings according to requirements where required of individual Specifications, where installation is not completely shown on Shop Drawings, where

limited space availability necessitates coordination, or where coordination is required to facilitate integration of products and materials fabricated or installed by more than one entity. Requests for Information (RFI's): Immediately on discovery of the need for additional information or interpretation of the Contract Documents, Contractor shall prepare and submit an

RFI including the following information:

 a. RFI number, numbered sequentially and titled with appropriate subject matter. Specification section and drawing number and detail references, as appropriate.

Field dimensions and conditions, as appropriate.

d. Contractor's suggested resolution(s), if any. e. If Contractor's resolution(s) impacts the Contract Time or the Contract Sum, Contractor shall state impact in the RFI.

Contractor's signature. Attachments: Include sketches, descriptions, measurements, photos, or other pertinent information to describe the condition.

Architect, Engineer, and Owner will review each RFI, visit the site as necessary to determine action required, and respond. Allow three (3) working days for Architect and Owner's

response for each RFI. Response may request additional information. If Contractor believes the RFI response warrants change in the Contract Time or the Contract Sum, notify Owner and Architect within two (2) days of receipt of the RFI response. Project Meetings: Conduct preconstruction, preinstallation, and progress meetings discussing all aspects of construction activities which affect progress, installation, and completion

of the project. Schedule and conduct meetings and conferences at Project site unless otherwise indicated and in coordination with Owner's requirements. Prepare the meeting agenda. Distribute the agenda to all invited attendees. Contractor shall conduct the meeting and record the discussions, including open items, action items and responsible party, and decisions made. Distribute the meeting minutes to all individuals attending and concerned within three (3) days of the meeting. 6. The Contractor shall regularly schedule and conduct Progress Meetings, per above requirements, to occur weekly (once every week), throughout the duration of the construction

01 33 00 - SUBMITTALS:

1. Contractor shall provide to Owner and Architect a submittal schedule within one-week following Notice to Proceed. Make frequent updates to the submittal schedule, logging reviewed

and approved or rejected submittals accordingly, to accurately track the submittal process. Coordinate the submittal schedule with the construction schedule. Contractor's submittals, such as product data sheets, color charts, shop drawings, and physical samples, shall be required for all products and materials specified herein and

proposed for use on this project. Do not proceed with work until required submittals have been reviewed and approved by the Owner, Architect and Engineer. Provide submittals in a scheduled & timely manner so that review, markups, and re-submittals, if necessary, can occur without negatively impacting the project schedule.

Contractor shall provide product data sheets and shop drawing submittals in digital PDF format Submit physical samples directly to the Architect, with digital transmittal and a

photograph or scanned image of the sample posted as per data submittals so that the submittal is tracked electronically with all other submittals. All Submittals shall be complete, orderly, and provide clear indications of selected products, accessories, and options. Incomplete submittals will be returned to the Contractor without review or markups. All Submittals shall be reviewed by the Contractor for compliance with specification requirements BEFORE submitting them to the Owner and Architect for review.

Contractor shall submit product data, including manufacturer's technical data sheets and other pertinent product information. Contractor shall submit shop drawings where requested in these specifications indicating materials, colors, sizes, products, clearances, and other pertinent information prior to installation to the architect. Shop drawings shall be uniquely produced for this project and shall not be reproductions of the contract documents. Shop drawings shall be produced to a scale commensurate with the level of detail required by the work. Shop drawings shall describe connections to, and coordination with, adjacent work, even if by other trades.

Contractor shall submit physical samples where requested. Samples shall be clearly labeled on the non-finish side to identify the item and distinguish it from other samples showing options for finishes, sheen, gauge, thickness, and other characteristics.

9. Contractor shall submit qualification data for firms and persons demonstrating their capabilities and experience to perform the work as specified in these documents. 01 35 20 - SUSTAINABLE DESIGN REQUIREMENTS:

Contractor shall comply with the requirements and procedures of the Maryland Stadium Authority's existing Sustainability Policies as follows (NOTE: This project is not seeking its

a. Sustainable Purchasing Policy: Submit a Sustainable Purchasing plan that results in end-of-Project rates for sustainable purchases as defined by this section of at least 50-percent by cost of total purchased required by the Work. b. Sustainable Purchases:

Adhesives and Sealants that have VOC content that complies with SCAQMD Rule #1168 and Bay Area Air Quality Management District Regulation 8, Rule 51.

• Paints and Coatings that have VOC emissions complying with Green Seal's Standard GS-11, GS-03, and SCAQMD Rule #1113

 Non-carpeted finished flooring is FloorScore-certified Composite panels and agrifiber products contain no added urea-formaldehyde resins

c. Construction Waste Management Policy: Submit a Construction Waste Management Plan that results in end-of-Project rates for salvage/recycling of 70-percent by volue of total waste generated by the Work.

d. Refer to section 01 74 19 for additional information for Construction Waste Management requirements.

01 50 00 - TEMPORARY FACILITIES, PROTECTIONS, AND CONTROLS:

Water and Electrical power from Owner's existing systems is available for use without metering and without payment of use charges. Provide connections and extensions of services

as required for construction operations that comply with NECA, NEMA, and UL standards, and as may be otherwise directed by the Owner. Comply with NFPA 241 for fire-safety, and provide portable, UL rated fire extinguishers with class and extinguishing agent as required by locations, and classes of fire exposures. Where required, provide temporary lighting with local switching that provides adequate illumination for construction operations, observations, inspections, and traffic conditions.

Protect existing to remain HVAC systems and in-progress installation of new HVAC systems with temporary filters during construction where devices are directly located within work areas or that may be subject to dust and debris from construction operations. Clean and change filtration as needed through construction in order to maintain systems in proper working order and maintain normal interior environmental conditions. Replace temporary filters with new permanent filters upon completion of construction activities.

Where practical and feasible, provide temporary ventilation required by construction activities for curing or drying of completed installations or for protecting installed construction from adverse effects of high humidity. In all spaces, including ventilated and unventilated spaces, provide internal HEPA filtration devices and HEPA filtered vacuums to reduce dust accumulation and airborne debris transmission between spaces. Owner's existing toilet facilities may be available for Contractor's use during construction; coordinate use with owner. Maintain cleanliness and operations of all facilities in good order.

Coordinate with Owner to determine the primary construction entrance for materials and personnel, including site access and acceptable or prohibited pathways through the building, including limited use of certain entrances and building areas. For areas permitted to be used, areas must be kept clean and maintained in a condition acceptable to Owner. Provide temporary flooring protections and wall and corner guard protections, as necessary to prevent damage from Construction Operations. Where required to separate work areas from occupied or otherwise protected spaces, provide dust barriers utilizing framed and hard-sheathed partitions and supported soft shell

barriers of 6-mil minimum, flame-retardant polyethylene plastic sheet. Overlap and tape the seams of partitions. Securely fasten and seal enclosures at ceilings, overhead protection or structure, floor, and walls to provide continuous dust barrier to separate the area of work completely from the adjacent areas. Provide hinged personnel access doors and zipper-style access points through sheeting where required. Ensure adequate ventilation to protected workspace. At access points through the barrier, provide sticky walk-off mats to limit construction debris being transported onto floors adjacent to the work area.

Anchorages for temporary construction and containment assemblies shall not damage existing building fabric. Use suitable separation materials, such as insulation board and

friction-braces to minimize contact points, abrasion, and need for fasteners to permanent construction. 10. Contractor shall determine means and methods for establishing appropriate protections and gain approval from Architect and Owner for all such protections. Repair or replacement of damaged assemblies shall be the Contractor's responsibility throughout construction. Thoroughly clean assemblies that are to be reused before moving them to another portion of the

11. Contractor shall provide required staging, ladders, equipment, materials, and similar items in order to provide temporary protections and controls and to execute the work required. At

the completion of construction and acceptance of the work, remove temporary protections and controls completely and to the satisfaction of the Owner. Provide repairs where necessary.

01 73 00 - EXECUTION

1. Drawings are representative of the general layout and configuration of the existing building and the proposed layout and configuration of systems and assemblies proposed. Existing construction is documented herein to the extent that such information could be reasonably attained through visual observation, field measuring, and limited non-detructive field survey. If existing conditions require alternate system configurations and pathways to be considered and established, such alterations shall be fully evaluated by the Architect, Engineer, and Owner in accordance with RFI procedures.

2. The contractor shall be responsible for verifying existing conditions prior to the commencement of work, including but not limited to, materials and assemblies, dimensions,

clearances, mechanical, electrical, and plumbing systems requirements, and other items affecting the fitting of new work to existing to remain construction.

3. Discrepancies found in the field shall be brought to the immediate attention of the Architect, Engineer, and Owner for review and direction. 4. Do not proceed with work until conditions are acceptable for installation of required work. Proceeding with the Work indicates acceptance of surfaces and conditions.

5. Take field measurements as required to fit the Work properly. Recheck measurements before installing each product. Where portions of the Work are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication. Coordinate fabrication schedule with construction progress to avoid delaying the Work. 6. Locate the Work and components of the Work accurately, in correct alignment and elevation, as indicated.

7. Deliver materials in original packaging; store and stage materials in accordance with manufacturer's product requirements in locations permitted by Owner. 8. Comply with manufacturer's written instructions and recommendations for installing products in applications indicated.

9. Provide blocking and attachment plates and anchors and fasteners of adequate size and number to securely anchor each component in place, accurately located and aligned with other portions of the Work. Where size and type of attachments are not indicated, verify size and type required for load conditions with manufacturers. 10. Protect installed Work from damage and deterioration through construction and time of Substantial Completion.

11. Repair or remove and replace defective construction. Restore damaged substrates and finishes. Repair includes replacing defective parts, refinishing damaged surfaces, touching up with matching materials, and properly adjusting operating equipment.

12. When cutting and patching structural elements, notify Owner of locations and details of cutting and await directions from Owner before proceeding. Shore, brace, and support structural element during cutting and patching. Do not cut and patch structural elements in a manner that could change their load-carrying capacity or increase deflection. 13. Before cutting slabs on grade, survey via appropriate methods to verify presence of existing utilities in the pathway of cutting operations and to verify the exact location of existing

utilities to be incorporated in to new work. 14. Do not cut and patch construction in a manner that results in visual evidence of cutting and patching. Do not cut and patch exposed construction in a manner that would, in Architect's opinion, reduce the building's aesthetic qualities. Remove and replace construction that has been cut and patched in a visually unsatisfactory manner.

underground utilities, mechanical and electrical systems, and other construction affecting the Work. 16. Repair or remove and replace defective construction. Restore damaged substrates and finishes. Repairing includes replacing defective parts, refinishing damaged surfaces, touching up with matching materials, and properly adjusting operating equipment.

15. The existence and location of utilities and construction indicated as existing are not guaranteed. Before beginning sitework, investigate and verify the existence and location of

01 74 19 - CLEANING AND CONSTRUCTION WASTE MANAGEMENT

1. Daily Cleaning: Provide cleaning of project site daily; coordinate cleaning procedures with all trade contractors and subcontractors. Remove construction waste daily, do not allow waste materials to accumulate. Maintain Project site is a clean, safe, and orderly condition throughout.

2. Construction Waste Management: Recycling of construction waste is a requirement of the Maryland Stadium Authority's Sustainability's Policies and shall be the Contractor's responsibility to comply. Construction waste, including but not limited to, demolished materials, packaging, and cut-offs of new materials shall be recycled.

3. Recycle materials lawfully at facilities where construction waste is routinely handled and recycled. Contractor shall submit name of proposed recycling facility for approval by Owner. 4. Contractor shall maintain tickets received from off-site recycling and waste centers and shall submit a complete set of disposal tickets as record for quantities recycled and disposed. 5. For materials not permitted to be recycled, dispose of such materials at licensed off-site facilities in a lawful manner and maintain refuse ticket records same as for recycled materials.

installed, including adjacent existing to remain assemblies, to the extent approved by Owner. 7. Employ experienced workers or professional cleaners for final cleaning. Clean each surface or unit to conditions expected of commercial cleaning and maintenance programs. Comply with manufacturer's written instructions for cleaning of specific materials and assemblies. Leave Project clean and ready for occupancy.

6. Following completion of construction operations and removal of temporary protections, Contractor shall provide final cleaning services for all areas of work and of all materials

01 77 00 - CLOSEOUT PROCEDURES:

1. Contractor shall submit the following items five (5) days prior to requesting final inspection for determining date of Substantial Completion:

 Certificates of Release. b. All submittals required by these specifications.

Testing/Balancing Reports (when work is required). d. Documents necessary for Owner's occupancy, use, operation, and maintenance.

e. Documents required by Engineering specifications

2. Contractor shall perform the following operations five (5) days prior to requesting final inspection for determining date of Substantial Completion: a. Make final changeover of permanent locks and deliver keys to Owner.

b. Complete start up and testing of systems and equipment.

Terminate and remove temporary facilities from the project site.

Complete final cleaning, including touch-up painting. e. Touch-up and otherwise repair and restore marred exposed finishes to eliminate visual defects.

3. Coordinate with Owner and Architect to schedule an inspection to determine Substantial Completion. Contractor shall prepare an initial "Completions and Corrections" list of known items to be completed and corrected. Architect will add to this list following onsite review noting additional items to be corrected by the contractor. Architect/Owner will prepare the Certificate of Substantial Completion after inspection.

4. Before requesting final inspection for determining final completion, Contractor shall complete the following: a. Repair or remove and replace defective construction identified during previous inspections. Repairing includes replacing defective parts, refinishing damaged surfaces, touching up with matching materials, and properly adjusting operating equipment. Where damaged or worn items cannot be repaired or restored, provide replacements.

Remove and replace operating components that cannot be repaired. Restore damaged construction and permanent facilities used during construction to specified conditions.

b. Provide final cleaning of areas affected by repair work required. Submit a final Application for Payment.

Certified "Completions and Corrections" list, endorsed and dated by the Owner and Architect. e. Certificate of Insurance.

Instruct Owner's personnel in operation, adjustment, and maintenance of products, equipment, and systems. 5. Repair or remove and replace defective construction. Repairing includes replacing defective parts, refinishing damaged surfaces, touching up with matching materials, and properly adjusting operating equipment. Where damaged or worn items cannot be repaired or restored, provide replacements. Remove and replace operating components that cannot be repaired. Restore damaged construction and permanent facilities used during construction to specified condition.

01 78 23 - OPERATION & MAINTENANCE DATA:

Contractor shall submit an Operations and Maintenance manual prior to requesting inspection for substantial completion.

2. Manual shall contain all emergency, operation, and maintenance data and materials for all products and systems in the project.

3. Manual shall be organized with separate sections for each system and subsystem: Title page

b. Table of contents Products, systems, sub-systems, fixtures, and equipment detailed descriptions.

d. Wiring, control, and systems diagrams, as applicable.

e. Operation and Maintenance Procedures. f. Warranties

4. Submit initial manual in digital (PDF) format, fully book-marked for Architect and Owner review.

5. After approval, and only if required by Owner, submit hard-copies, in number requested by Owner, in heavy-duty, three-ring, vinyl covered, loose leaf binders with clear plastic sleeves on cover and spine. Identify each binder with project information on cover and spine. Provide heavy paper binders with tabs for each section, and protective plastic sleeves for electronic equipment and drawings included in the manual.

02 41 19 - SELECTIVE DEMOLITION, INCLUDING CUTTING & PATCHING AND DISASSEMBLY & REASSEMBLY

a. Remove: Remove and, if not being salvaged, legally recycle or dispose of items offsite, except those items indicated to be reinstalled.

d. Existing to Remain: Protect construction indicated to remain against damage and soiling during selective demolition.

b. Salvage: Remove item and salvage for reinstallation, as for "Remove and Reinstall". Remove and Reinstall: Remove items indicated; clean, service, and otherwise prepare for reuse; store and protect against damage. Reinstall items in the same locations or in

2. Disposal shall comply with Construction Waste Management as described in other paragraphs. Promptly remove demolished materials from site. Do not allow demolished materials to accumulate on-site. 3. Refer to "Temporary Facilities, Protections and Controls" for temporary enclosures and other suitable methods to limit the spread of dust, dirt, and debris, as appropriate for each

condition. Comply with governing environmental protection regulations. 4. Selective Demolition: Includes careful removal of only those materials necessary to perform the work of these documents, such as removing existing decommissioned systems, removal of damaged materials to permit restoration and to permit the installation of new systems specified. Restoration of assemblies shall be either by new materials matching existing or the reinstallation of salvaged components, as noted on the drawings and as applicable to the particular work-piece.

5. Cutting and Patching: Cutting and removal of existing items shall be executed in a a neat, professional, and workman-like manner. Provide necessary tools and equipment, and layout of systems to provide neat, clean, cuts and which minimize disturbance to adjacent building components. Use methods required to complete Work within limitations of governing a. 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. To

minimize disturbance of adjacent surfaces, use hand or small power tools designed for sawing or grinding, not hammering and chopping. Temporarily cover openings to remain, including openings to HVAC devices and ductwork. b. DO NOT USE cutting torches or any other open flame equipment. Hot Work shall be completed by special permission only from the Owner and under strict supervision and fire

Do not cut and patch construction in a manner that results in visual evidence of cutting and patching. Do not cut and patch exposed construction in a manner that would, in Architect's

c. Remove decayed, vermin-infested, or otherwise dangerous or unsuitable materials and promptly dispose of off-site. d. For overhead or high-elevation work indicated to be removed, including structural and nonstructural items, carefully cut away items from supporting structure using methods permitted and lower to the floor or ground using methods to avoid free-fall and to prevent ground impact or dust generation.

 Return elements of construction and surfaces to remain to condition existing before start of operations f. Promptly patch and repair damaged surfaces caused to adjacent construction by selective demolition operations.

Use repair materials identical to existing materials, except where specification for repair or replacement materials differ in these documents. Do Not use tools and equipment that impose vibration and impact on the existing building structure or finish materials and elements.

opinion, reduce the building's aesthetic qualities. Remove and replace construction that has been cut and patched in a visually unsatisfactory manner to produce acceptable results.

05 53 16 - METAL FABRICATIONS

1. REFER TO STRUCTURAL DRAWINGS FOR PLATFORM FRAMING SPECIFICATIONS.

9. Demolish and remove existing construction only to the extent required by new construction and as indicated.

05 53 13 - BAR GRATINGS

Section includes metal bar gratings to create BOTH horizontal and vertical platform surfaces. Refer to structural drawings for framing members supporting bar gratings.

a. Product data for bar grating products and accessories such as clips, other anchorage devices, and any finish information.

Shop drawings that include plans, sections, details, and attachment to adjacent construction. Shop drawings shall reflect field-verified measurements and include details for all

anchorage types to adjacent materials.

Field verity actual locations of framing, concrete concourse, and other construction contiguous with gratings prior to fabrication.

Basis of Design: McNichols Swage-Locked, T-Bar, ADA-Compliant Bar Grating; Model TB-940-150

Material: Aluminum 6063 Depth: 1 1/2"

12 | 13

Bearing Bar Flange Width: 0.94"

Traffic Surface: Grooved

Bearing Bar Spacing: 1 3/16" (0.2475" gap between bars)

Panel Size: Factory Cut to Fit from stock size.

e. Cross Bar Spacing: 4" Open Area: 21%

i.Finish: Mill Finish Products from other manufacturers shall be considered if sufficient evidence is provided to evaluate equivalency to basis of design product specified above.

Performance Requirements: Refer to structural drawings for loading requirements. Aluminum Requirements: Provide allow recommended by the manufacturer for type of use indicated.

Extruded Bars and Shapes: ASTM B 221; 6061-T6 or 6063-T6

7. Fasteners: Unless otherwise indicated, provide Type 304 stainless steel fasteners for exterior use and fastening aluminum complying with ASTM B 633 or ASTM F 1941 b. Stainless-Steel Bolts and Nuts: Regular hexagon-head annealed stainless-steel bolts, nuts, and where indicated, flat washers; ASTM F 593 for boths and ASTM F 594 for

nuts, Alloy Group 1. c. Post-Installed Anchors: Torque-controlled expansion or chemical anchors capable of sustaining, without failure, a load equal to six times the load imposed when installed in unit

masonry and four times the load imposed when installed in concrete, as determined by testing according to ASTM E 488/E 488M, conducted by a qualified independent testing agency. Alloy Group 1 stainless-steel bolts, ASTM F 593, and nuts, ASTM F 594 d. Accessory Clips: Provide clips to securly fasten bar gratings to supporting structure in quantity and spacing recommended by the manufacturer. Basis of Design: McNichorsl

Type TB-50 Insert.

a. Fabrication grating section in shop to greatest extent possible to minimize field splicing and assembly. Factory-cut pieces to fit conditions from standard panel size. Use connections that maintain structural value of joined pieces. Clearly mark units for reassembly if disassembled for shipping and for coordinated installation. b. Cut, drill, and punch material cleanly and accurately. Remove burrs and ease edges to a radius of approximately 1/32 inch. Remove sharp or rough areas on exposed

surfaces.

Form materials from materials indicated to support indicated loads. d. Fit exposed connections accurately together to form hairline joints.

Provide for anchorage of type indicated; coordinate with supporting structure. Provide and space anchoring devices to secure gratings, frames, and supports rigidly in place and to support indicated loads.

f. Removable Grating Sections: Fabricate with banding bars attached by welding to entire perimeter of each section. Include anchors and fasteners of type indicated or, if not indicated, as recommended by manufacturer for attaching to supports. Provide no fewer than four flange blocks for each section of aluminum I-bar grating, with block designed to fit over lower flange of I-shaped bearing bars. Provide means for securing grating to supports.

Threshold: Provide ADA compliant, solid aluminum threshold to span gap between existing concrete concourse and bar grating. Basis of Design: Pemko 2715.

10. Aluminum Finish: Standard Mill Finish Installation:

Cut, drill, and fit gratings as required for installation. Set units accurately in location, alignment, and elevation, free from rack to form hairline joints.

Product data for stock material used in railings including wire mesh

Coat concealed surfaces of aluminum that will come into contact with grout, concrete, masonry, wood, or dissimilar metal with silicone sheeting or shims, or bituminous paint. Attach removable sections to supporting members with type and size of clips and fasteners recommended by grating manufacturer.

Clean grating after installation and protect grating from subsequent construction work as necessary until substantial completion. Repair or replace materials that become damaged prior to substantial completion or that do not install properly.

05 73 00 - DECORATIVE METAL RAILINGS

1. Section includes Steel decorative railing with wire mesh infill to be mounted to new platform framing. Refer to structural drawings for framing members supporting railings.

Shop drawings that include plans, sections, details, and attachment to adjacent construction. Shop drawings shall reflect field-verified measurements and include details for all anchorage types to adjacent materials.

with performance requirements and design criteria listed on the structural drawings. d. Welding Certificates Welding Qualifications: Procedures and personnel shall be qualified to meeting AWS D1.1 "Structural Welding Code - Steel"

Mockups: Build mockup to demonstrate configuration and finish of railing and verify fabrication matches quality of existing adjacent railings that consists of one section of railing on first

c. Delegated-Design Submittal: Provide analysis data signed and sealed by a Maryland-licensed professional engineer responsible for their preparation indicating compliance

completed platform. Approved mockup may be come part of the completed work after approval of the Architect and Owner. Field verity actual locations of framing, concrete concourse, and other construction contiguous with gratings prior to fabrication. 6. Performance Requirements: Engage a qualified professional engineer to design railings, including attachment to platform construction. Refer to structural drawings for structural

performance requirements. a. Allow for thermal movements from ambient and surface temperature changes acting on exterior railings by preventing detrimental effects such as buckling, stress, joint failure

and opening for differential temperature changes of 120 deg F (ambient) and 180 deg F (material).

Materials: Provide materials with smooth surfaces, without fabrication marks, manufacturer marks, stains, or blemishes. Provide formed- or cast-metal brackets with pre-dilled holes for exposed bolt anchorage.

Steel Bars: Hot-rolled, carbon steel complying with ASTM A 29, Grade 1010

d. Form work true to line and level with accurate angles and surfaces.

Steel Plates, shapes, and bars: Comply with ASTM A 36 Woven-Wire Mesh: Intermediate-crimp, square patter, 2-inch woven wire mesh made from 0.160-inch (8 gauge) nominal diameter wire complying with ASTM A 510

Fasteners: Unless otherwise indicated provide Type304 stainless steel fasteners. Select fasteners of type, grade, and class required to produce connections suitable for anchoring railings to other types of construction indicated and capable of withstanding design loads. 9. Shop Primers: Provide primers that comply with Section 099113 "Exterior Painting"

Fabricate railings to comply with requirements indicated for design, dimensions, member sizes and spacing, details, finish, and anchorage, but not less than that required to b. Assemble railings in the shop to greatest extent possible to minimize field splicing and assembly. Disassemble units only as necessary for shipping and handling limitations.

Fabricate connections that will be exposed to weather in a manner to exclude water. Provide weep holes where water may accumulate. Locate weep holes in inconspicuous

Clearly mark units for reassembly and coordinated installation. Use connections that maintain structural value of joined pieces. c. Cut, drill, and punch metals cleanly and accurately. Remove burrs and ease edges to a radius of approximately 1/32 inch (1 mm) unless otherwise indicated. Remove sharp or rough areas on exposed surfaces.

Fabricate railings with welded connections unless otherwise indicated. Welded Connections: Cope components at connections to provide close fit, or use fittings designed for this purpose. Weld all around at connections, including at fittings.

 Obtain fusion without undercut or overlap and remove flux immediately. •At exposed connections, finish exposed welds to comply with NOMMA's "Voluntary Joint Finish Standards" for Type 1 welds; no evidence of a welded joint. h. Provide brackets, flanges, miscellaneous fittings and anchors to interconnect railing members to other work. Provide anchorage devices capable withstanding loads imposed

by railings and coordinated with supporting structure. i.Fabricate infill panels from woven-wire steel mesh crimped into 1-inch by 1/2-inch by 1/8-inch steel channel frames. Orient wire mesh perpendicular and parallel to top rail. a. Hot-dip galvanize exterior steel railings after fabrication. Do NOT quench or apply post-galvanizing treatments that might interfere with paint adhesion. Fill vent and rail noles

that are exposed in the finished Work, unless intended to main as weep holes, by plugging with zinc solder and filing off smooth. Galvanize fittings, brackets, fasteners, sleeves and other ferrous components.

After galvanizing, thoroughly clean railings to remove all foreign matter with an etching cleaner.

•Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.

Apply shop primer to prepared railings per SSPC-PA 1 with primer as specified in Section 099113 "Exterior Paining" Apply top coats in the shop or field with paint as specified in Section 099113 "Exterior Painting"

e. Color: Match existing railings painted black adjacent to the platforms.

a. Fit exposed connections together to form tight, hairline joints. Cut, drill, and fit railings accurately in location, alignment, and elevation. Adjust railings before anchoring to Set posts plumb within a tolerance of 1/16 inch in 3 feet. Align rails so that variations from level for horizontal members do not exceed 1/4 inch in 12 feet.

Prevent galvanic reaction and other forms of corrosion by insulating metal and other materials from direct contact with incompatible materials. Fasten railings using appropriate anchorage devices and fasteners to sure railings and properly transfer loads to supporting construction. e. Use fully welded joints for permanently connecting railing components. Comply with requirements for welded connections in "Fabrication" Article whether welding is performed

in the shop or in the field. Install expansion joints at locations indicated but not farther apart than required to accommodate thermal movement.

Anchor posts to metal surfaces by welded flanges and bolt to metal-supporting surfaces. Immediately after erection, clean field welds, bolted connections, and abraded areas of shop paint, and paint exposed areas with the same material used for shop painting to comply with SSPC-PA 1 for touching up shop-painted surfaces. Apply by brush or spray to provide a minimum 2.0-mil (0.05-mm) dry film thickness. i.Protect finishes of railings from damage during construction period with temporary protective coverings as required. Remove protective coverings at time of Substantial Completion. Restore finishes damaged during installation and construction period so no evidence remains of correction work. Return items that cannot be refinished in the field to the shop; make required alterations and refinish entire unit, or provide new units.

REFER TO AS.2 FOR ADDITIONAL SPECIFICATIONS

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NO REVISION / SUBMISSION DATE 50% CONSTRUCTION DOCS 11/01/2019 11/20/2019 95% CONSTRUCTION DOCS 100% CONSTRUCTION DOCS 11/26/2019

MU MACHOWSKI + PATTERSON ARCHITECTS, IN ATHEDRAL STREET, BALTIMORE, MD 21 10-685-3582 WWW.SMP-ARCHITECTS.CG CONSULTANTS

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MSA ORIOLE PARK AT CAMDEN YARDS LOWER SEATING BOWL MODIFICATIONS 333 WEST CAMDEN STREET | BALTIMORE, MD 21201 RTIFICATION

AWING TITLE ARCHITECTURAL SPECIFICATIONS

and that I am a duly licensed

architect under the laws of

the State of Maryland

Name: Walter Schamu

Expiration: May 2, 2020

AS NOTED

ZSS/REM EVIEWED 11/26/201

PROJECT #

2 3 4 5 6 7 8 9 10 11 12 | 13 | 14 | 15 ARCHITECTURAL SPECIFICATIONS CONTINUED 09 91 13 - EXTERIOR PAINTING Section includes surface preparation and the application of new paint systems on the steel railings and patching of existing deck coating on the concrete seating bowl. a. Product data: Fore each type of product including preparation requirements and application instructions, including VOC content. Maintenance Materials: Furnish extra materials of products installed; sealed in original containers and labeled for application location. Furnish 5 percent, but not less than 1 gallon of each material and color applied. 3. Select a single manufacturer to provide all materials required by this section, using additional manufacturers to provide systems not offered by the selected principal manufacturer. For each finish system, provide primer and other undercoat paint produced by the same manufacturer as finish coat. 4. Engage a firm with a minimum of 5-years of successful experience in painting work similar in scope to the work of this project. Maintain through out the duration of the work a crew of painters who are fully qualified to to perform the work of this project. Deliver materials to the project site in original, new, unopened containers bearing the product information. Store materials in well ventilated areas in ambient conditions recommended by the manufacturer, but not less than 45 deg F. Maintain storage in clean condition and remove rags and waste from storage areas daily. Field Conditions: a. Apply paints in temperatures recommended by the manufacturer. b. Do not apply paints during precipitation or mist, when relative humidity exceeds 86 percent, at temperatures less than 5 deg F above the dew point, or to damp or wet surfaces. c. Provide lighting levels of at least 80 footcandles measured mid-height at substrate surface. d. Provide continuous ventilation to prevent accumulation of fumes and to maintain surface and ambient temperatures recommended by the manufacturer for 24 hours before, during, and 48 hours after application of finishes. 7. Coordination: a. Sequence painting with other work to avoid damage to painted surfaces. b. Provide finish coats and primers that are deemed compatible in writing by the manufacturer. Provide primers deemed suitable in writing by the manufacturer for each c. Provide barrier coats over incompatible primers or remove and reprime substrates as required. d. Notify the Architect of any anticipated problems using specified coating systems with substrates. 8. Manufacturers: Products from the following manufacturers, provided they comply with the requirements of the contract documents will be considered acceptable: a. Sherwin Williams Company b. International Protective Coatings division of AkzoNobel N.V. 9. Inspection: Examine and verify that surfaces and conditions are ready for work per the product manufacturer's requirements. Do not proceed with work until unsatisfactory conditions 10. Preparation: Prepare and clean existing and new substrates in accordance with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual" and "MPI Maintenance Repainting Manual" applicable to substrates and paint systems indicated. Adhesion to surfaces must meet manufacturer's standards. Clean substrates of substances that could impair bonding of paint. a. 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 SSPC-SP3. b. Shop Primed Steel Substrates: Clean field welds, bolted connections, and areas wher shop paint is abraded. Paint exposed areas with the same material as used for shop primer to comply with SSPC -AP 1 for touching up shop-primed surfaces. c. 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. d. Concrete Substrates: Remove release agents, curing compounds, efflouresence, and chalk. Do no paint surfaces if moisture content or alkalinity of surfaces exceeds limitations in manufacturer's written instructions. 11. Application: Mix and prepare materials in accordance with manufacturer's directions. Stir materials before and during application without incorporating film into the material, straining if required to remove film or other foreign materials. a. Use applicators and techniques suited for paint and substrate indicated. Spraying of paint in the field will not be allow without the permission of the Architect. b. Surface imperfections will not be acceptable. Dust particles in the finish coat detectable to the touch and excessive will be be rejected. Apply additional coats of paint until the film is of uniform finish, color, and appearance. Ensure all surfaces receive a dry film thickness equivalent to those of flat surfaces. d. Sand lightly between each succeeding enamel or varnish coat. e. Omit first coat (primer) on metal surfaces which have been shop-primed and touch-up painted, unless otherwise indicated. 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 12. Remove rubbish, empty containers, rags and other discarded materials from the project site daily. Protect adjacent surfaces from damage during painting application. Clean adjacent spattered surfaces without damage. After completion of construction activities of other trades, touch up and restore damaged painted surfaces. 13. Painting Schedule: a. Raw Steel Substrates (Railing): High-Solids Epoxy/Polyurethane System (High Performance Coating): • Prime Coat: High Solids Epoxy Polyamide Mastic - BASIS OF DESIGN: Sherwin Williams Protective & Marine Coatings Macropoxy HS (B58W00401) Intermediate Coat: High Solids Apliphatic Polyurethane, matching Top Coat • Topcoat: High Solids Aliphatic Polyurethane, Semi-Gloss (MPI Gloss Level 5) - BASIS OF DESIGN: Sherwin Williams Protective & Marine Coatings Hi-Solids Polyurethane 250 (B65WJ0351) b. Concrete Substrates (Traffic Coating): Epoxy or Urethane System to match existing adjacent system. • Epoxy System Consisting of Primer, Base Coat, Intermediate Coat, and Top Coat - BASIS OF DESIGN: LymTal International, Inc. Iso-Flex 760 Low Odor System • Urethane System Consisting of Base Coat, Intermediate Coat, and Top Coat - BASIS OF DESIGN: LymTal International, Inc. Iso-Flex Epoxy 200 System 14. Paint Colors: Railings: Provide (1) color matching black of existing railings in the Stadium b. Traffic Coatings: Provide (2) colors matching existing coatings in the Stadium. 12 63 13 - STADIUM SEATING 1. Section includes loose companion seats to be provided for placement on platforms by the Owner. a. Product data for each chair type b. Sample warranty NO REVISION / SUBMISSION DATE c. Maintenance data Warranty: Provide products with a manufacturer warranty for repair or replacment of components of seating that fail in materials or workmanship within a period of twelve (12) years 50% CONSTRUCTION DOCS 11/01/2019 Performance: Chair shall withstand the effects of gravity and be rated for a 1,000 lb. load Companion Chair: 11/20/2019 95% CONSTRUCTION DOCS a. Basis of Design is the MityLite OneSeries PRO by Mity, Inc. b. Frame: 18-gauge, oval, powder-coated steel tubing 100% CONSTRUCTION DOCS 11/26/2019 c. Seat and Backrest Material: Molded, breathable polypropylene w/ integral UV inhibitors d. Size: 33-inches high, 20-inches wide, 18-inches deep e. Folding Mechanism: Four-bar type linkage with 14-gauge links & 5/16 dia. rivets f. Glides: Color matching polypropylene g. Weight: 11 lbs. h. Finish: Forest Green HAMU MACHOWSKI + PATTERSON ARCHITECTS, INC CATHEDRAL STREET, BALTIMORE, MD 212 410-685-3582 WWW.SMP-ARCHITECTS.CO CONSULTANTS STRUCTURAL ENGINEERING CARROLL ENGINEERING, INC. 215 SCHILLING CIRCLE, SUITE 102 HUNT VALLEY, MARYLAND 21031 TEL 410-785-7423 MSA ORIOLE PARK AT CAMDEN YARDS LOWER SEATING BOWL MODIFICATIONS 333 WEST CAMDEN STREET | BALTIMORE, MD 21201 ERTIFICATION and that I am a duly licensed architect under the laws of the State of Maryland. License: 3715-R Expiration: May 2, 2020 RAWING TITLE ARCHITECTURAL SPECIFICATIONS ZSS/REM

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