**WAYNE STATE UNIVERSITY**

**STADIUM STRUCTURAL REPAIRS**

**WSU PROJECT NUMBER 079-349226**

**DETROIT, MICHIGAN**

**JANUARY 26, 2022**

**ISSUED FOR BID**

Prepared by:

**SMITHGROUP**

5640 CASS AVE
DEtroIT, MI 48040

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**BASE BID**

The Base Bid of the Project consists of the removal of precast concrete stadia and associated intermediate concrete steps. Existing precast stadia adjacent to the existing pressbox to remain. See plan view for limits of existing concrete stadia to remain. Existing intermediate steps and handrails to remain that are connected to the existing precast concrete (remaining). Remaining handrails, guardrails, chain link fencing along the edges of the stadia to be removed. Replaced handrails and guardrails to be SCH 40 posts and pipe.

The vestibule ramps, vestibule railings and guardrails, field side fencing, north/south concrete walk at base of stadia and concrete ramps adjacent to the north and south ends of the stadium to remain.

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**ALTERNATE 1**

Sand, finish and paint remaining existing handrails and guardrails at vestibule areas and vestibule ramp areas.

(This alternate applies to the base bid scope only)

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**ALTERNATE 2**

In lieu of SCH 40 posts and pipe for handrails and guardrails, replace with aluminum handrails and guardrails.

(This alternate applies to the base bid scope only)

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**ALTERNATE 3**

Bid Alternate - Repair Option: This Alternate replaces base bid concrete stadia work. Alternate to keep all existing precast concrete stadia in place and repair near precast concrete joints. The scope of work to repair under the pressbox is still included.
GENERAL NOTES

1. PROVIDE A COPY OF PROJECT BLUEPRINTS TO EACH CONTRACTOR TO REVIEW. PREPARE A PROJECT WORK PLAN TO THE ARCHITECT FOR REVIEW AND COMMENT. PREPARE THE WORK PLAN AT THE CONTRACTOR’S COMMENCING MEETING. COORDINATION PRIOR TO THE PRE-CONSTRUCTION MEETING AND WRITTEN AUTHORIZATION TO PROCEED IS ISSUED BY THE OWNER.

2. NOTIFY THE ARCHITECT IN WRITING OF ANY IDENTIFIED ERRORS IN PROPER CONSTRUCTION DOCUMENTS PRIOR TO THE COMMENCEMENT OF WORK. VERIFY PERFORMANCE OF THE PROJECT WORK PLAN AND COORDINATE ANY ERRORS OR ADJUSTMENTS WITH THE CONTRACTOR. ARCHITECT’S WRITTEN AUTHORIZATION TO PROCEED IS ISSUED BY THE OWNER.

3. FURNISH ALL NECESSARY PROCUREMENT MATERIALS TO PROTECT THE PUBLIC AND RELATED PROPERTY FROM DAMAGE (INCLUDING CONSTRUCTION WASTE). INSTALLATION SHOULD BE PERFORMED TO THE SATISFACTION OF THE ARCHITECT.

4. NOTIFY THE ARCHITECT IN WRITING OF THE QUALITY OF INCOMING MATERIALS, AND WITNESS THE INSTALLATION OF SUCH MATERIALS. ARCHITECT’S WRITTEN AUTHORIZATION IS ISSUED BY THE OWNER.

5. PROVIDE WRITTEN PERMISSION TO ACCESS THE SITE WHERE THE CONSTRUCTION DOCUMENTS ARE PRESENTED.

6. DRAWING NUMBER

PROJECT NUMBER

SEE DETAILS

SCALE

20' 0'

DRAWING TITLE

PROJECT NORTH

01/26/2022

02/7/2022

ADDENDUM 1

REV

ISSUED FOR

www.smithgroup.com

734.662.4457

CONTRACTOR TO FOLLOW MICHIGAN BUILDING CODE (MBC) ASSEMBLY GROUP A-5, NFPA 101 LIFE SAFETY CODE 13.

SECOND FLOOR

201 DEPOT STREET

ARE

REMAIN.

DESIGNATED

GUARDRAILS

HANDRAILS,

PROTECT

TO

CONTRACTOR

11.

COMPLETIONS OF ALL WORK.

ENSURE

TO

CONTRACTORS

OTHER

ALL

AND

COORDINATE

10.

ALL CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES.

9.

REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS NOT SHOWN ON DRAWINGS.

7.

DETROIT, MI

PLANS,

FROM

DIMENSIONS

NOT

DO

BLEACHERS.

AND

FENCING

RAILINGS,

OF

INSTALLATION

DIMENSIONS

VERIFY

FIELD

THE

OF

LAYOUT

FOR

DRAWINGS

SHOWN

DIMENSIONS

6.

42 WEST WARREN AVE

ESTABLISH AND MAINTAIN SITE SECURITY UNTIL PROJECT ACCEPTANCE.

5.

REPAIRS

TO

PROJECT.

CONSTRUCTION

THE

SITE

ON

UTILITIES

WITH

COMPANIES

UTILITY

4.

THROUGHOUT CONSTRUCTION, INCLUDING DAMAGES TO UTILITIES, WALKS, WALLS, DRIVES, CURBS, ETC.

3.

CONTRACTOR TO SALVAGE EXISTING BLEACHER TO CONCRETE STADIA CONNECTIONS. CONTRACTOR TO REMOVE THE

11.

CONTRACTOR TO REUSE THE BLEACHER

STRUCTURAL

DAMAGE

FROM

PROPERTIES

AND

PUBLIC

THE

PROTECT

Necessary

TAKE

3.

BLEACHER CONNECTION FROM THE EXITING CONCRETE PRECAST STADIA. CONTRACTOR TO REUSE THE BLEACHER

DOCUMENTS.

11.

LIMITS TO REMAIN ADJACENT TO THE PRESSBOX - TO REMAIN. THE EXISTING HANDRAILS TO BE REFURBISHED TO MATCH

4.

LIMITS OF THE EXISTING PRE-CAST CONCRETE

EXISTING HAND RAILS AND CAST-IN-PLACE STEPS WHICH ARE WITHIN THE LIMITS OF THE EXISTING PRE-CAST CONCRETE

5.

FOR DETAILS

RAIL

AND

RAILING

AND

STEPS

OF

PAINTING

FOR

BLEACHER,

PRE-CAST

STADIA,

PROTECT,

CONTRACTOR

3.

ASSIGN WORK PER CODE TO BE IN ACCORDANCE WITH THE CITY OF WAYNE BUILDING CODE 2020. BEING

THE WARSAW STRUCTURE WILL NEED TO BE ADJUSTED TO コMPLIMENT THE INCREASED SIZE WITHIN

CONSTRUCTION OF A SUITABLE TRASH ENCLOSURE OR TRASH TOWER.

CONTRACTOR TO ASSEMBLE HANDRAILS AND CAST-IN-PLACE STEPS WHICH ARE WITHIN THE LIMITS OF THE EXISTING PRE-CAST CONCRETE STADIA. CONTRACTOR TO REMOVE THE EXISTING HANDRAILS TO MATCH \n

   BLEACHER & AISLES

   1. ASSEMBLY AND INSTALLATION TO BE IN ACCORDANCE WITH THE CITY OF WAYNE BUILDING CODE 2020. BEING

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   HANDRAILS & GUARDRAILS

   1. PROPOSED HANDRAILS AND GUARDRAILS TO MEET NEAR VERTICAL HANDRAIL POSTS, 6" MIN AWAY AND 12" MAX AWAY.

   2. PROVIDE HANDRAIL EXPANSION JOINTS WHERE APPLICABLE.

   3. GUARDRAILS & HANDRAILS TO BE INSTALL IN CONFORMITY WITH THE CITY OF WAYNE BUILDING CODE 2020.

   4. CONTRACTOR TO COORDINATE BLEACHER ANCHORING LOCATIONS ALONG WITH ALUMINUM BLEACHER LENGTHS.

   5. CONTRACTOR TO SALVAGE EXISTING BLEACHER TO CONCRETE STADIA CONNECTIONS. CONTRACTOR TO REMOVE THE

   6. CONTRACTOR TO REUSE THE BLEACHER

   STRUCTURAL

   DAMAGE

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   FOR DETAILS

   RAIL

   AND

   RAILING

   AND

   STEPS

   OF

   PAINTING

   FOR

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   PRE-CAST

   STADIA,

   PROTECT,

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   FROM

   PROPERTIES

   AND

   PUBLIC

   THE

   PROTECT

   Necessary

   TAKE

   3.
1. HAND RAIL REMOVAL:
   1.1. HANDRAILS ARE EITHER SURFACE MOUNTED OR CORED INTO THE INTERMEDIATE NON-PRE-CAST CONCRETE RISER.
   1.2. CONTRACTOR TO REMOVE NECESSARY CONNECTIONS FOR APPROPRIATE REMOVAL OF MATERIALS
   1.3. HANDRAILS TO REMAIN IN STEPS OVER SECTIONS OF UNDISTURBED PRECAST CONCRETE ADJACENT TO THE PRESSBOX

2. PERIMETER FENCE REMOVAL:
   2.1. PERIMETER FENCE IS SLOTTED INTO SLEEVE AND BOLTED DIRECTLY TO THE EXISTING PRE-CAST CONCRETE STRUCTURE
   2.2. CONTRACTOR TO REMOVE CHAIN LINK FENCE, SLEEVE AND ASSEMBLY SYSTEM.
   2.3. CONTRACTOR TO REMOVE NECESSARY CONNECTIONS FOR APPROPRIATE REMOVAL OF MATERIALS
   2.4. CONTRACTOR TO PROVIDE ALTERNATE PRICE TO SALVAGE AND REUSE EXISTING VERTICAL POSTS

3. GUARDRAIL REMOVAL:
   3.1. REMOVE COMPLETE SYSTEM AND ATTACHED HANDRAILS - AT VESTIBULE, LOCATE WHERE HANDRAIL TO BE CUT AND NEW HANDRAIL TO BE ATTACHED TO EXISTING HANDRAIL, SEE SPECS FOR REQUIREMENTS

EXISTING CONCRETE RAMP AND RAILINGS TO REMAIN
EXISTING CONCRETE WALKWAYS AND RAILINGS TO REMAIN
EXISTING STEPS AND RAILINGS TO REMAIN
EXISTING ACCESSIBLE VIEWING AREA, CONCRETE RAMP AND RAILINGS TO REMAIN
CONCRETE STEP, ADDED AS PART OF PRESSBOX RENOVATIONS, FIELD LOCATE PRECAST CONCRETE SECTION TO REMAIN. COORDINATE REMOVAL OF ADJACENT SECTIONS OF PRECAST CONCRETE.
EXISTING CONDITIONS B
EXISTING BLEACHER, FIELD VERIFY LENGTH 48.00' 3.00' 3.00'
EXISTING AISLE
EXISTING AISLE
NOTE
NORTH AND SOUTH AISLE WIDTHS TO REMAIN 36"
INTERIOR AISLES TO ADJUST TO 48"

MODIFIED CONDITIONS
MODIFIED BLEACHER, FIELD VERIFY LENGTH
NEW AISLE
NEW AISLE

NOTES:
1) CONTRACTOR TO REMOVE AND SALVAGE END CAPS, CUT 1 SIDE OF ALUMINUM BLEACHER AND REPLACE CAP.
2) MOUNTING BRACKET BENEATH THE ALUMINUM BLEACHER SHALL BE 6" FROM THE END OF THE BLEACHER (SEE STRUCTURAL DETAILS 5/SC-501). THIS DISTANCE ALLOWS FOR CLEARANCE FOR THE END CAP.
3) CONTACT ROGER CRONKRIGHT AT SOUTHERN BLEACHER FOR ANY INSTALLATION QUESTIONS/COORDINATION: RESSCO@AOL.COM 269.870.5570

NEW CAST IN PLACE CONCRETE STAIR 48"/36", SEE STRUCTURAL DETAILS
FENCE
RAILINGS / GUARDRAILS
HANDRAILS
GUARDRAILS AND HANDRAILS

SITE LAYOUT PLAN
PROJECT NORTH
0' 20'
10'
5'
SCALE: 1"=10'

CS100
NOT FOR CONSTRUCTION
PRECAST CONCRETE LAYOUT - REPAIR (ALTERNATE 3)

1. VERIFY IN-FIELD ALL EXISTING DIMENSIONS AND ELEVATIONS.
2. REFER TO ARCH. DWGs FOR ADDITIONAL INFORMATION. COORDINATE ALL WORKS WITH ARCH DRAWINGS AND SPECIFICATIONS.
3. REFER TO APPENDIX "A" FOR STADIUM STRUCTURAL STUDY BY TEC.
4. DESIGNATION
   - S: SLIP CONNECTION
   - F: FIXED CONNECTION
5. REFERENCE DRAWINGS:
   - SC-001 GENERAL STRUCTURAL NOTES
   - SC-002 SPECIAL INSPECTION SCHEDULES
   - SC-500.A PRECAST CONCRETE DETAILS
   - SC-501.A PRECAST CONCRETE DETAILS

SUGGESTED REPAIR PROCEDURE
1. REVIEW REPAIR DRAWINGS ALONG WITH EXISTING DRAWINGS.
2. REVIEW STADIUM STRUCTURAL STUDY BY TEC DATED JUNE 24, 2020. REFER TO APPENDIX A
3. VISIT THE SITE AND CONDUCT VISUAL INSPECTION TO IDENTIFY EXISTING FIELD CONDITIONS.
4. PREPARE REPAIR WORK PLAN.
5. DESIGN AND INSTALL TEMPORARY SHORING SYSTEM. REFER TO CONCEPTUAL TEMPORARY SHORING DETAILS ON SHEET SC-500.A.
6. REMOVE EXISTING PRECAST STADIUM PLATES AND RECEIVING BENT PLATES. CLEAN PACK RUST AND LOOSE CONCRETE.
7. INSTALL NEW BENT CORTON STEEL PLATE SEATS WITH MIN. 4" PROJECTION FROM EACH SIDE OF THE EXISTING RAKER STEEL BEAMS.
8. PREPARE AND SUBMIT CONCRETE REPAIR DETAILS WITH DETAILED REPAIR PROCEDURE FOR EACH EXISTING CONDITIONS PRIOR TO BEGINING THE REPAIR WORK.
9. CHIP AND REMOVE UNSOUND CONCRETE AND REPAIR.
10. REMOVE AND RELOCATE TEMPORARY SHORING AS REQUIRED TO PERFORM REPAIR AT THE NEXT AREA PER REPAIR WORK PLAN.