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PREVENTIVE MAINTENANCE OF THE NG GARAGES AND SURFACE LOTS

JIS, MISSOURI UST, 2022

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REPAIR DETAILS & NOTES

SE LOCATIONS

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MO 63108

GARAGE 53101

AGE *MO* 63102

*I*O 63103

JUSTICE CENTER PARKING GARAGE 1115 CLARK STREET, ST. LOUIS, MO 63102

CITY HALL PARKING LOT 1201 CLARK AVENUE, ST. LOUIS, MO 63103

WILLIAMS PARKING LOT 317 S 16TH STREET, ST. LOUIS, MO 63102

- local amendments.
- work.

- occur.

- drawings.

GENERAL NOTES

The following general notes shall apply unless noted otherwise on plans.

1. All design and construction shall be in accordance with 2018 International Building Code and City of St. Louis

2. Do not scale dimensions from drawings.

3. Contractor is responsible to verify all dimension shown on plans with existing conditions prior to commencing

Contractor shall report immediately to the Engineer any discrepancies or incorrect information with drawings based on existing conditions. After reporting the discrepancies verbally, a written report should then follow. Contractor shall be directed by the Engineer regarding the above matter.

5. The Contractor shall provide methods and equipment for protecting the building, all materials, and personnel from fire damage prior to starting work. Methods and equipment are subject to approval by the local Fire Department. The Contractor shall submit the methods and equipment in writing and obtain the Owner and Engineer's approval prior to starting work. Fire protection and prevention during the construction period shall be in accordance with all laws and regulations including, but not limited to, the latest N.F.P.A. Regulations, OSHA, State of Missouri, and local requirements.

6. The Contractor shall comply with all safety and health laws and regulations including, but not limited to, provisions and requirements of the Occupational Safety and Health Act of 1970, as amended and/or the Construction Safety Act of 1969, as amended (whichever is applicable) and with all most recent applicable laws, ordinances, rules, regulations, and orders of any public authority having jurisdiction, and safety of persons or property or to protect them from damage, injury, or loss. He/She shall erect and maintain, as required by existing conditions and progress of the Work, all reasonable safeguards for safety and protection, including posting danger signs and other warning against hazards, promulgating safety regulations, and notifying the Owner and users of adjacent utilities. The Contractor shall employ and ascertain continuing presence on the job of a person competent in issues of safety in construction. This individual shall be recently trained or re-trained (within 12 months of the work commencement on this project) within an OSHA outreach training program and additionally certified in first aid by the American Red Cross.

7. The contractor shall provide all shoring, bracing, sheeting required for safety, and proper execution of work.

8. The Contractor shall not attempt to demolish any existing concrete slab of the garage prior to installation of proper shoring members approved by the Engineer. The Contractor shall not attempt to bring any vehicle or equipment into the parking facility prior to installation of proper shoring members approved by the Engineer, and of which the requirements are shown on Plans. Any vehicle and/or equipment to brought on the parking facility shall by approved by the Engineer. Contractor is solely responsible to prepare shop drawings for the shoring members and to submit them to the Engineer for approval.

When the plans include information pertaining to surface observation, material testing, and other preliminary investigations, such information represents only the opinion of the Engineer as to the location, character, or guality of the materials encountered and is only included for convenience of the bidder. The neither the Owner nor the Engineer assumes any responsibility whatever in respect to the sufficiency or accuracy of the information. Neither the Owner nor the Engineer guarantee, either expressed or implied, that the conditions indicated are representative of those existing throughout the work, or that unanticipated developments may not occur. The above information shall not be considered by the parties as a basis for the contract award amount.

10. Any extra work beyond the scheduled quantities requiring additional cost to the Owner shall be approved by the Owner prior to taking such action. Claims for extra work which have not been authorized in writing by the Owner and approved by the Engineer will be rejected and the Contractor shall not be entitled to payment. The Contractor shall promptly submit the proposal for extra work, in writing, as additional work is discovered.

11. The plans may be supplemented by standard and working drawings as are necessary to adequately describe the work. In the event, a change becomes necessary due to circumstances not known by the Engineer until after the bid documents were submitted to the Owner or arising thereafter, the Engineer may alter the plans, as may be necessary and increase or decrease the quantities of work to be performed in accordance with such changes. The Owner shall be informed with a copy of all submittals and correspondence as the changes may

12. Execution of the work will involve consideration for allowing the Owner to continue operations in the subject facility in the areas outside of the repair area and shoring area for each phase. Prior to the award of the contract, the construction schedule prepared by the Contractor shall be submitted to the Owner and coordinated with the facility management. Owner's approval of the proposed schedule shall precede the contract amount.

13. The Contractor shall review all existing conditions to identify all utilities affected by the repair work, if any. The contractor shall be solely responsible for maintaining the operation of existing services (utilities) to all areas of the subject facility or other areas (not in contract) affected by the work. The Contractor shall submit the methods and schedule of construction for the Owner's approval prior to the commencement of work.

14. As the work progresses, the Contractor shall produce "As-Built" drawings for the installation of all repair items under the contract. The Engineer will provide the general contractor with a set of reproducibles for this purpose. The Contractor is responsible to maintain the As-Built drawings updated according to the job progress. For each pay-request by the Contractor, the Owner and Engineer shall receive a copy of the updated As-Built

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WS - CONCRETE WALL SPALL REPAIR, SEE DETAIL 6/R-501

ADA RAMP: REMOVE AND STORE EXISTING HANDRAIL. REMOVE ALL EXISTING POST ANCHORS, INSTALL NEW ANCHORS, VERTICAL POSTS AND POUR NEW CONCRETE AROUND ANCHORS. WELD EXISTING HANDRAIL TO NEW VERTICAL POSTS ALL AROUND. GRIND RUST TO METAL, CLEAN, PRIME AND REPAINT HANDRAIL. INSTALL CAULK AROUND NEW VERTICAL POST ANCHORS. CLEAN RUST STAINING FROM CONCRETE, SEE DETAIL 8/R-503.

 NORTHEAST STAIR TOWER: CLEAN ALL RUST SPOTS TO BARE STEEL, CLEAN, PRIME AND REPAINT. REMOVE AND REPLACE ALL SEALANT AT POST BASES AND INSPECT STEEL CONDITION. REPLACE DAMAGED SECTIONS OF PIPE AT EMBEDMENT AS DIRECTED BY ENGINEER. SEE DETAILS 8&9/R-503 		Design Management
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LEGEND:

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LEGEND:

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CJ - REPLACE CONTROL JOINT, SEE DETAIL 6/R-502

GCP - REMOVE AND REPLACE EXISTING COVER PLATES AND GUTTER SYSTEM, SEE DETAILS 3&4/R-504

LEGEND: - RECOAT WATERPROOFING MEMBRANE, SEE DETAIL 4/R-502

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CONSTRUCTION NOTES

- CODES AND STANDARDS: ALL STRUCTURAL REPAIR WORK SHALL BE PERFORMED WITH PERTINENT PROVISIONS OF THE FOLLOWING CODES AND STANDARDS:
- ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" ACI 304R "GUIDE FOR MEASURING, MIXING, TRANSPORTING
- AND PLACING CONCRETE" ACI 305R "HOT WEATHER CONCRETING" C.
- ACI 306.1 "STANDARD SPECIFICATIONS FOR COLD WEATHER D. CONCRETING"
- ACI 309R "GUIDE FOR CONSOLIDATION OF CONCRETE" ACI 311.1R "ACI MANUAL OF CONCRETE INSPECTION"
- ACI 318-02 "BUILDING CODE REQUIREMENTS FOR
- STRUCTURAL CONCRETE" ACI 347 "GUIDE TO FORMWORK FOR CONCRETE"
- ACI 506.2 "SPECIFICATIONS OF SHOTCRETE"
- AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES"
- "MANUAL OF STEEL CONSTRUCTION" AISC "SPECIFICATIONS FOR STRUCTURAL JOINTS USING AISC
- ASTM A325 OR A490 BOLTS"
- "STRUCTURAL WELDING CODE STEEL" AWS ACI 562-16 "CODE REQUIREMENTS FOR EVALUATION, REPAIR,
- AND REHABILITATION OF CONCRETE BUILDINGS"
- 2. ALL DETAILS, SECTIONS AND NOTES SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE, UNLESS OTHERWISE SHOWN.
- 3. THE ENGINEER SHALL HAVE AUTHORITY TO REJECT WORK WHICH DOES NOT CONFORM TO THE CONTRACT DOCUMENTS. THE ENGINEER AND OWNER WILL HAVE AUTHORITY TO REQUIRE SPECIAL INSPECTION OR TESTING OF THE WORK. HOWEVER, NEITHER THE ENGINEER'S AUTHORITY TO ACT UNDER THIS SUBPARAGRAPH NOR ANY DECISION MADE BY HIM IN GOOD FAITH TO EXERCISE OR NOT TO EXERCISE SUCH AUTHORITY, SHALL GIVE RISE TO ANY DUTY OR RESPONSIBILITY OF THE ENGINEER TO THE CONTRACTOR, ANY SUBCONTRACTOR, ANY OF THEIR AGENTS OR EMPLOYEES, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK.
- 4. THE CONTRACTOR SHALL MAINTAIN, ON ONE COMPLETE SET OF DRAWINGS (WHITE PRINTS) AND SPECIFICATIONS FURNISHED BY THE OWNER AT THE CONTRACTORS EXPENSE, AN ACCURATE RECORD OF THE INSTALLATION OF ALL MATERIALS AND SYSTEMS COVERED BY THE CONTRACT. THE "AS-BUILT" RECORD SHALL INDICATE THE EXACT LOCATION AND AMOUNT OF ALL REPAIR WORK. THE COMPLETED SET OF "AS-BUILT" DRAWINGS MUST BE DELIVERED TO THE OWNER AND ENGINEER AS SOON AS THE PROJECT IS FINISHED.
- ANY EQUIPMENT GREATER THAN 6,000 LBS SHALL REQUIRE SPECIALIZED SHORING OF THE PARKING DECK. THE ENGINEER SHALL REVIEW AND APPROVE SHORING PRIOR TO STARTING WORK. ALL LOOSE CONCRETE ON THE UNDERSIDE OF THE PARKING DECK SHALL BE REMOVED PRIOR TO STARTING WORK. ALL NOISE AND DUST PRODUCING OPERATIONS ARE LIMITED TO THE OWNER'S SATISFACTION AND THE CITY OF ST. LOUIS CODE REQUIREMENTS.
- THE NEW CONCRETE SHALL BE PLACED, CONSOLIDATED AND FINISHED TO MATCH EXISTING FINISH FLOOR ELEVATIONS. THE REPAIR AREAS MAY BE OPENED TO GARAGE OPERATION AFTER THE NEW CONCRETE HAS ACHIEVED A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI. THE SHORING AND FALSEWORK SHALL BE LEFT IN-PLACE UNTIL THE NEW CONCRETE ACHIEVES AT LEAST 70% OF THE DESIGN COMPRESSIVE STRENGTH. THE CONTRACTOR SHALL COOPERATE WITH THE TESTING AGENCY REPRESENTATIVE DURING THE POURING TO INSPECT AND MAKE CYLINDERS OF NEW 9. CONCRETE DELIVERED TO THE SITE.
- CONCRETE TESTING WILL BE PERFORMED BY THE TESTING LABORATORY SELECTED BY THE OWNER IN ACCORDANCE WITH ACI 301 SUBSECTION 1.6. SEE THE SPECIFICATION FOR CONCRETE TEST REQUIREMENTS.

