WAYNE STATE UNIVERSITY
STUDENT CENTER BUILDING
LOADING DOCK LEAK REPAIRS

5221 GULLEN MALL  DETROIT, MI
WSU No. 034-282276

OWNER
WAYNE STATE UNIVERSITY
5454 CASS AVENUE
DETROIT, MICHIGAN 48202

STRUCTURAL ENGINEER
DESAI NASR CONSULTING ENGINEERS
6765 DALY ROAD
WEST BLOOMFIELD, MICHIGAN 48322

ARCHITECT
NEUMANN/SMITH ARCHITECTURE
400 GALLERIA OFFICENTRE, SUITE 555
SOUTHFIELD, MICHIGAN 48034

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POLICY

STAGING PLAN

DO NOT PLACE HOT-TANKS WITHIN 25 FEET OF ANY BUILDING.
1. **CONCRETE**

- **GENERAL NOTES:**
  - 1. CONCRETE STRUCTURAL FRAMING HAS BEEN DESIGNED BY THE ULTIMATE STRENGTH METHOD PER ACI 318.
  - 2. CEMENT SHALL CONFORM TO ASTM C150 "SPECIFICATION FOR PORTLAND CEMENT" TYPE I OR III.
  - 3. CONCRETE IS NOT PERMITTED.
  - 4. CLEAN EXISTING CONCRETE SURFACE TO SOLID STRUCTURAL CONCRETE. GRIND SMOOTH FOR SMOOTH FINISH.
  - 5. COVERING PLASTER OR OTHER FINISH MATERIALS ON EXISTING CONCRETE IS NOT PERMITTED.
  - 6. USE OF SOME CONCRETE INSTRUMENTS AND MACHINES IS NOT PERMITTED.
  - 7. CONCRETE SHALL BE PLACED AND FINISHED IN ACCORDANCE WITH ACI-318 AND CODE REQUIRED SPECIAL MORTAR MIXTURES.
  - 8. KEEP A RECORD OF ALL MORTAR MIXTURES USED AND SUBMITTED TO THE ARCHITECT.
  - 9. USE OF SOME CONCRETE PLACEMENT MACHINES AND EQUIPMENT IS NOT PERMITTED.
  - 10. CONTRACTOR MAY BE REQUIRED TO PROVIDE ADDITIONAL LABOR AND EQUIPMENT FOR SPECIAL CONCRETE PLACEMENT AND FINISHING.

2. **SHORING AND BRACING**

- **GENERAL PROVISIONS:**
  - 1. SHEAR WALLS CONSTRUCTED FROM CONCRETE MASONRY SHALL BE DESIGNED BY THE MODULI METHOD.
  - 2. SHEAR WALLS SHALL BE DESIGNED TO CARRY HORIZONTAL LOADS AND MOMENTS.
  - 3. SHEAR WALLS SHALL BE LOCATED AT THE CORNERS OF THE BUILDING.
  - 4. SHEAR WALLS SHALL BE CONNECTED TO THE FRAME AND Foundations.
  - 5. SHEAR WALLS SHALL BE DETAIL FOR LOADS AND MOMENTS.
  - 6. SHEAR WALLS SHALL BE DETAIL FOR VERTICAL LOADS.
  - 7. SHEAR WALLS SHALL BE DETAIL FOR NON-STRUCTURAL LOADS.
  - 8. SHEAR WALLS SHALL BE DETAIL FOR MOUNTING DEVICES.
  - 9. SHEAR WALLS SHALL BE DETAIL FOR MOUNTING DEVICES.

3. **STIFFENER PLATES AND BEARING STIFFENERS**

- **GENERAL NOTES:**
  - 1. STIFFENER PLATES AND BEARING STIFFENERS ARE TO BE PROVIDED IN PAIRS.
  - 2. STIFFENER PLATES AND BEARING STIFFENERS SHALL BE DETAIL FOR LOADS AND MOMENTS.
  - 3. STIFFENER PLATES AND BEARING STIFFENERS SHALL BE DETAIL FOR VERTICAL LOADS.
  - 4. STIFFENER PLATES AND BEARING STIFFENERS SHALL BE DETAIL FOR NON-STRUCTURAL LOADS.
  - 5. STIFFENER PLATES AND BEARING STIFFENERS SHALL BE DETAIL FOR MOUNTING DEVICES.
  - 6. STIFFENER PLATES AND BEARING STIFFENERS SHALL BE DETAIL FOR MOUNTING DEVICES.

4. **CONSTRUCTION**

- **GENERAL PROVISIONS:**
  - 1. CONSTRUCTION SHALL MEET ALL SPECIFICATIONS AND REQUIREMENTS.
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SPECIAL INSPECTION REQUIREMENTS - NOTES

1. SPECIAL INSPECTION Requirements are performed in accordance with the 2020 Michigan Building Code and shall be reviewed by Wayne State University.

2. Inspections should be made in accordance with the 2020 Michigan Building Code.

3. Special inspections are to be conducted by a special inspector certified by Wayne State University.

SPECIAL INSPECTION REQUIREMENTS - CONCRETE CONSTRUCTION

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LEVEL 1 LOADING DOCK DEMOLITION PLAN

1. Take any test openings to determine actual thickness of topping slab prior to beginning demolition. Do not core through structural slab below.

2. Protect existing finishes of framing and other areas not included in demolition.

3. Contractor shall provide a risk assessment plan and method for removal of expansion joint cover if present. Contractor shall provide a risk assessment plan and method for saw-cutting and removal of slab beyond basement wall to allow new waterproofing to lap over basement wall. Coordinate with waterproofing requirements.

4. Remove damaged concrete cover over existing concrete wall.

5. Remove existing electrical manhole. Remove existing electrical, water, steam, and sanitary lines. Verify all existing utilities in field prior to demolition.

6. Remove existing generator on steel platform. Remove existing trash compactor.

7. Remove existing concrete stairs. Do not damage concrete wall or structural slab.

8. Break up and remove existing 4” topping slab at high side of loading dock throughout shaded area.

9. Remove existing insulation and waterproofing layers. Do not damage structural slab below.

10. Do not cut or damage slab at north side of loading dock.

11. Saw-cut and remove portion of slab-on-grade beyond basement wall to allow new waterproofing to lap over basement wall. Coordinate with waterproofing requirements.

12. Level 1 Demolition Plan.

13. Level 1 Loading Dock Demolition Plan.

NOTES:

1. Core test opening to determine actual thickness of topping slab prior to beginning demolition. Do not core through structural slab below.

2. Protect existing finishes of framing and other areas not included in demolition.

3. Contractor shall provide a risk assessment plan and method for removal of expansion joint cover if present. Contractor shall provide a risk assessment plan and method for saw-cutting and removal of slab beyond basement wall to allow new waterproofing to lap over basement wall. Coordinate with waterproofing requirements.

4. Remove damaged concrete cover over existing concrete wall.

5. Remove existing electrical manhole. Remove existing electrical, water, steam, and sanitary lines. Verify all existing utilities in field prior to demolition.

6. Remove existing generator on steel platform. Remove existing trash compactor.

7. Remove existing concrete stairs. Do not damage concrete wall or structural slab.

8. Break up and remove existing 4” topping slab at high side of loading dock throughout shaded area.

9. Remove existing insulation and waterproofing layers. Do not damage structural slab below.

10. Do not cut or damage slab at north side of loading dock.

11. Saw-cut and remove portion of slab-on-grade beyond basement wall to allow new waterproofing to lap over basement wall. Coordinate with waterproofing requirements.

12. Level 1 Demolition Plan.

13. Level 1 Loading Dock Demolition Plan.
NEW 4" TOPPING SLAB ON INSULATION, PROTECTION BOARD, DRAINAGE BOARD AND WATERPROOFING, ON EXISTING STRUCTURAL SLAB. REINFORCE W/ EPOXY COATED 6x6 W1.4xW1.4 W.W.F. PLACED @ MID DEPTH.

MATCH SLOPE OF EXISTING SLAB. PREP EXISTING SLAB TO RECEIVE WATERPROOFING PER MANUFACTURER'S INSTRUCTIONS.

NEW CONCRETE STAIRS.

INFILL W/ 6" SLAB ON GRADE W/ 6x6 W2.9xW2.9 W.W.F. PLACED @ MID DEPTH ON MIN. 4" COMPACTED GRANULAR FILL.

PROVIDE CONTROL JOINTS IN TOPPING SLAB ALONG EACH BEAM LINE AND @ 15'-0" O.C. MAXIMUM SPACING THROUGHOUT.
NOTES:

1. PLAN VIEW SHOWS UNDERSIDE OF LEVEL 1 STRUCTURE A S VIEWED FROM LOWER LEVEL.

2. PROTECT EXISTING FINISHES AND OTHER ELEMENTS NOT INCLUDED IN REPAIR SCOPE, INCLUDING FIRE WATCH DURING WELDING OPERATIONS.

3. SIZE AND LOCATION OF REPAIR ITEMS ARE APPROXIMATE. FIELD VERIFY ALL EXISTING CONDITIONS AND QUANTITIES.

4. IDENTIFY ALL ELECTRICAL CONDUITS, LIGHTING, AND PLUMBING TO BE DISCONNECTED AND / OR RELOCATED TO ALLOW FOR WORK TO BE PERFORMED.

DESIGNATIONS:

- EXISTING Exposed 10" Structural Slab Ceiling Throughout
- EXISTING EXPOSED 12" STRUCTURAL SLAB CEILING
- EXISTING EXPOSED 3" STRUCTURAL SLAB CEILING

- PARTIAL DEPTH REPAIR TO INSIDE FACE OF LOADING DOCK WALL ALONG SHADED LENGTH. APPROXIMATELY 3" MAX. DEPTH.

- OVERHEAD CONCRETE REPAIR, APPROXIMATELY 1" DEEP

- OVERHEAD CONCRETE REPAIR, APPROXIMATELY 3" DEEP

- Route and Seal Cracks in Underside of Structural Slab. Refer to Detail D6/202

- Route and Seal Cracks at Inside Face of Concrete Wall Above Structural Slab

- Existing Beans Enclosed in Plaster W/ Metal Lath. TYP.

- Partial Depth Repair to Inside Face of Loading Dock Wall Along Shaded Length. Approximately 3" Max. Depth.

- Existing Exposed 10" Structural Slab Ceiling Throughout

- Exist Existing Beams Enclosed in Plaster W/ Metal Lath. TYP.

- Existing Basements Wall / Concrete Piers at Each Column Line

- Area Below Loading Dock Contains Large Numbers of Conduits and Piping. Review in Field for Feasibility and Cost Associated with Repairs.

- Partial Depth Repair to Inside Face of Loading Dock Wall Along Shaded Length. Approximately 3" Max. Depth.

- Existing Exposed 10" Structural Slab Ceiling Throughout

- Designation: Route and Seal Cracks in Underside of Structural Slab Refer to Detail D6/202

- Route and Seal Cracks at Inside Face of Concrete Wall - Above Structural Slab

- Existing Exposed 10" Structural Slab Ceiling Throughout

- Magnified Image of Structural Slab Underneath Detail B

- Magnified Image of Structural Slab Underneath Detail B

- Magnified Image of Structural Slab Underneath Detail B

- Magnified Image of Structural Slab Underneath Detail B

- Magnified Image of Structural Slab Underneath Detail B

- Magnified Image of Structural Slab Underneath Detail B

- Magnified Image of Structural Slab Underneath Detail B
GENERAL REPAIR NOTES

1. Bidders to provide base price for quantities shown in schedule. Add $25 per sq. ft. days. Rates beyond estimated scope.

2. Replace finishes to match existing. Patch undermolded and and steel beams to match existing. Repair, cleaning, and decoration under-side of structural slab to match existing color and type.

3. Replace all electrical conduit, lighting, and mechanical systems with new material. Replace finishes to match existing. Provide finish paint to match existing.

REPAIR DETAILS

BEAM TESTING & REPAIR NOTES

1. A. After completing Step 1, proceed to Step 2 as follows:
   - Step 1: Perform corrosion testing.
   - Step 2: Perform repair and painting.

2. B. Replace beam if:
   - No live load allowed on beam.
   - Reinforcement bars.
   - Spans or columns.
   - Beams.
   - Beams.
   - Beams.
   - Beams.

3. C. Replace all loose, spalling or corroded reinforcing bars.

4. D. Perform one type of corrosion repair (flange or web).

5. E. Replace beam if:
   - Top and bottom flange corrosion >10%, or
   - Top and bottom flange corrosion >20%, or
   - Top and bottom flange corrosion >40%, or
   - Top and bottom flange corrosion >100%, or
   - Top and bottom flange corrosion >200%, or
   - Top and bottom flange corrosion >300%, or
   - Top and bottom flange corrosion >400%, or
   - Top and bottom flange corrosion >500%, or
   - Top and bottom flange corrosion >600%, or
   - Top and bottom flange corrosion >700%, or
   - Top and bottom flange corrosion >800%, or
   - Top and bottom flange corrosion >900%, or
   - Top and bottom flange corrosion >1000%, or
   - Top and bottom flange corrosion >1100%, or
   - Top and bottom flange corrosion >1200%, or
   - Top and bottom flange corrosion >1300%, or
   - Top and bottom flange corrosion >1400%, or
   - Top and bottom flange corrosion >1500%, or
   - Top and bottom flange corrosion >1600%, or
   - Top and bottom flange corrosion >1700%, or
   - Top and bottom flange corrosion >1800%, or
   - Top and bottom flange corrosion >1900%, or
   - Top and bottom flange corrosion >2000%, or
   - Top and bottom flange corrosion >2100%, or
   - Top and bottom flange corrosion >2200%, or
   - Top and bottom flange corrosion >2300%, or
   - Top and bottom flange corrosion >2400%, or
   - Top and bottom flange corrosion >2500%, or
   - Top and bottom flange corrosion >2600%, or
   - Top and bottom flange corrosion >2700%, or
   - Top and bottom flange corrosion >2800%, or
   - Top and bottom flange corrosion >2900%, or
   - Top and bottom flange corrosion >3000%, or
   - Top and bottom flange corrosion >3100%, or
   - Top and bottom flange corrosion >3200%, or
   - Top and bottom flange corrosion >3300%, or
   - Top and bottom flange corrosion >3400%, or
   - Top and bottom flange corrosion >3500%, or
   - Top and bottom flange corrosion >3600%, or
   - Top and bottom flange corrosion >3700%, or
   - Top and bottom flange corrosion >3800%, or
   - Top and bottom flange corrosion >3900%, or
   - Top and bottom flange corrosion >4000%, or
   - Top and bottom flange corrosion >4100%, or
   - Top and bottom flange corrosion >4200%, or
   - Top and bottom flange corrosion >4300%, or
   - Top and bottom flange corrosion >4400%, or
   - Top and bottom flange corrosion >4500%, or
   - Top and bottom flange corrosion >4600%, or
   - Top and bottom flange corrosion >4700%, or
   - Top and bottom flange corrosion >4800%, or
   - Top and bottom flange corrosion >4900%, or
   - Top and bottom flange corrosion >5000%, or
   - Top and bottom flange corrosion >5100%, or
   - Top and bottom flange corrosion >5200%, or
   - Top and bottom flange corrosion >5300%, or
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   - Top and bottom flange corrosion >6000%, or
   - Top and bottom flange corrosion >6100%, or
   - Top and bottom flange corrosion >6200%, or
   - Top and bottom flange corrosion >6300%, or
   - Top and bottom flange corrosion >6400%, or
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   - Top and bottom flange corrosion >6600%, or
   - Top and bottom flange corrosion >6700%, or
   - Top and bottom flange corrosion >6800%, or
   - Top and bottom flange corrosion >6900%, or
   - Top and bottom flange corrosion >7000%, or
   - Top and bottom flange corrosion >7100%, or
   - Top and bottom flange corrosion >7200%, or
   - Top and bottom flange corrosion >7300%, or
   - Top and bottom flange corrosion >7400%, or
   - Top and bottom flange corrosion >7500%, or
   - Top and bottom flange corrosion >7600%, or
   - Top and bottom flange corrosion >7700%, or
   - Top and bottom flange corrosion >7800%, or
   - Top and bottom flange corrosion >7900%, or
   - Top and bottom flange corrosion >8000%, or
   - Top and bottom flange corrosion >8100%, or
   - Top and bottom flange corrosion >8200%, or
   - Top and bottom flange corrosion >8300%, or
   - Top and bottom flange corrosion >8400%, or
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   - Top and bottom flange corrosion >9800%, or
   - Top and bottom flange corrosion >9900%, or
   - Top and bottom flange corrosion >10000%, or
   - Top and bottom flange corrosion >10100%, or
   - Top and bottom flange corrosion >10200%, or
   - Top and bottom flange corrosion >10300%, or
   - Top and bottom flange corrosion >10400%, or
   - Top and bottom flange corrosion >10500%, or
   - Top and bottom flange corrosion >10600%, or
   - Top and bottom flange corrosion >10700%, or
   - Top and bottom flange corrosion >10800%, or
   - Top and bottom flange corrosion >10900%, or
   - Top and bottom flange corrosion >11000%, or
   - Top and bottom flange corrosion >11100%, or
   - Top and bottom flange corrosion >11200%, or
   - Top and bottom flange corrosion >11300%, or
   - Top and bottom flange corrosion >11400%, or
   - Top and bottom flange corrosion >11500%, or
   - Top and bottom flange corrosion >11600%, or
   - Top and bottom flange corrosion >11700%, or
   - Top and bottom flange corrosion >11800%, or
   - Top and bottom flange corrosion >11900%, or
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   - Top and bottom flange corrosion >12400%, or
   - Top and bottom flange corrosion >12500%, or
   - Top and bottom flange corrosion >12600%, or
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   - Top and bottom flange corrosion >12800%, or
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   - Top and bottom flange corrosion >13400%, or
   - Top and bottom flange corrosion >13500%, or
   - Top and bottom flange corrosion >13600%, or
   - Top and bottom flange corrosion >13700%, or
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