WATER QUALITY PROTECTION:

THIS PROJECT IS SUBJECT TO THE CONDITIONS OF NPDES PERMIT 6OH0000. THE CONTRACTOR MUST SUBMIT NOTICE OF INTENT TO CONDUCT SWEEPING OPERATIONS PRIOR TO COMMENCING WORK. THE CONTRACTOR MAY SUBMIT A NOTICE OF INTENT AS A CO-PETITIONER UNDER THIS PROJECT AND RECEIVE DEPA APPROVAL TO OPERATE UNDER THE PERMIT PRIOR TO COMMENCING WORK. CONTRACTOR MUST CONTACT ITEM 530 SPECIAL STRUCTURES MISC.: CLEANING BRIDGES. CONTRACTOR MUST COMPLETE THE "WORK PLAN FOR BRIDGE CLEANING" FOR EACH BRIDGE IN ACCORDANCE WITH THE NPDES PERMIT.

ENVIRONMENTAL CONDITIONS:

ALL EQUIPMENT AND MATERIALS MUST BE STAGED ABOVE THE ORDINARY HIGH WATER MARK. NO TEMPORARY FILL IS PERMITTED BELOW THE ORDINARY HIGH WATER MARK.

DEBRIS REMOVAL AND DISPOSAL:

THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF DEBRIS IN ACCORDANCE WITH ALL ENVIRONMENTAL RESTRICTIONS AND PERMITS. NO DEBRIS AS A RESULT OF THE BRIDGE CLEANING OPERATIONS IN ACCORDANCE WITH CMS 305.16, AND 324.36-2940. UNDER NO CIRCUMSTANCES MAY SWEEPINGS BE SWEEPED INTO OPEN DECK DRAINS, OVER THE EDGE OF THE BRIDGE, OR THROWN ALONG THE BANKS, OR INTO THE WATER.

ITEM 530 SPECIAL STRUCTURES MISC.: SWEEPING BRIDGES

PROVIDE MECHANIZED BRIDGE SWEEPING TO CLEAN AND REMOVE SAND, SOIL, PAPER, GLASS, CANS, DRISS CLIPPINGS, AND OTHER DEBRIS. AREAS TO BE SWEEP INCLUDE OUTSIDE AND MIDDLE PAVED SHOULDERS, GORE AREAS, AREAS ADJACENT TO BARRIER WALLS, AREAS ADJACENT TO MEAN-ALTITUDES AND IMPACT ATTENUATORS, AREAS ON TOP OF INLET GRATES AND OTHER DESIGNATED SITES AS DETERMINED BY THE ENGINEER.

THE CONTRACTOR IS RESPONSIBLE FOR CONTROL OF DUST AT ALL TIMES DURING SWEEPING OPERATIONS. DRY POWER BROOMING WILL NOT BE PERMITTED. THE CONTRACTOR SHALL USE VACUUMING, WET SWEEPING, REGENERATIVE AIR SWEEPING, THE USE OF COMPRESSED AIR WILL BE PERMITTED ONLY WITH ACCEPTABLE DUST CONTROLS IN PLACE.

REMOVAL AND DISPOSAL OF DEBRIS:

DEBRIS MAY BE ENCLOSED THAT IS LARGER THAN THE MECHANIZED SWEEPER CAN REMOVE SUCH AS TREES, TIRE PARTS, HUB CAPS, LARGE STONES, BOXES, TREES LIMBS, WOOD, CABLE, AND OTHER SUCH MATERIALS. REMOVE ALL DEBRIS ENCOUNTERED USING OTHER MEANS AND SWEEPER, REGARDLESS OF THE SIZE.

NO SWEEPING OPERATIONS WILL BE PERFORMED BETWEEN THE TIMES OF _______ AND _______

COMPLETED WORK WILL BE CLEAN AND FREE OF ALL ACCUMULATED DEBRIS IMMEDIATELY AFTER SWEEPING, AS DETERMINED BY THE ENGINEER. AREAS DETERMINED UNSATISFACTORY BY THE ENGINEER WILL BE RE-SWEPT TO THE SATISFACTION OF THE ENGINEER WITHIN THE TIME SPECIFIED, AT NO ADDITIONAL COST TO THE DEPARTMENT.

PAYMENT WILL BE FULL COMPENSATION FOR SWEEPING ALL EQUIPMENT, MATERIALS, LABOR, AND INCIDENTALS NECESSARY TO COMPLETE ALL SWEEPING OPERATIONS, INCLUDING HAND WORK, AS SPECIFIED.

PAYMENT FOR ALL OF THE ABOVE WILL BE MADE AT CONTRACT BID PRICE AS FOLLOWS:

ITEM 530 SPECIAL STRUCTURE, MISC.: SWEEPING BRIDGES

THE WORK SHALL CONSIST OF THE REMOVAL OF, SAND, SOIL, PAPER, GLASS, AND OTHER DEBRIS FROM DRAINAGE SYSTEMS, EXPANSION JOINTS, AND ABUTMENT SEATS. EQUIPMENT MAY CONSIST OF HAND TOOLS, Manual Broom, Power Broom, Air Compressors, Water Tanks, Water Pumps With Associated Delivery Hardware To Clean, Flush, And Remove Dirt And Debris.

THE CLEANING OF SCUPPERS AND JOINTS SHALL NOT BE PERFORMED PRIOR TO PERFORMING ITEM 530 SPECIAL STRUCTURES MISC.: SWEEPING BRIDGES.

THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A BRIDGE CLEANING WORK PLAN INDICATING LOCATIONS OF ALL TEMPORARY BMP INSTALLED TO CAPTURE ANY WASH WATER USED IN THE CLEANING PROCESS. THE PLAN SHALL INCLUDE INSPECTION AND DOCUMENTATION OF BMP PERFORMANCE PRIOR TO WORK AND IMMEDIATELY FOLLOWING THE WORK. INTERMEDIATE INSPECTION SHOULD BE CONDUCTED EVERY 4 HOURS UNTIL WORK IS COMPLETE.

THE CONTRACTOR SHALL FURNISH ALL MATERIAL, EQUIPMENT, LABOR AND INCIDENTAL ITEMS NECESSARY TO PROPERLY REMOVE AND DISPOSE OF ALL DEBRIS AND OTHER FOREIGN MATERIAL, BY POWER SWEEPING, SHOVELING, SCRAPPING, ETC. FOLLOWS BY INSTALLING BMPS AS IDENTIFIED IN THE WORK PLAN FOR BRIDGE CLEANING, AND PRESSURE WASHING THE CURB LINES, SHOULDERS, JOINTS, SCUPPERS, SOWNOUTS, AND THE BRIDGE SEAT ALONG WITH THE END OF THE BEAMS.

THE OBJECTIVES OF BRIDGE CLEANING ARE TO CLEAN AND FREE OF ALL DEBRIS UNTIL ALL WORK UNDER THIS CONTRACT IS COMPLETE.

1. CLEANSING JOINTS FOR THE FULL WIDTH OF THE BRIDGE:
A) PREVENT ALL DIRT, DEBRIS, AND WASH WATER FROM ENTERING ANY DRAINAGE SYSTEM DURING THE CLEANING OPERATIONS.
B) REMOVE ALL COLLECT LOOSE DEBRIS FROM THE JOINTS PRIOR TO INTRODUCING WATER. CARE SHOULD BE TAKEN WHEN BREAKING UP DEBRIS IN THE JOINTS OR WHEN NOT TO DAMAGE THE ELASTOMERIC SEAL.
C) SWEEP AND COLLECT SAND, DEBRIS AND SEDIMENT BY USE OF PRESSURE WASHING THE JOINTS OR COMPRESSED AIR.

2. CLEANING SCUPPERS AND SOWNOUTS:
A) USE SHOVEL, HAND SCRAPER, AND OTHER HAND TOOLS TO BREAK UP DEBRIS IN SCUPPERS PRIOR TO INTRODUCING WATER.
B) REMOVE SCUPPER GRATE. USE SHOVEL, HAND SCRAPER AND OTHER HAND TOOLS TO BREAK UP DEBRIS IN SCUPPERS PRIOR TO INTRODUCING WATER.
C) CLEAN SCUPPERS AND SOWNOUTS FOR FINAL CLEANING.
D) ALL DEBRIS FROM THE CLEANING OPERATION SHALL BE REMOVED.

3. BRIDGE SEATS:
A) REMOVE WITH A SHOVEL, BROOM, HAND SCRAPER OR OTHER MECHANICAL MEANS, ALL GROSS SOLIDS FROM THE ENTIRE BEAM SEATS AND AROUND ALL AREAS SURROUNDING THE BEAM BEARINGS.
B) IF THE WATER FLOW FROM THE BRIDGE SEAT TO THE WATER'S EDGE IS LESS THAN 20 FEET, NO WATER SHALL BE USED. COMPRESSED AIR MAY BE USED.

THE CONTRACTOR SHALL ENSURE THAT THE DRAINAGE SYSTEM REMAINS CLEAN AND FREE OF ALL DEBRIS UNTIL ALL WORK UNDER THIS CONTRACT IS COMPLETE. ANY DAMAGED OR DETERIORATED SYSTEMS SHALL BE REPORTED TO THE ENGINEER.

PAYMENT FOR ALL OF THE ABOVE WILL BE MADE AT CONTRACT BID PRICE AS FOLLOWS:

ITEM 530 SPECIAL STRUCTURE MISC.: CLEANING OF BRIDGE JOINTS

THE CONTRACTOR SHALL USE PORTABLE WATER FOR THE CLEANING OPERATION. DISCHARGING TO OR COLLECTING WATER FROM STREAMS IS PROHIBITED.

PRESSURE WASH WATER PRESSURE SHALL BE A MAXIMUM OF 1,500 PSI. CONTRACTOR SHALL NOT USE PRESSURE WASH NEAR EXISTING UTILITIES OR BRIDGE ITEMS CONTAINING OR COATED WITH ASCBESTOS OR TRANSITE. OPERATING PRESSURES SHALL BE SUFFICIENT TO REMOVE THE ACCUMULATED MATERIAL WITHOUT DAMAGING PAINT COVERAGE OF THE STRUCTURAL STEEL.

PRESSURE WASHING STRUCTURE CONCRETE:

THE CONTRACTOR SHALL USE PORTABLE WATER FOR THE CLEANING OPERATION. DISCHARGING TO OR COLLECTING WATER FROM STREAMS IS PROHIBITED.

ITEM 64 - MAINTAINING TRAFFIC SEE ROADWAY PLAN.

ESTABLISH TRAFFIC CONTROL OPERATIONS ON THE BRIDGE TO ENSURE WORKER SAFETY DURING MAINTENANCE ACTIVITIES. IF ROAD DEBRIS CAN FALL ON ACTIVE TRAFFIC BELOW BRIDGE, PROVIDE TRAFFIC CONTROL TO THE ROADWAY BELOW IN ACCORDANCE WITH THE ROADWAY PLANS.

BRIDGE DESIGNED OVER A SUPERIOR OR OUTSTANDING WATERSHED REQUIRE ADDITIONAL PRECAUTIONS TO PREVENT WASH WATER ENTERING THE WATERSHED. SHALL INCLUDE THE FOLLOWING:

1. SWEEP AND COLLECT SAND, DEBRIS AND SEDIMENT FROM THE JOINTS BY VACUUMING WASH WATER USING A VACUUM TRUCK.
2. CLEANING SCUPPERS AND SOWNOUTS:
   A) REMOVE SCUPPER GRATE. USE SHOVEL, HAND SCRAPER AND OTHER HAND TOOLS TO BREAK UP DEBRIS IN SCUPPERS TO THE EXTENT PRACTICABLE. COLLECT LOOSE AND LARGE DEBRIS FROM THE SCUPPERS PRIOR TO INTRODUCING WATER.
   B) SWEEP AND COLLECT SAND, DEBRIS AND SEDIMENT FROM THE SCUPPERS BY VACUUMING WASH WATER USING A VACUUM TRUCK.
3. BRIDGE SEATS:
   A) REMOVE WITH A SHOVEL, BROOM, HAND SCRAPER OR OTHER MECHANICAL MEANS, ALL GROSS SOLIDS FROM THE ENTIRE BEAM SEATS AND AROUND ALL AREAS SURROUNDING THE BEAM BEARINGS.
   B) IF THE WATER FLOW FROM THE BRIDGE SEAT TO THE WATER'S EDGE IS LESS THAN 20 FEET, NO WATER SHALL BE USED. COMPRESSED AIR MAY BE USED.

THE CONTRACTOR SHALL ENSURE THAT THE DRAINAGE SYSTEM REMAINS CLEAN AND FREE OF ALL DEBRIS UNTIL ALL WORK UNDER THIS CONTRACT IS COMPLETE. ANY DAMAGED OR DETERIORATED SYSTEMS SHALL BE REPORTED TO THE ENGINEER.
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**ESTIMATED QUANTITIES**

**GENERAL NOTES**
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<th>NUMBER OF Lanes</th>
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<th>NUMBER OF BACKWALLS, ABUTMENT SEATS, AND ABUTMENT JOINTS TO CLEAN EACH</th>
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**PLANNED INSERT SHEET**

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**B R I D G E  C L E A N I N G**

**E S T I M A T E D  Q U A N T I T I E S**

**OFFICE OF STRUCTURAL ENGINEERING**
NOTES AND LEGEND:

- REMOVE DEBRIS AND OTHER FOREIGN MATERIALS, THEN PRESSURE WASH WITH PORTABLE WATER AS DESCRIBED IN THE GENERAL NOTES.

DETAIL "A"
(SLIDING PLATE)

DETAIL "A"
(STRIPE SEAL)

AVOID PUNCTURE OR DAMAGE TO SEAL WHILE CLEANING.