

COMMISSION FILE NO: 20-154-10 **DATE INTRODUCED:** October 12, 2020

INTRODUCED BY: Executive Director (Signature on File in the Office of the Commission)

REFERRED BY COMMISSION CHAIRPERSON TO: Operations Committee

RELATING TO: Award of Contract W24010E01, Preliminary Engineering Services – State Fair Culverts

SUMMARY:

The Commission is requested to award and to direct the Executive Director to execute on behalf of the District Contract W24010E01, Preliminary Engineering Services – State Fair Culverts, to Ruekert & Mielke, Inc., in an amount not to exceed \$148,648. Ruekert & Mielke, Inc. was the highest scoring proposer among six proposals received based on a qualifications-based selection method.

MMSD owns culverts that convey Honey Creek below the Wisconsin State Fair Park property (State Fair), located between South 84th and South 76th Streets and between Interstate 94 and West Greenfield Avenue in the City of West Allis. There are 16 elliptical corrugated metal pipe (CMP) culverts, grouped in four sets of four. They are very large; eight of the culverts are 13 feet wide by nine feet high, and the other eight are 14 feet wide by 10 feet high. The culverts were put into service in 1963.

There have been two reported occurrences of surface subsidence that led to the discovery of holes in the inverts of the culverts. The first report of subsidence was made in 2008. Field inspection revealed that the holes were confined to directly below the area of subsidence at the access shaft located at the northern end of the Milwaukee Mile Track infield. Repairs were made in early 2010 and consisted of paving the culvert inverts upstream and downstream of the access shaft for all four culvert barrels. Some perimeter grouting was also done around the outside of the culverts to fill voids caused as the surrounding soil washed into the culvert through the holes. The second incident of subsidence was in 2019 and was located just south of the one in 2008. Field inspection found some holes directly below this location and some farther north below where State Fair sets up the midway rides.

ATTACHMENTS: **BACKGROUND** ☐ **KEY ISSUES** ☐ **RESOLUTION** ☒
FISCAL NOTE ☒ **S/W/MBE** ☒ **OTHER** ☐ _____

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COMMITTEE ACTION: _____ **DATE:** _____

COMMISSION ACTION: _____ **DATE:** _____

SUMMARY (Cont'd)

Award of Contract W24010E01, Preliminary Engineering Services – State Fair Culverts

In early 2020, using the 2010 culvert invert paving technique, three culvert CMP's within the system were repaired.

The general scope of work for this contract includes review of existing videos taken by MMSD staff and an internal MMSD technical memorandum related to the videos (dated August 23, 2018, and revised January 23, 2019). The consultant will perform a field inspection of the culverts and will perform any analyses needed to determine the cause of deterioration of the culverts and why it appears to be contained to certain locations and then develop a strategy to extend the life of the culverts as outlined in the scope of services. The consultant's evaluations will be summarized in two technical memoranda that will be incorporated with the recommendations into a final deliverable of a long-term plan.

The overall contract includes the following major tasks: project management, field investigation/data collection, and preliminary engineering services.

The contract duration is nine months.

RESOLUTION

Award of Contract W24010E01, Preliminary Engineering Services – State Fair Culverts

RESOLVED, by the Milwaukee Metropolitan Sewerage Commission, that Contract W24010E01, Preliminary Engineering Services – State Fair Culverts, is awarded to Ruekert & Mielke, Inc., in the amount not to exceed \$148,648, and that the Executive Director is directed to execute a contract on behalf of the District.