



18-HOLE COURSE IMPROVEMENTS

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STORM WATER CONVEYANCE CHANNEL



LOW PROFILE BRIDGE CROSSING

Improved stormwater conveyance via designed conveyance channels





18-HOLE COURSE IMPROVEMENTS

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AFTER
RENOVATED BUNKER



BEFORE
EXISTING BUNKER

New bunkering in select areas



PROPOSED WET (WETLAND)
DETENTION TRANSITION INTO DRY
(MANICURED ROUGH) DETENTION



PROPOSED WET DETENTION (LAKE)

New stormwater storage areas





PAR-3 COURSE LAYOUT

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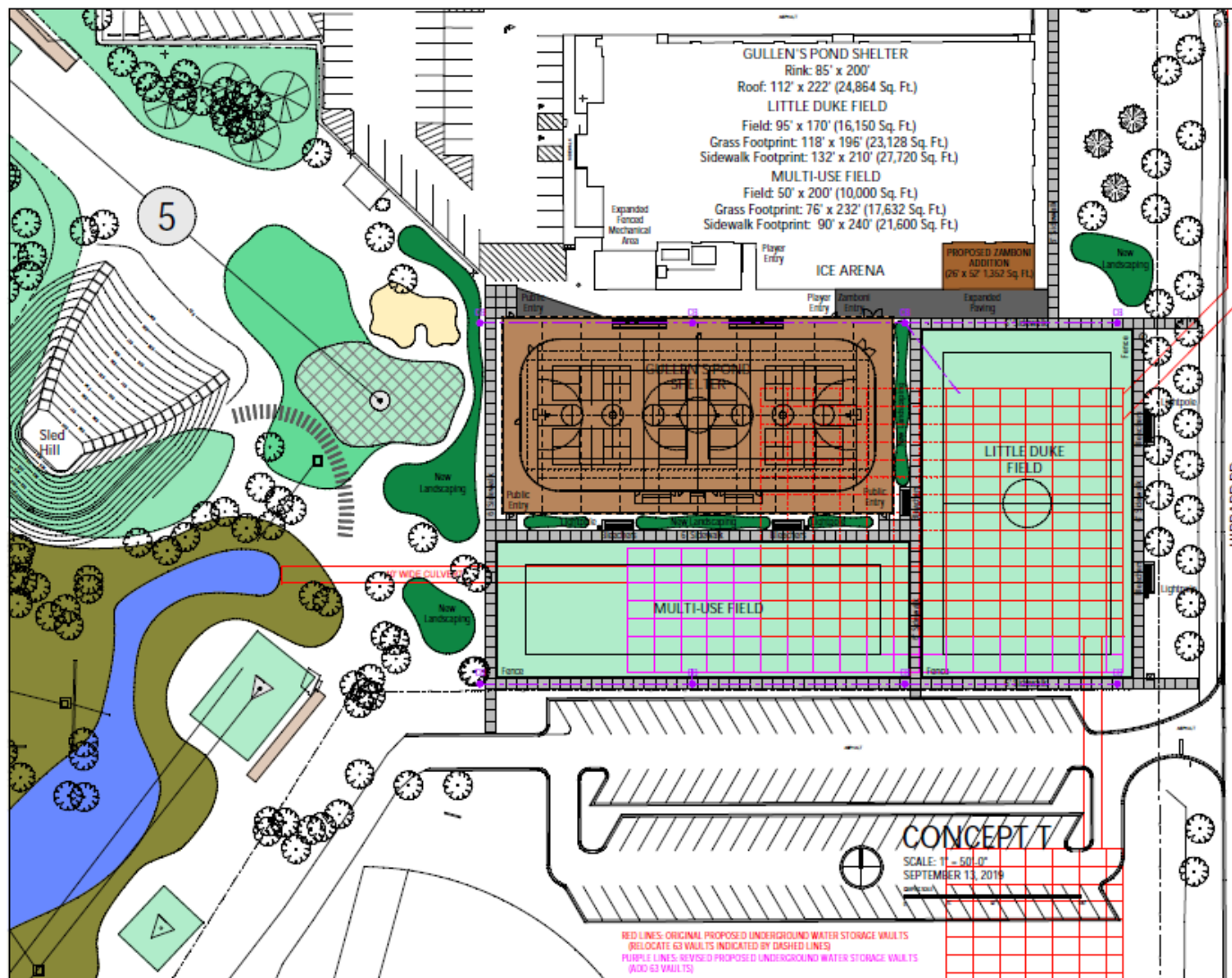
- New #5 green
- New stormwater conveyance and storage areas
- New bridges
- Re-purpose existing #9 green for short game practice area
- New #9 green





CURRENT LAYOUT – LITTLE DUKE IMPROVEMENT

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KEY BENEFITS OF PROJECT

- Provides approximately 64.8 acre-feet of storm water storage, which equates to approximately 30% of the total Village project requirements
- Re-contoured fairways improve drainage and playability on 18-hole course
- Provides additional source of irrigation water via new stormwater ponds on 18-hole golf course
- Improves grading and drainage for “Little Duke” area south of Ice Arena
- Fully compatible with WPD long-term concept improvements to Little Duke Fields (WPD Concept T)





PROJECT BENEFITS (CONT.)

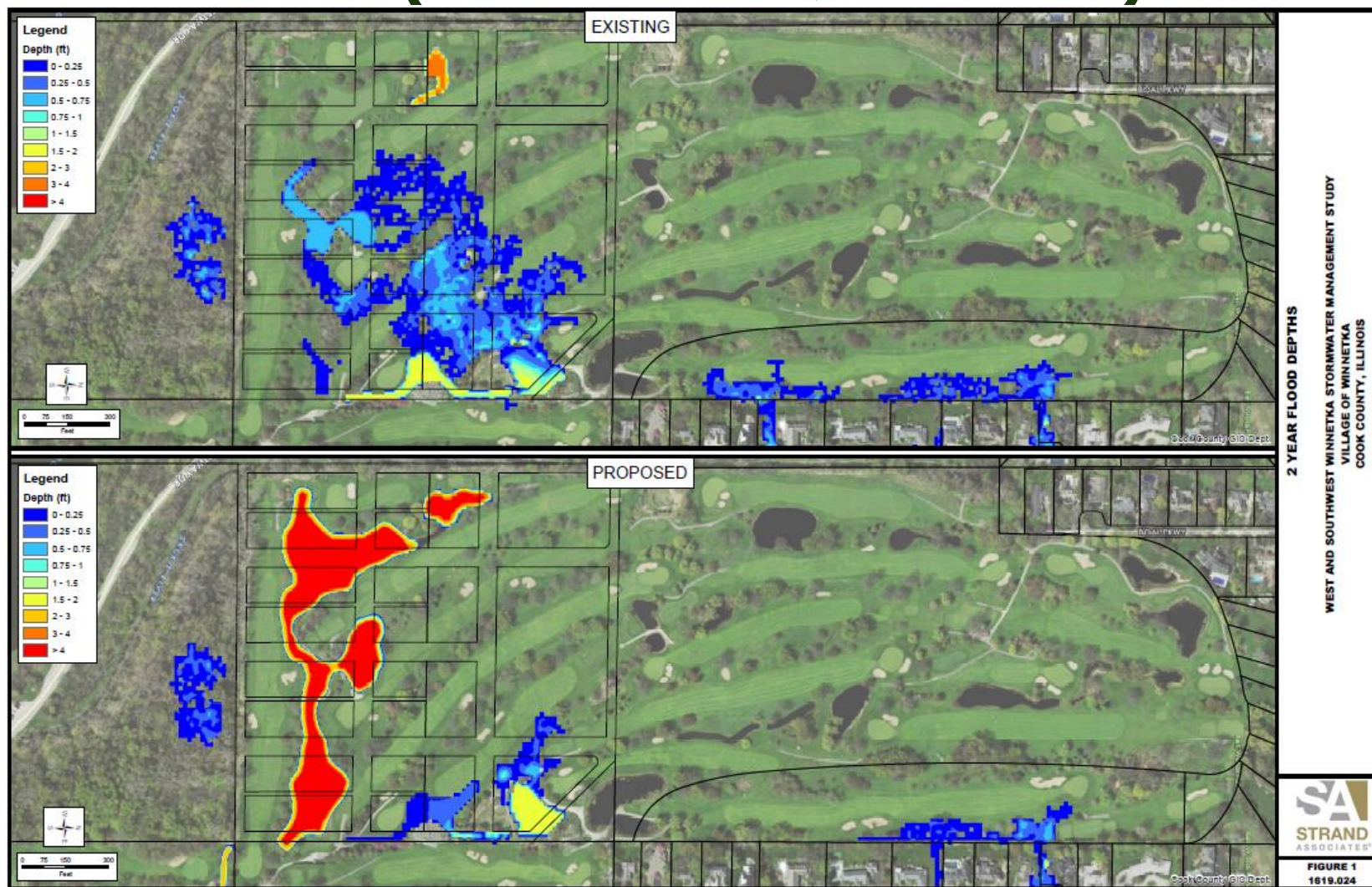
- The Village will join WPD as co-applicant for the required MWRD permit. The Village will also provide an expedited project approval process.
- The storage areas have been designed to accommodate the estimated 4.7 acre-feet of detention storage required for the proposed Little Duke improvements. The cost to the Village to provide this benefit has been calculated at \$1,645,000 (4.7 acre feet @ \$350,000 per acre foot)
- There is significant additional value of re-using excavated soil to enhance golf course grading, rather than hauling offsite.





GOLF COURSE FLOOD REDUCTION BENEFITS 2 YEAR EVENT (1.94 INCHES, 3 HOURS)

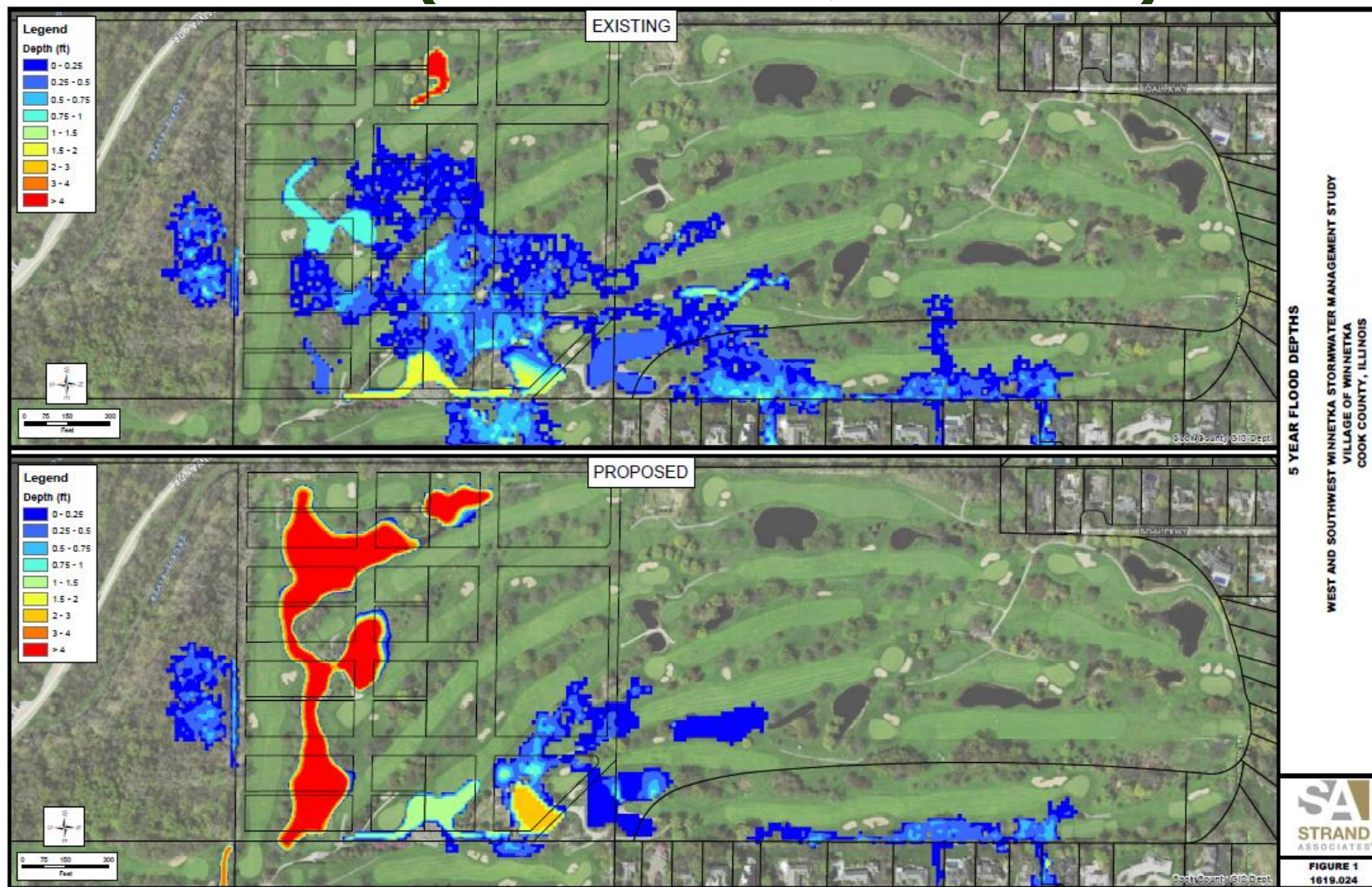
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GOLF COURSE FLOOD REDUCTION BENEFITS 5 YEAR EVENT (2.43 INCHES, 3 HOURS)

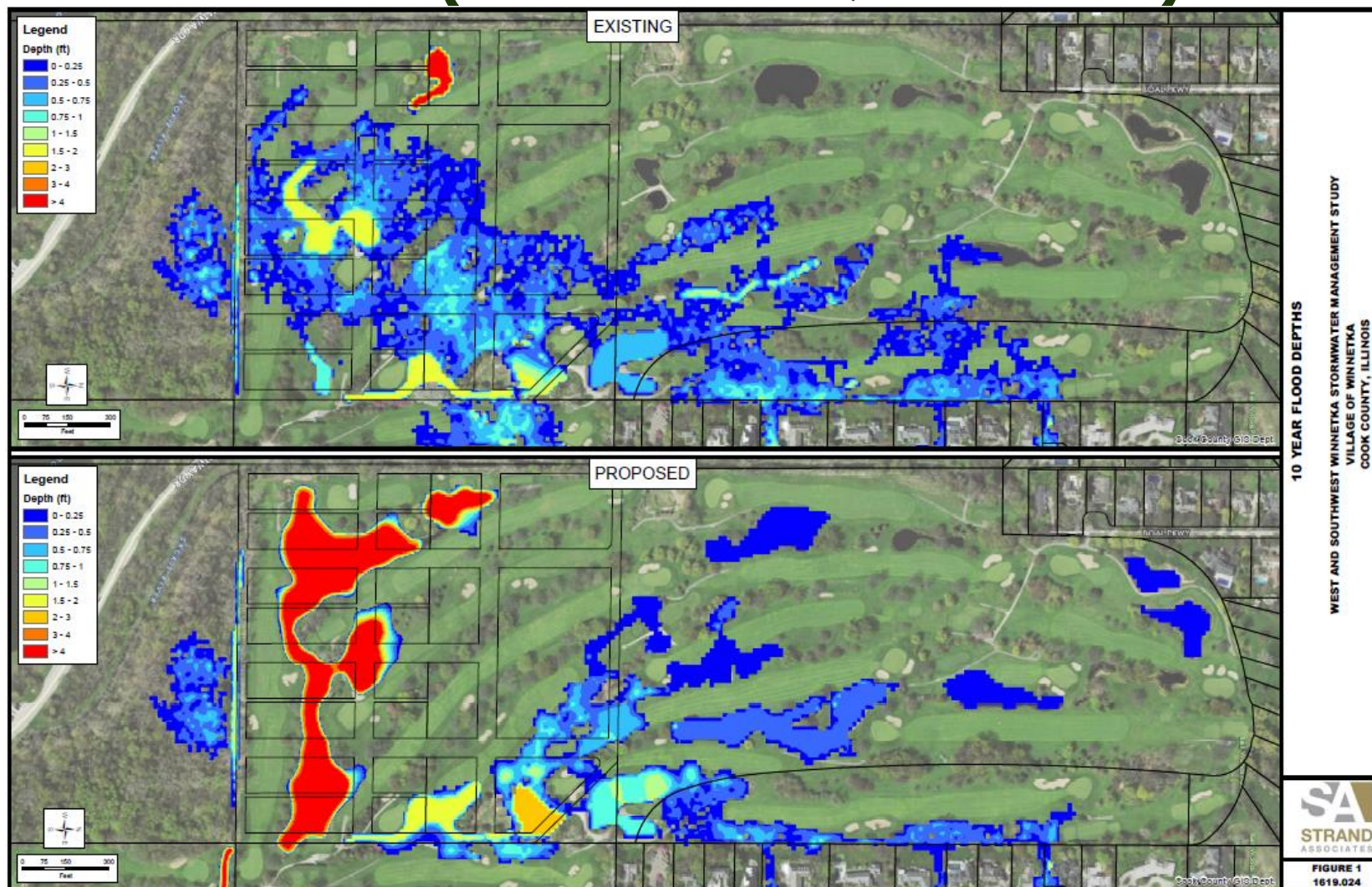
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GOLF COURSE FLOOD REDUCTION BENEFITS 10 YEAR EVENT (2.86 INCHES, 3 HOURS)

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KEY TERMS OF INTERGOVERNMENTAL AGREEMENT

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- Defines scope and preliminary design of Village stormwater improvement, and also provides a designated area and some zoning relief for potential future Little Duke improvements
- Provides for cooperative design and review of both projects and provides shared project benefits
- Provides an easement agreement that allows stormwater storage on and under a portion of the property, and preserves space for potential future improvements
- Provides four construction windows starting in July and wrapping by the September of the following year. The project will be constructed during one of these windows





QUESTIONS?

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This lone cyclist looks west on Hibbard road, and sees the CCC-built barrier along the banks that saved many of the streets of Winnetka from being flooded. This dike, hurriedly built by the government boys, aided by home-owners, extends several miles along Hibbard road.

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July 3, 1958





STORMWATER STORAGE AND CONVEYANCE CROW ISLAND PARK PROPERTY







FINANCIAL TERMS OF INTERGOVERNMENTAL AGREEMENT

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- **Financial Terms:**

- Village to pay Park District \$390,000 as credit for lost revenue during golf course disruption period
- Village will reimburse Park District up to \$60,000 for incurred design expenses if the Village decides not to pursue the project
- Village to credit Park District for stormwater utility fees paid on Skokie Playfield property.
- Village will credit Park District for lost revenue if the project is not finished in accordance with completion dates (Agreement Exhibit L)

