

CITY OF WIMBERLEY

**ADDENDUM TO THE
WASTEWATER COLLECTION AND
TREATMENT SYSTEM FEASIBILITY STUDY**

**SUBMITTED BY:
ALAN PLUMMER ASSOCIATES, INC.
TBPE FIRM REGISTRATION NO. F-13**

1.0 INTRODUCTION AND BACKGROUND

Multiple alternatives for central wastewater collection and treatment for the City of Wimberley are detailed in the *Wastewater Collection and Treatment System Feasibility Study*, prepared by Alan Plummer Associates, Inc. (APAI) in December, 2012. Since the publication of this study and review by City of Wimberley Council members, the preferred alternative for implementing this project was modified slightly from the recommended alternative originally presented in the 2012 report. The description of and justification for the recommended option adopted by council members are provided herein.

1.1 Modifications to the Recommended Alternative

The alternative recommended in the *Wastewater Collection and Treatment System Feasibility Study* included the construction of a conventional wastewater collection system and the expansion of the existing wastewater package plant on Blue Hole Regional Park to a permitted capacity of 75,000 gallons per day (GPD).

In consideration of the final recommendations presented by the Central Wimberley Stakeholder Committee, the Wimberley City Council voted to adopt a modified recommendation of the alternative presented in the *Wastewater Collection and Treatment System Feasibility Study* which incorporated relocating and expanding the existing package plant to the northeast corner of Blue Hole Regional Park. The premise for this recommendation was the identification of this site as the preferred location of the plant in the Blue Hole Regional Park Master Plan. The alternate location is expected to have less impact on the recreational use of the park.

Although the relocation and expansion of the plant does involve additional costs and does not offer advantages when evaluated from an engineering perspective, this alternative is recommended as the preferred alternative due to the aesthetic benefits it offers. The total cost of implementing this alternative and a figure representing the proposed system is provided on the following pages. The footprint represented in the figure is inclusive of the space required for locating the effluent storage tank in immediate proximity to the treatment plant.

Table 1: Proposed Collection and Treatment System Opinion of Probable Cost

Option Description	Expand/Relocate Exist.Plant to 75,000 GPD. TPDES Permit + Beneficial Reuse
Collection System	\$2,259,000
Treatment Plant Cost	\$750,000
Irrigation Cost	\$38,000
Storage Cost	\$300,000
Discharge Cost	\$20,000
Land Acquisition Cost	\$44,000
Subtotal Construction Cost	\$3,411,000
Contingency (20%)	\$682,200
Planning and Design (15%)	\$511,650
Legal, Financial, Permitting	\$175,000
Debt Reserve	\$238,993
TWDB Loan Origination Fee	\$92,849
Total Construction Cost	\$5,111,692

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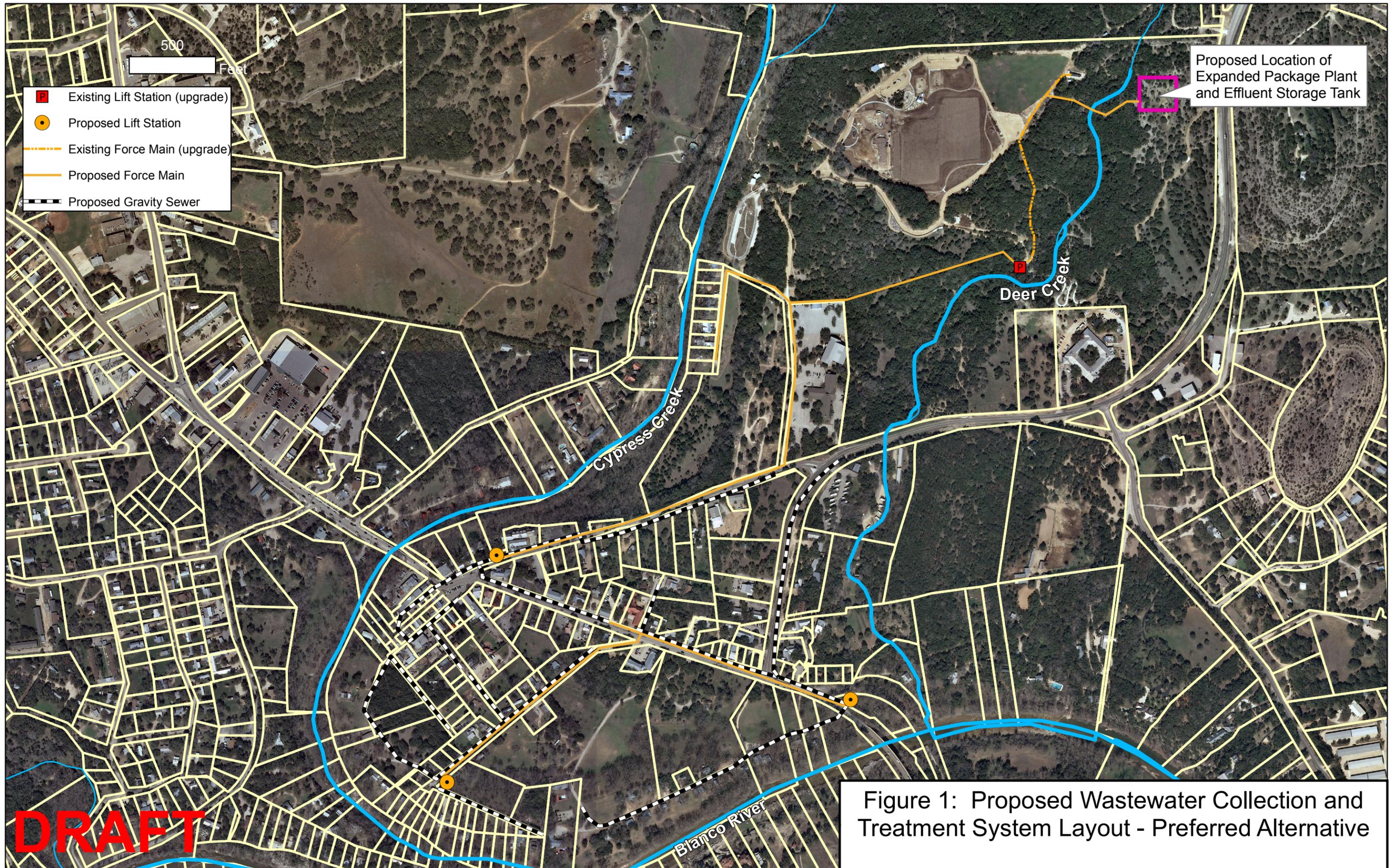


Figure 1: Proposed Wastewater Collection and Treatment System Layout - Preferred Alternative