



## **AGENDA MEMORANDUM**

Planning Commission Meeting of March 6, 2019

**DATE:** February 27, 2019

**TO:** Nina Nixon-Mendez, FAICP, Director, Development Services

**FROM:** Bill Green, P.E., Assisant Director, Development Services  
BillG@cctexas.com  
(361) 826-3268

Wastewater Collection System Master Plan Amendment for OSO W.R.P. Service Area Sub Basin SPA 30 for Azali Estates.

### **PURPOSE:**

The purpose of the amendment is to realign the planned collection line shown in the Wastewater Collection System Master Plan OSO W.R.P, Service Area Sub Basin SPA 30. The legal description for the subject property is Azali Estates. The subject tract is approximately 85 acres in area, located northeast of Yorktown Boulevard about 1.5 miles east of intersection of Rodd Field Road and Yorktown Boulevard.

### **BACKGROUND AND FINDINGS:**

The subject tract is currently situated within the Lift Station # 13 internal boundary. The Wastewater Collection System Master Plan OSO W.R.P. Service Area, Sub Basin SPA 30 (2006) (Exhibit A) shows a planned collection line beginning at the southerly end of the property, extending north across Master Channel 31 and then offsite to Lift Station 13. Lift Station 13 is operational but not at the location depicted on the master plan. The wastewater collection system described does not currently exist and there are no easements dedicated for the installation of the collection system.

The developer is proposing an amendment to the adopted SPA 30 wastewater master plan be considered which will allow the subject tract to be served by the as-built location of Lift Station 13. The service area of Lift Station 13 south of Master Channel 31 was recently amended and is shown on Exhibit B. The previous amendment decreased the service area of Lift Station 13 which results in a decrease of capacity needed in our collection system. The developer is requesting a change in size of the collection line from a 15-inch to 12-inch due to decrease in capacity requirements. A detailed analysis of the capacity of the systems are provided on the attached narrative for the requested amendment.

**RECOMMENDATION:**

Staff recommends approval of the proposed Wastewater Collection System Master Plan.

**LIST OF SUPPORTING DOCUMENTS:**

Narrative for the requested amendment

Exhibit A: Wastewater Collection System Master Plan for Oso W.R.P. Service Area Sub Basin SPA 30

Exhibit B: Wastewater Collection System Master Plan for Oso W.R.P. Service Area Sub Basin SPA 30 -  
Master Plan Realignment Amendment

MURRAY BASS, JR., P.E., R.P.L.S.  
NIXON M. WELSH, P.E., R.P.L.S.  
www.bass-welsh.com

3054 S. ALAMEDA, Zip 78404  
361 882-5521 ~ FAX 361 882-1265  
e-mail: murrayjr@aol.com  
e-mail: nixmw1@gmail.com

**BASS & WELSH ENGINEERING**  
Engineering Firm Reg. No. F-52  
Surveying Firm Reg. No. 100027-00  
P.O. Box 6397  
Corpus Christi, TX 78466-6397

February 26, 2019  
SPA30

**WASTE WATER COLLECTION SYSTEM MASTER PLAN  
OSO W.R.P. SERVICE AREA SPA-30 AMENDMENT NARRATIVE  
AZALI ESTATES**

**LOCATION**

SPA-30 is an area in the southeast part of the City bounded by Saratoga Boulevard and Brooke Road in the north, the Cayo del Oso in the east, the Oso Creek in the south, Cimarron Boulevard and a line parallel to Cimarron Boulevard in the west.

**PROPOSED CHANGE IN MASTER PLAN**

Azali Estates, the overall preliminary plat of which has been approved by the Planning Commission, lies directly across Channel 31 from the present location of Lift Station No. 13, thus the subject site is less than 200' from Lift Station No. 13. This proposed change in the Master Plan would better utilize proposed sewers within Azali Estates such that they would have to be simply oversized where needed and would allow for the elimination of a very deep 15" gravity sanitary sewer line on the northwest side of Master Drainage Channel 31 where Master Channel 31 runs in a northeast-southwest direction near the Oso Bay. This is shown on excerpt Master Plan map attached.

The proposed 12" line and 15" line would serve the subject Azali Estates (85 acres), 63 acres to the northwest of Azali Estates (Areas 13-16 and 20) and Area 17 to the southwest (32 acres) for a total of 180 acres. For 5 units per acre, 3 persons per unit, a peak flow of 0.93 MGD is produced. This flow is served by the proposed 12" and 15" lines as shown which have a capacity of 1.05 MGD and 1.6 MGD respectively.

**LAND USE INFORMATION**

All of the sub-basin land in the area of this proposed change is vacant except for two existing residences within the above described 75 acres, thus essentially and for practical purposes, is undeveloped. All of the land of the subject site and the area to the east is undeveloped.

**NO IMPACT ON LIFT STATION NO. 13**

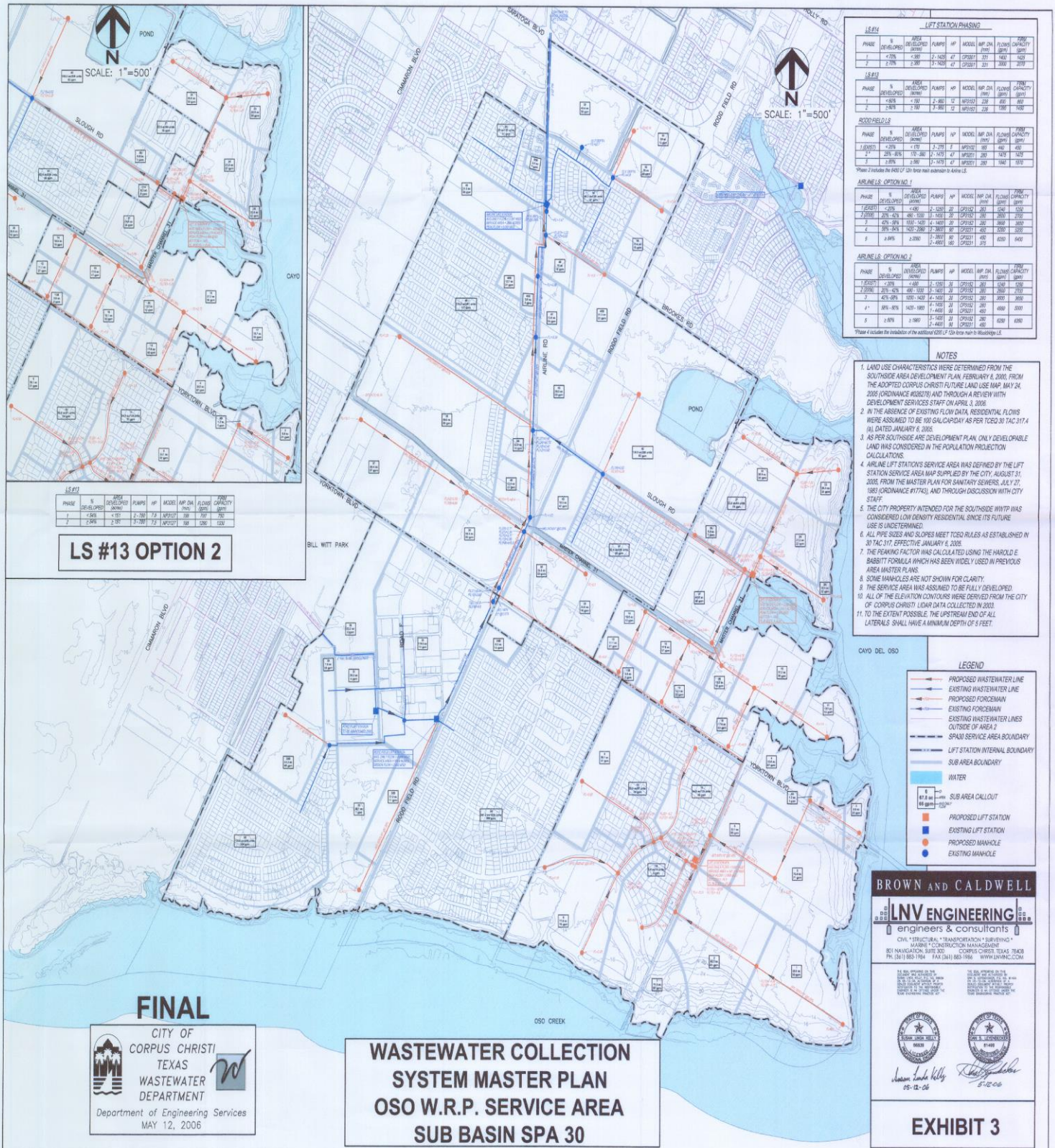
This proposed change will have no impact on Lift Station No. 13 as none of the sub-basin drainage areas will change.

  
Nixon M. Welsh, P.E.

NMW:sab



## EXHIBIT A





## EXHIBIT B

