

Phase 1 Flow Calculations

Residential
 Lambert Prop=300 lots
 Timbercreek Addition=234 lots
 Loftland Farms Addition=438 lots
 Meadowcreek III Addition=350 lots
TOTAL=1322 lots

The residential areas were assumed to be single family with densities of 2.9 persons per unit, with a residential flow of 120 gpcd and a peaking factor of 1.545.

$$Q = ((\text{total \# of lots} * 2.9 * 120) / (60 * 24)) * 1.545$$

$$Q = ((1322 * 2.9 * 120) / (60 * 24)) * 1.545$$

$$Q = 493.60 \text{ gpm}$$

Commerical
 Tomlinson
 Hellwig = 206 acres
 Texas Star

The industrial/commerical areas were assumed to have 6.11 employees per acre with a flow of 75 gpcd and peaking factor of 1.545.

$$Q = ((\text{total \# of acres} * 6.11 * 75) / (60 * 24)) * 1.545$$

$$Q = ((206 * 6.11 * 75) / (60 * 24)) * 1.545$$

$$Q = 101.3 \text{ gpm}$$

Total Flow for Phase 1 = 594.9 gpm

Phase 2 Flow Calculations

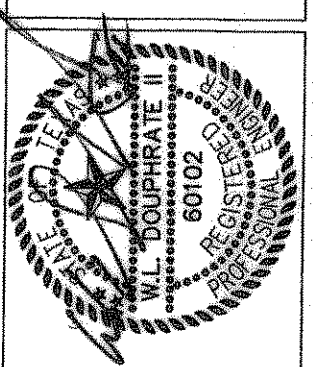
See Shimek, Jacobs, & Finklea calculations in the specifications

LEGEND

 PHASE 2 SERVICE AREA

RECORD DRAWINGS:

THE INTENT OF THE OWNER AND ENGINEER WAS TO CONSTRUCT THESE FACILITIES ACCORDING TO THESE PLANS AS APPROVED BY THE CITY OF Rockwall. THE LINES AND GRADES WERE SET ON THE GROUND FOR CONSTRUCTION ACCORDING TO SAID PLANS. THE CITY OF Rockwall INSPECTED THE CONSTRUCTION. THE OWNER NOR ENGINEER DID NOT VERIFY LINES OR GRADES AFTER CONSTRUCTION. WE ARE NOT AWARE OF ANY CHANGES OR REVISIONS TO THESE PLANS DURING CONSTRUCTION EXCEPT AS NOTED



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY W.L. DOUPHRAE II TEXAS P.E. NO. 60102 ON 1/15/04

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FLOW AREA WITH CALCULATIONS
MIMS ROAD REGIONAL LIFT STATION
 CITY OF ROCKWALL, ROCKWALL COUNTY

REVISION	
CHECKED	W.L.D.
DRAWN	A.J.W.
DATE	1/04/00
PROJECT	9825LS7