



- LEGEND**
- A AREA DESIGNATION
 - 0.45 AREA IN ACRES
 - FLOW ARROWS
 - PROPOSED INLETS
 - PROPOSED STORM SEWER SYSTEM
 - DRAINAGE AREA BOUNDARY
 - PP POWER POLE
 - GW GUY WIRE
 - SSMH SANITARY SEWER MANHOLE
 - EX. INLETS
 - EX. STORM SEWER
 - PROP. CONTOURS
 - EXIST. CONTOURS

Winkelmann & Associates, Inc. hereby certifies that the information herein was prepared by its duly licensed and qualified personnel in accordance with the standards of the State of Texas. The information herein is based on the data provided by the client and is not to be used for any other purpose without the written consent of Winkelmann & Associates, Inc. A field inspection was performed.

FEM
 WINKELMANN & ASSOCIATES, INC. 10-2-00

| INLET DESIGN CALCULATIONS | | PROJECT NAME | | LOFLAND FARMS, PHASE 1 | | BY | | D.A. | | | | | | | | |
|---------------------------|-------------------------------------|-------------------------------|----------------------|------------------------|-------------------|------------|--------------|-----------------------------------|----------------------------|--------------------------|---------------------------|--------------|-------------------|-------------------------|-------------|-----------------------------------|
| | | LINE NAME | | N/A | | DATE | | 12/3/99 | | | | | | | | |
| No. | Inlet Location | Design Storm Frequency (yrs.) | AREA RUNOFF | | | | | Carry-Over From Upstream (c.f.s.) | Total Gutter Flow (c.f.s.) | Gutter Capacity (c.f.s.) | Gutter Slope (ft./100ft.) | Crown Type | SELECTED INLET | | | Carry-Over To Downstream (c.f.s.) |
| | | | Time of Conc. (min.) | Intensity (in./hr.) | Runoff Coeff. "C" | Area (ac.) | "Q" (c.f.s.) | | | | | | Length "L" (feet) | Inlet Capacity (c.f.s.) | Type | |
| 1 | 2 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| A | STA. 13+30.67 WAGONWHEEL DRIVE (LT) | 100 | 10 | 9.8 | 0.50 | 1.08 | 5.29 | 0 | 5.29 | 21.86 | 1.00 | 6" PARABOLIC | 10' | 7.20 | C.I. | 0 |
| B | STA. 13+30.67 WAGONWHEEL DRIVE (RT) | 100 | 10 | 9.8 | 0.50 | 2.54 | 12.45 | 0 | 12.00 | 21.86 | 1.00 | 6" PARABOLIC | 15' | 12.00 | C.I. | 0.45 |
| C | STA. 0+53.00 ALLEY 3 (LT) | 100 | 10 | 9.8 | 0.50 | 2.28 | 11.17 | 0 | 11.17 | 20.00 | 0.74 | ALLEY | 15' | 11.50 | C.I. | 0 |
| D | STA. 13+80.38 FIELDCREST DRIVE (LT) | 100 | 10 | 9.8 | 0.50 | 1.35 | 6.62 | 0 | 6.62 | 16.93 | 0.60 | 6" PARABOLIC | 10' | 7.50 | C.I. | 0 |
| E | STA. 13+80.38 FIELDCREST DRIVE (RT) | 100 | 10 | 9.8 | 0.50 | 1.92 | 9.41 | 0 | 9.41 | 16.93 | 0.60 | 6" PARABOLIC | 10' | 7.50 | C.I. | 0 |
| F | STA. 3+49.84 ALLEY 4 (LT) | 100 | 10 | 9.8 | 0.50 | 2.50 | 12.25 | 0 | 12.25 | 19.00 | 2.53 | ALLEY | 15' | 12.50 | C.I. | 0 |
| G | STA. 0+50.50 ALLEY 4 (RT) | 100 | 10 | 9.8 | 0.50 | 1.02 | 5.00 | 0 | 5.00 | 19.00 | 0.60 | ALLEY | 10' | 6.30 | C.I. | 0 |
| H | STA. 0+50.00 TRAIL GLEN (RT) | 100 | 10 | 9.8 | 0.50 | 1.06 | 5.19 | 0.45 | 5.64 | 16.93 | 0.60 | 6" PARABOLIC | 10' | 7.50 | C.I. | 0 |
| I | STA. 0+50.00 TRAIL GLEN (LT) | 100 | 10 | 9.8 | 0.50 | 0.60 | 2.94 | 0 | 2.94 | 16.93 | 0.60 | 6" PARABOLIC | 5' | 3.10 | C.I. | 0 |
| J | STA. 2+21.55 ALLEY 2 (LT) | 100 | 10 | 9.8 | 0.50 | 1.84 | 9.02 | 0 | 9.02 | 20.70 | 0.82 | ALLEY | 15' | 11.50 | C.I. | 0 |
| K | STA. 0+52.50 DAYBREAK DRIVE (LT) | 100 | 10 | 9.8 | 0.50 | 1.97 | 9.65 | 0 | 9.65 | 16.93 | 0.60 | 6" PARABOLIC | 15' | 13.00 | C.I. | 0 |
| L | STA. 2+51.99 LOFLAND FARMS (RT) | 100 | 10 | 9.8 | 0.50 | 1.12 | 5.49 | 0 | 5.49 | SAG | SAG | 6" PARABOLIC | 5' | 10.50 | C.I. | 0 |
| M | STA. 8+45.00 DAYBREAK DRIVE (RT) | 100 | 10 | 9.8 | 0.50 | 1.78 | 8.72 | 0 | 8.72 | 25.87 | 1.40 | 6" PARABOLIC | 15' | 11.50 | C.I. | 0 |
| N | STA. 0+52.50 DAYBREAK DRIVE (RT) | 100 | 10 | 9.8 | 0.50 | 2.83 | 13.87 | 0 | 13.00 | 16.93 | 0.60 | 6" PARABOLIC | 15' | 13.00 | C.I. | 0.87 |
| O | STA. 5+82.78 ALLEY 1 (LT) | 100 | 10 | 9.8 | 0.50 | 4.22 | 20.68 | 0 | 20.68 | SAG | SAG | ALLEY | 10' | 25.50 | C.I. | 0 |
| P | STA. 9+37.12 TRAIL GLEN (RT) | 100 | 10 | 9.8 | 0.50 | 0.43 | 2.11 | 0.87 | 2.98 | 16.93 | 0.60 | 6" PARABOLIC | 5' | 3.10 | C.I. | 0 |
| Q | STA. 9+37.12 TRAIL GLEN (LT) | 100 | 10 | 9.8 | 0.50 | 0.73 | 3.57 | 0 | 3.57 | 16.93 | 0.60 | 6" PARABOLIC | 10' | 7.50 | C.I. | 0 |
| R | FUTURE DEVELOPMENT | 100 | 10 | 9.8 | 0.50 | 5.88 | 28.81 | 0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0 |
| S | FUTURE DEVELOPMENT | 100 | 10 | 9.8 | 0.50 | 2.65 | 12.99 | 0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0 |
| T | FUTURE DEVELOPMENT | 100 | 10 | 9.8 | 0.50 | 0.57 | 2.79 | 0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0 |
| U | FUTURE DEVELOPMENT | 100 | 10 | 9.8 | 0.50 | 3.19 | 15.63 | 0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0 |
| V | FUTURE DEVELOPMENT | 100 | 10 | 9.8 | 0.50 | 0.71 | 3.48 | 0 | 3.48 | SAG | SAG | 6" PARABOLIC | 5' | 10.50 | 5" MODIFIED | 0 |

BENCHMARK: ELEV. = 600.69
 CITY OF ROCKWALL R-19
 BRASS MONUMENT AT THE N/W CORNER OF
 SILVERVIEW & DIAMOND WAY. 500' ± SOUTH OF
 S.H. 276.

BENCHMARK: ELEV. = 583.56
 R.R. SPIKE SET IN THE CENTERLINE OF S.H. 276
 3600± WEST OF F.M. 549

DENOTES DRAINAGE TRIBUTARY TO STORM SEWER SYSTEM

| NO. | DATE | REVISION | APPROV. |
|-----|------|----------|---------|
| | | | |

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W.H. BAIRD SURVEY, ABSTRACT NO. 25
 CITY OF ROCKWALL
 ROCKWALL COUNTY, TEXAS
 CONTINENTAL HOMES
 621 WEST COLLEGE STREET
 GRAPEVINE, TEXAS 76051

DRAINAGE AREA MAP & CALCULATIONS

Scale: 1"=100' Date: 1-5-00
 Designed By: NK/DA
 Drawn By: DA
 Checked By: FEM
 File: 3200DM1.DWG View:
 Project No.: 32001.01

SHEET 1 OF 32