

| INLET NO. | LOCATION | DESIGN STORM FREQUENCY (YRS.) | AREA RUNOFF Q = CIA | | | | | CARRY-OVER FROM UPSTREAM INLET (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 INLET (C.F.S.) |
|-----------|-------------------------|-------------------------------|----------------------|-------------------------|-------------------|------------|----------------------------|---|----------------------------|--------------------------|---------------------------|------------|-------------------|------|---|
| | | | TIME OF CONC. (MIN.) | INTENSITY "I" (IN./HR.) | RUNOFF COEFF. "C" | AREA (AC.) | "T _c " (C.F.S.) | | | | | | LENGTH "L" (FEET) | TYPE | |
| 1 | EXISTING ALLEY | 100 | 10 | 9.8 | 0.50 | 1.37 | 6.7 | 0 | 4.1 | 10 | 1.09 | INV. | 10 | CURB | 0.5 |
| 2 | STA 8+10 WIND HILL ROAD | 100 | 10 | 9.8 | 0.50 | 2.25 | 11.0 | 0.5 | 13.8 | 14 | SAG | PAR. | 10 | CURB | 0 |
| 3 | STA 8+15 WIND HILL ROAD | 100 | 10 | 9.8 | 0.50 | 1.21 | 5.9 | 0 | 5.9 | 14 | SAG | PAR. | 10 | CURB | 0 |

| DRAINAGE CALCULATIONS | | | | | | |
|-----------------------|------|------|------------------|----------------|------------------|-------------|
| AREA NO. | AREA | C | I ₁₀₀ | T _c | Q ₁₀₀ | REMARKS |
| 1 | 0.84 | 0.50 | 9.8 | 10 | 4.1 | INLET NO. 1 |
| 2 | 2.81 | 0.50 | 9.8 | 10 | 13.8 | INLET NO. 2 |
| 3 | 1.21 | 0.50 | 9.8 | 10 | 5.9 | INLET NO. 3 |

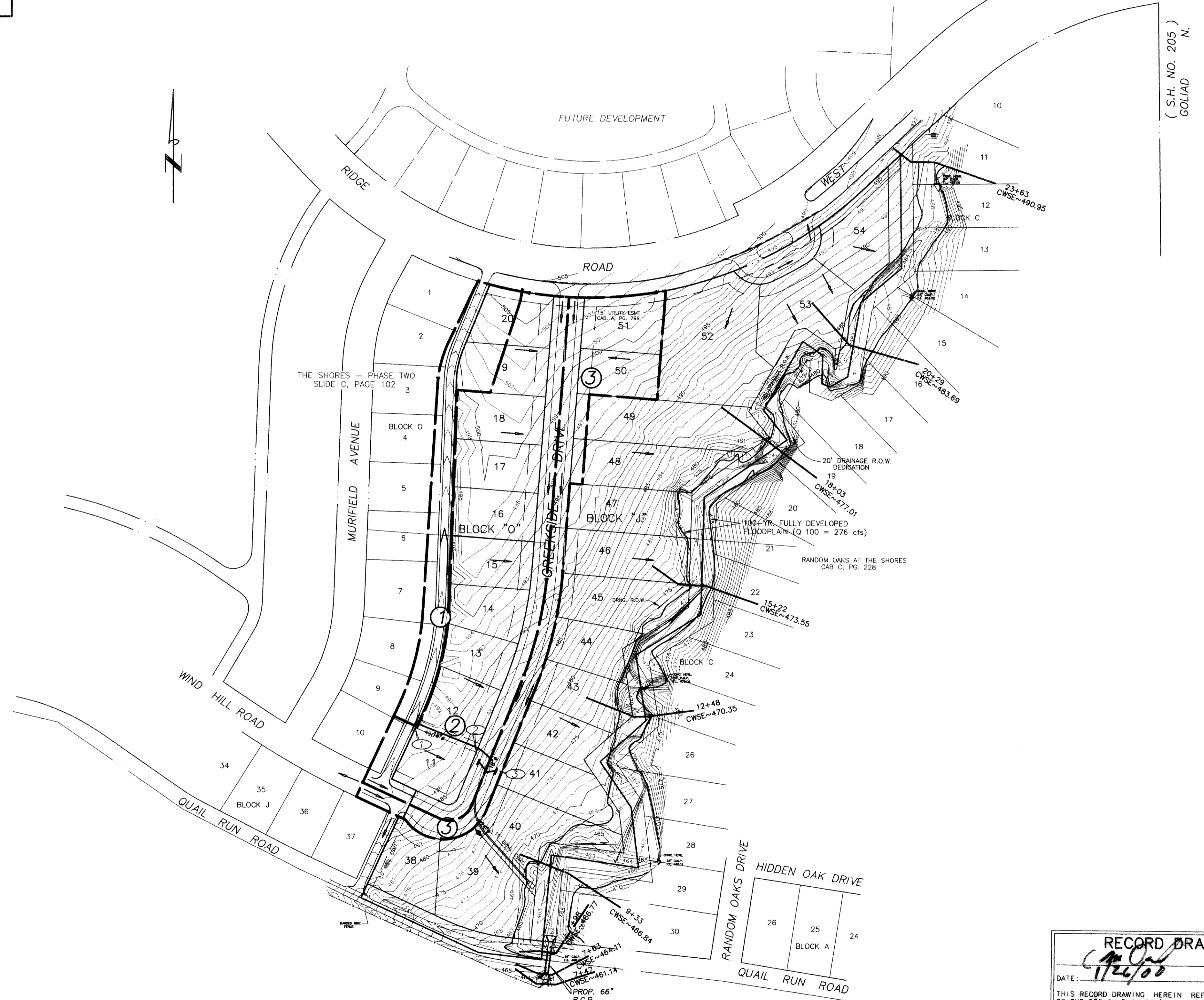


OFFSITE DRAINAGE AREA

64.0 ACRES
276 Q₁₀₀

CRITERIA
Q = CIA
C = 0.52
I = 8.30
T_c = 20 min.

BENCHMARKS:
BRASS DISK IN CONC. MONUMENT, 50'± NORTH OF BACK OF CURB ON THE NORTH SIDE OF RIDGE ROAD WEST 500'± EAST OF MURFIELD DRIVE (CITY OF ROCKWALL MONUMENT #9)
ELEV. 502.67
BRASS DISK IN CONC. MONUMENT, IN MEDIAN OF NORTH LAKESHORE DRIVE 150'± NORTH OF ALAMO DRIVE (CITY OF ROCKWALL MONUMENT #10)
ELEV. 524.62



RECORD DRAWING
DATE: 1/22/00
THIS RECORD DRAWING HEREIN REFLECTS TO THE BEST OF THE DESIGN ENGINEER'S KNOWLEDGE THE APPROXIMATE LOCATION OF THE CONSTRUCTED WORK USING INFORMATION AS PROVIDED BY THE CONTRACTOR(S).

NOTE: CALCULATED WATER SURFACE ELEVATIONS (CWSE) BASED ON STUDY BY NATHAN D. MAIER CONSULTING ENGINEERS DATED FEBRUARY, 1997.



| revisions | date |
|--------------------------------|------------|
| REVISED PER CITY REVIEW | APR. 1997 |
| REVISED | 8-21-97 |
| REVISED 100 YEAR WATER SURFACE | SEPT. 1999 |

NDM
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| | | | | |
|---|------------------|--------------------|-----------------|-----------------------------|
| DRAINAGE AREA MAP CREEKSIDE THE SHORES CITY OF ROCKWALL ROCKWALL COUNTY, TEXAS | | | | sheet no. 6 17 |
| design TWA | drawn TWA/LJM | scale 1" = 100' | date 2-10-97 | notes L-DA |
| job number 95-05-036.L | | | | |

(S.H. NO. 205)
GOLIAD N.