

LEGEND

- 6 (in circle) = DRAINAGE AREA NO.
- AREA IN ACRES
- PROPOSED DRAINAGE DIVIDE
- ==== PROPOSED STORM SEWER SYSTEM

$\Delta = 13'11.28"$
 $R = 1005.00'$
 $T = 116.20'$
 $L = 231.38'$
 $CD = 230.87'$
 $CB = N 83'31.34" E$

DRAINAGE CALCULATIONS

AREA NO.	AREA (ACRES)	RUNOFF COEFF. "C"	TIME OF CONC. "tc"	INTENSITY (IN./HR)	$Q_{100} = 100$ (c.f.a.)	COMMENTS
1	1.42	0.54	8.50	9.1	6.98	DRAINS TO MIDWAY RD.
2	1.21	0.65	17.03	7.3	6.74	DRAINS TO EXIST. 10' INLET
3	2.01	0.49	18.69	7.0	6.89	DRAINS TO PROP. 10' INLET
4	0.25	0.90	5.00	10.5	2.36	ROOF DRAINS
5	0.75	0.88	16.17	7.5	4.95	DRAINS TO PROP. 10' INLET
6	0.32	0.90	5.00	10.5	3.02	ROOF DRAINS
7	1.17	0.90	13.33	8.0	8.42	DRAINS TO PROP. 10' INLET, THEN TO POND "2"
8	4.48	0.35	5.80	10.0	15.68	DRAINS INTO POND "1"
9	0.70	0.90	11.80	8.2	5.17	DRAINS TO PROP. 8' INLET, THEN TO POND "2"
10	0.20	0.35	5.00	10.5	0.74	POND "2"
11	2.81	0.90	5.51	10.6	26.81	DRAINS TO MIDWAY RD.

- POND NO. 1 HAS A STORAGE VOLUME OF 76,387 CUBIC FEET. THE 100-YEAR W.S. ELEVATION IS 620.00. IT HAS BEEN DESIGNED TO PICK UP ALL OF AREA NO. 8 FOR FULLY DEVELOPED CONDITIONS AND HAS A MAXIMUM ALLOWABLE RELEASE RATE OF 5 CFS.
- POND NO. 2 HAS A STORAGE VOLUME OF 19,738 CUBIC FEET. THE 100-YEAR W.S. ELEVATION IS 623.00. IT HAS BEEN DESIGNED TO PICK UP THE DISCHARGE FROM AREAS 7, 9, AND 10. IT HAS A MAXIMUM DISCHARGE RATE OF 5 CFS.
- STORM SEWER LINE "A" HAS BEEN DESIGNED TO PICK UP THE EXISTING RESTAURANT SITE IN ITS EXISTING CONDITION. ANY DEVELOPMENT OF AREAS 1 OR 3 WHICH WOULD INCREASE RUN-OFF, MUST MEET THE TOWN OF ADDISON DRAINAGE CRITERIA FOR DETENTION.
- EXISTING FLOW TO MIDWAY ROAD IS 35.97 CFS; PROPOSED 33.79 CFS.

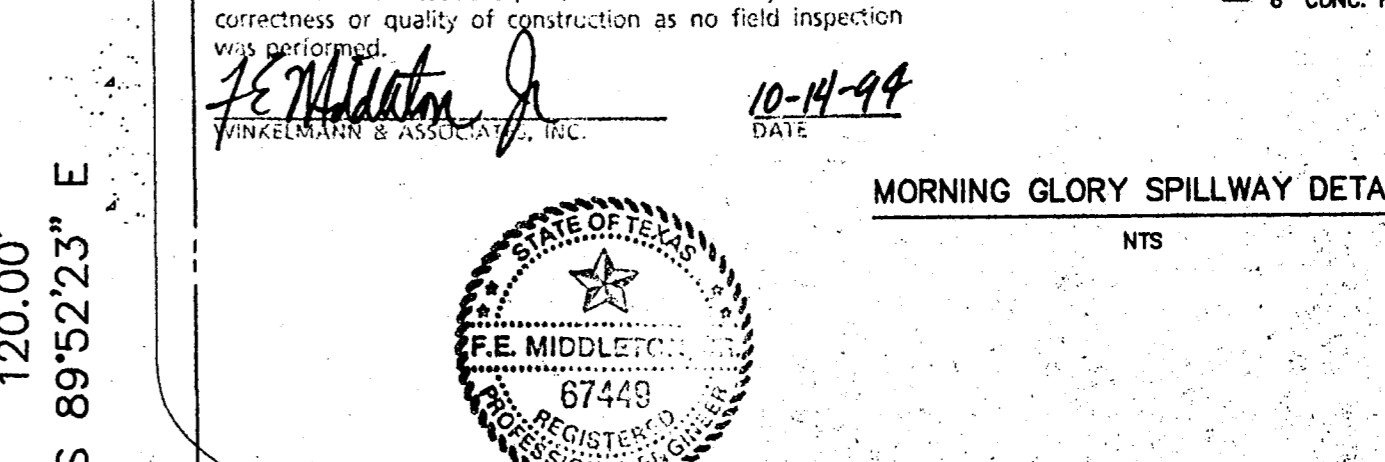
DRAINAGE CRITERIA

- Q = CIA
- Q = 100 YEAR STORM
- C = COEFFICIENT OF RUN-OFF: 0.90 (PAVED AREA); 0.35 (GRASS AREA)
- I = INTENSITY, FROM HYDRO-35, DATED JUNE, 1977
- A = DRAINAGE AREA IN ACRES

AS BUILT

Winkelmann & Associates, Inc. hereby certifies that this plan, to the best of our knowledge is "As Built." All modifications from the originally approved construction documents have been made as per information provided by the contractor. Winkelmann & Associates, Inc. does not certify as to the correctness or quality of construction as no field inspection was performed.

[Signature]
WINKELMANN & ASSOCIATES, INC.
DATE: 10-14-99



BENCHMARK NO. 1:
"I" CUT IN CURB LOCATED ON NORTHEAST CORNER OF AN INLET ON THE WEST SIDE OF MIDWAY ROAD APPROXIMATELY 911 FEET SOUTH OF BELTWAY DRIVE. ELEV. = 615.72

BENCHMARK NO. 2:
"I" CUT IN CURB LOCATED ON SOUTH SIDE OF BELTWAY DRIVE APPROXIMATELY 627 FEET EAST OF MIDWAY ROAD. ELEV. = 631.63

NO.	REVISION	DATE	BY	APPROVED
3	2-2-94			
2	1-7-94			
1	12/6/93			

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CLIENT:
14002 PROUDMAN ROAD, SUITE 200
DALLAS, TEXAS 75244

DRAINAGE PLAN

Scale: 1" = 50' Date: 10/93
Designed By: T.L.
Drawn By: T.L.
Checked By: F.E.M.
File: 15602STM.dwg
Project No.: 15602.01

SHEET 5 OF 18