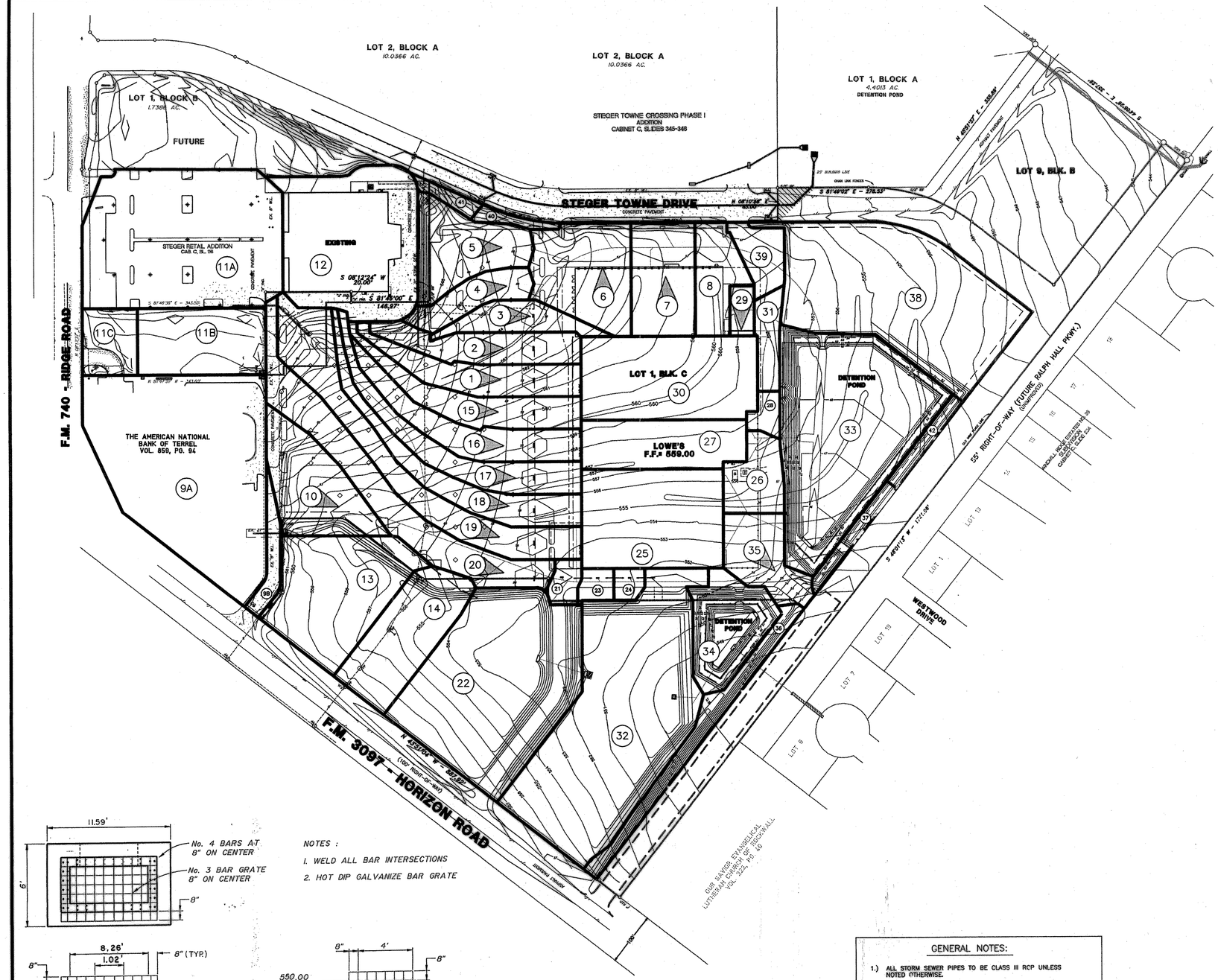
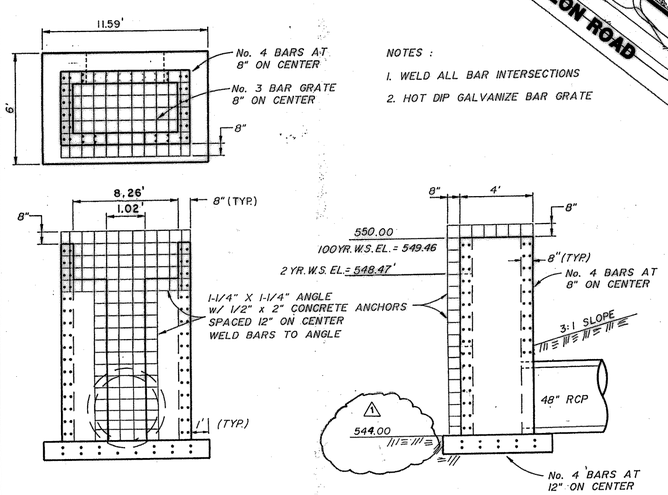


DRAINAGE SUMMARY

D.A. NO.	AREA (ACRES)	RUNOFF "C"	I_5 (IN./HR.)	I_{10} (IN./HR.)	I_{25} (IN./HR.)	I_{100} (IN./HR.)	Q_5 (IN./HR.)	Q_{10} (IN./HR.)	Q_{25} (IN./HR.)	Q_{100} (C.F.S.)	Q_{25} (TOTAL)	Q_{100} (TOTAL)	REMARKS
1	0.50	0.80	6.2	7.3	8.3	9.8	2.5	2.9	3.3	3.9	3.3	3.9	TO 3 G.I.
2	0.47	0.80	6.2	7.3	8.3	9.8	2.3	2.7	3.1	3.7	6.4	7.6	TO 3 G.I.
3	0.30	0.80	6.2	7.3	8.3	9.8	1.5	1.8	2.0	2.4	8.4	10.0	TO 2 G.I.
4	0.30	0.80	6.2	7.3	8.3	9.8	1.5	1.8	2.0	2.4	10.4	12.4	TO 2 G.I.
5	0.61	0.80	6.2	7.3	8.3	9.8	3.0	3.6	4.0	4.8	14.4	17.2	TO 4 G.I.
6	0.77	0.80	6.2	7.3	8.3	9.8	3.8	4.5	5.1	6.0	19.5	23.2	TO 5' C.I.
7	0.59	0.80	6.2	7.3	8.3	9.8	2.9	3.5	3.9	4.6	23.4	27.8	TO 5' C.I.
8	0.37	0.80	6.2	7.3	8.3	9.8	1.8	2.2	2.5	2.9	25.9	30.7	TO 5' C.I.
9A	2.50	0.80	6.2	7.3	8.3	9.8	12.4	14.6	16.6	19.6	18.6	22.0	TO EX. 24" RCP
9B	0.15	0.80	6.2	7.3	8.3	9.8	0.7	0.9	1.0	1.2	19.6	23.2	TO 5' C.I.
10	0.71	0.80	6.2	7.3	8.3	9.8	3.5	4.2	4.7	5.6	24.3	28.8	TO 10' C.I.
11A	2.16	0.80	6.2	7.3	8.3	9.8	10.7	12.6	14.3	16.9	14.3	16.9	TO EX. 10' C.I.
11B	0.69	0.80	6.2	7.3	8.3	9.8	3.4	4.0	4.6	5.4	18.9	22.3	FUTURE STORM DRAIN SYSTEM
11C	0.30	0.80	6.2	7.3	8.3	9.8	1.5	1.8	2.0	2.4	2.0	2.4	TO D.A. 9A
12	1.55	0.80	6.2	7.3	8.3	9.8	7.7	9.1	10.3	12.2	29.2	34.5	TO EX. 10' C.I.
13	1.12	0.80	6.2	7.3	8.3	9.8	5.6	6.5	7.4	8.8	7.4	8.8	TO 10' C.I.
14	0.77	0.80	6.2	7.3	8.3	9.8	3.8	4.5	5.1	6.0	12.5	14.8	TO 10' C.I.
15	0.51	0.80	6.2	7.3	8.3	9.8	2.5	3.0	3.4	4.0	3.4	4.0	TO 3 G.I.
16	0.56	0.80	6.2	7.3	8.3	9.8	2.8	3.3	3.7	4.4	7.1	8.4	TO 3 G.I.
17	0.56	0.80	6.2	7.3	8.3	9.8	2.8	3.3	3.7	4.4	10.8	12.8	TO 3 G.I.
18	0.57	0.80	6.2	7.3	8.3	9.8	2.8	3.3	3.8	4.5	14.6	17.3	TO 3 G.I.
19	1.03	0.80	6.2	7.3	8.3	9.8	5.1	6.0	6.8	8.1	21.4	25.4	TO 3 G.I.
20	1.01	0.80	6.2	7.3	8.3	9.8	5.0	5.9	6.7	7.9	94.1	111.4	TO 3 G.I.
21	0.11	0.80	6.2	7.3	8.3	9.8	0.5	0.6	0.7	0.9	94.8	112.3	TO 2 G.I.
22	2.10	0.80	6.2	7.3	8.3	9.8	10.4	12.3	13.9	16.5	108.7	128.8	FUTURE STORM DRAIN SYSTEM
23	0.08	0.80	6.2	7.3	8.3	9.8	0.4	0.5	0.5	0.6	109.2	129.4	TO 2 G.I.
24	0.08	0.80	6.2	7.3	8.3	9.8	0.4	0.5	0.5	0.6	109.7	130.0	TO 2 G.I.
25	1.13	0.80	6.2	7.3	8.3	9.8	5.6	6.6	7.5	8.9	7.5	8.9	TO ROOF DRAIN SYSTEM
26	0.33	0.80	6.2	7.3	8.3	9.8	1.6	1.9	2.2	2.6	9.7	11.5	TO 5' C.I.
27	0.64	0.80	6.2	7.3	8.3	9.8	3.2	3.7	4.3	5.0	4.3	5.0	TO ROOF DRAIN SYSTEM
28	0.10	0.80	6.2	7.3	8.3	9.8	0.5	0.6	0.7	0.8	5.0	5.8	TO 5' C.I.
29	0.10	0.80	6.2	7.3	8.3	9.8	0.5	0.6	0.7	0.8	0.7	0.8	TO TRENCH DRAIN
30	1.19	0.80	6.2	7.3	8.3	9.8	5.9	7.0	7.9	9.3	8.6	10.1	TO ROOF DRAIN SYSTEM
31	0.19	0.80	6.2	7.3	8.3	9.8	0.9	1.1	1.3	1.5	9.9	11.6	TO 5' C.I.
32	2.59	0.80	6.2	7.3	8.3	9.8	12.9	15.1	17.2	20.3	17.2	20.3	FUTURE STORM DRAIN SYSTEM
33	2.13	0.80	6.2	7.3	8.3	9.8	10.6	12.4	14.1	16.7	14.1	16.7	DETENTION POND
34	0.55	0.80	6.2	7.3	8.3	9.8	2.7	3.2	3.7	4.3	3.7	4.3	DETENTION POND
35	0.50	0.80	6.2	7.3	8.3	9.8	2.5	2.9	3.3	3.9	3.3	3.9	TO RALPH HALL RD. ROW
36	0.40	0.80	6.2	7.3	8.3	9.8	2.0	2.3	2.7	3.1	2.7	3.1	TO RALPH HALL RD. ROW
37	0.13	0.80	6.2	7.3	8.3	9.8	0.6	0.8	0.9	1.0	0.9	1.0	TO RALPH HALL RD. ROW
38	2.19	0.80	6.2	7.3	8.3	9.8	10.9	12.8	14.5	17.2	14.5	17.2	TO RALPH HALL RD. ROW
39	0.23	0.80	6.2	7.3	8.3	9.8	1.1	1.3	1.5	1.8	1.5	1.8	TO STEGER TOWNE DR. ROW
40	0.07	0.80	6.2	7.3	8.3	9.8	0.3	0.4	0.5	0.6	0.5	0.6	TO STEGER TOWNE DR. ROW
41	0.08	0.80	6.2	7.3	8.3	9.8	0.4	0.5	0.5	0.6	0.5	0.6	TO STEGER TOWNE DR. ROW
42	0.11	0.80	6.2	7.3	8.3	9.8	0.5	0.6	0.7	0.9	0.7	0.9	TO RALPH HALL RD. ROW



NOTES :

1. WELD ALL BAR INTERSECTIONS
2. HOT DIP GALVANIZE BAR GRATE

OUTFALL DETAIL

SCALE 1" = 4'

GENERAL NOTES:

1.) ALL STORM SEWER PIPES TO BE CLASS III RCP UNLESS NOTED OTHERWISE.

2.) ALL INLET CONSTRUCTION AND STORM SEWER INSTALLATION TO BE IN ACCORDANCE WITH CITY OF ROCKWALL STANDARDS.

3.) PRIOR TO CONSTRUCTION CONTRACTOR WILL CONTACT ALL PRIVATE UTILITY COMPANIES TO LOCATE THEIR RESPECTIVE SYSTEMS.

4.) ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR THE PUBLIC WORKS CONSTRUCTION PER THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS LATEST EDITION, AND ANY SPECIAL PROVISION AS APPROVED BY THE DIRECTOR OF PUBLIC WORKS.

5.) DURING THE CONSTRUCTION OF THESE IMPROVEMENTS, ANY INTERPRETATION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND ANY MATTER WHICH REQUIRES THE APPROVAL OF THE OWNER MUST BE APPROVED BY THE DIRECTOR OF PUBLIC WORKS OR HIS DESIGNEE BEFORE ANY CONSTRUCTION INVOLVING THAT DECISION COMMENCES.

ASSUMPTIONS ABOUT WHAT THESE DECISIONS MIGHT BE WHICH ARE MADE DURING THE BIDDING PHASE WILL HAVE NO BEARING ON THE DECISION.

6.) FOR ADJUSTMENT OF ROCKWALL WATER UTILITIES APPURTENCES OR TO VERIFY LOCATIONS OF EXISTING WATER AND WASTEWATER MAINS IN AREA, CONTACT GEORGE BARNETT AT (972) 771-7731 AT LEAST (3) THREE WORKING DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.

LEGEND

(12) DRAINAGE AREA

DRAINAGE DIVIDE

B.M.
CITY OF ROCKWALL CONTROL MONUMENT #6
ELEVATION = 556.17

T.B.M.
N.E. CORNER OF STEIN MART TRACT RIM OF S.S. MANHOLE
ELEVATION = 571.75

N

0 50' 100' 200'

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY LAWRENCE A. CATES, P.E. 41838 ON 08/26/97

STATE OF TEXAS
LAWRENCE A. CATES
41838
REGISTERED
PROFESSIONAL ENGINEER

REV.	DATE	REMARKS
1	1/09/98	REV. OUTLET TO MATCH DRG. PLAN

DRAINAGE AREA MAP

LOT 1, BLK. C – STEGER TOWNE CROSSING PHASE II

LOWE'S – RIDGE ROAD & HORIZON ROAD

ROCKWALL, TEXAS

LAWRENCE A. CATES & ASSOC., INC.
14200 MIDWAY ROAD, SUITE 122 (972) 385-2272
CONSULTING ENGINEERS
DALLAS, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
LAC	LAC	7/22/97	1"= 100'	D.P.	97036 DAMAP	C– 12

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