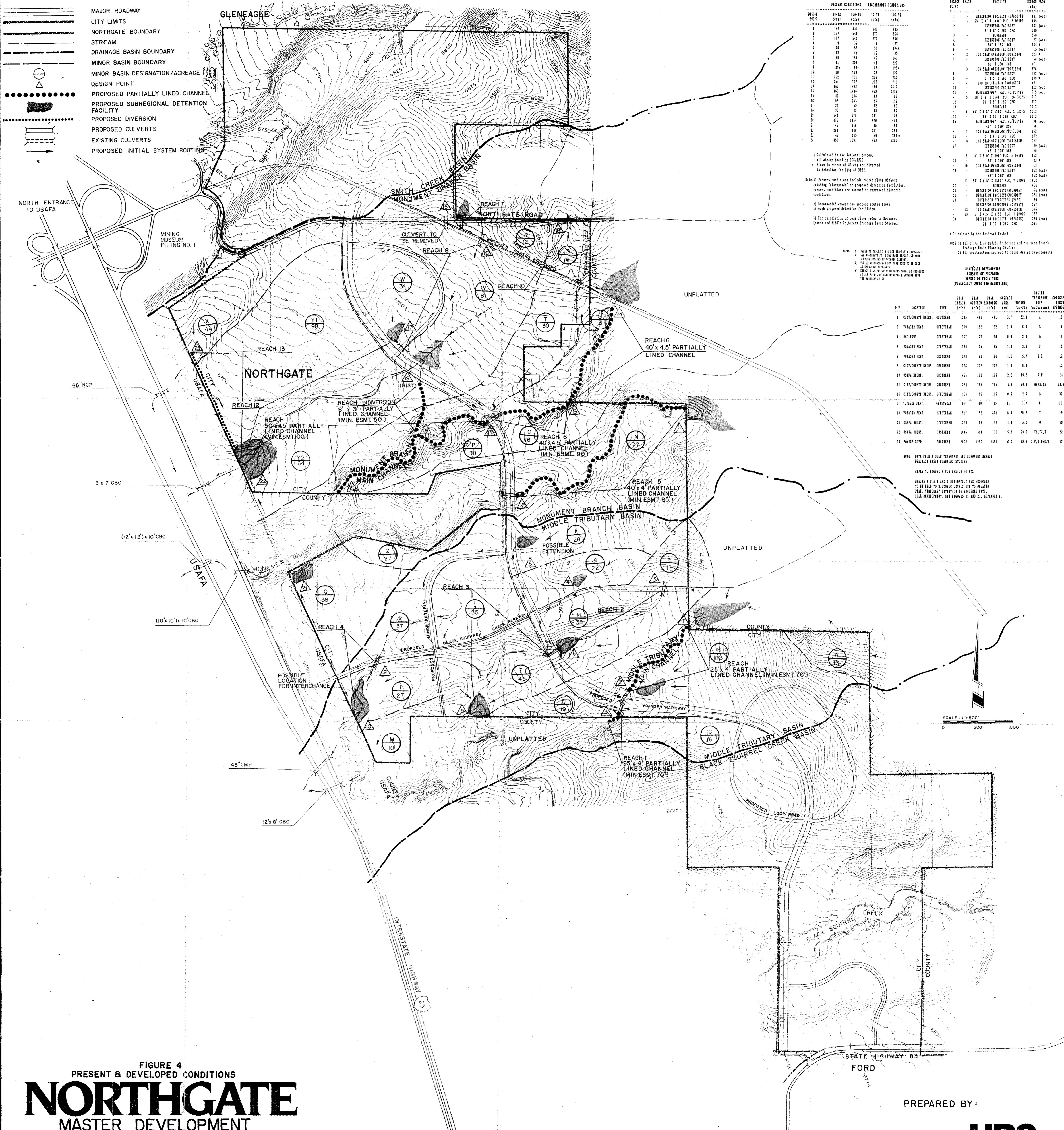


LEGEND

- MAJOR ROADWAY
- CITY LIMITS
- NORTHGATE BOUNDARY
- STREAM
- DRAINAGE BASIN BOUNDARY
- MINOR BASIN BOUNDARY
- MINOR BASIN DESIGNATION/ACREAGE
- DESIGN POINT
- PROPOSED PARTIALLY LINED CHANNEL
- PROPOSED SUBREGIONAL DETENTION FACILITY
- PROPOSED DIVERSION
- PROPOSED CULVERTS
- EXISTING CULVERTS
- PROPOSED INITIAL SYSTEM ROUTING



NORTHGATE DEVELOPMENT DESIGN PEAK FLOWS FOR PRESENT AND RECOMMENDED CONDITIONS

REACH	PRESENT CONDITIONS		RECOMMENDED CONDITIONS	
	10-YR	100-YR	10-YR	100-YR
DESIGN POINT	1670	18078	1870	18078
1	242	6261	1061	16261
2	377	540	377	540
3	30	35	30	35
4	122	40	122	40
5	40	181	40	181
6	41	202	41	202
7	274	640	1061	16261
8	28	120	28	120
9	252	765	252	765
10	254	797	252	765
11	463	1440	469	1212
12	460	1448	469	1212
13	43	100	43	100
14	40	147	40	147
15	22	39	22	39
16	22	39	22	39
17	22	39	22	39
18	22	39	22	39
19	141	278	141	278
20	470	1434	470	1434
21	48	130	48	130
22	261	730	261	730
23	42	115	40	101
24	433	1281	433	1281

NORTHGATE DEVELOPMENT PROPOSED PUBLIC DRAINAGE FACILITIES

DESIGN REACH	FACILITY	DESIGN FLOW (CFS)
1	DETENTION FACILITY (OFFSITE)	441 (cfs)
2	DETENTION FACILITY (OFFSITE)	182 (cfs)
3	DETENTION FACILITY (OFFSITE)	104 (cfs)
4	DETENTION FACILITY (OFFSITE)	27 (cfs)
5	DETENTION FACILITY (OFFSITE)	104 (cfs)
6	DETENTION FACILITY (OFFSITE)	15 (cfs)
7	100 YEAR OVERFLOW PROTECTION	323 (cfs)
8	DETENTION FACILITY (OFFSITE)	18 (cfs)
9	100 YEAR OVERFLOW PROTECTION	274 (cfs)
10	DETENTION FACILITY (OFFSITE)	202 (cfs)
11	100 YEAR OVERFLOW PROTECTION	389 (cfs)
12	DETENTION FACILITY (OFFSITE)	482 (cfs)
13	DETENTION FACILITY (OFFSITE)	122 (cfs)
14	DETENTION FACILITY (OFFSITE)	756 (cfs)
15	40' x 4' x 1.240' P.C. 2 BRGDS	117 (cfs)
16	20' x 8' x 1.100' P.C. 2 BRGDS	107 (cfs)
17	20' x 8' x 1.100' P.C. 2 BRGDS	107 (cfs)
18	40' x 4' x 1.240' P.C. 2 BRGDS	117 (cfs)
19	100 YEAR OVERFLOW PROTECTION	122 (cfs)
20	DETENTION FACILITY (OFFSITE)	80 (cfs)
21	40' x 4' x 1.240' P.C. 2 BRGDS	117 (cfs)
22	100 YEAR OVERFLOW PROTECTION	122 (cfs)
23	DETENTION FACILITY (OFFSITE)	80 (cfs)
24	100 YEAR OVERFLOW PROTECTION	122 (cfs)

NORTHGATE DEVELOPMENT SUBREGIONAL DETENTION FACILITIES (PUBLIC USE AND UNPLATTED)

D.P.	LOCATION	TYPE	PEAK CFS	PEAK SF	PEAK SF/ACRE	DESIGN FLOW (CFS)	DESIGN SF	DESIGN SF/ACRE	APPROX. A
1	CITY/COUNTY BNDY.	OFFSTREAM	1845	441	441	187	27	22.4	8
2	POYAGER PENT.	OFFSTREAM	259	162	162	130	6.9	6.0	8
4	BSC PENT.	OFFSTREAM	137	27	27	20	0.9	2.3	5
6	POYAGER PENT.	OFFSTREAM	120	35	45	1.0	3.0	7	10
7	POYAGER PENT.	OFFSTREAM	270	80	80	1.0	5.7	8.0	12
8	CITY/COUNTY BNDY.	OFFSTREAM	270	262	262	1.4	6.3	1	13
10	USFA PENT.	OFFSTREAM	661	120	120	2.2	10.0	2-8	14
11	CITY/COUNTY BNDY.	OFFSTREAM	1384	755	755	4.6	22.4	OFFSITE	23,24
12	CITY/COUNTY BNDY.	OFFSTREAM	153	84	106	0.6	2.9	8	21
17	POYAGER PENT.	OFFSTREAM	167	80	85	1.1	2.9	8	20
19	POYAGER PENT.	OFFSTREAM	617	152	270	3.8	23.2	7	19
21	USFA PENT.	OFFSTREAM	220	54	116	1.4	5.0	6	18
22	USFA PENT.	OFFSTREAM	1846	384	730	5.3	23.9	OFFSITE	21,22,24
24	POYAGER PENT.	OFFSTREAM	2010	1200	1201	6.0	28.9	OFFSITE	17

NOTES:

- 1) REFER TO FIGURE 2 & 4 FOR 100-YEAR OVERFLOW PROTECTION.
- 2) SEE MONUMENT BRANCH BASIN PLANNING STUDY FOR MORE DETAILED INFORMATION ON THIS FACILITY.
- 3) TOP OF CHANNEL AND PIPES SHALL BE AS SHOWN ON MONUMENT BRANCH PLANNING STUDY.
- 4) MONUMENT BRANCH PLANNING STUDY SHALL BE REVIEWED FOR ANY CHANGES TO THIS FACILITY.
- 5) FOR CALCULATION OF PEAK FLOW REFER TO MONUMENT BRANCH AND MIDDLE TRIBUTARY DRAINAGE BASIN STUDIES.

SCALE: 1" = 500'

FIGURE 4
PRESENT & DEVELOPED CONDITIONS
NORTHGATE
MASTER DEVELOPMENT
DRAINAGE PLAN
(MONUMENT BRANCH &
MIDDLE TRIBUTARY BASINS)

"City/County plan review is provided only for general conformance with City/County Design Criteria. The City/County is not responsible for the accuracy and adequacy of the design, dimensions, and/or elevations which shall be confirmed at the job site. The City/County through the approval of this document assumes no responsibility for completeness and/or accuracy of this document."

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