
VICINITY MAP
SCALE 1" = 2000'
SITE
(UNDEVELOPED, SCATTERED STRUCTURES)
(SINGLE-FAMILY ESTATES)
WOODMAN ROAD
60' ROW
DRY CREEK
DAIRY RANCH ROAD
STRUCTURE NO. 1 BOX CULVERT
STRUCTURE NO. 2 BOX CULVERT
STRUCTURE NO. 3 (BRIDGE)
STRUCTURE NO. 4 (BRIDGE)
DETENTION POND
FUTURE ELEMENTARY SCHOOL
(SHEET FLOW)
SINGLE FAMILY ESTATES
(UNDEVELOPED)
(SINGLE FAMILY ESTATES)
MT. WOODMEN ESTATES FILING NO. 2
(UNDEVELOPED)
MT. WOODMEN ESTATES FILING NO. 6
DISCOVERY SUBDIVISION FILING NO. 6
A
B
C
D
E
F
G
LEGEND
MAJOR BASIN BOUNDARY
SUB BASIN BOUNDARY
MAJOR BASIN DESIGNATION
SUB-BASIN DESIGNATION AREA IN ACRES
DESIGN STORM (5 yr.) RUNOFF (c.f.s.)
MAJOR STORM (100 yr.) RUNOFF (c.f.s.)
EXISTING STORM SEWER WITH INLET AND MANHOLE
FUTURE STORM SEWER WITH INLET AND MANHOLE
PROPOSED STORM SEWER WITH INLET AND MANHOLE
CROSS PAN
100 YR FLOOD PLAIN (DESIGN)
EXISTING ELEVATION
SECTION A-A
n = 0.035 s = 1.1%
Qdesign = 55 cfs @ d = 0.5 ft
V = 5.5 fps
Qcapacity = 348 cfs @ d = 1.0 ft
SECTION B-B
n = 0.035 s = 2.25%
Qdesign = 316 cfs @ d = 1.3 ft
V = 4.7 fps
Qcapacity = 99.9 cfs @ d = 2.0 ft
SECTION C-C
n = 0.035 s = 1.83%
Qdesign = 41.8 cfs @ d = 1.5 ft
V = 4.6 fps
Qcapacity = 90.1 cfs @ d = 2.0 ft
SECTION D-D
n = 0.035 s = 3.65%
Qdesign = 15.1 cfs @ d = 0.9 ft
V = 4.7 fps
Qcapacity = 59.1 cfs @ d = 1.5 ft
SECTION E-E
n = 0.035 s = 1.0%
Qdesign = 1.7 cfs @ d = 0.5 ft
V = 1.7 fps
Qcapacity = 10.5 cfs @ d = 1.0 ft
SECTION F-F
n = 0.035 s = 1.0%
Qdesign = 1.7 cfs @ d = 0.5 ft
V = 1.7 fps
Qcapacity = 10.5 cfs @ d = 1.0 ft
SECTION G-G
n = 0.035 s = 5.7%
Qdesign = 9.7 cfs @ d = 0.7 ft
V = 4.9 fps
Qcapacity = 25.1 cfs @ d = 1.0 ft
SECTION H-H
n = 0.035 s = 1.61%
Qdesign = 63.8 cfs @ d = 1.8 ft
V = 4.9 fps
Qcapacity = 153.5 cfs @ d = 2.5 ft
SECTION I-I
n = 0.035 s = 0.7%
Qdesign = 206.2 cfs @ d = 3.0 ft
V = 4.6 fps
Qcapacity = 311.9 cfs @ d = 3.5 ft
PREPARED FOR:
NORTH AMERICAN HOMES
5455 NORTH UNION BLVD.
COLORADO SPRINGS, COLO.
TOPO PROVIDED BY:
ANALYTICAL SURVEY, INC.
PRELIMINARY
MSM CONSULTANTS INC.
ENGINEERING ARCHITECTURE SURVEYING PLANNING
570 West 44th Avenue at Fox Street • Denver, Colorado 80216 • (303) 455-7321
FALCON RIDGE
PRELIMINARY DRAINAGE STUDY
FILE NO 5109947
SCALE 1" = 100'
DATE NOV. 1983
SHEET NO. 1 OF 1
NO. DESCRIPTION DATE
REVISION
DEC 27 1983