STORM COMPARISON

	EXISTING	PROPOSED	DIFFERENCE
2 YEAR	6.2 CFS	6.1 CFS	-0.1
10 YEAR	13.1 CFS	11.4 CFS	-1.7
25 YEAR	17.9 CFS	14.7 CFS	-3.2
100 YEAR	25.5 CFS	21.0 CFS	-4.5

FLARED END SCHEDULE

STRUCTURE	SIZE	INVERT
FES-1	12"	6.0
FES-2	12"	8.0
FES-3	12"	7.0
FES-4	12"	5.0

LEGEND

	CATCH BASIN (CB)
	DRAIN MANHOLE (DMH)
D	DRAINAGE PIPE
FES	FLARED END SECTION W/RIPRAP OUTLET PROTECTION
G	OIL/GRIT SEPARATOR
10	PROPOSED CONTOUR
x 10.00	PROPOSED SPOT ELEVATION
X 10.00	EXISTING SPOT ELEVATION
FFE	FINISHED FLOOR ELEVATION (FEET)
GE	GARAGE ELEVATION (FEET)
PVC	POLYVINYL CHLORIDE PIPE
HDPE	HIGH DENSITY POLYETHYLENE PIPE
0.010	SLOPE (FT./FT.)
RL	ROOF LEADER
TD	TRENCH DRAIN
	GUARD RAIL
TW/BW	TOP WALL/BOTTOM WALL
	RETAINING WALL
CFSA	COMPENSATORY FLOOD STORAGE AREAS
OCS	OUTLET CONTROL STRUCTURE

OIL/GRIT SEPARATOR SCHEDULE

STRUCTURE	RIM	INVERTS
G-1	12.0	INVERT IN = 8.32 (DMH-3)
		INVERT OUT = 8.32 (IC-1)
G-2	14.0	INVERT IN = 10.02 (DMH-4)
		INVERT OUT = 10.02 (IC-1)
G-3	11.8	INVERT IN = 7.77 (CB-8)
		INVERT OUT = 7.77 (UB-2)
G-4	14.6	INVERT IN = 10.03 (CB-6)
		INVERT OUT = 10.03 (IC-2)
G-5	12.8	INVERT IN = 9.43 (CB-7)
		INVERT OUT = 9.43 (IC-2)
G-6	11.0	INVERT IN = 7.10 (DMH-9)
		INVERT OUT = 7.10 (IC-3)
G-7	13.9	INVERT IN = 8.63 (CB-11)
		INVERT OUT = 8.63 (UB-1)
G-8	13.3	INVERT IN = 8.53 (CB-12)
		INVERT OUT = 8.53 (UB-1)

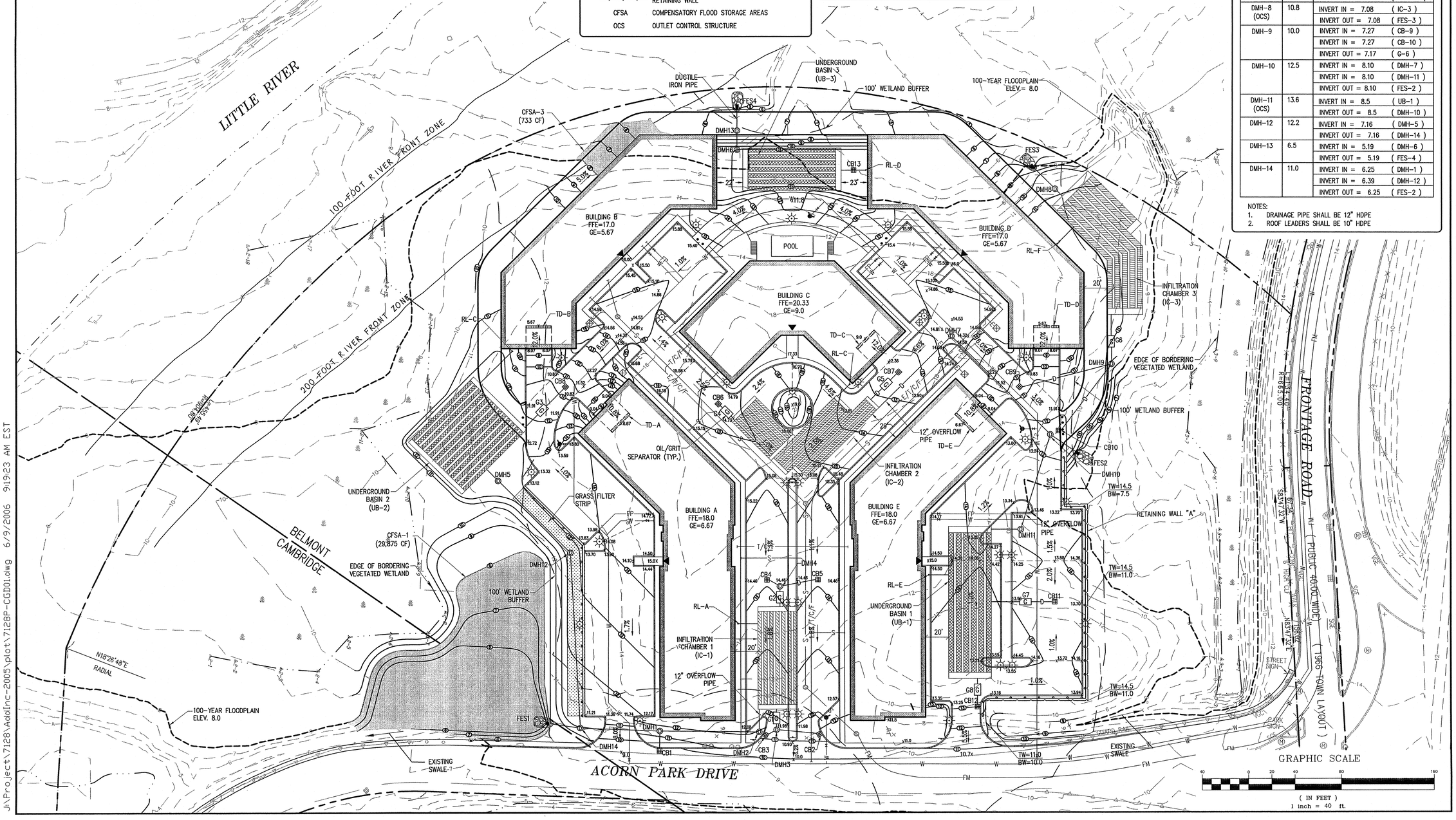
CATCH BASIN SCHEDULE

STRUCTURE	RIM	INVERTS
CB-1	9.7	INVERT OUT = 6.69 (DMH-1)
CB-2	11.3	INVERT OUT = 8.47 (DMH-3)
CB-3	11.4	INVERT OUT = 8.56 (DMH-3)
CB-4	14.1	INVERT OUT = 10.12 (DMH-4)
CB-5	14.1	INVERT OUT = 10.22 (DMH-4)
CB-6	14.6	INVERT OUT = 10.06 (G-4)
CB-7	12.3	INVERT OUT = 9.47 (G-5)
CB-8	10.7	INVERT OUT = 7.88 (G-3)
CB-9	10.7	INVERT OUT = 7.63 (DMH-9)
CB-10	12.4	INVERT OUT = 7.60 (DMH-9)
CB-11	13.2	INVERT OUT = 8.73 (G-7)
CB-12	13.0	INVERT OUT = 8.57 (G-8)
CB-13	10.5	INVERT IN = 8.21 (RL-D)
		INVERT OUT = 8.11 (UB-3)

DRAIN MANHOLE SCHEDULE

STRUCTURE	RIM	INVERTS
DMH-1	11.5	INVERT IN = 6.60 (CB-1)
		INVERT IN = 7.24 (DMH-2)
		INVERT OUT = 6.60 (DMH-14)
DMH-2 (OCS)	12.0	INVERT IN = 8.1 (IC-1)
		INVERT OUT = 8.1 (DMH-1)
DMH-3	11.5	INVERT IN = 8.34 (CB-2)
		INVERT IN = 8.53 (CB-3)
		INVERT OUT = 8.34 (G-1)
DMH-4	14.3	INVERT IN = 10.05 (CB-4)
		INVERT IN = 10.05 (CB-5)
		INVERT OUT = 10.05 (G-2)
DMH-5 (OCS)	12.5	INVERT IN = 7.50 (UB-2)
		INVERT OUT = 7.50 (DMH-12)
DMH-6 (OCS)	11.0	INVERT IN = 6.00 (UB-3)
		INVERT OUT = 6.00 (DMH-13)
DMH-7 (OCS)	14.5	INVERT IN = 8.70 (IC-2)
		INVERT OUT = 8.70 (DMH-10)
DMH-8 (OCS)	10.8	INVERT IN = 7.08 (IC-3)
		INVERT OUT = 7.08 (FES-3)
DMH-9	10.0	INVERT IN = 7.27 (CB-9)
		INVERT IN = 7.27 (CB-10)
		INVERT OUT = 7.17 (G-6)
DMH-10	12.5	INVERT IN = 8.10 (DMH-7)
		INVERT IN = 8.10 (DMH-11)
		INVERT OUT = 8.10 (FES-2)
DMH-11 (OCS)	13.6	INVERT IN = 8.5 (UB-1)
		INVERT OUT = 8.5 (DMH-10)
DMH-12	12.2	INVERT IN = 7.16 (DMH-5)
		INVERT OUT = 7.16 (DMH-14)
DMH-13	6.5	INVERT IN = 5.19 (DMH-6)
		INVERT OUT = 5.19 (FES-4)
DMH-14	11.0	INVERT IN = 6.25 (DMH-1)
		INVERT IN = 6.39 (DMH-12)
		INVERT OUT = 6.25 (FES-2)

NOTES:
1. DRAINAGE PIPE SHALL BE 12" HDPE
2. ROOF LEADERS SHALL BE 10" HDPE



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NOT FOR CONSTRUCTION

THESE PLANS WERE PREPARED FOR THE PURPOSE OF OBTAINING STATE AND LOCAL APPROVALS AND ARE NOT INTENDED TO BE USED AS CONSTRUCTION DOCUMENTS.

No.	Date	Description

Revisions

Drawn By	Designed By	Checked By	Approved By
CDH	CDH	DMA	

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Project Title
Residences at Acorn Park Belmont, MA

Sheet Title
Grading and Drainage Plan

Scale: 1"=40'
Job No.: 7128
File Name: 7128P-CGD01
Date: 06-08-06

Sheet No.
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