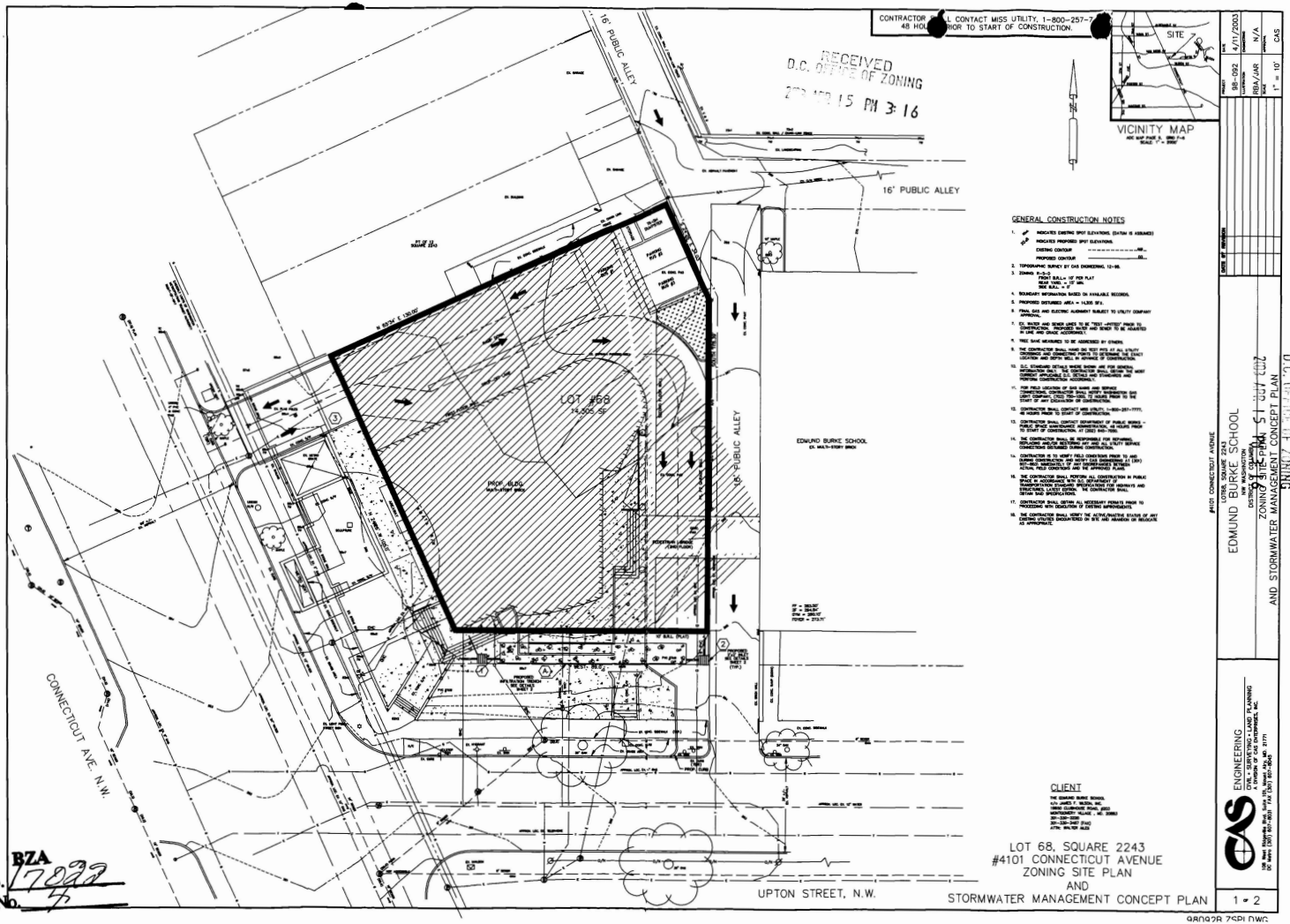


Case No. BZA 17922
Exhibit No. 4

STATEMENT BY PERSON RESPONSIBLE FOR MAINTENANCE

THE UNDERSIGNED AGREES TO MAINTAIN AND OPERATE THE DISCHARGE FACILITIES IN SUCH A MANNER AS TO COMPLY WITH THE PROVISIONS OF SECTION 508 OF CHAPTER 5 OF THE D.C. MUNICIPAL REGULATIONS. ANY MAINTENANCE AND OPERATION WORK PERFORMED TO MAINTAIN OR CORRECT DEFICIENCIES NOTED BY THE DELEGATED INSPECTION OFFICER SHALL BE PERFORMED AT THE EXPENSE OF THE UNDERSIGNED. IT IS ALSO THE RESPONSIBILITY OF THE UNDERSIGNED TO NOTIFY THE TRANSFEREE OF HIS RESPONSIBILITY FOR MAINTENANCE AND OPERATION IN COMPLIANCE WITH SECTION 508 THROUGH 535 OF CHAPTER 5 AND SECTION 2 HAS BEEN COMPLETED.

SIGNATURE OF THE PERSON RESPONSIBLE FOR MAINTENANCE — DATE

THE EDMUND BURKE SCHOOL
c/o JAMES E. WILSON, INC.
10600 CLARKSVILLE ROAD, #203
MONTGOMERY VILLAGE , MD. 20883
301-330-3331
301-330-3457 (FAX)
ATTN: WALTER ALES

STATEMENT BY PROFESSIONAL ENGINEER IN THE DISTRICT OF COLUMBIA

THIS IS TO CERTIFY THAT THE STORMWATER FEATURES OF THIS STORMWATER DISCHARGE FACILITY HAVE BEEN DESIGNED/EXAMINED BY ME AND FOUND TO BE IN CONFORMITY WITH ACCEPTED ENGINEERING PRINCIPLES APPLICABLE TO THE CONTROL AND DISPOSAL OF STORMWATER POLLUTANTS. I FURTHER CERTIFY THAT THE FACILITY HAS BEEN DESIGNED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND IN CONFORMANCE WITH THE PROVISIONS OF SECTION 5103 STATED THAT THE UNDERSIGNED HAS FURNISHED THE APPLICANT WITH A SET OF INSTRUCTIONS FOR THE MAINTENANCE AND OPERATION OF THE STORMWATER DISCHARGE FACILITY.

SIGNATURE OF ENGINEER — DATE

CURT A. SCHROEDER, PE, #10737
FOR CAS ENGINEERING
9200 BASIL COURT, BOULEVARD, SUITE 101
LARGO, MARYLAND 20774
(301) 867-8011 (PHONE) (301) 867-8045 (FAX)

AS BUILT CERTIFICATION BY PROFESSIONAL ENGINEER

WITHIN 30 (THIRTY-ONE) DAYS AFTER COMPLETION OF CONSTRUCTION OF THE STORMWATER DISCHARGE FACILITY, I SHALL SEND ONE COPY TO THE WATERSHED PROTECTION DIVISION - DEPARTMENT OF HEALTH.

1. STORMWATER DISCHARGE FACILITY INFORMATION

SOURCE NAME: _____

SOURCE LOCATION: STREET: _____

CITY: _____

DCRA PERMIT NO.: _____

DATE ISSUED: _____

2. AS BUILT CERTIFICATION

I HEREBY CERTIFY THAT THIS STORMWATER DISCHARGE FACILITY HAS BEEN BUILT SUBSTANTIALLY IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATION AND THAT ANY SUBSTANTIAL DEVIATIONS DURING BUILDING HAVE BEEN NOTED IN THE SPACE PROVIDED BELOW. I FURTHER CERTIFY THAT THE REQUIREMENTS OF SECTIONS 508 THROUGH 535 OF CHAPTER 5, "WATER PROPERTY MAINTENANCE AND OPERATION" UNDER DETERMINATIONS NOTE THAT THE FACILITY HAS BEEN BUILT IN ACCORDANCE WITH THESE REQUIREMENTS AND CONSTRUCTED BY ME OR BY A PROJECT REPRESENTATIVE UNDER MY DIRECT SUPERVISION. I HAVE ENCLOSED ONE SET OF AS-BUILT ENGINEERING DRAWINGS.

SIGNATURE OF ENGINEER — NAME (PLEASE PRINT) D.C. REG. NO.

COMPANY NAME

COMPANY ADDRESS

DATE — PHONE NO.

SUBSTANTIAL DEVIATIONS FROM THE APPROVED PLANS AND SPECIFICATIONS
(ATTACH ADDITIONAL SHEETS IF NECESSARY)

INFILTRATION TRENCH COMPUTATIONS

IMPERVIOUS AREA = 14305 SF = LOT AREA

C = 0.90

I_{10} = 3.66 IN/HR

$Q_{10} = C * I * A$

Q_{10} = 0.90 * 3.66 IN/HR * 0.33 AC = 3.35 CFS

INFILTRATION TRENCH COMPUTATIONS

INFILTRATION RATE = 1.5 IN/HR

V_{REQ} = WP AREA * 0.4 IN * FT/12 IN

V_{REQ} = 14305 SF * 0.4 IN * FT/12 IN = 477 CF

$V_{PROV} = L * W * D * V_r$

V_r = VOID RATIO = 0.35 (FOR GRAVEL)

V_{PROV} = 80 L * 3.5 D * 6.5 W * 0.35 = 477.8 CF > 477 CF OK

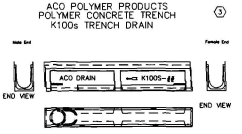
CHECK INFILTRATION TIME

SURFACE AREA = 80 FT * 6.5 FT = 360 SF

RATE = 360 SF * 1.5 IN/HR * FT/12 IN = 45.75 CF/HR

INFILTRATION TIME = Y HR = 477 = 8.9 HRS < 72 HRS OK
RATE 45.75

ACO POLYMER PRODUCTS POLYMER CONCRETE TRENCH K100s TRENCH DRAIN

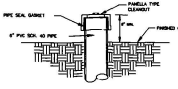


K100S CHANNEL END DEPTHS

A	B	C	D	E	F	G	H	I	J	
1	13	9	12	7	13	9	12	7	13	
2	14	10	13	8	14	10	13	8	14	
3	15	11	14	9	15	11	14	9	15	
4	16	12	15	10	16	12	15	10	16	
5	17	13	16	11	17	13	16	11	17	
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97	109	105	108	103	109	105	108	103	109	
98	110	106	109	104	110	106	109	104	110	
99	111	107	110	105	111	107	110	105	111	
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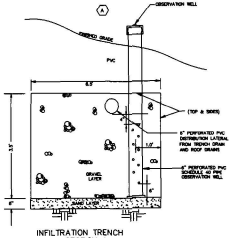
OBSERVATION WELL CAP DETAIL



NO SCALE
(TAKEN FROM WSSC STD. DET. S/50)

INFILTRATION TRENCH SECTION A

NOT TO SCALE

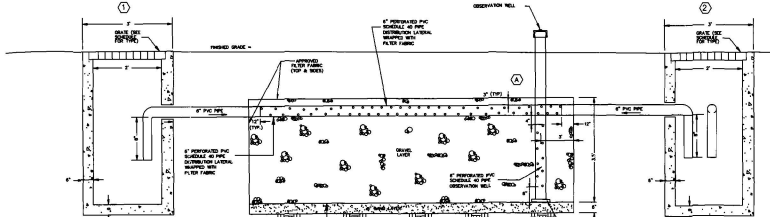


NOTES

1. ALL PIPES TO BE SCHEDULE 40 PVC, UNLESS NOTED OTHERWISE.
2. ALL CONNECTIONS TO BE D.W.V. (SOLVENT), (I.P.S. STANDARD).
3. FILTER CLOTH TO BE INSTALLED ON TOP AND SIDE OF TRENCH.
4. A 3" LAYER OF CLEAN, WASHED SAND SHOULD BE USED IN PLACE OF FILTER CLOTH IF SOIL CONDITIONS WARRANT.
5. GRAVEL USED TO CONTAIN 1.5" TO 3" WASHED, SAND-FREE GRAVEL OR DC DOT #4.
6. GRAVEL / STONE TO BE PLACED FROM A DROP HEIGHT OF 3-FEET OR LESS SO AS NOT TO DAMAGE FILTER FABRIC.

INFILTRATION TRENCH SECTION B

NOT TO SCALE



2'x2' STORM SEWER INLET (CATCH BASIN)

NOT TO SCALE
REFER TO ROOFTOP DETAIL FOR GRATE

2'x2' STORM SEWER INLET (CATCH BASIN)

NOT TO SCALE
REFER TO ROOFTOP DETAIL FOR GRATE

APPROVED FILTER FABRIC

APPROVED FILTER FABRICS
(TYPE II, MINIMUM)

QUOTED AS:
MIRAFI 140N

STORM DRAIN STRUCTURE SCHEDULE

NUMBER(S)	TYPE / SPECIFICATION	TOP ELEV.	INV. IN	INV. OUT	COMMENTS
①	2'x2' GRATE W/ MIN. FLOW OPENING AREA OF 1.0 SQ.FT. (SEE DETAIL)	----	----	----	(SEE DETAIL THIS SHEET)
②	2'x2' GRATE W/ STORM SEWER INLET & 1 SIDE INLET (SEE DETAIL)	----	----	----	(SEE DETAIL THIS SHEET)
③	2'x2' GRATE W/ 2" STORM SEWER INLET & 1 SIDE INLET (SEE DETAIL)	----	----	----	(SEE DETAIL THIS SHEET)
④	ACO TRENCH # K100S TRENCH DRAIN AND INLET # K100S - SLOT 2-3/8	----	----	----	(SEE DETAIL THIS SHEET)

APPLICANT

THE EDMUND BURKE SCHOOL
c/o JAMES E. WILSON, INC.
10600 CLARKSVILLE ROAD, #203
MONTGOMERY VILLAGE , MD. 20883
301-330-3331
301-330-3457 (FAX)
ATTN: WALTER ALES

INFORMATION SHOWN HEREON IS PROVIDED FOR REFERENCE ONLY. CONTRACTOR SHALL OBTAIN MOST CURRENT APPLICABLE STANDARDS AND CONSTRUCT ACCORDINGLY THERETO.

LOT 68, SQUARE 2243
#4101 CONNECTICUT AVENUE
STORMWATER MANAGEMENT CONCEPT PLAN
NOTES AND DETAILS

CONTRACTOR SHALL CONTACT MISS UTILITY, 1-800-257-7777, 48 HOURS PRIOR TO START OF CONSTRUCTION.

DATE	4/11/03
DESIGNED	CAS
DRAWN	WPD
SCALE	N/A
CHKD. BY	CAS

PROJECT 98-092

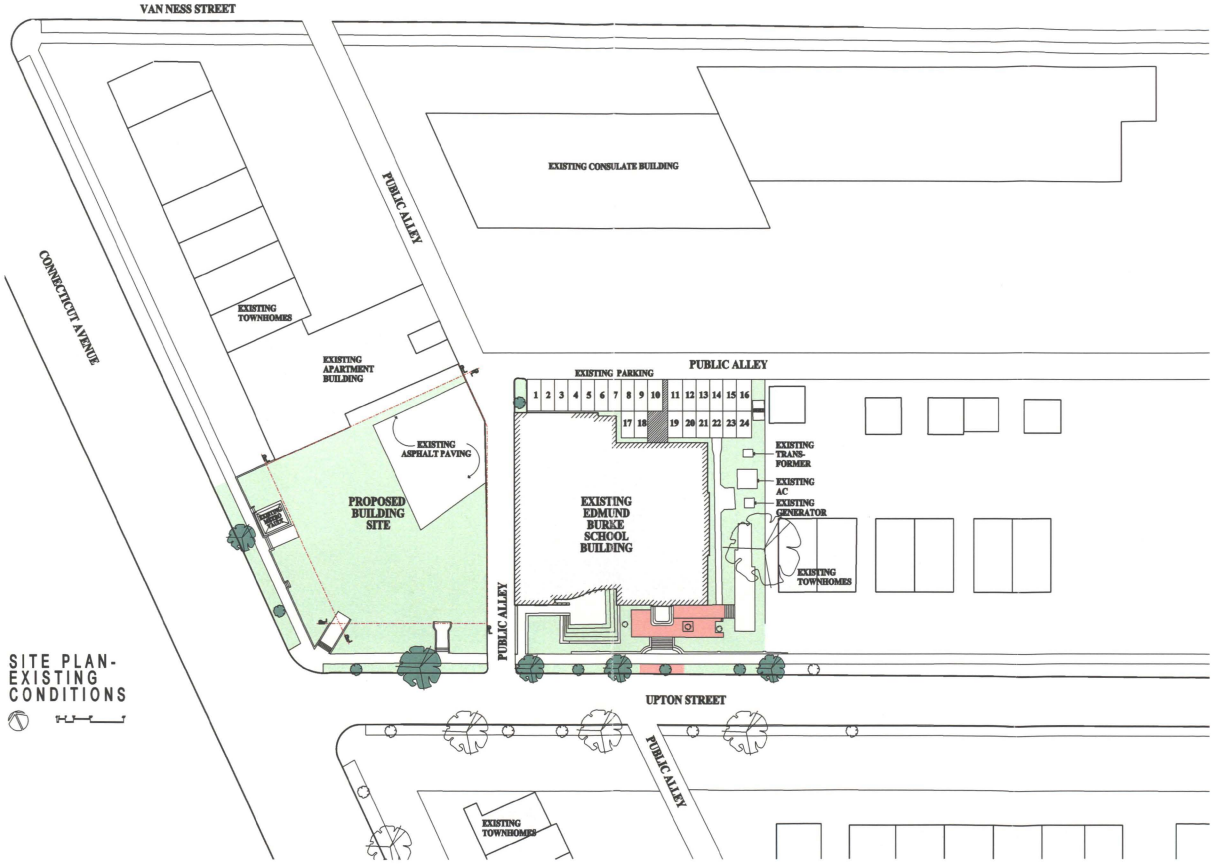
#4101 CONNECTICUT AVENUE
LOT 68, SQUARE 2243
NW WASHINGTON
DISTRICT OF COLUMBIA

EDMUND BURKE SCHOOL
STORMWATER MANAGEMENT CONCEPT PLAN
NOTES & DETAILS

CAS ENGINEERING
LAND DEVELOPMENT AND PLANNING
A DIVISION OF CAS ENTERPRISES, INC.
9200 Basil Court, Suite 101, Largo, MD. 20774
(301) 867-8011 FAX (301) 867-8045
DC Area (703) 425-8525 Baltimore (410) 880-1820

2 of 2

98092R 7SP2.DWG



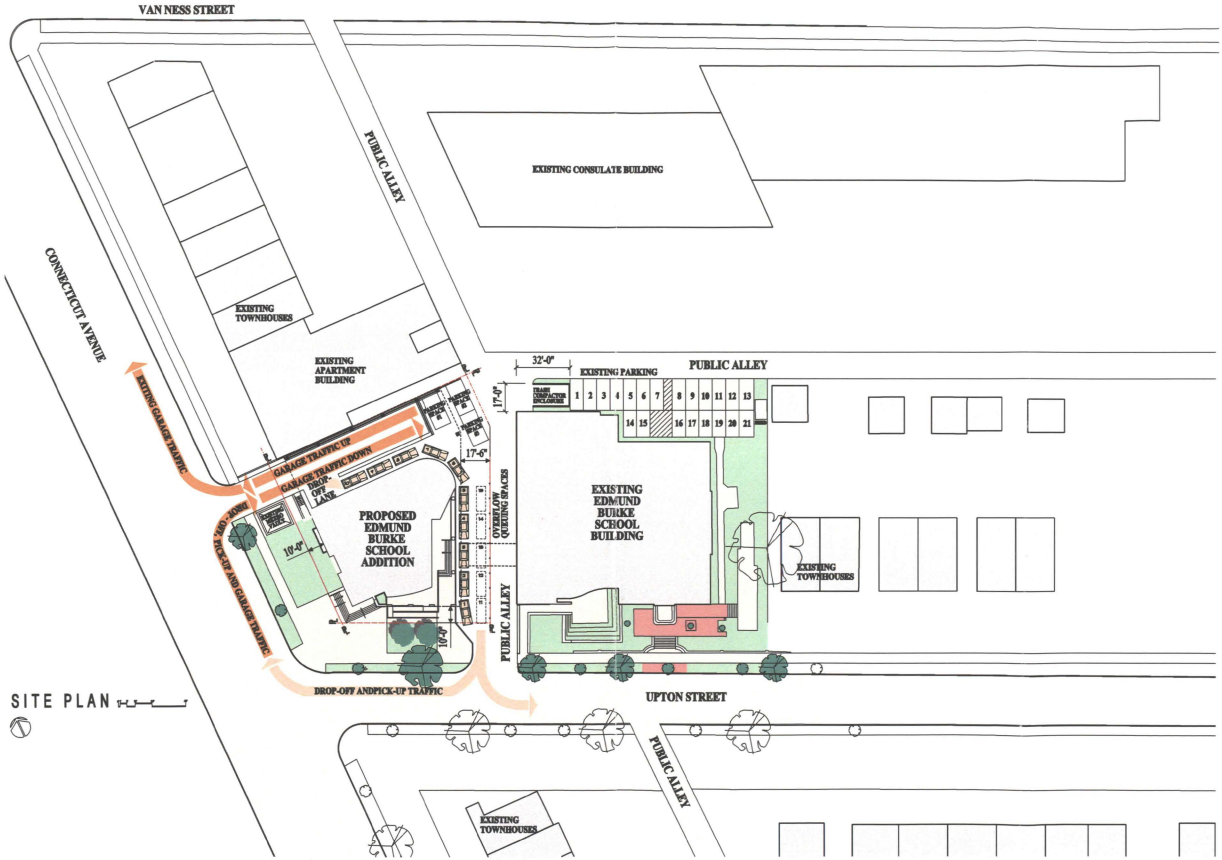
SITE PLAN-
EXISTING
CONDITIONS

OWNER: EDMUND BURKE SCHOOL
ARCHITECT: BOWIE GRIDLEY ARCHITECTS
CIVIL ENGINEER: CAS ENGINEERING
TRAFFIC ENGINEER: WELLS & ASSOCIATES

SPECIAL EXCEPTION

EDMUND BURKE SCHOOL

SE-1
APRIL 11
2003



SITE PLAN

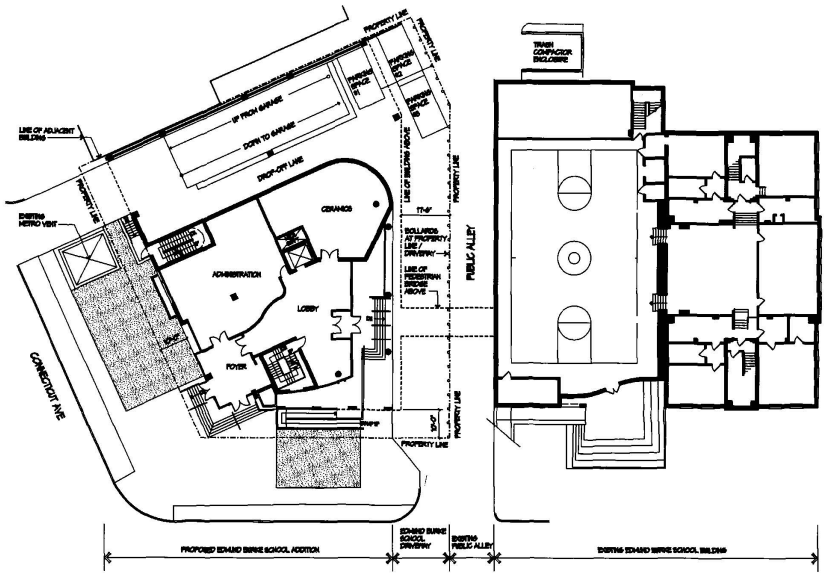
OWNER: EDMUND BURKE SCHOOL
ARCHITECT: BOWIE GRIDLEY ARCHITECTS
CIVIL ENGINEER: CAS ENGINEERING
TRAFFIC ENGINEER: WELLS & ASSOCIATES

SPECIAL EXCEPTION

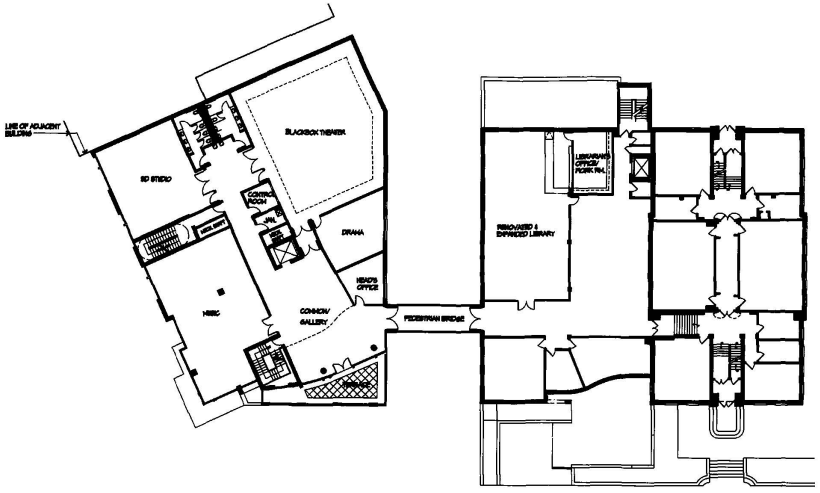
EDMUND BURKE SCHOOL

SE- 2

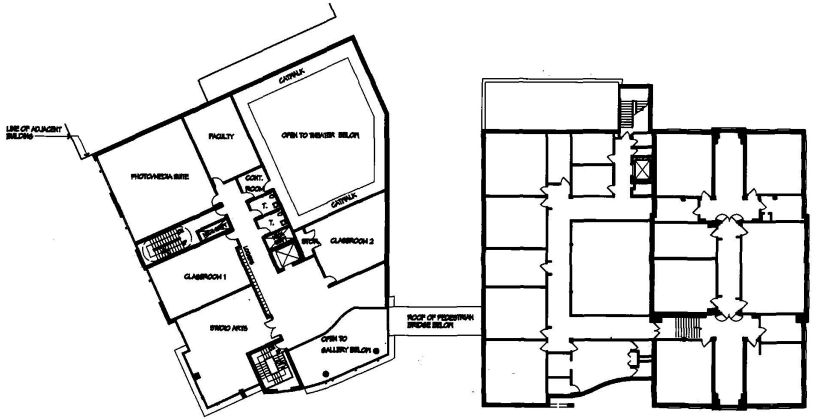
APRIL 11 2003



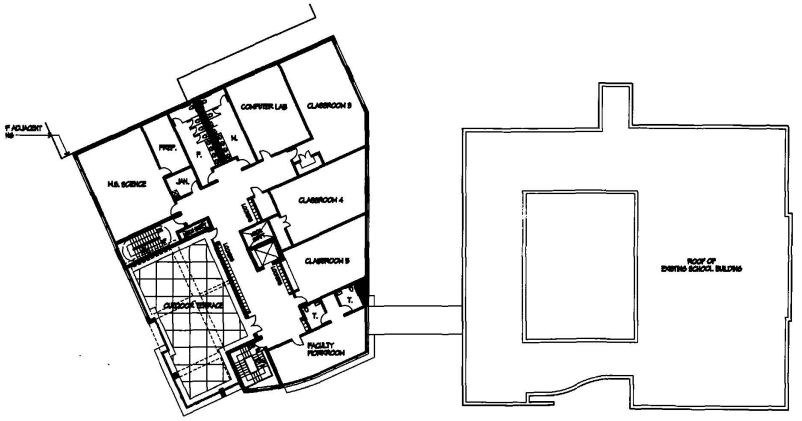
FIRST FLOOR PLAN



SECOND FLOOR PLAN



THIRD FLOOR PLAN



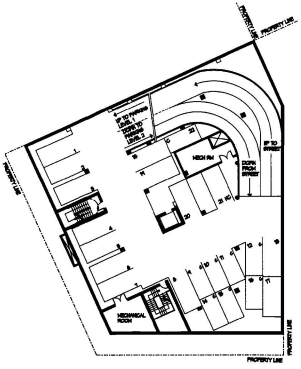
FOURTH FLOOR PLAN

OWNER: EDMUND BURKE SCHOOL
ARCHITECT: BOWIE GRIDLEY ARCHITECTS
CIVIL ENGINEER: CAS ENGINEERING
TRAFFIC ENGINEER: WELLS & ASSOCIATES

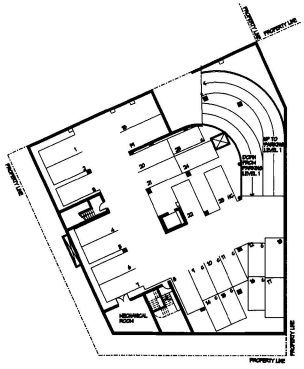
SPECIAL EXCEPTION

EDMUND BURKE SCHOOL

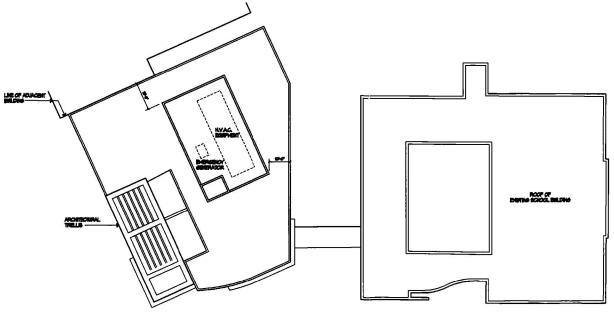
SE- 3
APRIL 11
2003



PARKING LEVEL 1 PLAN



PARKING LEVEL 2 PLAN



ROOF PLAN

OWNER: EDMUND BURKE SCHOOL
ARCHITECT: BOWIE GRIDLEY ARCHITECTS
CIVIL ENGINEER: CAS ENGINEERING
TRAFFIC ENGINEER: WELLS & ASSOCIATES

SPECIAL EXCEPTION

EDMUND BURKE SCHOOL

SE- 4
APRIL 11
2003



CONNECTICUT AVENUE ELEVATION



PUBLIC ALLEY ELEVATION

OWNER: EDMUND BURKE SCHOOL
ARCHITECT: BOWIE GRIDLEY ARCHITECTS
CIVIL ENGINEER: CAS ENGINEERING
TRAFFIC ENGINEER: WELLS & ASSOCIATES

SPECIAL EXCEPTION

EDMUND BURKE SCHOOL

SE- 5
APRIL 11
2003



UPTON STREET ELEVATION

OWNER: EDMUND BURKE SCHOOL
ARCHITECT: BOWIE GRIDLEY ARCHITECTS
CIVIL ENGINEER: CAS ENGINEERING
TRAFFIC ENGINEER: WELLS & ASSOCIATES

SPECIAL EXCEPTION

EDMUND BURKE SCHOOL

SE-6

APRIL 11 2003



VIEW FROM THE CORNER OF
CONNECTICUT AVENUE AND UPTON STREET

OWNER: EDMUND BURKE SCHOOL
ARCHITECT: BOWIE GRIDLEY ARCHITECTS
CIVIL ENGINEER: CAS ENGINEERING
TRAFFIC ENGINEER: WELLS & ASSOCIATES

SPECIAL EXCEPTION

EDMUND BURKE SCHOOL

SE-7

APRIL 11
2003