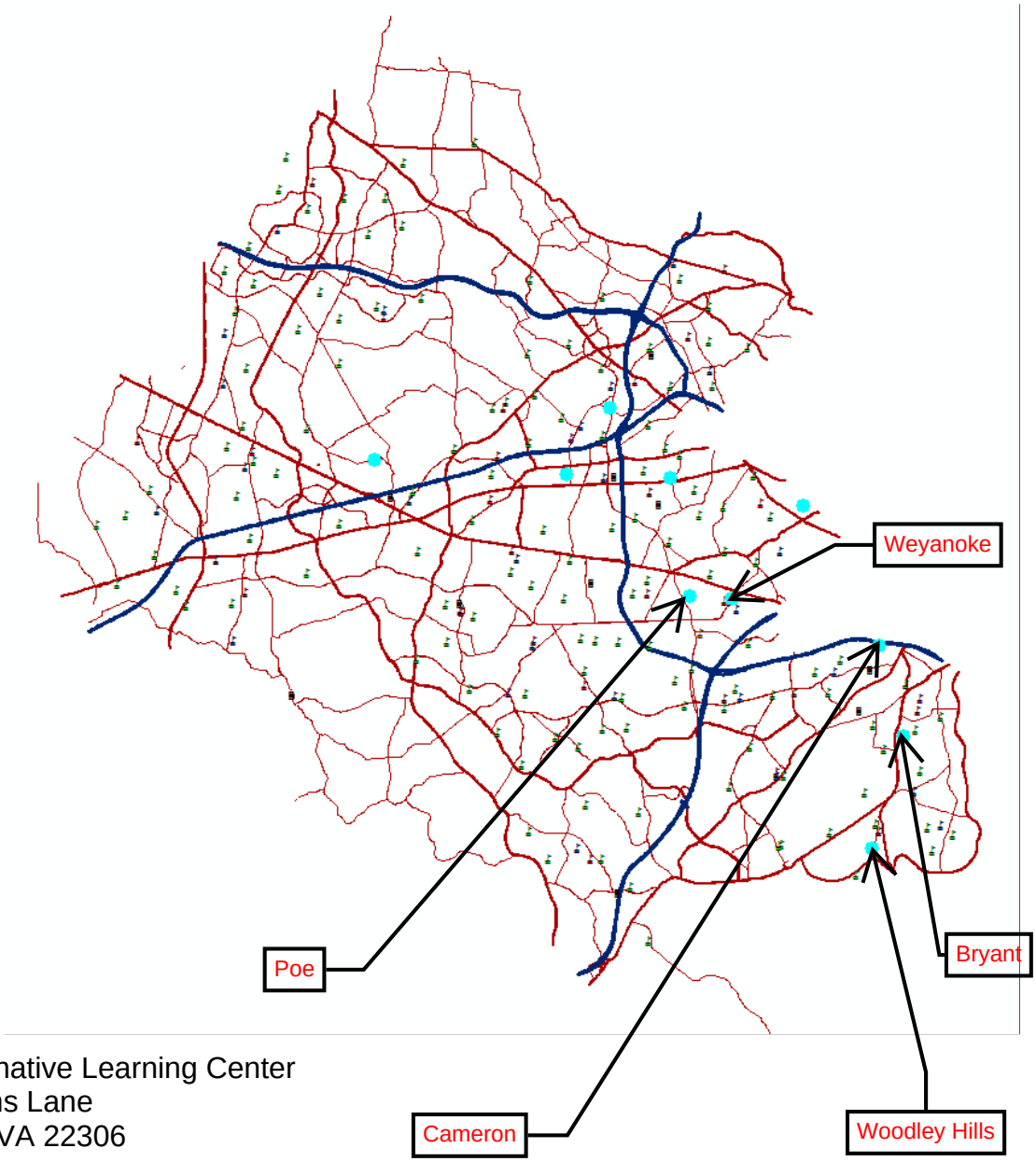


Bryant Alternative Learning Center
2709 Popkins Lane
Alexandria, VA 22306

Cameron Elementary
3434 Campbell Dr
Alexandria, VA 22303

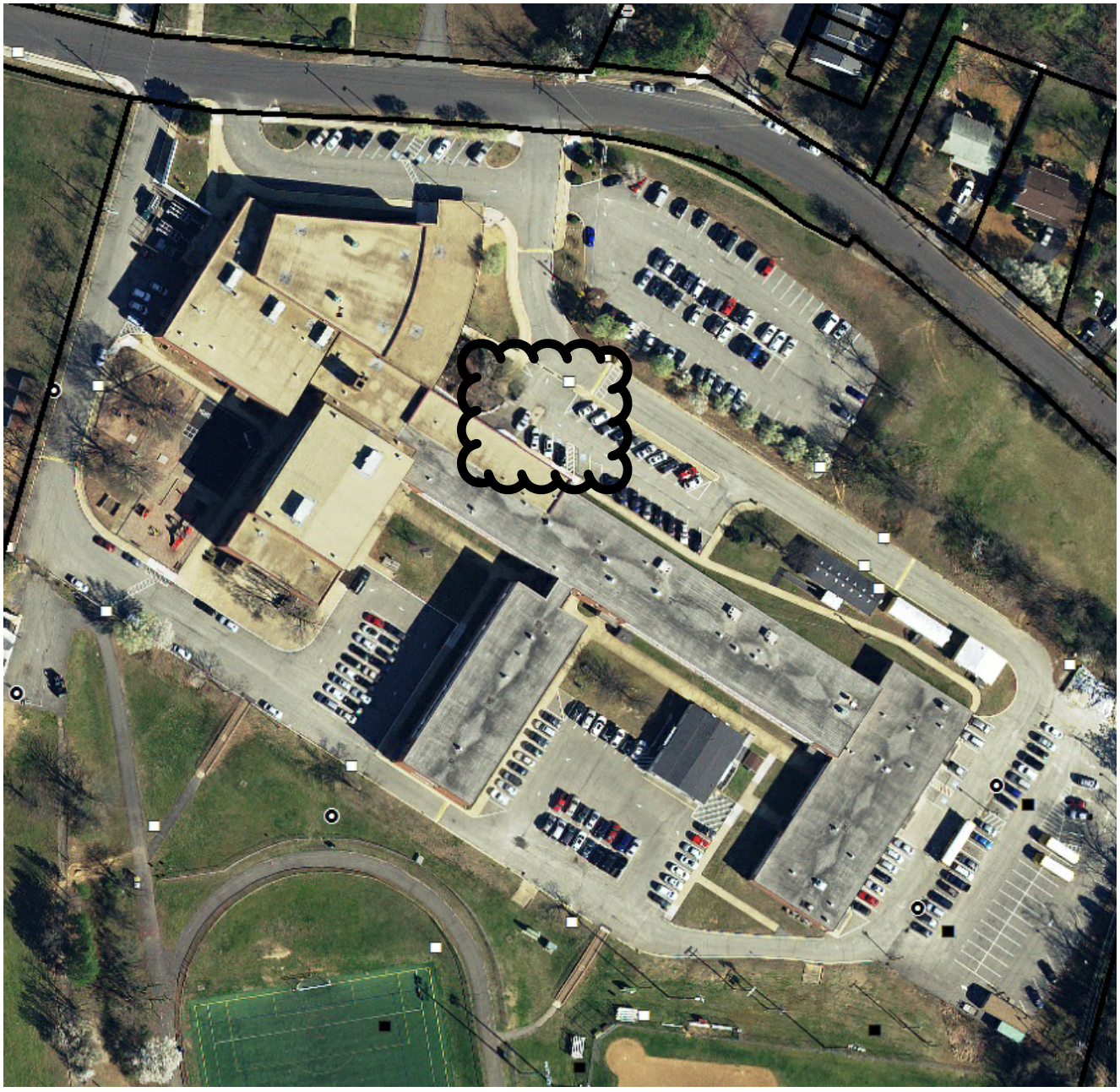
Poe Middle School
7000 Cindy Ln
Annandale, VA 22003

Weyanoke Elementary School
6520 Braddock Rd
Alexandria, VA 22312

Woodley Hills Elementary School
8718 Old Mt Vernon Rd
Alexandria, VA 22309

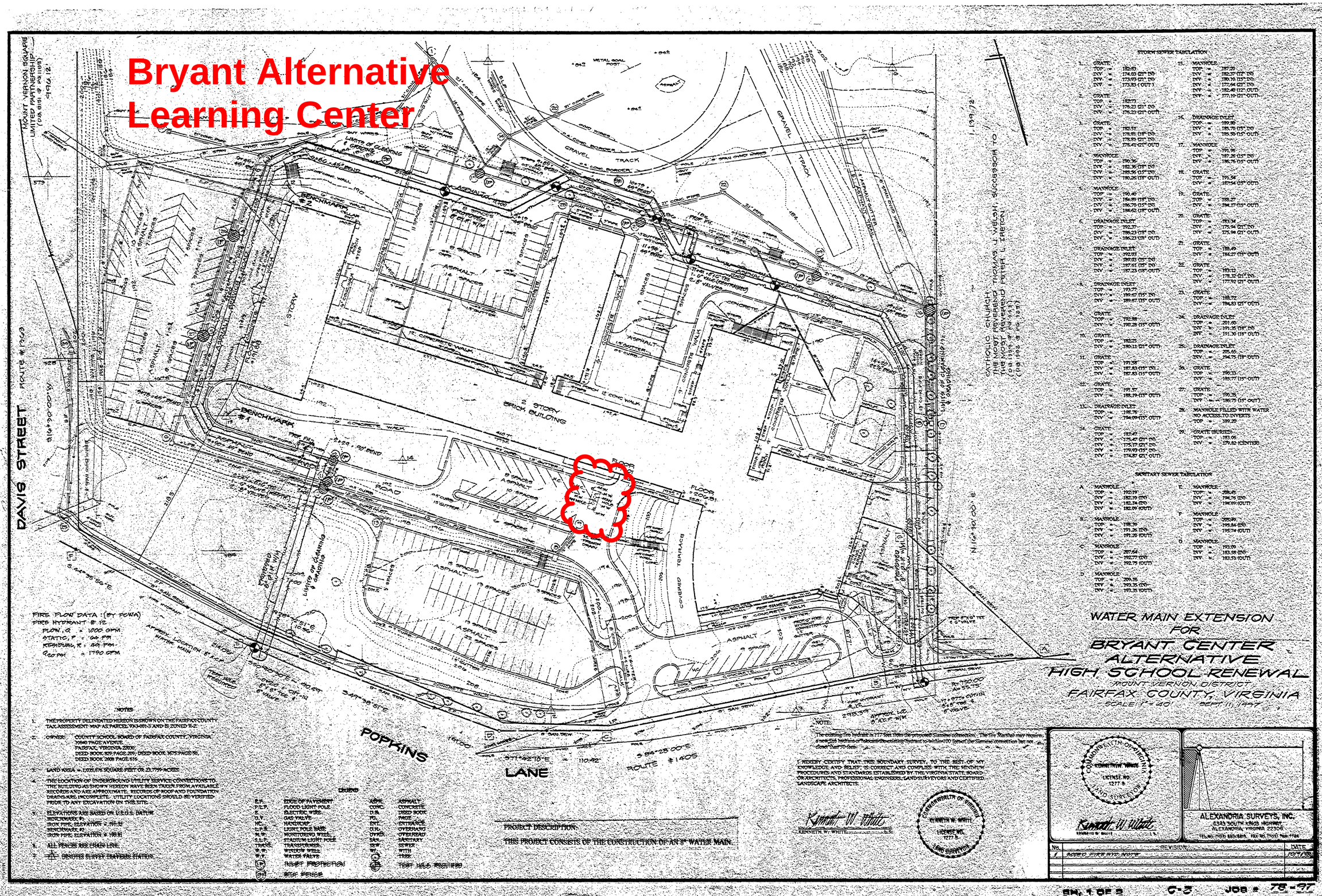
Bryant Alternative
Learning Center
2709 Popkins Lane
Alexandria, VA 22306

Bryant AHS



PROPERTY OF FCPS D & C

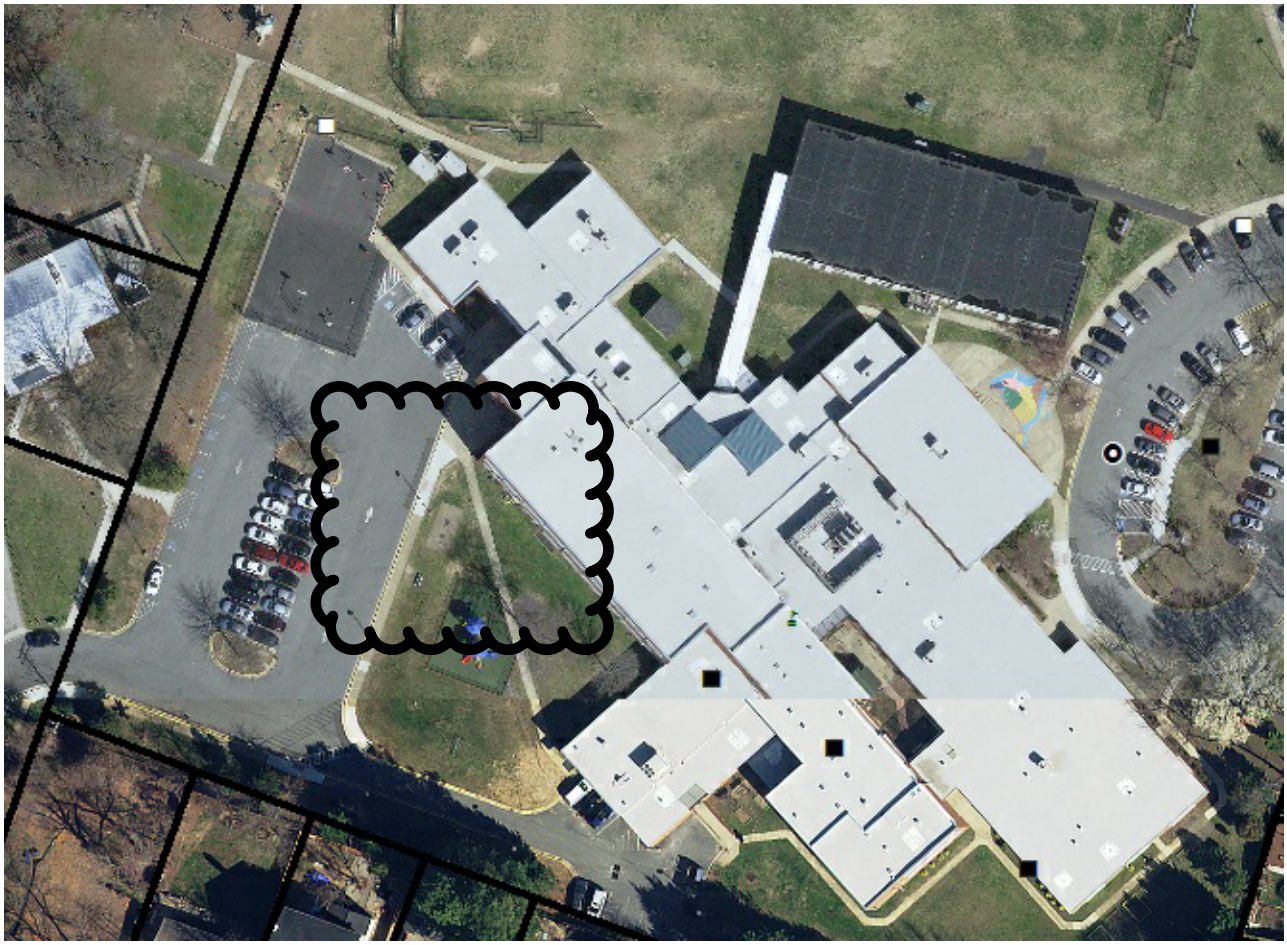
Bryant Alternative Learning Center



VIEWED BY USER : sideburn
Property of FCPS

Cameron Elementary
3434 Campbell Dr
Alexandria, VA 22303

Cameron ES



Cameron Elementary School

70-4-01(E)

AMERICANS WITH DISABILITIES ACT NOTE:
THIS PLAN MEETS THE A.D.A. REGULATIONS REGARDING HANDICAP SPACES AND SIGNAGE, ACCESSIBLE ROUTE, AND CURB RAMPS, INCLUDING DETECTABLE WARNINGS.

NOTES:
1. PROPERTY TAX MAP NUMBER IS 82-2-1-13, ZONED R-4.
2. NO TITLE REPORT FURNISHED.
3. VERTICAL DATUM REFERENCED TO THE FINISHED FLOOR ELEVATION OF THE ONE STORY PORTION OF THE SCHOOL BUILDING.
4. PROPERTY SHOWN HEREON IS PRESENTLY IN THE NAME OF THE SCHOOL BOARD OF FAIRFAX COUNTY AS ACQUIRED BY DEED RECORDED IN DEED BOOK 732, PAGE 373 AMONG THE LAND RECORDS OF FAIRFAX COUNTY, VIRGINIA.
5. THIS FIRM DOES NOT CERTIFY AS TO THE LOCATION OR EXISTENCE OF ANY UNDERGROUND UTILITIES. WHERE VISIBLE, MANHOLE COVERS AND STRUCTURES WERE LOCATED.

SANITARY AND STORM SEWER DATA

EX. SAN. M.H.
TOP = 30.88
C.L. INV. = 23.85

SAN. M.H. "A"
TOP = 37.80
C.L. INV. = 30.95

SAN. M.H. "B"
TOP = 42.93
C.L. INV. = 35.30

END WALL #1
22"x34" RCP INV. = 26.91

C.I. #2
TOP = 31.55
22"x34" RCP INV. IN = 27.28
22"x34" RCP INV. OUT = 27.23

C.I. #3
TOP = 32.13
12" RCP INV. IN = 28.40
22"x34" RCP INV. IN = 27.54
22"x34" RCP INV. OUT = 27.43

C.I. #3A
TOP = 32.06
12" RCP INV. OUT = 28.8±

C.I. #4 (WELDED SHUT)
TOP = 32.54
22"x34" RCP INV. IN =
21" RCP INV. OUT =

M.H. #5
TOP = 35.87
10" RCP INV. IN = 30.63
18" RCP INV. IN = 30.42
21" RCP INV. OUT = 29.97

M.H. #5A (PAVED OVER)

GRATE INLET #6
TOP = 36.27
15" RCP INV. IN = 32.74
18" RCP INV. OUT = 32.72

SAN. M.H. #1
TOP = 36.17
C.L. INV. = 25.71

SAN. M.H. #2
TOP = 40.09
C.L. INV. = 27.53

M.H. #6A
TOP = 38.01
C.L. INV. = 34.01

GRATE INLET #7
TOP = 40.64
15" RCP INV. IN = 34.87
15" RCP INV. OUT = 34.80

GRATE INLET #8
TOP = 41.58
15" RCP INV. IN = 36.58
15" RCP INV. OUT = 36.34
5" ROOF DRAIN (N) = 37.07
5" ROOF DRAIN (W) = 37.28
4" PVC = 39.98

GRATE INLET #9
TOP = 40.99
15" RCP INV. OUT = 37.57
4" ROOF DRAIN = 38.76

BENCHMARK #1 = 37.99
BENCHMARK #2 = 42.06

CURB INLET #10
TOP = 39.69
15" RCP INV. OUT = 36.42

END WALL #11
15" RCP INV. = 29.27

NOTES:
1. ALL PLAY EQUIPMENT WITHIN LIMITS OF CONSTRUCTION TO BE RELOCATED. COORDINATE WITH F.C.P.S. RE-PRESENTATIVE. EQUIPMENT TO BE RE-ESTABLISHED USING THE STANDARDS IN THE P.F.M. OR THE EXISTING METHODS OF ANCHORING SHOULD BE DUPLICATED FOR THE NEW LOCATION.
2. ALL AREAS DISTURBED BY CONSTRUCTION AND NOT PAVED OVER OR BUILT UPON SHALL BE SODDED PER THE LATEST EDITION OF THE CHECKLIST FOR EROSION AND SEDIMENT CONTROL, FAIRFAX COUNTY, VIRGINIA.
3. CONTRACTOR TO COORDINATE WITH F.C.P.S. REPRESENTATIVE FOR LAYOUT OF GAME LINES FOR NEW ASPHALT PLAY AREA.

LEGEND
- EXISTING BUILDING ENTRANCE △
- PROPOSED BUILDING ENTRANCE ▲
- EXISTING CONTOUR ..... 40 .....
- PROPOSED CONTOUR ——— 40 ———
- INLET PROTECTION
- SILT FENCE x—x—x—x
- TRANSITION BETWEEN CG-6 & CG-6R
- PAINTED FIRE LANE
- "C1" FIRE LANE SIGN
- PROPOSED SPOT ELEVATION 32.5

DENOTES LIMITS OF MILLED PAVEMENT PER FIELD INSPECTION BY J. MONACO & ASSOC., P.C. ON JANUARY 12, 1996.

COMMONWEALTH OF VIRGINIA — John F. Sosser No. 010293 — PROFESSIONAL ENGINEER

COMMONWEALTH OF VIRGINIA — Joseph Monaco No. 951 B — LAND SURVEYOR

Day Care Addition

DATE: SEPT. 1993	SITE PLAN EXCEPTION	REVISIONS: ALTERNATE #1 1/3/04; LIMITS OF MILLED 1/3/04; PAVEMENT 1/3/04; FDN DRAIN 1/12/04
SCALE: 1"=30' NTS	CAMERON ELEMENTARY SCHOOL	
ISSUED 12/20/93	FAIRFAX COUNTY SCHOOL BOARD	
REVISED 1/15/94	LEE DISTRICT, FAIRFAX COUNTY, VIRGINIA	TAX MAP REF.: 82-2-01-13
ADDENDUM #1	J. MONACO & ASSOCIATES, P.C. LAND SURVEYING - LAND DEVELOPMENT PLANNING FAIRFAX, VIRGINIA	PROJECT: 266-029
		SHEET 1 OF 2 — 8/19/95

STATE PROJECT NO. 29-62

93-01-E

Property of FCPS

Poe Middle School
7000 Cindy Ln
Annandale, VA 22003

Poe MS

From:	Davis, Matthew W
To:	Moran, Holly
Cc:	Hall, Barry J.; Bennett, David M.1; Edwards, Thom; Barnes, Felicia N.
Subject:	RE: Poe Middle School UST - proposed abandonment
Date:	Thursday, April 04, 2019 3:48:46 PM
Attachments:	Tank Guidelines.pdf

Holly,

Based on the proximity to other utilities, HVAC, and the gas line running directly over and beside the UST, the tank abandonment would be approved. So whenever you're ready you'll need to have the contractor submit the application, along with a site plan and short written statement as to why the tank is being abandoned. The fee is $150. I've attached the code reference package which is explains the tank abandonment process.
I've included Captain Felicia Barnes on this e-mail. Based on the conditions you described, she agreed that the tank could be abandoned. The Inspection will be done once the permit has been applied for.

Thank you,

Matt Davis
Fairfax County Fire Prevention Div
Financial Specialist
703-246-4813
I'm out of the office most Mondays
We have moved to our new location:
12099 Government Center Parkway, 3rd floor
Fairfax VA 22035

From: Moran, Holly [mailto:hmmoran@fcps.edu]
Sent: Thursday, April 4, 2019 11:24 AM
To: Davis, Matthew W <Matthew.Davis@fairfaxcounty.gov>
Cc: Hall, Barry J. <Barry.Hall@fairfaxcounty.gov>; Bennett, David M.1 <DMBennett1@fcps.edu>; Edwards, Thom <TCEdwards@fcps.edu>
Subject: RE: Poe Middle School UST - proposed abandonment

Hi Matt,

Thank you very much for following up with me and providing the information.

I am currently in the process of scoping UST removal locations. Prior to issuing an IFB, I need to know if the UST will be removed or abandoned in place, to the best of my abilities in order to properly issue the IFB.

PROPERTY OF FCPS D & C

HERITAGE VILLAGE
TAX MAP# 71-4((1))19A ZONE:R-2 USE:PUMP STATION.
TAX MAP # 71-1((26)) 54A1 ZONE: R-12 USE: RESIDENTIAL
FAIRFAX COUNTY WATER AUTHORITY
TAX MAP # 71-1 ((1)) 130 ZONE:R-2 USE: WATER TANKS
LOT 8 LOT 7 FONTAINEBLEAU ESTATES (SECTION 4)
ZONE: R-2 USE: RES.

N35° 36' 07"E 1165.94'
EX. 20' ALEXANDRIA WATER CO. ESMT. DB. 2570/PG.230 AND DB.2643/PG. 259
EX. 20' INGRESS-EGRESS & MAINTENANCE ESMT. DB. 3932 / PG. 38
EX. ASPHALT TRAIL REMOVE & REPLACE WITH NEW 4' WIDE ASPHALT TRAIL
PROPOSED 20' SANITARY SEWER EASEMENT
NEW BACKSTOP
EX. 4" ASPHALT S/W
EX. 8" SAN. SEW.
NEW 4" CONC. S/W
4" SAN. LAT. @ 2.08%
NEW 8" SAN. SEW.
EX. MH#2
NEW BASEBALL FIELD
NEW PORTABLE SOCCER GOAL
EX. 6" CHAIN LINK FENCE
EXISTING TREELINE
R=250'
EXISTING SOCCER FIELD
S 85° 05' 06" W 887.15'
S 85° 05' 06" W 985.21'
EX. STM. TO BE CONNECTED TO MH
BM #2 TOP ELEV.= 374.51
NEW 6' CHAIN LINK FENCE
KUENNAN
TAX MAP# 71-4-001-12
ZONE : R-2
USE : RESIDENTIAL
SUNSET VILLAGE PARCEL "A"
TAX MAP# 71-3((18)) A
ZONE : R-12
USE : RESIDENTIAL

EX. SCHOOL BLDG.
FF = 387.00
HT = 25 FT. BLDG.
TWO STORY BLDG.
7000 CINDY LANE

FF=387.00 (80'x135')
FF=387.00 (80'x135')
FF=384.00 (65'x80')
FF=387.00 (85'x147')
FF=387.00 (58'x150')
FF=387.00 (58'x150')
4-HOUR FIREWALL
2-HOUR FIREWALL
1-HOUR FIREWALL
COURTYARD
POOF-DRAIN
BUS LOADING AREA
3 6"x6" CONC. DUMPSTER PADS
DUMPSTER CONT.
(2) LOADING SPACES 12' x 25'
16S & 15' x 25'
SEE MECHANICAL PLAN FOR ENLARGEMENT OF MECHANICAL YARD
EX. 2" WATER
EX. 8" SAN. SEW.
EX. 6" SAN. SEW.
EX. 4" SAN. SEW.
EX. 4" WATER LINE
EX. 6" WATER LINE
EX. 8" WATER LINE
EX. 12" WATER LINE
EX. GAS METER
EX. GAS LINE
EX. TREELINE
EX. METER VAULT
EX. 36S W/M
EX. CONC. S/W
EX. CURB
EX. STOP SIGN
EX. LIGHT POLE
EX. POLE
EX. 5' W/M
EX. 8" W/M
NEW 8" W/M
NEW 6" W/M
NEW 4" W/M
NEW 2" W/M
NEW 1" W/M
NEW 6" SAN. SEW.
NEW 4" SAN. SEW.
NEW 2" SAN. SEW.
NEW 1" SAN. SEW.
NEW 4" CONC. S/W
NEW 6" CONC. S/W
NEW 8" CONC. S/W
NEW 12" CONC. S/W
NEW 4" WATER LINE
NEW 6" WATER LINE
NEW 8" WATER LINE
NEW 12" WATER LINE
NEW 4" SAN. LINE
NEW 6" SAN. LINE
NEW 8" SAN. LINE
NEW 12" SAN. LINE
NEW 4" GAS LINE
NEW 6" GAS LINE
NEW 8" GAS LINE
NEW 12" GAS LINE
NEW 4" STORM LINE
NEW 6" STORM LINE
NEW 8" STORM LINE
NEW 12" STORM LINE
NEW 4" CONC. S/W
NEW 6" CONC. S/W
NEW 8" CONC. S/W
NEW 12" CONC. S/W
NEW 4" WATER LINE
NEW 6" WATER LINE
NEW 8" WATER LINE
NEW 12" WATER LINE
NEW 4" SAN. LINE
NEW 6" SAN. LINE
NEW 8" SAN. LINE
NEW 12" SAN. LINE
NEW 4" GAS LINE
NEW 6" GAS LINE
NEW 8" GAS LINE
NEW 12" GAS LINE
NEW 4" STORM LINE
NEW 6" STORM LINE
NEW 8" STORM LINE
NEW 12" STORM LINE

CINDY LANE ROUTE 3822 (50' R/W)
END VDOT MAINTENANCE
EX. STREET LIGHT
EX. 6" CHAIN LINK FENCE - PAINT WITH BLACK COATING
S 54° 19' 36" E 321.77'
TALLIA II L.P
TAX MAP # 71-2 ((1)) 23
ZONE:R-2 USE: RESIDENTIAL
BM #1 TOP ELEV. 387.94
PROPOSED STREET LIGHT
PROP. 60' INGRESS-EGRESS ESMT
N 35° 40' 24" E 210.00'
MONTERREY DRIVE ROUTE 2447 (50' R/W)
STOP SIGN
APPROX. LOCATION EX. 35" D.I.P. W/M
MACADAMS ADDITION TO HILLBROOK USE: RES.
ZONE : R-2
SECTION TWO
SECTION FOUR
S 63° 31' 36" E
701.86'
NEW PORTABLE SOCCER GOAL
PARKING LOT TO BE USED AS CONSTRUCTION STAGING AREA - SEE SHEET 5
SOCCER FIELD (320' x 195')
EXISTING TREELINE
NEW BACKSTOP
NEW BASEBALL FIELD
3 TEMPORARY CLASSROOMS (BY FCPS)
(4) EX. BASKETBALL GOALS
2- BASKETBALL COURTS
LIMITS OF CLEARING AND / OR GRADING
EX. 6" CHAIN LINK FENCE
EX. 4" ASPHALT TRAIL - REMOVE AND REPLACE WITH NEW 4' WIDE ASPHALT TRAIL
EX. CHAIN LINK FENCE
EX. 75' STM. DRN. ESMT. D.B. 9209 / PG. 1631
OUTLOT A
HILLBROOK SPRINGS SUBDIVISION
ZONE : R-2 USE : RESIDENTIAL
71 - 2 - 0038
WINTER LANE ROUTE 3472 (VARIABLE R/W)
EX. 6" D.I.P. W/M
11-5" WET TAP
S 62° 23' 35" W 143.14'
S 01° 54' 32" W 202.84'
HILLENBROOK SUBD. (SEC. ONE) ZONE : R-2 USE: RES.
PROP. 8" D.I.P. W/M
S 67° 05' 08" W 91.50'
EX. 12" WATER
EX. 8" SAN. SEW.
EX. 6" SAN. SEW.
EX. 4" SAN. SEW.
EX. 4" WATER LINE
EX. 6" WATER LINE
EX. 8" WATER LINE
EX. 12" WATER LINE
EX. GAS METER
EX. GAS LINE
EX. TREELINE
EX. METER VAULT
EX. 36S W/M
EX. CONC. S/W
EX. CURB
EX. STOP SIGN
EX. LIGHT POLE
EX. POLE
EX. 5' W/M
EX. 8" W/M
NEW 8" W/M
NEW 6" W/M
NEW 4" W/M
NEW 2" W/M
NEW 1" W/M
NEW 6" SAN. SEW.
NEW 4" SAN. SEW.
NEW 2" SAN. SEW.
NEW 1" SAN. SEW.
NEW 4" CONC. S/W
NEW 6" CONC. S/W
NEW 8" CONC. S/W
NEW 12" CONC. S/W
NEW 4" WATER LINE
NEW 6" WATER LINE
NEW 8" WATER LINE
NEW 12" WATER LINE
NEW 4" SAN. LINE
NEW 6" SAN. LINE
NEW 8" SAN. LINE
NEW 12" SAN. LINE
NEW 4" GAS LINE
NEW 6" GAS LINE
NEW 8" GAS LINE
NEW 12" GAS LINE
NEW 4" STORM LINE
NEW 6" STORM LINE
NEW 8" STORM LINE
NEW 12" STORM LINE
NEW 4" CONC. S/W
NEW 6" CONC. S/W
NEW 8" CONC. S/W
NEW 12" CONC. S/W
NEW 4" WATER LINE
NEW 6" WATER LINE
NEW 8" WATER LINE
NEW 12" WATER LINE
NEW 4" SAN. LINE
NEW 6" SAN. LINE
NEW 8" SAN. LINE
NEW 12" SAN. LINE
NEW 4" GAS LINE
NEW 6" GAS LINE
NEW 8" GAS LINE
NEW 12" GAS LINE
NEW 4" STORM LINE
NEW 6" STORM LINE
NEW 8" STORM LINE
NEW 12" STORM LINE

TYPICAL SECTION
EX. CINDY LANE & MONTERREY DRIVE
(POSTED SPEED = 25 MPH)
NO SCALE
18' 35' 18'
EX. C & G EX. C & G

NOTE :
CINDY LANE AND MONTERREY DRIVE ACROSS FCPS PROPERTY HAVE NEVER BEEN DEDICATED TO VDOT, AND ARE THEREFORE CONSIDERED AS PRIVATE STREETS, OWNED AND MAINTAINED BY FCPS. DUE TO THE EXISTING 90° BEND IN THE STREETS, THE REQUIRED 300' SIGHT DISTANCE IS NOT ACHIEVABLE AT THE THREE EXISTING ENTRANCES TO THE PROPERTY.

NOTES :
1. ALL EXISTING STORM SEWER, SANITARY SEWER, SANITARY SEWER AND WATERLINES THAT ARE LOCATED UNDER PROPOSED BUILDING ADDITIONS SHALL BE REMOVED AND REPLACED - SEE PLUMBING DRAWINGS FOR DESIGN.
2. THERE ARE NO KNOWN CEMENTERIES OR BURIAL GROUNDS ON THIS SCHOOL PROPERTY.
3. AERIAL TOPOGRAPHY HAS BEEN REFERENCED TO USGS DATUM.

LEGEND
- T.B.R: DENOTES "REMOVE"
- PROPOSED BUILDING ADDITIONS
- (CO) DENOTES CLEANOUT
- PROPOSED BUILDING ADDITIONS
- R.D. DENOTES ROOFDRAIN
- (16) PARKING SPACE TOTAL / PER BAY
- (TH) TESTHOLE REQUIRED

STORM SEWER TABULATION		
FROM	TO	DESCRIPTION
Q.D. #1	2-3	32' - 8" PVC ROOFDRAIN @ 1.00%
Q.D. #2	2-3	32' - 8" PVC ROOFDRAIN @ 1.00%
2-3	2-2	83' - 8" PVC ROOFDRAIN @ 1.00%
2-2	2-1	130' - 15" RCP CL III @ 1.73%
2-4	2-1	85' - 15" RCP CL III @ 2.00%
2-1	EX. 2	105' - 18" RCP CL III @ 2.00%
2A	EX. 2	80' - 15" RCP CL III @ 2.00%
EX. 2	1A	EX. 220' - 24" RCP @ 3.39%
1C	1B	160' - 12 RCP CL III @ 1.00%
1D	1B	50' - 8" PVC ROOFDRAIN @ 1.00%
1B	1A	128' - 12" RCP CL III @ 1.00%
1A	EX. 1	EX. 144' - 24" RCP @ 3.39%
14B	14A	50' - 8" PVC ROOFDRAIN @ 1.00%
14A	EX. 14	30' - 8" PVC ROOFDRAIN @ 1.00%
EX. 14	12C	EX. 148' - 15" RCP @ 2.71%
12C	12B	67' - 15" RCP CL III @ 2.71%
12B	12A1	40' - 15" RCP CL III @ 2.47%
12A1	12A	43' - 15" RCP CL III @ 2.47%
12A	EX. 12	EX. 145' - 15" RCP @ 5.51%
19A	EX. 19	95' - 8" PVC ROOFDRAIN @ 4.74%

PARKING SCHEDULE
1. REQUIRED: 1 SPACE PER FACULTY, STAFF MEMBER AND OTHER FULL TIME EMPLOYEES PLUS 4 SPACES FOR VISITORS. TOTAL FACULTY, STAFF AND EMPLOYEES = 120 SPACES REQUIRED = 124
2. PROVIDED: 143 SPACES

EXISTING FIRE HYDRANT DATA
PER FCWA, EX. FH #41 ON SCHOOL PROPERTY YIELDS THE FOLLOWING:
STATIC = 56 PSI
RESIDUAL = 17 PSI
FLOW = 1000 GPM
@20 = 950 GPM
THE MAJORITY OF THE EXISTING WATERLINES IN THE AREA OF THE SCHOOL ARE 6" IN SIZE.

GRAPHIC SCALE
50 0 50 100
SCALE 1" = 50' FEET

COMMONWEALTH OF VIRGINIA
JACK W. WEYANT
NO. 13445
PROFESSIONAL ENGINEER

Poe Middle School

REVISIONS:

SITE PLAN LAYOUT
POE INTERMEDIATE SCHOOL
MASON DISTRICT
FAIRFAX COUNTY, VIRGINIA.

DATE:	NOVEMBER, 1995
SCALE:	1"=50'
DESIGN:	J.W.W.
DRAWN:	CADD
CHECKED:	CADD/JWW

POLINS, WEYANT, & HAMM, INC.
Engineering, Land Surveying and Planning
13791 DIGBY BROOKS COURT (703) 497-1122
WOODBRIDGE, VA. 22192 (703) 494-6827
FAX (703) 494-6983

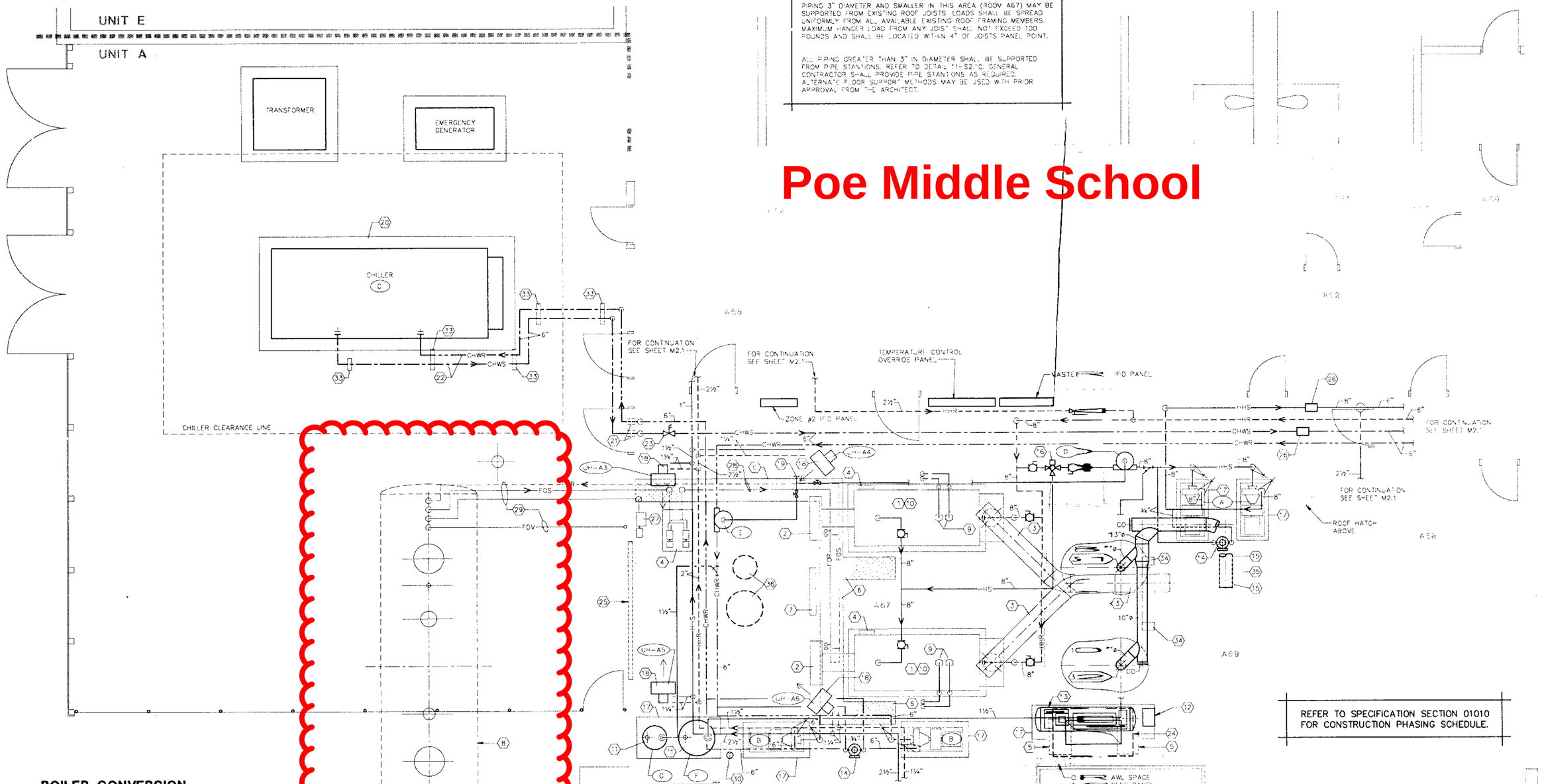
D:\PROJECTS\94\POE-PLOT.DWG

JOB No: 94-12

SHEET 2 OF 10

POLINS, WEYANT & HAMM INC. SADD DEPT. - COPYRIGHT NO. 0992345
VIEWED BY USER : sideburn
Property of FCPS

Property of FCPS



NOTE:

PIPING 3" DIAMETER AND SMALLER IN THIS AREA (ROOM A67) MAY BE SUPPORTED FROM EXISTING ROOF JOISTS. LOADS SHALL BE SPREAD UNIFORMLY FROM ALL AVAILABLE EXISTING ROOF FRAMING MEMBERS. MAXIMUM HANGER LOAD FROM ANY JOIST SHALL NOT EXCEED 100 POUNDS AND SHALL BE LOCATED WITHIN 4" OF JOIST'S PANEL POINT.

ALL PIPING GREATER THAN 3" IN DIAMETER SHALL BE SUPPORTED FROM PIPE STANTIONS. REFER TO DETAIL 1/M-S2.0. GENERAL CONTRACTOR SHALL PROVIDE PIPE STANTIONS AS REQUIRED. ALTERNATE FLOOR SUPPORT METHODS MAY BE USED WITH PRIOR APPROVAL FROM THE ARCHITECT.

Poe Middle School

DRAWING SHEET M4.1 NOTES

1. EXISTING LOW-PRESSURE STEAM BOILER SHALL REMAIN IN PLACE. CONTRACTOR TO CONVERT FROM STEAM TO HOT WATER SYSTEM.
2. EXISTING BURNER, CONTROLS, GAS TRAIN, AND ACCESSORIES SHALL REMAIN IN PLACE.
3. EXISTING BOILER FLUES SHALL REMAIN IN PLACE. THOROUGHLY CLEAN INSIDE OF EXISTING FLUES.
4. EXISTING FUEL OIL TRANSFER PUMPS, PIPING, CONTROLS AND ACCESSORIES SHALL REMAIN IN PLACE.
5. APPROXIMATE LOCATION OF COOLER/FREEZER COMPRESSOR UNITS PROVIDED AND MOUNTED ON EXISTING WALL BY KITCHEN EQUIPMENT CONTRACTOR.
6. EXISTING FLOOR TRENCH SHALL REMAIN IN PLACE.
7. EXISTING BOILER CONTROL PANEL AND CONTROLS SHALL REMAIN IN PLACE.
8. EXISTING UNDERGROUND FUEL OIL STORAGE TANK, PIPING, CONTROLS, AND ACCESSORIES SHALL REMAIN IN PLACE. PROTECT FROM DAMAGE DURING CONSTRUCTION.
9. PROVIDE PRESSURE RELIEF VALVE (30 PSI) CONNECTED TO THE EXISTING BOILER. PIPE FULL SIZE TO FLOOR DRAIN.
10. PROVIDE DRAIN PIPING WITH SHUT-OFF VALVE FROM ALL BOILER DRAINS TO FLOOR DRAIN.
11. SET EXPANSION TANK ON HOUSEKEEPING PAD. SEE PIPING DIAGRAM.
12. REFRIGERATED AIR DRYER. SUPPORT FROM WALL ABOVE COMPRESSOR.
13. DUPLEX AIR COMPRESSOR UNIT FOR TEMPERATURE CONTROL SYSTEM.
14. WALL MOUNT CHEMICAL SHOT FEEDER, ONE (1) FOR HEATING WATER SYSTEM AND ONE (1) FOR CHILLED WATER SYSTEM AT 48" (±) AFF. REFER TO SPECIFICATION SECTION 15705 AND SEE DETAIL.
15. CORE DRILL THROUGH EXISTING CHIMNEY WALL FOR INSTALLATION OF NEW 13" DIAMETER TYPE B FLUE VENT WITH APPROVED THIMBLE. TERMINATE AT EXISTING CHIMNEY FLUE LINING. SEAL AIR TIGHT AROUND NEW FLUE. SEE SPECIFICATION SECTION 15616 AND COORDINATE ALL WORK WITH DIVISION 15 - PLUMBING CONTRACTOR.
16. 3-WAY TEMPERATURE CONTROL VALVE. SEE DETAIL 3-M5.3.
17. MOUNT EQUIPMENT ON A 4" HIGH (MIN.) CONCRETE HOUSEKEEPING PAD.
18. SUPPORT UNIT HEATERS FROM STRUCTURE ABOVE. MOUNT WITH BOTTOM OF UNIT AT 10'-0" AFF.
19. CONNECTION POINT FOR COLD WATER MAKE-UP. DIVISION 15 - PLUMBING CONTRACTOR TO PIPE TO THIS POINT COMPLETE WITH BACK FLOW PREVENTER. DIVISION 15 - HVAC CONTRACTOR TO PIPE TO EXPANSION TANK VALVING. SEE PIPING DIAGRAM.
20. REINFORCED CONCRETE EQUIPMENT PAD FOR PLACEMENT OF OUTDOOR CHILLER UNIT.
21. PROVIDE WALL SLEEVES THROUGH EXISTING WALL FOR CHILLED WATER PIPING. SEAL BOTH SIDES WATERTIGHT.
22. CHILLED WATER SUPPLY AND RETURN PIPING SHALL BE INSULATED, WRAPPED WITH HEAT TAPE, AND COVER OUTDOOR PIPING WITH ALUMINUM JACKETING. REFER TO SPECIFICATION SECTION 15250.
23. FLOW SWITCH PROVIDED BY TEMPERATURE CONTROL CONTRACTOR AND INSTALLED BY DIVISION 15 HVAC CONTRACTOR.
24. ROOF-MOUNTED AIR VENTILATOR, COMPLETE WITH 12" HIGH ROOF CURB, MOTORIZED DAMPER AND THROAT DIMENSIONS TO BE 24" X 24". INTERLOCK MOTORIZED DAMPER WITH FREEZER/COOLER COMPRESSOR UNITS TO OPEN WHEN COMPRESSOR UNITS START.
25. EXISTING COMBUSTION AIR WALL LOUVER TO REMAIN IN PLACE.
26. PUMP FLOW METERING DEVICE. REFER TO SPECIFICATION SECTION 15701.
27. EXISTING HYDROSTATIC MONITORING PANEL AND FUEL OIL GAUGE TO REMAIN.
28. EXISTING FUEL OIL PIPING LOCATED IN EXISTING TRENCH TO REMAIN IN PLACE.
29. EXISTING UNDERGROUND FUEL OIL PIPING TO REMAIN IN PLACE.
30. MOUNT TEMPERATURE SENSOR ON EXISTING WALL. SENSOR SHALL CONTROL ALL (4) PROPELLER UNIT HEATERS IN MECHANICAL ROOM.
31. 8" DIAMETER, TYPE B FLUE VENT DOWN TO CONNECTION AT WATER HEATER BURNER. SEE SPECIFICATION SECTION 15616 AND COORDINATE ALL WORK WITH DIVISION 15 - PLUMBING CONTRACTOR.
32. 10" DIAMETER, TYPE B FLUE VENT DOWN TO CONNECTION AT WATER HEATER BURNER. SEE SPECIFICATION SECTION 15616 AND COORDINATE ALL WORK WITH DIVISION 15 - PLUMBING CONTRACTOR.
33. PROVIDE STEEL SUPPORTS FOR OUTDOOR PIPING. ANCHOR TO CONCRETE FOUNDATION BELOW GRADE. PRIME AND PAINT SUPPORTS. REFER TO DETAIL 6-M5.5.
34. DOMESTIC HOT WATER CIRCULATING PUMPS TO BE CONTROLLED BY DIVISION 15900 CONTRACTOR.
35. FILL IN EXISTING FLUE OPENING BETWEEN EXISTING INCINERATOR AND EXISTING CHIMNEY.
36. TEMPORARY LOCATION OF COOLING AND HEATING SYSTEM EXPANSION TANKS.

REFER TO SPECIFICATION SECTION 01010 FOR CONSTRUCTION PHASING SCHEDULE.

MECHANICAL ROOM PLAN

1/4" = 1'-0"

BOILER CONVERSION

EXISTING LOW-PRESSURE STEAM BOILERS SHALL REMAIN IN PLACE. DIVISION 15 CONTRACTOR IS REQUIRED TO PROVIDE ALL MATERIAL AND LABOR TO CONVERT THE EXISTING STEAM BOILERS TO HOT WATER HEATING BOILERS. THE CONTRACTOR SHALL PERFORM THE FOLLOWING WORK, INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING ITEMS FOR A COMPLETE CONVERSION:

A) REMOVE THE FOLLOWING ITEMS
1. STEAM PRESSURE GAUGE
2. GAUGE GLASS SET
3. WATER COLUMN
4. RELIEF VALVES
5. LOW WATER CUTOFFS
6. HIGH LIMIT PRESSURE CONTROL
7. OPERATING PRESSURE CONTROL
8. MODULATION FIRING PRESSURE CONTROL

B) ADD THE FOLLOWING ITEMS
1. COMBINATION THERMOMETER AND PRESSURE/ALTITUDE GAUGE
2. RELIEF VALVES PIPED TO DRAIN
3. PROBE TYPE LOW WATER CUTOFF
4. HIGH LIMIT AQUASTAT WITH WELL
5. OPERATING AQUASTAT WITH WELL
6. MODULATION CONTROL

C) REWIRE ALL NEW CONTROLS AS REQUIRED

D) CONTRACTOR TO REUSE EXISTING TAPPINGS IN BOILER TO INSTALL NEW CONTROLS. IF EXISTING TAPPINGS ARE NOT AVAILABLE, CONTRACTOR SHALL FABRICATE A PIPING SPOOL PIECE WITH TAPPINGS AND INSTALL THE SPOOL PIECE AT THE BOILER SUPPLY OUTLET CONNECTION.

E) CONTRACTOR SHALL PERFORM THE BOILER CONVERSION COMPLETE WITH ALL ACCESSORIES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

MISCELLANEOUS EQUIPMENT SCHEDULE

EQUIPMENT MARK	TOTAL REQUIRED	DESCRIPTION	MODEL SPECIFIED	NOTES
A	2	BASE-MOUNTED CENTRIFUGAL HEATING WATER CIRCULATING PUMPS, 80 GPM, 122' HEAD, 40 HP, 1750 RPM, 460/3/60	BELL & GOSSETT SERIES 1510, MODEL 5C	1,2,3
B	2	BASE-MOUNTED CENTRIFUGAL CHILLED WATER CIRCULATING PUMPS, 220 GPM, 145' HEAD, 40 HP, 1750 RPM, 460/3/60	BELL & GOSSETT SERIES 1510, MODEL 4G	1,2,3
C	1	AIR-COOLED RECIPROCATING LIQUID CHILLER, 214 TONS, 3.5 KW, 90° AMBIENT TEMP., 45° L.W.T., 0 UNIT/HR, 460/3/60	YORK INTERNATIONAL MODEL YCAJ89N-B	4,7,8,9
D	1	S.M.E. HEATING WATER SYSTEM AIR SEPARATOR 80 GPM CAPACITY	BELL & GOSSETT MODEL AC-8	5,6
E	1	S.M.E. CHILLED WATER SYSTEM AIR SEPARATOR 220 GPM CAPACITY	BELL & GOSSETT MODEL AC-6	5,6
F	1	S.M.E. PRESSURIZED EXPANSION TANK - HEATING WATER SYSTEM	BELL & GOSSETT MODEL B-1000	6
G	1	S.M.E. PRESSURIZED EXPANSION TANK - CHILLED WATER SYSTEM	BELL & GOSSETT MODEL B-200	6

NOTES
1. MOUNT ON CONCRETE HOUSEKEEPING PAD.
2. REFER TO SPECIFICATION SECTION 15725.
3. ONE (1) FOR STANDBY.
4. REFER TO SPECIFICATION SECTION 15676.
5. SUPPORT FROM STRUCTURE ABOVE.
6. REFER TO SPECIFICATION SECTION 15701.
7. CHILLER EVAPORATOR SHALL BE WRAPPED WITH ELECTRICAL HEAT TRACING UNDER THE INSULATION (FACTORY INSTALLED).
8. MINIMUM OF 10 STEPS OF CAPACITY CONTROL SHALL BE PROVIDED.
9. UNIT SHALL BE FURNISHED WITH WELDED WIRE MESH GUARDS MOUNTED TO THE EXTERIOR OF THE UNIT.

NORTH

STATE PROJECT #29-113

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POE MIDDLE SCHOOL
RENEWAL AND ADDITIONS
FAIRFAX COUNTY
PUBLIC SCHOOLS
FAIRFAX, VIRGINIA

PIERCE ARCHITECTURE
Architects & Interior Designers
5981 Leesburg Pike Suite 304 Bailey's Crossroads, VA 22041

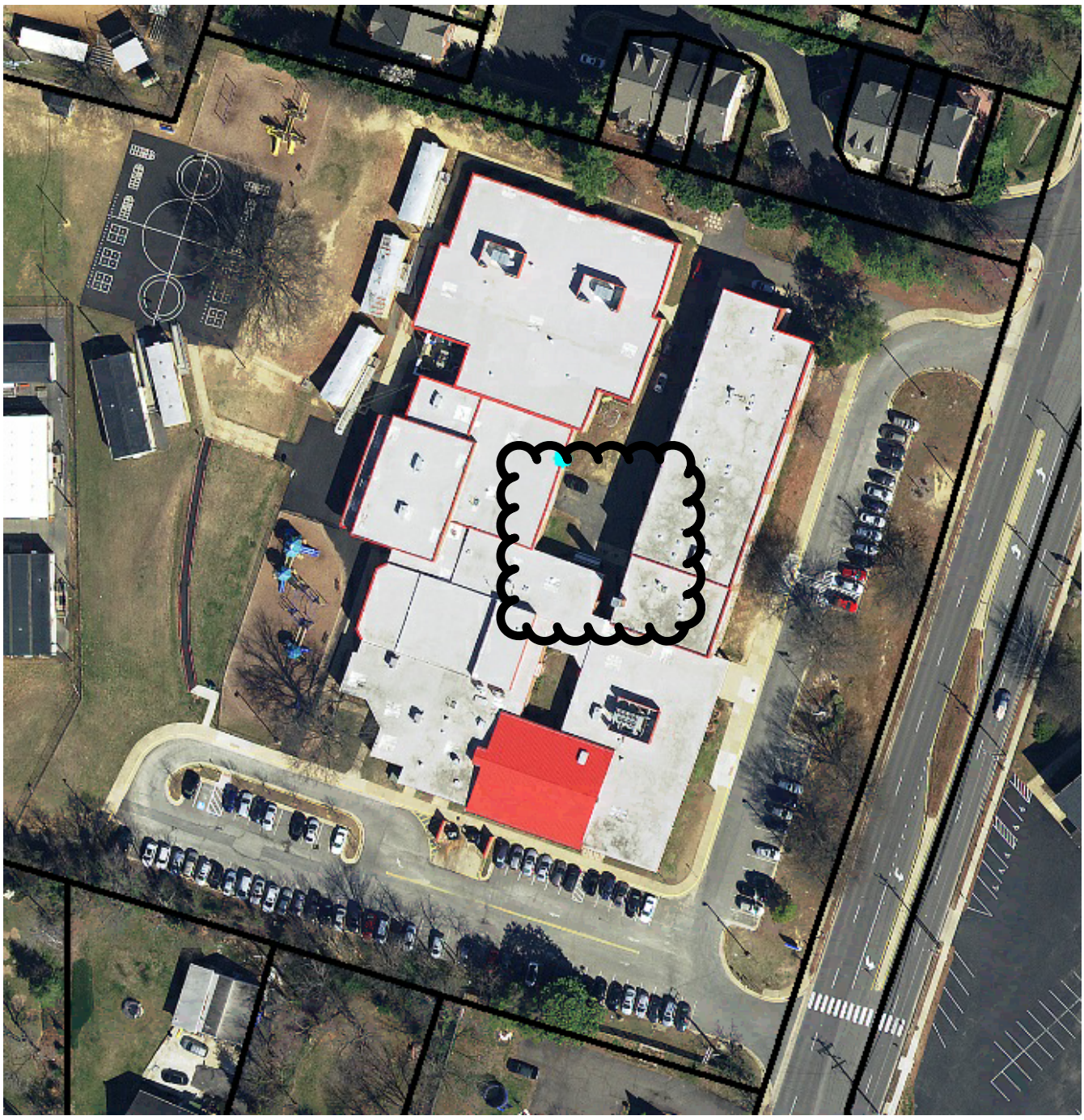
Fanning/Howey Associates, Inc.
Architects Engineers Consultants

MECHANICAL ROOM PLAN
DRAWN BY: SLH
CHECKED BY: TRL
COMM. NO.: 94007.00
DATE: SEPTEMBER 11, 1995
REVISIONS NO. DATE
M4.1
POE MIDDLE SCHOOL 94007.00

REVIEWED BY USER:Babe04 Design and Construction

Weyanoke Elementary School
6520 Braddock Rd
Alexandria, VA 22312

Weyanoke ES



PROPERTY OF FCPS D & C

Weyanoke Elementary School

NOTES:
1. THE PROPERTY DELINEATED HEREON IS LOCATED ON TAX MAP #92-1-((1))-12 AND IS CURRENTLY ZONED R-2.
2. A TITLE REPORT HAS NOT BEEN PROVIDED FOR THIS SURVEY. SUCH REPORT MAY REFLECT ADDITIONAL EASEMENTS, RIGHTS-OF-WAY, OR ENCUMBRANCES AFFECTING TITLE TO THIS PROPERTY WHICH ARE NOT SHOWN HEREON.

THE FAIRFAX COUNTY SCHOOL BOARD
"THOMAS JEFFERSON HIGH SCHOOL"
ZONED: R-2
USE: PUBLIC SCHOOL

A PORTION OF THE PROPERTY OF
THE FAIRFAX COUNTY SCHOOL BOARD
DB.617 PG.28 & DB.918 PG.302
356,561 SQ. FT. OR 8.18551 AC.
ZONED: R-2
USE: PUBLIC ELEMENTARY SCHOOL

BAT PROPERTIES, INC.
DB.6705 PG.613
ZONED: R-8
USE: VACANT LAND

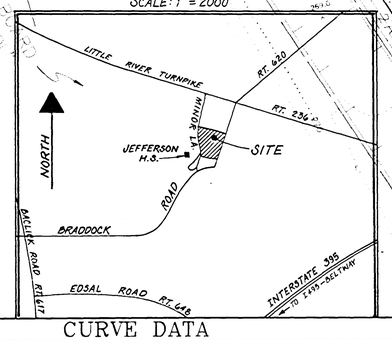
MINOR PRIVATE STREET LANE

BRADDOCK ROAD RTE. #620 80' R/W

THE FAIRFAX COUNTY SCHOOL BOARD "THOMAS JEFFERSON HIGH SCHOOL" ZONED: R-2 USE: PUBLIC SCHOOL

"SMARRLAND" DB.649 PG.599 & DB.765 PG.248 ZONED: R-2 USE: SINGLE FAMILY DETACHED

VICINITY MAP
SCALE: 1" = 2000'



STORM SEWER
1. MANHOLE
   TOP = 262.02
   INV. OUT = 259.12 (12")
2. SLOTTED DRAIN
   TOP = 263.95
   INV. OUT = 261.90 (12")
3. MANHOLE
   TOP = 264.20
   INV. IN. = 261.10 (12")
   INV. OUT = 261.00 (12")

CURVE DATA

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
1	5689.58'	77.28'	38.64'	77.28'	S 17°48'55" W	00°46'42"
2	245.51'	141.40'	72.72'	139.46'	N 00°35'04" W	33°00'00"

PARKING TABULATION:
(RESTRIPE AS SHOWN)
EXISTING SPACES: REGULAR — 60
HANDICAPPED — 2
PROPOSED SPACES: REGULAR — 62
HANDICAPPED — 3 (1 VAN HC SPACE)

LEGEND:
SPOT ELEVATION — EXISTING 63.70 — PROPOSED 63.5
CG-6 CURB & GUTTER
CG-6A CURB & GUTTER
FIRE LANE & SIGN
(SEE NOTE 23)
HC RAMP (Fairfax County Std.) CCR-2
M.H. VDOT Std. VDOT MH-1

PROPOSED ADDITIONS:
- CONSTRUCTION TYPE: 2B
- USE GROUP: E
- HEIGHT: 25' MAX.
- FOOTPRINT AREA
  EXISTING: 40,385 SF
  TOTAL ADDITIONS: 9,469SF
- BUILDING TO BE FULLY SPRINKLERED

Revisions

Stanmyre and Noel
11495 Sunset Hills Road
Reston, Virginia 22090
Telephone 703-471-9350
FAX 703-834-1031

STANMYRE NOEL ARCHITECTS

SITE PLAN EXCEPTION
FOR
WEYANOKE ELEMENTARY SCHOOL
FAIRFAX COUNTY SCHOOL BOARD
MASON DISTRICT, FAIRFAX COUNTY, VIRGINIA

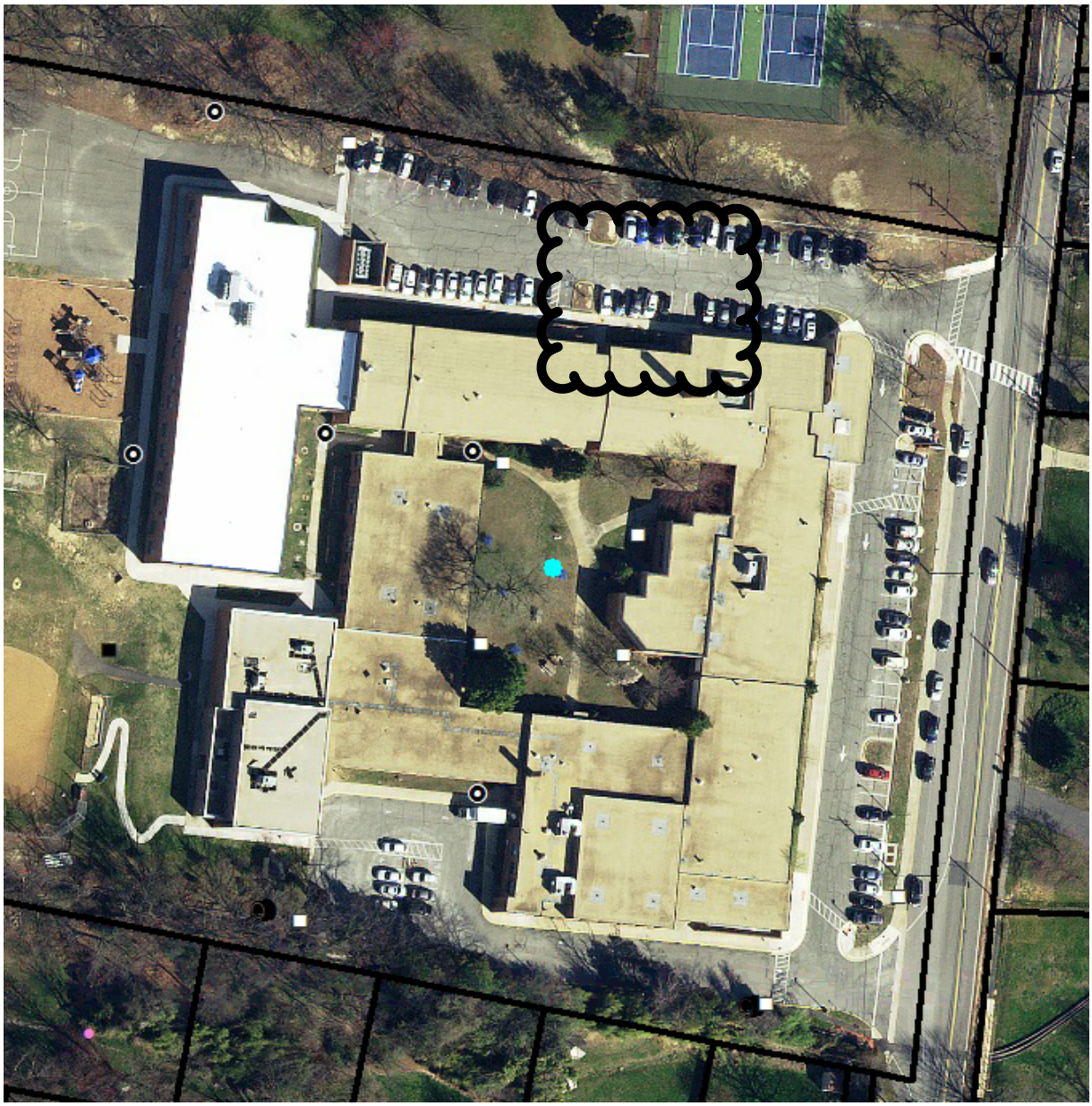
Seal: COMMONWEALTH OF VIRGINIA — Robert B. Boxer — 09180 — REGISTERED PROFESSIONAL ENGINEER

Scale	
Date	7-31-12
Job No.	9101
Drawn	DLP, SZ
Checked	CS
Bnd. Order	5
Sheet	C1

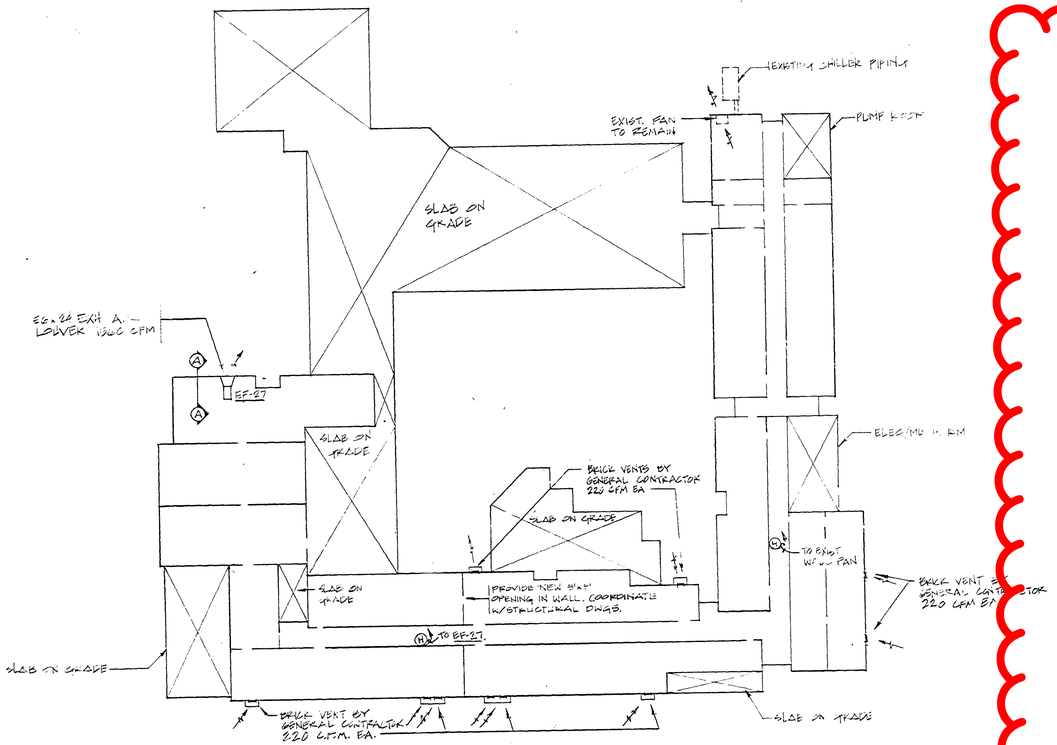
VIEWED BY USER : sideburn
Property of FCPS

Woodley Hills Elementary School
8718 Old Mt Vernon Rd
Alexandria, VA 22309

Woodley Hills ES

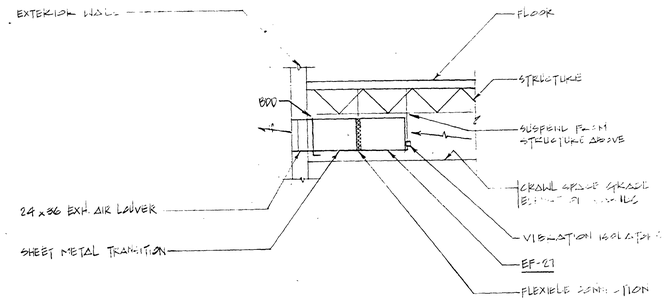


PROPERTY OF FCPS D & C



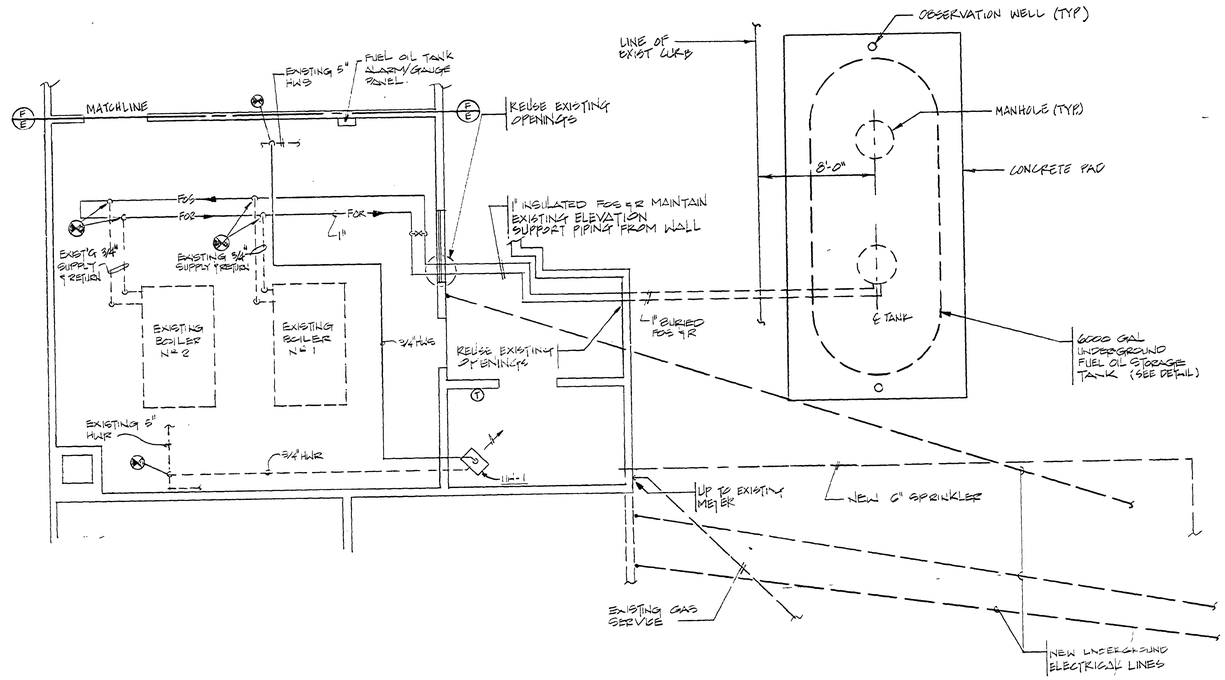
CRAWL SPACE PLAN

NO SCALE



SECTION A-A

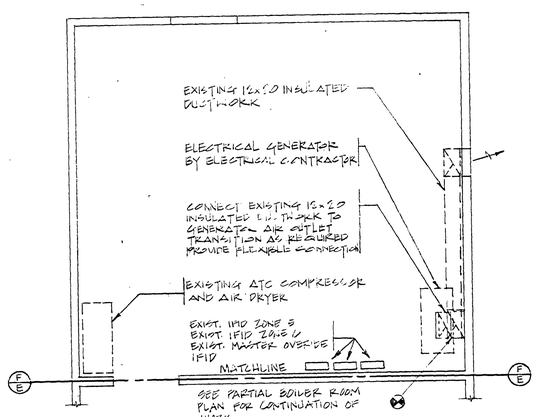
SCALE: 1/4": 1'-0"



NOTE: CONTRACTOR TO COORDINATE CLOSELY WITH NEW & EXISTING UNDERGROUND SERVICES

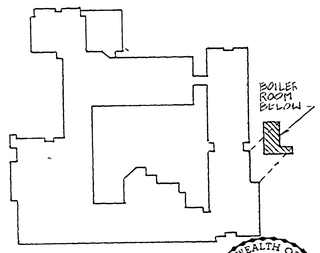
PARTIAL PLAN - BOILER ROOM & TANK LOCATION

SCALE: 1/4"=1'-0"



PARTIAL PLAN

SCALE: 1/4":1'-0"



KEY PLAN

PLANS CHECKED BY MECHANICAL ENGINEER
- ☐ Approved
- ☑ Approved as noted
- ☐ Approved for issuance of Building Permit only
- ☐ Not approved resubmit

Date 11-25-92
By

COMMONWEALTH OF VIRGINIA JOHN E. FARRELL #016201 PROFESSIONAL ENGINEER

KTA

KOBLOS, TOWNSEND and ASSOCIATES, INC
1801 Alexander Bell Dr Suite 650 Reston Virginia 22091 (703) 758-8771

STATE PROJECT 2959-G

Woodley Hills ES

WOODLEY HILLS ELEMENTARY SCHOOL

OFFICE OF FIRE MARSHAL

NEW WORK MECHANICAL DETAILS

1/4"=1'-0"
9021
7-01 92

ANTHONY E. USOLINO MECHANICAL ENGINEER 10666 JUDICIAL DRIVE FAIRFAX CITY VA 22030 TELEPHONE 703/591-3711 ARCHITECT

SHEET M3.1 OF 12

VIEWED BY USER: baber04 Property of FCPS

PROPERTY OF FCPS D & C

UNIT VENTILATOR SCHEDULE

UNIT DESIGNATION		UV-1	UV-2 & -3	UV-4 & -5	UV-6	UV-7
CFM		1200	1200	1200	1200	1200
OA CFM		250	250	250	250	100
COOLING	TOTAL HEAT	35.7	35.7	31.2	35.7	29.4
	SENSIBLE HEAT	25.7	25.7	24.4	25.7	28.4
	GPM	6	6	4	6	4
	PD (FT)	5	6.5	3.1	6.5	6.5
HEATING	HOT WATER MBH	26	27	30	26	32
	GPM	3.0	3.0	3.5	3.0	3.5
	PD (FT)	3.5	3.0	3.5	3.5	4.0
ELECTRICAL V/PH/HZ		115/1/60	115/1/60	115/1/60	115/1/60	115/1/60
BASIS OF DESIGN - TRANE		TUVA12V	TUVA12V	TUVA12A	TUVA12A	TUVA12A

NOTES:
1. 1/4 HP
2. PROVIDE WITH THROW-AWAY FILTER

FAN COIL UNIT SCHEDULE

UNIT DESIGNATION		FCU-1	FCU-2	FCU-3	FCU-4	FCU-5	FCU-6	FCU-7	FCU-8	FCU-9	FCU-10
TYPE (SEE BELOW)		HC	V	V	V	V	HC	HC	V	V	HR
TOTAL CFM		1000	400	400	600	600	600	600	200	400	200
MINIMUM O.A. CFM		0	100	100	0	0	200	200	20	50	30
COOLING	TOTAL MBH	21.9	12.1	12.1	13.2	13.2	21.3	21.3	4.9	9.1	5
	SEN. MBH	17	8.6	8.6	9.7	9.7	13.2	13.2	4.0	7.1	4.3
	GPM	4.5	2.5	2.5	2.7	2.7	4.5	4.5	1	2	1.1
	WATER PD (FT)	5.6	9.9	9.9	9.2	9.2	22	22	.7	3.3	1.5
HEATING	MBH	12	12	12	13	13	21	21	6	13	6
	GPM	1.5	1.5	1.5	1.5	1.5	2.5	2.5	1	1.5	1
	WATER PD (FT)	1.5	4	4	4	4	5	5	1	4	1
FAN	H.P.	1/3	1/30	1/30	1/20	1/20	1/8	1/8	1/60	1/30	1/15
	V / PH / HZ	115/1/60	115/1/60	115/1/60	115/1/60	115/1/60	115/1/60	115/1/60	115/1/60	115/1/60	115/1/60
PROTOTYPE: TRANE		CA010	BD004	BD004	BA006	BA006	CA006	CA006	BA002	BA004	E4002
NOTE NO:		1,2,3,4	1,2,3,4	1,2,3,4	1,2,3,4	1,2,3,4	2,3,4,5	2,3,4,5	1,2,3,4	1,2,3,4	1,2,3,4

TYPES:
V VERTICAL CABINET.
HC HORIZONTAL CONCEALED.
HR HORIZONTAL RECESSED.

NOTES:
1. COOLING CAPACITY BASED ON EAT OF 75°FDB/64°FWB WITH 45°F EWT AND 10°F WTR.
2. HEATING CAPACITY BASED ON 20°F WTD.
3. PROVIDE WITH UNIT MOUNTED DISCONNECT SWITCH.
4. CAPACITIES WITH FAN AT HIGH SPEED.
5. COOLING CAPACITY BASED ON EAT OF 85° FDB / 71° FWB WITH 45°F EWT AND 10° FWTR.

AIR TERMINALS SCHEDULE

DESIG.	ITEM	CFM RANGE	NECK SIZE	FACE SIZE	PROTOTYPE CARNES	NOTES
1	CLG. DIFFUSER	0 - 150	6 X 6	24 X 24	SKTA	1,2
2	CLG. DIFFUSER	151 - 300	9 X 9	24 X 24	SKTA	1,2
3	CLG. DIFFUSER	301 - 500	12 X 12	24 X 24	SKTA	1,2
1	RETURN/TRANS. GRILLE	0 - 170	10 X 6	12 X 8	RSLAH-T	1,3
2	RETURN/TRANS. GRILLE	171 - 230	10 X 8	12 X 10	RSLAH-T	1,3
3	RETURN/TRANS. GRILLE	231 - 300	10 X 10	12 X 12	RSLAH-T	1,3
4	RETURN/TRANS. GRILLE	301 - 400	10 X 14	12 X 16	RSLAH-T	1,3
5	RETURN/TRANS. GRILLE	401 - 700	18 X 12	20 X 14	RSLAH-T	1,3
6	RETURN GRILLE	701 - 1050	30 X 12	32 X 14	RSLAH-T	1
7	RETURN GRILLE	1051 - 1200	24 X 16	26 X 18	RSLAH-T	1
8	RETURN GRILLE	1201 - 1900	28 X 24	30 X 26	RSLAH-T	1
9	RETURN GRILLE	3000	36 X 24	38 X 26	RSLAH-T	1
1	EXHAUST GRILLE	0 - 75	8 X 4	10 X 6	RSLAH-T	1
2	EXHAUST GRILLE	76 - 120	10 X 5	12 X 7	RSLAH-T	1
3	EXHAUST GRILLE	121 - 190	12 X 6	14 X 8	RSLAH-T	1
4	EXHAUST GRILLE	191 - 450	14 X 10	16 X 12	RSLAH-T	1
5	EXHAUST GRILLE	451 - 675	18 X 12	20 X 14	RSLAH-T	1
6	EXHAUST GRILLE	676 - 1000	36 X 10	36 X 12	RSLAH-T	1

NOTES
1. PROVIDE WITH OPPOSED BLADE DAMPER.
2. FOUR-WAY BLOW, UNLESS NOTED.
3. NO OPPOSED BLADE DAMPER WHEN USED AS TRANSFER GRILLE.

ENVELOPE STUDY

LOCATION: Woodley Hills Elem. School Library and Music Addition   JURISDICTION: Fairfax County, VA

ANNUAL HEATING DEGREE DAYS 4500
DEGREES NORTH LATITUDE 38.5

DESIGN TEMPERATURES

	Outdoor	Indoor
WINTER DRY BULB	17°F	70°F
SUMMER DRY BULB	91°F	78°F
SUMMER WET BULB	77°F	

ENVELOPE AS DESIGNED

WALLS	2098	AREA X .082	U = 172	BTUH/DEG
GLASS	536	AREA X .57	U = 306	BTUH/DEG
ROOF	6008	AREA X .058	U = 348	BTUH/DEG
		TOTAL AS DESIGNED =	826	BTUH/DEG

ENVELOPE AS ALLOWED

WALLS	2634	GROSS AREA X .3	U = 790	BTUH/DEG
ROOF	6008	GROSS AREA X .087	U = 522	BTUH/DEG
		TOTAL AS ALLOWED =	1312	BTUH/DEG

FLOOR CALCULATIONS

		DESIGNED	ALLOWED
SLAB ON GRADE (R)	=	5	4.0
FLOORS OVER HEATED SPACES (U)	=	N/A	N/A

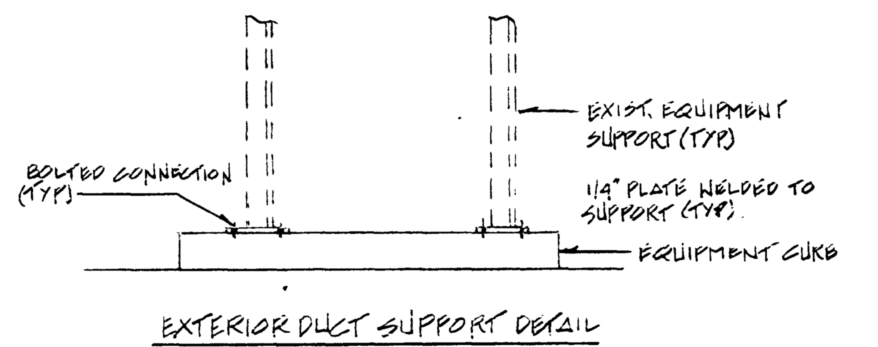
OTTV

SOLAR FACTOR (SF) = 126   TEMPERATURE DIFFERENTIAL (TD) = 13
GLASS (U_{f1}) = .57   GLASS SHADING COEFFICIENT (SC_1) = .78
WALL (U_{w1}) = .082   WALL EQUIVALENT TEMP DIFFERENTIAL (TD_{eqw}) = 30
ROOF (U_r) = .058   ROOF EQUIVALENT TEMP DIFFERENTIAL (TD_{eqr}) = 77

OTTV AS DESIGNED 23.5 (WALL)   OTTV ALLOWED 33 (WALL)
OTTV AS DESIGNED 4.5 (ROOF)   OTTV ALLOWED 8.5 (ROOF)

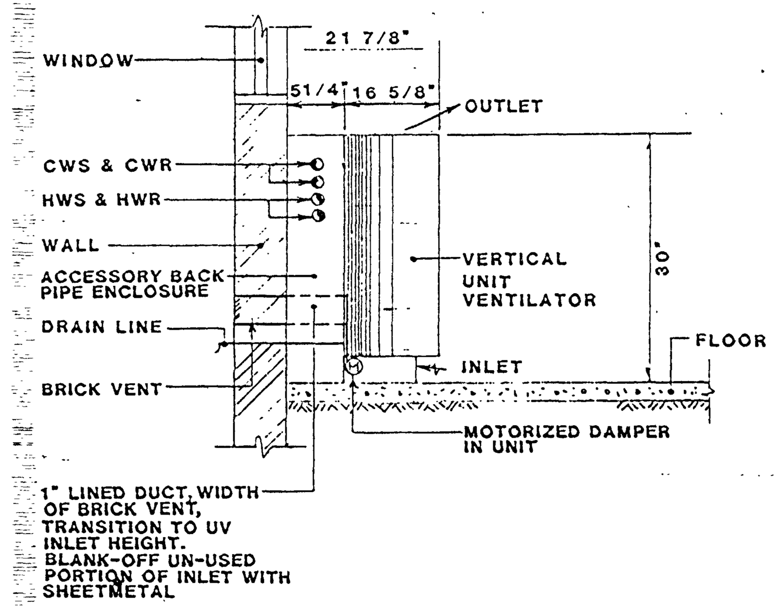
MECHANICAL EQUIPMENT

	DESIGNED	ALLOWED
RTU EER	8.72	8.0
RTU COP	2.6	2.4
RTU ATF	8.3	5.5

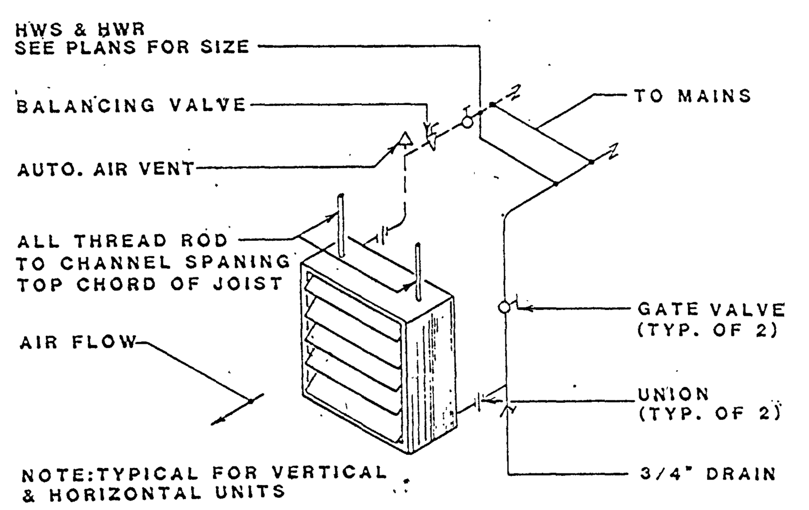


EXTERIOR DUCT SUPPORT DETAIL
NO SCALE

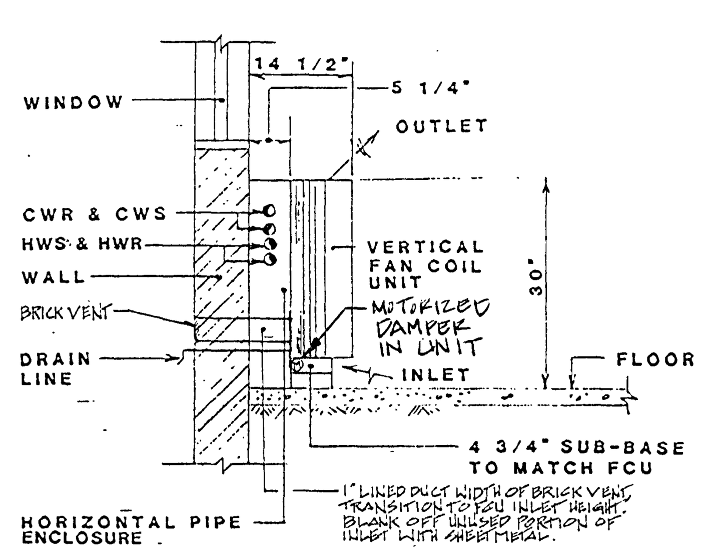
Woodley Hills ES



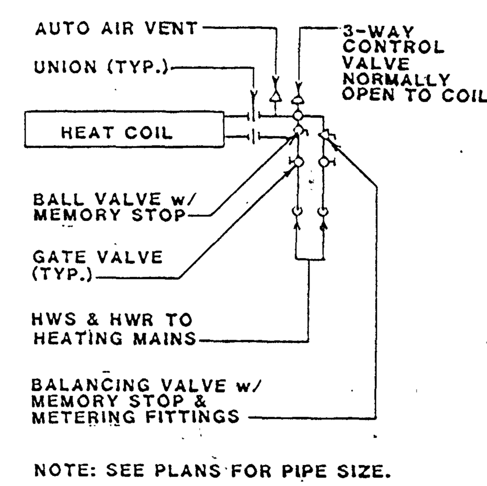
UV SECTION DETAIL
NOT TO SCALE



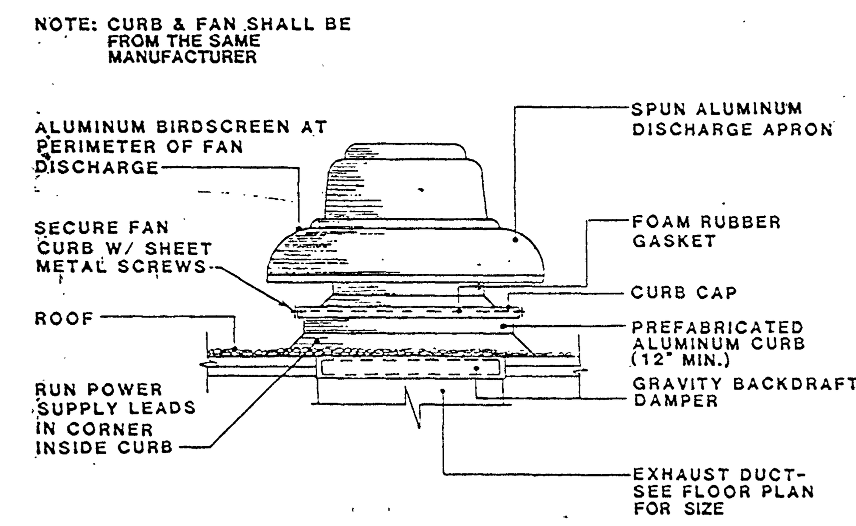
UH & PIPING DETAIL
NOT TO SCALE



TYPICAL FCU SECTION DETAIL
NOT TO SCALE
NOTE: FOR FCU WITH NO OUTSIDE AIR DELETE BRICK VENT AND MOTORIZED DAMPER.



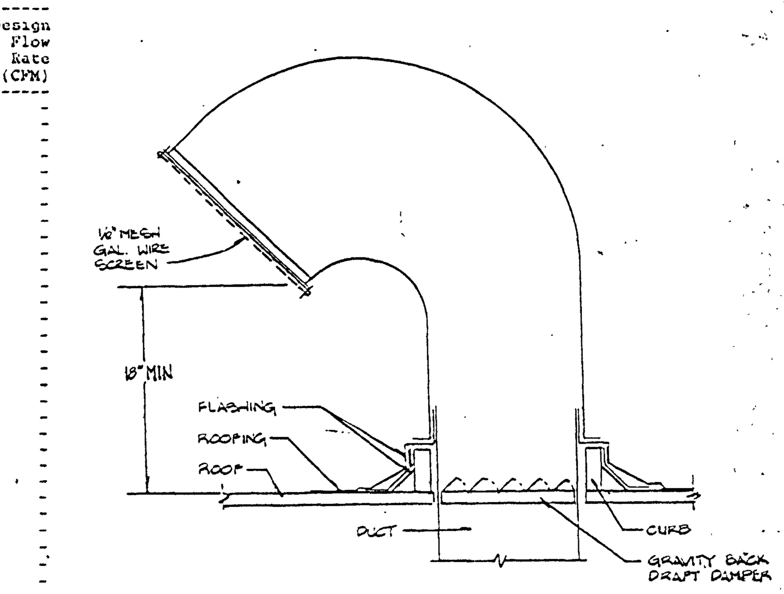
HEATING COIL PIPING DETAIL
NOT TO SCALE



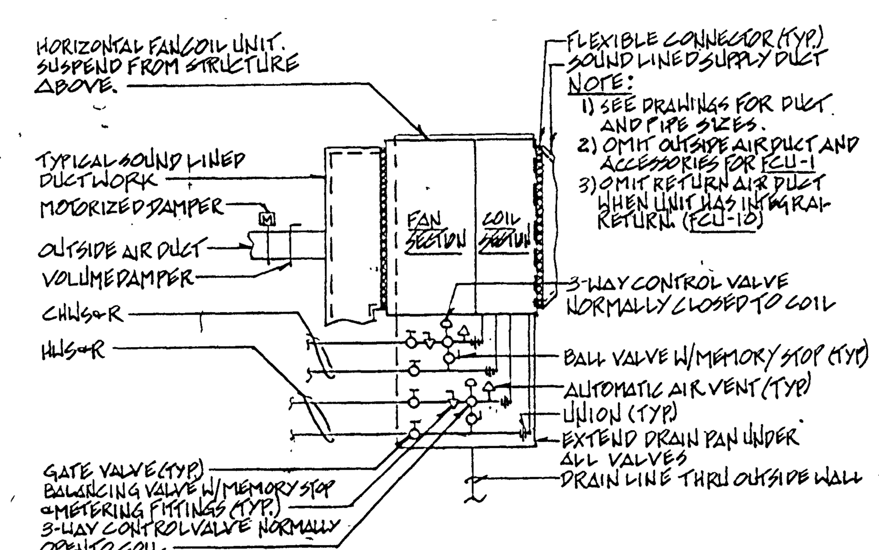
PRV DETAIL
NOT TO SCALE

SPACE LOAD SCHEDULE

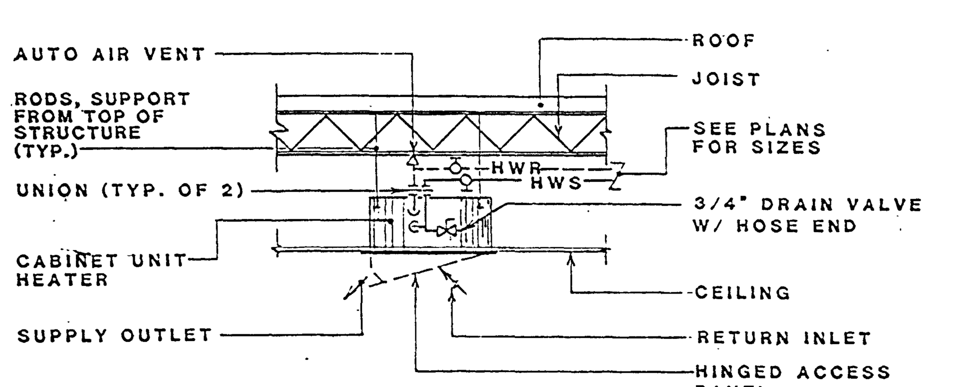
Zone Name	Maximum Cooling Sensible (BTU/hr)	Design Airflow Rate (CFM)	Design Time	Maximum Heating Load (BTU/hr)	Design Flow Rate (CFM)
MUSIC STOR RT	2,527	146	@June 1700	3,469	-
MUSIC STOR CENTER	2,343	136	@June 1200	2,149	-
MUSIC STOR LEFT	3,568	207	@June 1700	3,634	-
GENERAL MUSIC	15,852	918	@June 1700	8,765	-
TEACH WK RM	4,931	285	@June 1700	4,665	-
GYM OFFICE	2,191	127	@June 1700	3,332	-
GYMNASIUM	53,294	3,086	@June 1700	56,443	-
COMPUTER	24,770	1,434	@June 1700	8,078	-
FLEX	20,158	1,167	@June 1700	10,109	-
BOOK STOR	3,875	224	@June 1700	4,366	-
PRINCIPAL	5,257	304	@June 1700	9,230	-
CONFERENCE	5,763	334	@June 1700	5,647	-
ASST PRINCIPAL	3,837	222	@June 1700	4,832	-
WORK ROOM	4,529	262	@June 1700	5,745	-
RECEPTION	22,120	1,281	@June 800	22,069	-
CLINIC	3,135	182	@June 1700	2,280	-
VAULT	3,948	229	@June 1700	2,872	-
CORRIDOR	4,297	249	@June 1700	3,125	-
COMMUNICATIONS	4,809	278	@June 1700	1,170	-
LIBRARY INTERIOR	19,455	1,126	@June 1700	6,569	-
OFFICE	3,388	196	@June 1700	1,955	-
STORAGE, LIB	2,344	136	@June 1700	1,516	-
PRODUCTION	2,216	128	@June 1700	1,197	-
CONFR/STUDIO	5,397	312	@June 1700	4,518	-
LIBRARY EXTERIOR	38,445	2,226	@June 1700	27,846	-
STAGE MUSIC	22,054	1,277	@June 1700	3,787	-
RESOURCE	37,015	2,143	@Sept 1400	20,860	-
LOUNGE	20,009	1,158	@Sept 1400	26,429	-
CLASSROOM TOP/BOT	17,069	988	@June 1700	12,991	-
OFFICES	7,293	422	@June 1700	4,694	-
CRT	4,781	277	@June 1700	5,139	-
LOBBY	17,291	1,001	@June 900	11,768	-
ITIN	7,671	444	@June 800	5,234	-
GIRL REST	5,626	326	@Sept 1400	5,536	-
BOYS REST	4,296	249	@June 1700	5,536	-
SPRINKLER	1,322	77	@June 1700	8,487	-
DRY STORAGE	2,396	139	@June 1700	1,824	-
ITIN CLASS	8,494	492	@June 1700	2,327	-
ITIN A AREA	8,499	492	@June 800	4,919	-
TEACH WK RM	7,954	460	@June 800	7,023	-



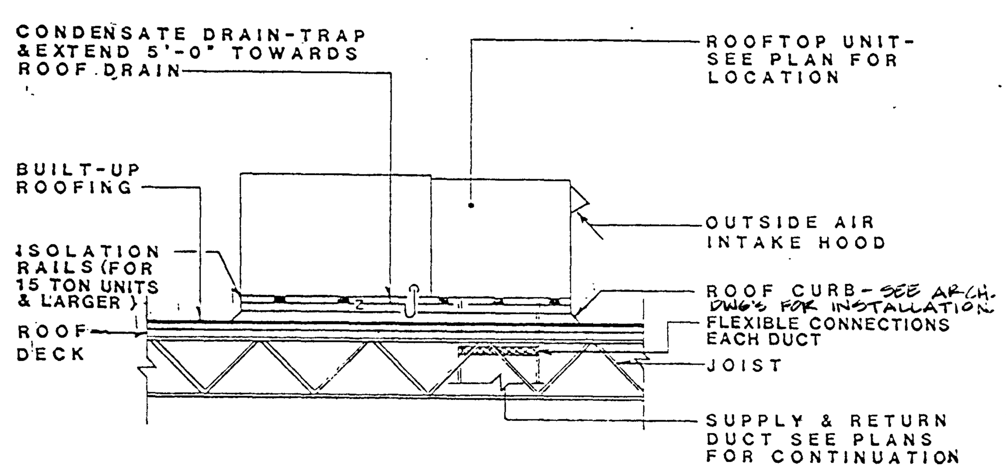
GOOSENECK DETAIL - TYPICAL
NO SCALE



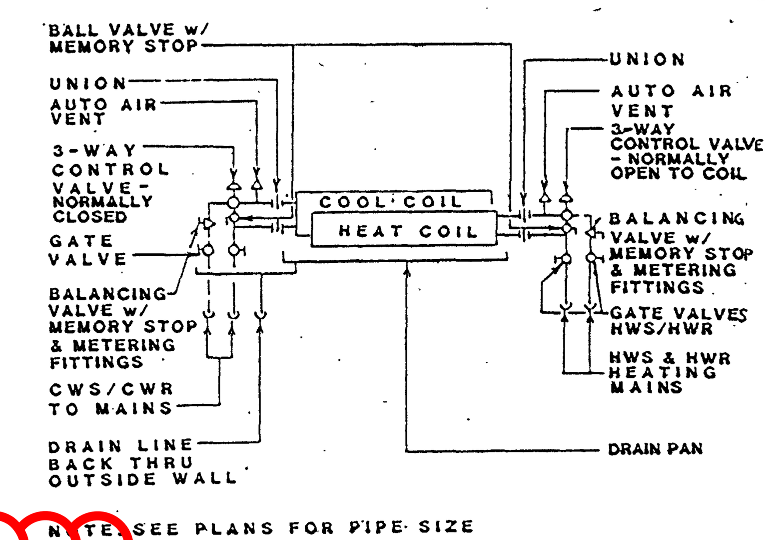
HORIZONTAL 4 PIPE FANCOIL UNIT DETAIL
NO SCALE



CEILING MOUNTED
CUH & PIPING DETAIL
NOT TO SCALE



RTU DETAIL
NOT TO SCALE



UV & FCU PIPING DETAIL
NOT TO SCALE

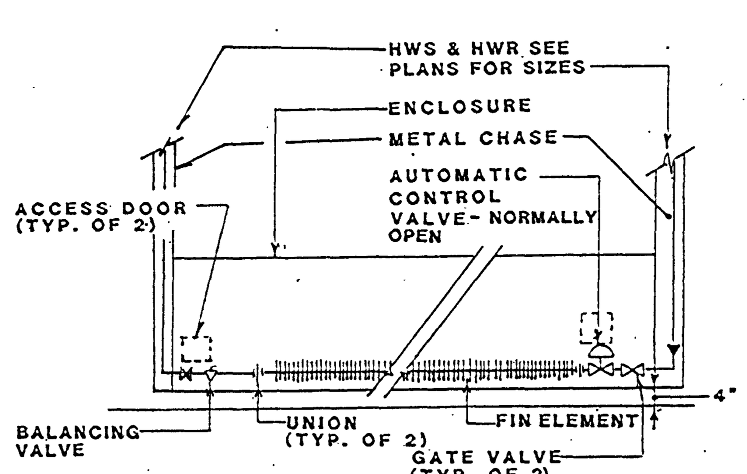
TANK FLOTATION CALCULATION

ASSUME WATER TABLE AT BOTTOM OF COVER SLAB AND AN EMPTY TANK WITH NO WEIGHT

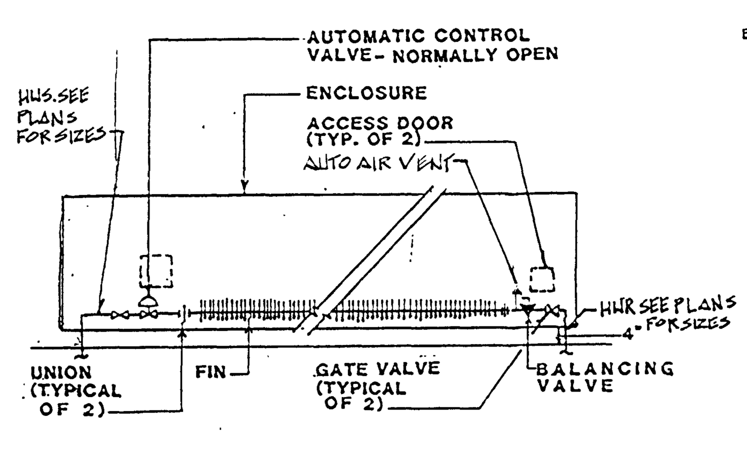
6,000 GAL. TANK - 19.75' LONG X 8' DIAMETER

SLAB COVER FORCE - 167 CU. FT. X 144 LBS./CU. FT.	=	24,048
BACKFILL COVER FORCE - 534 CU. FT. X 95 LBS./CU. FT.	=	50,730
DEADMEN FORCE - 40 CU. FT. X 144 LBS./CU. FT.	=	5,760
TANK FRICTION FORCE - 52 SQ. FT. X 500 LBS./CU. FT.	=	26,000
DEADMEN FRICTION FORCE - 52 SQ. FT. X 500 LBS./SQ. FT.	=	20,000
TOTAL FORCE DOWN		126,538 LBS.
TANK BOUYANT FORCE - 6,000 GALS. X 8.32 LBS./GAL.	=	49,920
DEADMEN BOUYANT FORCE - 40 CU. FT. X 62.4 LBS./CU. FT.	=	2,496
TOTAL FORCE UP		52,416 LBS.

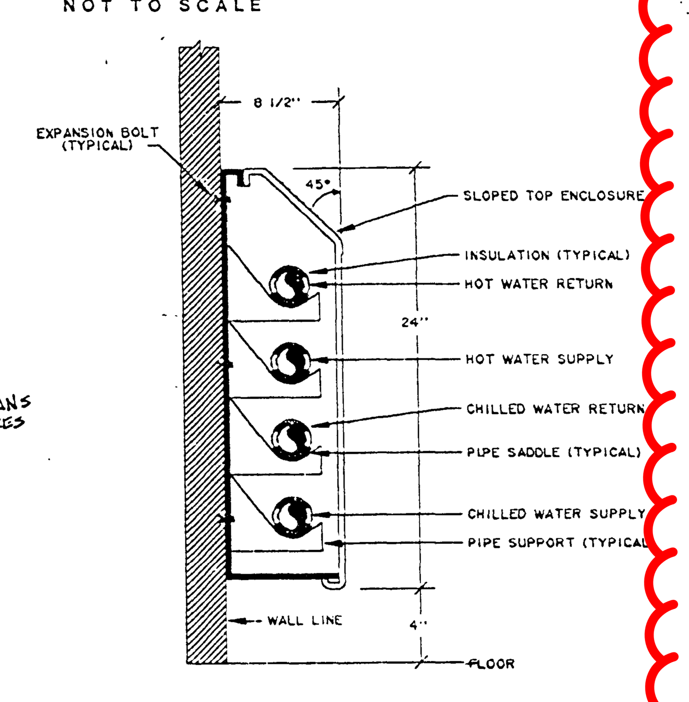
TOTAL FORCE DOWN / TOTAL FORCE UP = 126,538 / 52,416 = 2.4 SAFETY FACTOR



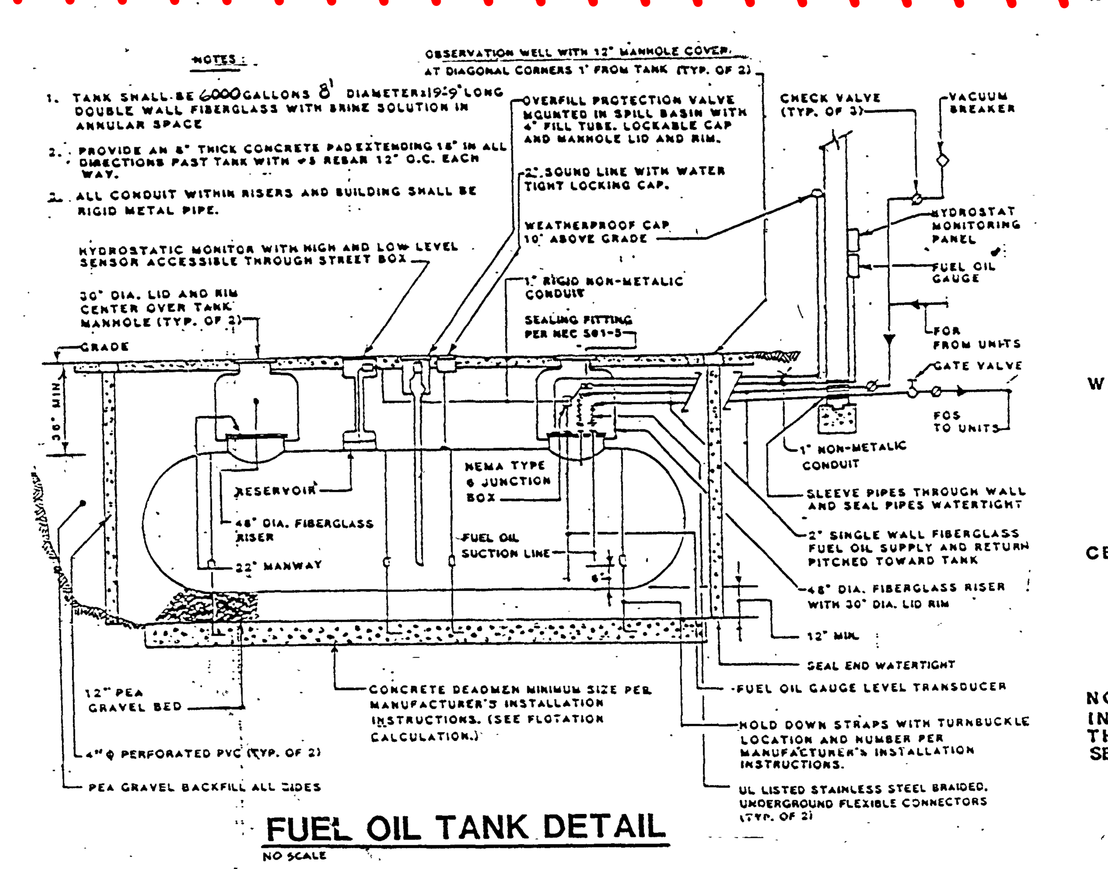
FIN-TUBE RADIATION DETAIL
NOT TO SCALE



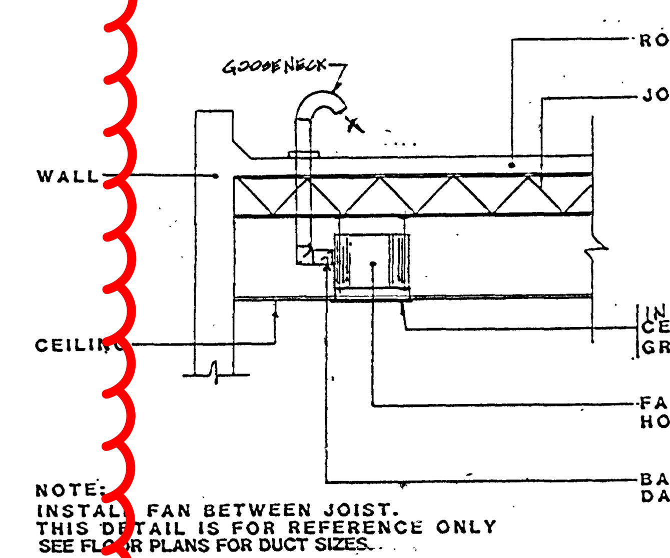
FIN-TUBE RADIATION DETAIL
NOT TO SCALE



PIPE ENCLOSURE DETAIL
SCALE: NONE



FUEL OIL TANK DETAIL
NO SCALE



NOTE: INSTALL FAN BETWEEN JOIST. THIS DETAIL IS FOR REFERENCE ONLY SEE FLOOR PLANS FOR DUCT SIZES.

CEILING EXHAUST FAN DETAIL
NOT TO SCALE

PLANS CHECKED BY MECHANICAL ENGINEER
☐ Approved
☑ Approved as noted
☐ Approved for issuance of Building Permit only
☐ Not approved, resubmit
Date 11-25-92
By [signature]

COMMONWEALTH OF VIRGINIA
JOHN E. FARRELL
#016201
PROFESSIONAL ENGINEER

STATE PROJECT 2959-G

KTA
KOBLOS, TOWNSEND and ASSOCIATES, INC.
1801 Alexander Bell Dr. Suite 650 Reston, Virginia 22091
(703) 758-8771

WOODLEY HILLS ELEMENTARY SCHOOL

SCHEDULES AND DETAILS

OFFICE OF FIRE MARSHAL

NONE
9012.1
7-01-92

MUSOLINO A.I.A. P.C. ARCHITECTS
ANTHONY F. MUSOLINO
10505 JUDICIAL DRIVE
FAIRFAX CITY, VA 22030
TELEPHONE 703 591 5711

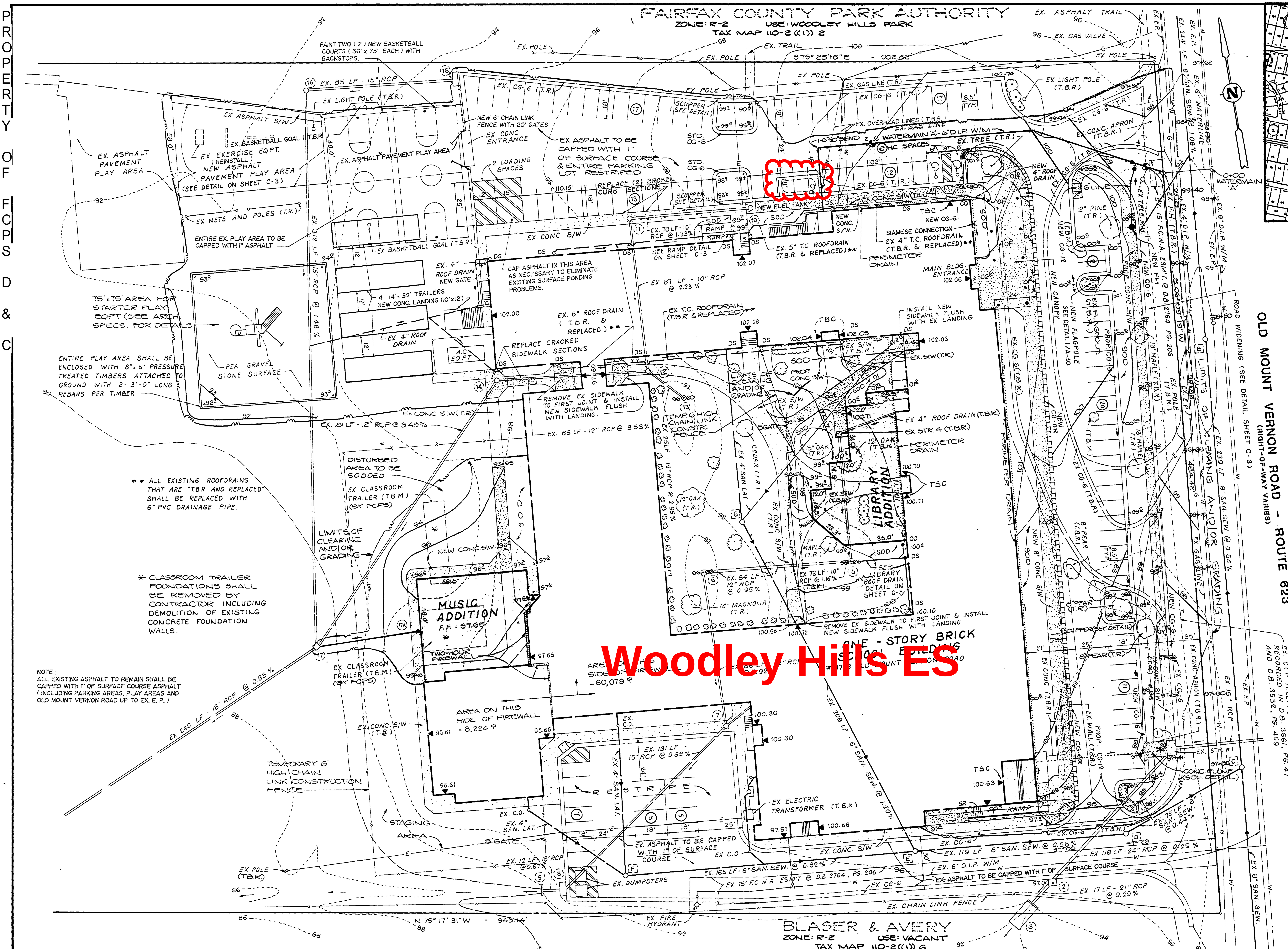
M1.2
12

VIEWED BY USER : baber04
Property of FCPS

PROPERTY OF FCPS D & C

FAIRFAX COUNTY PARK AUTHORITY

ZONE: R-2 USE: WOODLEY HILLS PARK
TAX MAP 110-2 ((1)) 2



** ALL EXISTING ROOFDRAINS THAT ARE "T.B.R AND REPLACED" SHALL BE REPLACED WITH 6" PVC DRAINAGE PIPE.

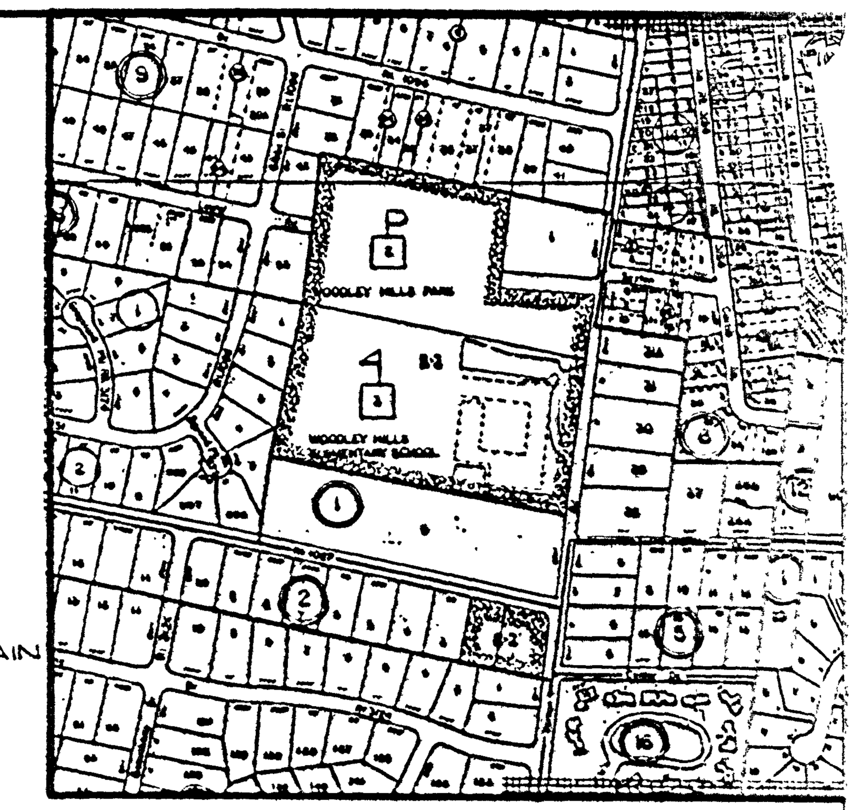
* CLASSROOM TRAILER FOUNDATIONS SHALL BE REMOVED BY CONTRACTOR INCLUDING DEMOLITION OF EXISTING CONCRETE FOUNDATION WALLS.

NOTE: ALL EXISTING ASPHALT TO REMAIN SHALL BE CAPPED WITH 1" OF SURFACE COURSE ASPHALT (INCLUDING PARKING AREAS, PLAY AREAS AND OLD MOUNT VERNON ROAD UP TO EX. E. P.)

Woodley Hills ES

BLASER & AVERY

ZONE: R-2 USE: VACANT
TAX MAP 110-2 ((1)) 6



VICINITY MAP
SCALE: 1" - 2000'

LEGEND	EXISTING	PROPOSED
TOPOGRAPHY	226	226
SPOT ELEVATION	23.1+	23¹+
PROPERTY LINE		
EDGE OF PAVEMENT	EP	EP
CURB & GUTTER		
CONCRETE SIDE WALK		
FENCE LINE		
SANITARY SEWER	MH	MH
STORM SEWER	MH	MH
CURB INLET		
WATER LINE	W	W
GAS LINE	G	G
OVERHEAD WIRES		
GUY WIRE TO POWER POLE		

LEGEND

T.B.R.	TO BE REMOVED BY CONT.
T.R.	TO REMAIN
T.B.M.	TO BE RELOCATED BY CONT
▼	BUILDING ENTRANCE
(5)	PARKING SPACE TOTAL
▼ TBC	BUILDING ENTRANCE TO BE CLOSED
TRANSITION CG-6 / CG-6R	
	NEW PAVEMENT
DS	DOWNSPOUT
CO	CLEANOUT
....	PERIMETER DRAIN

PLANS REVIEWED BY FIRE MARSHAL
Plans are:
✓ Approved
Approved as noted
Not Approved, Correct and Resubmit
BY Ralph Fireman 4/7/93 (Date)
OFFICE OF FIRE MARSHAL

STATE PROJECT
I.D. # 2959 - G

COMMONWEALTH OF VIRGINIA
JACK W. WEYANT
No. 13445
PROFESSIONAL ENGINEER

C - 1

APPROVED:

REVISIONS:

POLINS, WEYANT & HAMM, INC.
Engineering, Land Surveying and Planning
Village Square Office Park
13662 Office Place, Suite 202
Woodbridge, VA 22192
(703) 680-7499
Metro 690-6527
FAX (703) 680-7759

DATE:	APRIL 1992
SCALE:	1" = 25'
DESIGN:	J. W. W.
DRAWN:	J.W.W., Y.G.S.
CHECKED:	R.A.P.

SITE PLAN EXCEPTION

WOODLEY HILLS ELEMENTARY SCHOOL

MOUNT VERNON DISTRICT
FAIRFAX COUNTY, VIRGINIA

*OFFICE COPY - Do Not Remove

VIEWED BY USER : baber04

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