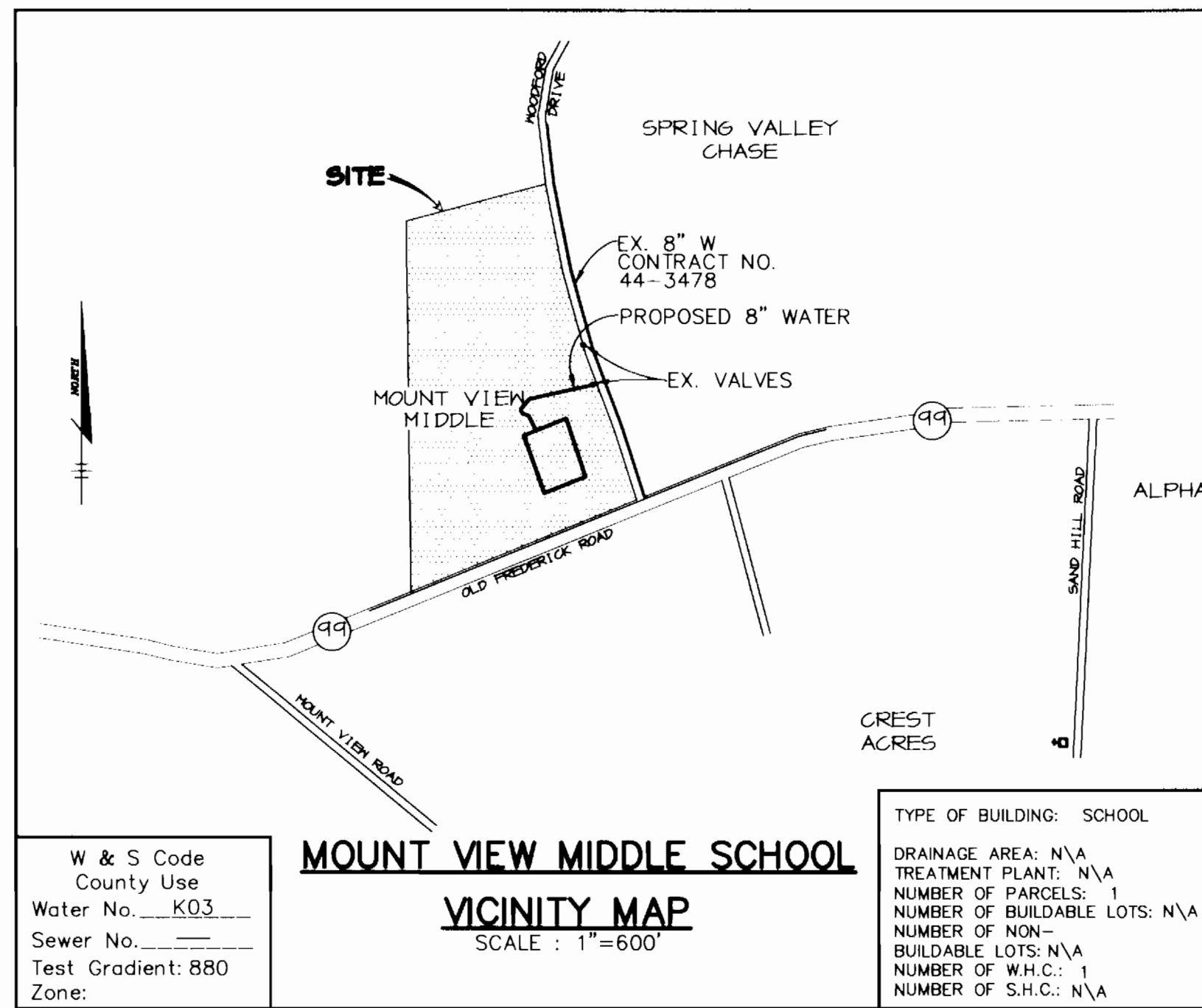


# MOUNT VIEW MIDDLE SCHOOL WATER SERVICE CONNECTION PROJECT

## WATER CONTRACT NO. 44-3626-D

### LEGEND

- c - - - - - c - - - - - c - - - - -	EXISTING ELECTRIC CONDUIT
- c - - - - - c - - - - - c - - - - -	PROPOSED ELECTRIC CONDUIT
- T - - - - - T - - - - - T - - - - -	PROPOSED TELEPHONE CONDUIT
- - - - -	CENTERLINE OF ROAD
- - - - -	EXISTING WATER LINE
- - - - -	EXISTING EDGE OF PAVEMENT
- x - - - - - x - - - - - x - - - - -	EXISTING FENCING
- - - - -	EXISTING STORM DRAIN
- - - - -	EXISTING GAS
- - - - -	PROPERTY LINE
- - - - - 200 - - - - -	EXISTING CONTOUR LINES
- - - - - 200 - - - - -	FINISHED CONTOUR LINES
- - - - -	RIGHT OF WAY
- OH - - - - - OH - - - - - OH - - - - -	OVERHEAD WIRES
- - - - -	PROPOSED WATERLINE



W & S Code County Use  
Water No. K03  
Sewer No. \_\_\_\_\_  
Test Gradient: 880  
Zone: \_\_\_\_\_

TYPE OF BUILDING: SCHOOL  
DRAINAGE AREA: N/A  
TREATMENT PLANT: N/A  
NUMBER OF PARCELS: 1  
NUMBER OF BUILDABLE LOTS: N/A  
NUMBER OF NON-BUILDABLE LOTS: N/A  
NUMBER OF W.H.C.: 1  
NUMBER OF S.H.C.: N/A

### GENERAL NOTES

- Approximate location of existing mains are shown. The Contractor shall take all necessary precautions to protect existing mains and services and maintain uninterrupted supply. Any damage incurred shall be repaired immediately to the satisfaction of the Engineer at the Contractor's expense.
- All horizontal controls are based on NAD 83.
- Vertical controls are based on U.S.G.S. data.
- All pipe elevations shown are invert elevations.
- Clear all utilities by a minimum of 6". Clear all poles by 2'-0" minimum or tunnel as required. The Owner has contacted the utility companies and has made arrangements for bracing of poles as shown on the drawings. In the event the Contractor's work requires the bracing of additional poles, any cost incurred by the Owner for bracing of additional poles or damages shall be deducted from money owed the Contractor. The Contractor shall coordinate with the utility companies to schedule the bracing of the poles.
- For details not shown on the drawings, and for materials required, refer to Specifications.
- Where test pits have been made on existing utilities, they are noted by the symbol at the location of the test pit. A note or notes containing the results of the test pit or pits is included on the drawings. Existing utilities in the vicinity of the proposed work for which test pits have not been dug shall be located by the Contractor two weeks in advance of construction operations at his own expense.
- Contractor shall notify the following utility companies or agencies at least five working days before starting work shown on these plans:  

State Highway Administration	531-5533
Baltimore Gas & Electric Co. Contractor Services	850-4620
Baltimore Gas & Electric Co. Underground Damage Control	787-9068
Miss Utility	1-800-235-7300
Colonial Pipeline Co.	235-7300
Bureau of Utilities, Howard County Department of Public Works	313-4900
- Trees and shrubs are to be protected from damage to maximum extent. Trees and shrubs located within the construction strip are not to be removed or damaged by the Contractor.
- Contractor shall remove trees, stumps and roots along line of excavation. Payment for such removal shall be included in the unit price bid for construction of the main.
- All water mains to be D.I.P. Class 52 unless otherwise noted.
- All water mains to have a minimum of 3'-1/2' cover unless otherwise noted.
- Valves adjacent to tees shall be strapped to tees.
- All fittings shall be buttressed or anchored with concrete in accordance with the Standard Details unless otherwise provided for on the drawings.
- Fire hydrants shall be set to the bury line elevations shown on the drawings. All fire hydrants shall be restrained and buttressed with concrete in accordance with Standard Details. Soil around the fire hydrant shall be compacted in accordance with Section 1000 and 1005 of the Standard Specifications.
- The Contractor shall not operate any water main valves on the existing water system.
- All water house connections shall be for inside meter setting unless otherwise noted on plans or in specifications.
- Contractor is solely responsible for construction means, methods, techniques, sequences, procedures, and safety precautions and programs.
- Fire hydrants shall be installed as per standard detail W.1.11.
- Fire hydrants will be located 3' FROM BACK OF CURB unless otherwise noted.
- For sprinkler systems, all townhomes or multi-family dwelling units should have a minimum of 1" connection with a 3/4" meter.
- The Contractor shall notify the Bureau of Highways, Howard County, at (410) 313-7450 at least five (5) working days before any open cut of any County road or boring/lacking operation in County roads for laying water/sewer mains or house connections. The approval of these drawings will constitute compliance with DPW requirements per Section 18.114(a) of the Howard County Code.
- Sediment control to be provided on an as needed basis to be determined in the field by the Sediment Control Inspector. Trench length is limited to three (3) pipe lengths at any one time, to be stabilized immediately.
- Contractor to provide traffic control during construction in accordance with the Manual On Traffic Control Devices (Latest Edition). The Contractor shall phase the work so as to maintain at least one lane open for access to each school at all times.
- Contractor to protect the existing trees or shrubs and replace any damaged during construction.
- Trenching and backfilling shall be in accordance with Howard County standard detail G2.01.

### QUANTITIES

ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER / SUPPLIER
8" PIPE	310 LF			
8" 1/32 BEND	1			
8"x6" TEE	1			
6"x3" TEE	1			
6" PIPE	225 LF			
6" VALVE	2			
6" 1/32 BEND	1			
6" 1/4 BEND	1			
3" PIPE	35 LF			
8"x6" REDUCER	1			
FIRE HYDRANT	1			
DOMESTIC WATER SERVICE METER ASSEMBLY	1			
FIRE SUPPLY ASSEMBLY	1			

### LIST OF DRAWINGS

DWG. NO.	DESCRIPTION
1	TITLE SHEET
2	PLAN & PROFILE
3	SEDIMENT & EROSION CONTROL NOTES & DETAILS
4	INTER CONNECTION DETAILS

NAME OF UTILITY CONTRACTOR: \_\_\_\_\_

Sediment control measures for this contract will be implemented in accordance with Section 219 of the Specifications and as shown on \_\_\_\_\_

Review for Howard Soil Conservation District and meets technical requirements.

*[Signature]* 6/11/97  
NATURAL RESOURCES CONSERVATION SERVICE DATE

This plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.

*[Signature]* 6/11/97  
HOWARD SOIL CONSERVATION DISTRICT DATE

BY THE DEVELOPER:

I/WE CERTIFY THAT ALL DEVELOPMENT & CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

*[Signature]* 6/3/97  
DEVELOPER DATE

BY THE ENGINEER:

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

*[Signature]* 6/3/97  
SIGNATURE DATE

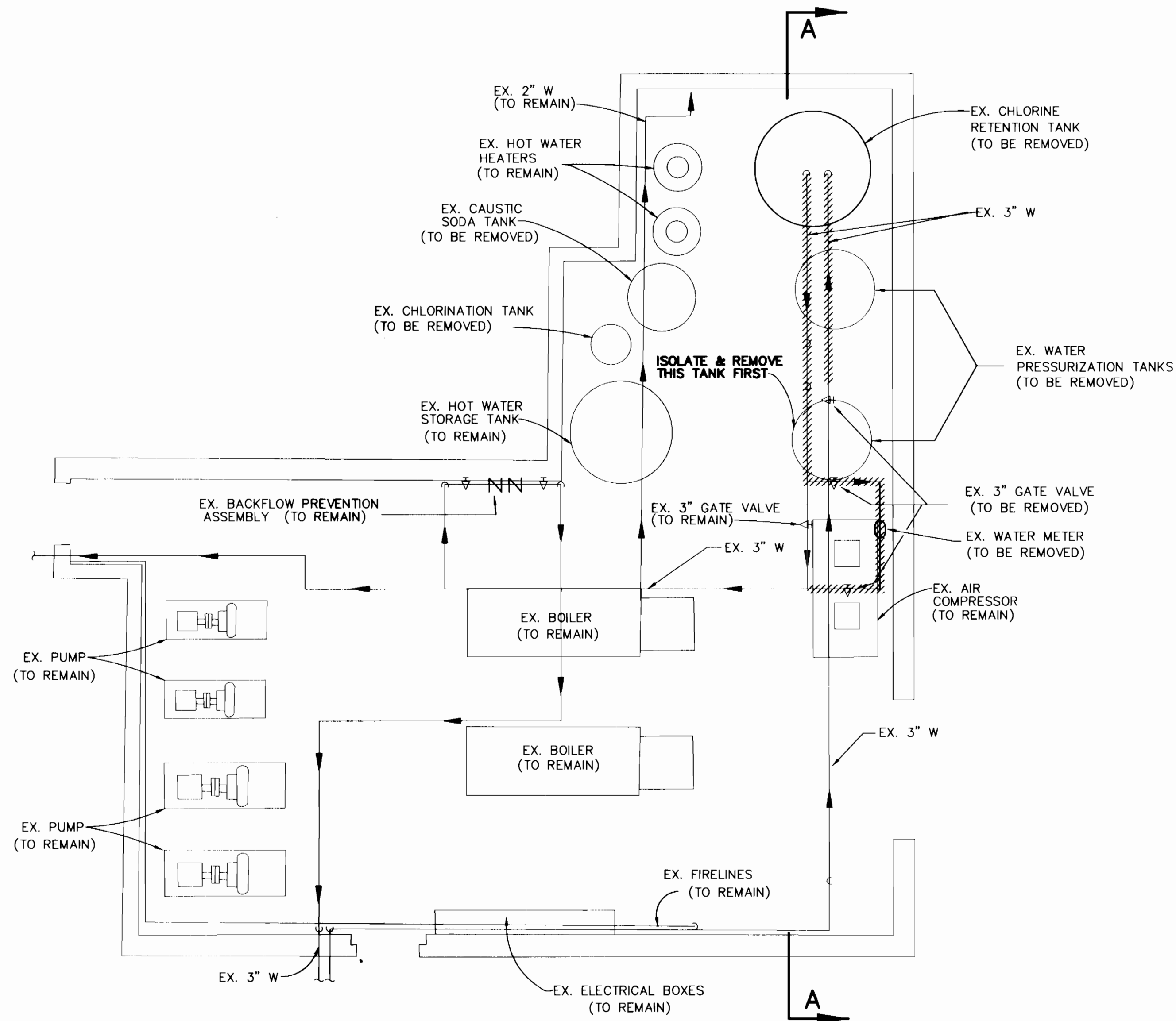
DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND  <i>[Signature]</i> 6-11-97 CHIEF, BUREAU OF UTILITIES DATE	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND  <i>[Signature]</i> 6/17/97 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE	<b>RIEMER MUEGGE &amp; ASSOCIATES, INC.</b> ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING 8818 Centre Park Drive • Suite 200 • Columbia, MD 21045 410-997-8900 FAX: 410-997-9282 9701/40148/TTTTASHT.DWG	DES: J.S.C. DRN: E.L.R. CHK: G.C.L. DATE: 4/29/97	J.S.C. <input type="checkbox"/> J.S.C. <input type="checkbox"/> G.C.L. <input type="checkbox"/> BY: NO. _____	MANOR WOODS OMITTED FROM CONTRACT 5/6/97 REVISED QUANTITIES 5/30/97	<b>TITLE SHEET</b>	MOUNT VIEW MIDDLE SCHOOL WATER SERVICE CONNECTION 3RD ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. 44-3626-D	SCALE AS SHOWN  SHEET 1 OF 4
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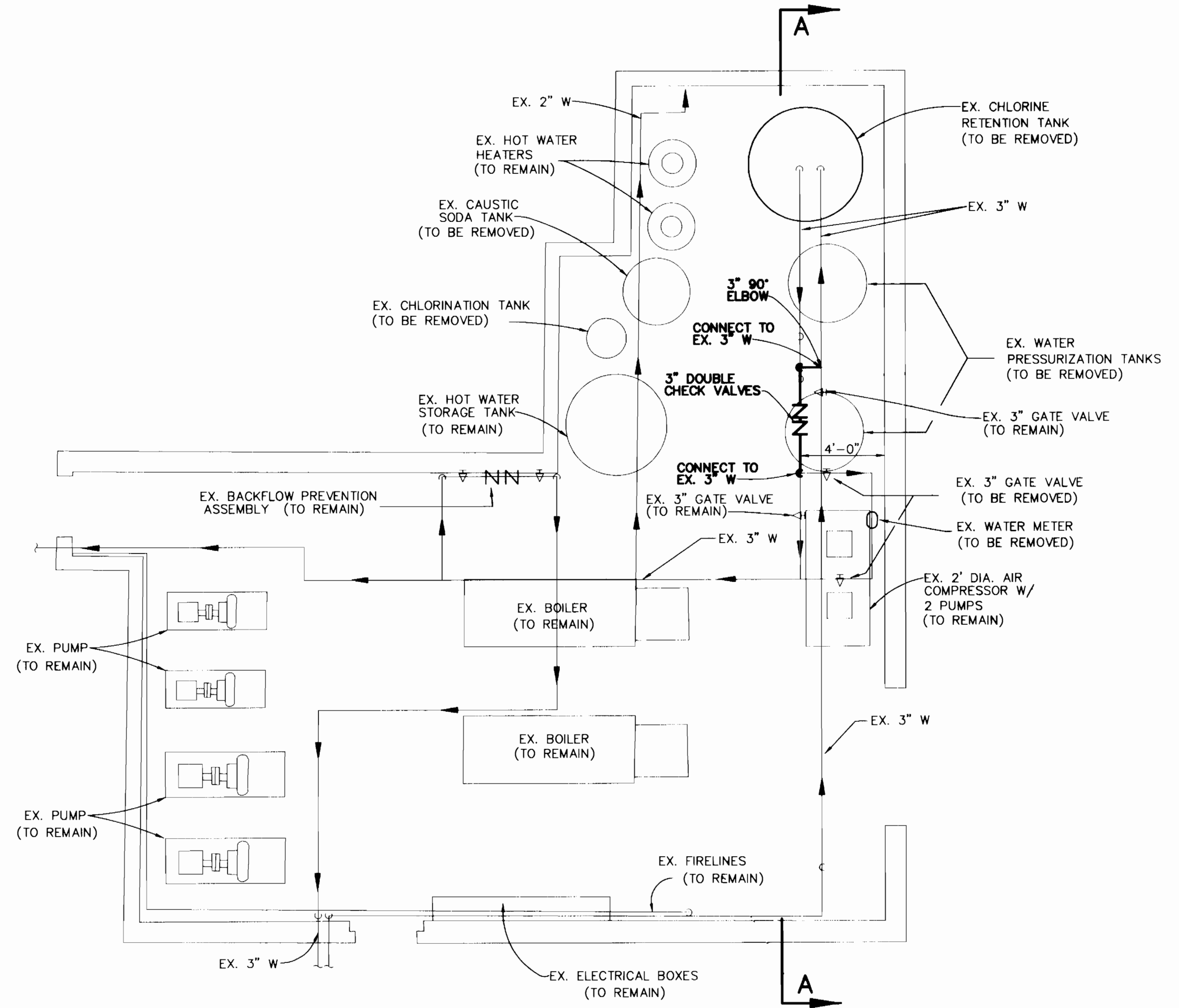


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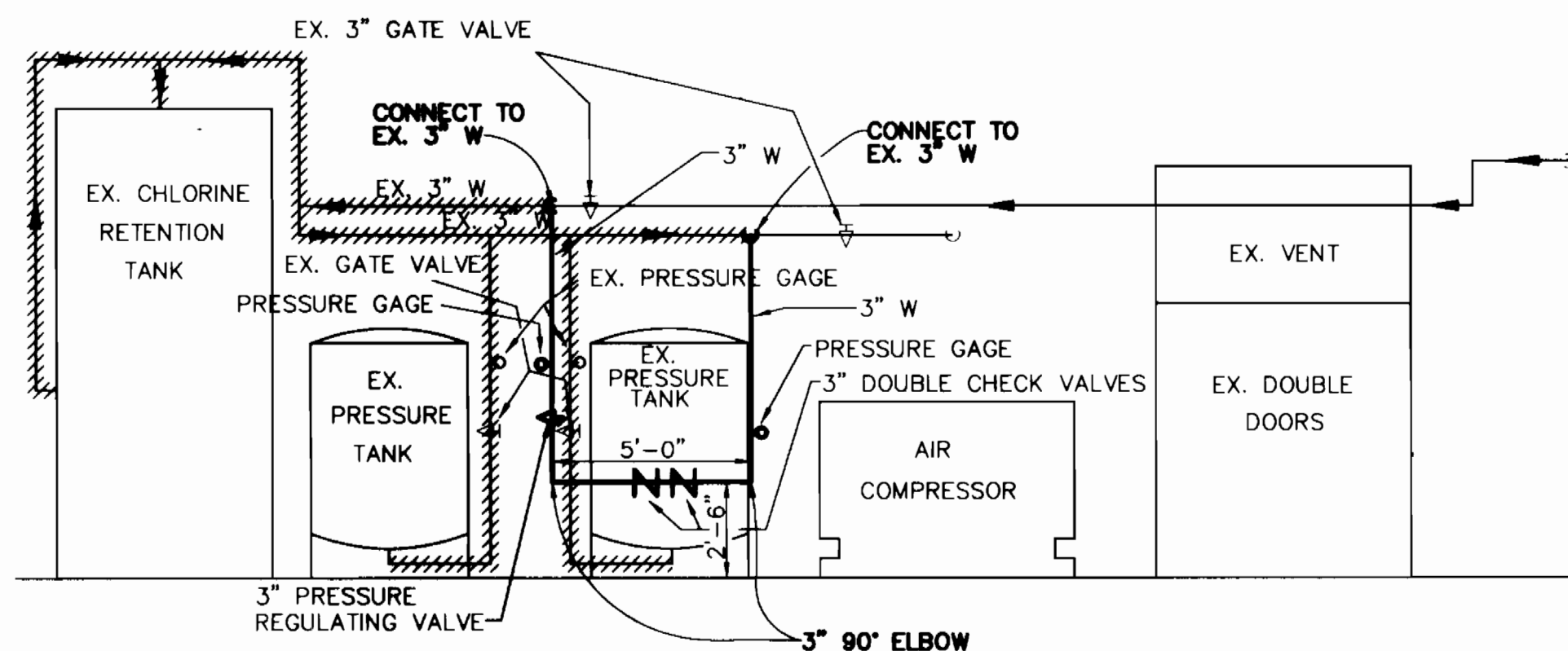
**MOUNT VIEW MIDDLE SCHOOL  
EXISTING UTILITY ROOM PLAN**

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



**MOUNT VIEW MIDDLE SCHOOL  
PROPOSED UTILITY ROOM PLAN**

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



**SECTION A-A**

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

**NOTES**

- ONE PRESSURIZATION TANK TO BE ISOLATED AND REMOVED AS PHASE 1 TO PROVIDE SPACE FOR THE CHECK VALVES AND PRESSURE REGULATING VALVE. THE BALANCE OF EQUIPMENT TO BE REMOVED AFTER CONNECTION HAS BEEN COMPLETED.
- INSULATE NEW WORK TO MATCH EXISTING.

**NOTES**

- On all drawings the label "EXISTING" is utilized for identifying existing facilities. Where the label "EXISTING" is omitted, the Contractor shall assume the work indicated is new work.
- On all drawings of Plan views showing new work in existing structures the label "PROPOSED" or "CONSTRUCT" are utilized for distinguishing new work and the label "EXISTING" for identifying existing facilities.
- On all drawings of Sections, Elevations and Details in existing structures the labels "PROPOSED" and "CONSTRUCT" are not repeated for new work. However, the label "EXISTING" for identifying existing facilities is retained for all drawing views for purposes of distinguishing between new and existing work.
- Except as otherwise noted, heavy weight lines are utilized on drawings to depict new work and light weight lines are utilized to depict existing facilities.

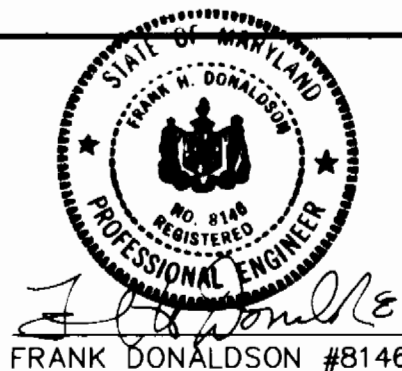
**LEGEND**

- GATE VALVE
- CHECK VALVE
- PRESSURE REDUCING/  
REGULATING VALVE
- PRESSURE GAUGE
- DROP OR RISE

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND

**RIEMER MUEGGE & ASSOCIATES, INC.**  
ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING  
8616 Centre Park Drive • Suite 200 • Columbia, MD 21045  
410-997-8900 FAX: 410-997-9282  
9700/40100/07/02/012.0/02



DES: J.S.C.	J.S.C.	MANOR WOODS OMITTED FROM CONTRACT	5/6/97
DRN: E.L.R.			
CHK: G.C.L.			
DATE: 4/29/97	BY: NO.	REVISION	DATE: 600' SCALE MAP NO. 9 BLOCK NO. 24

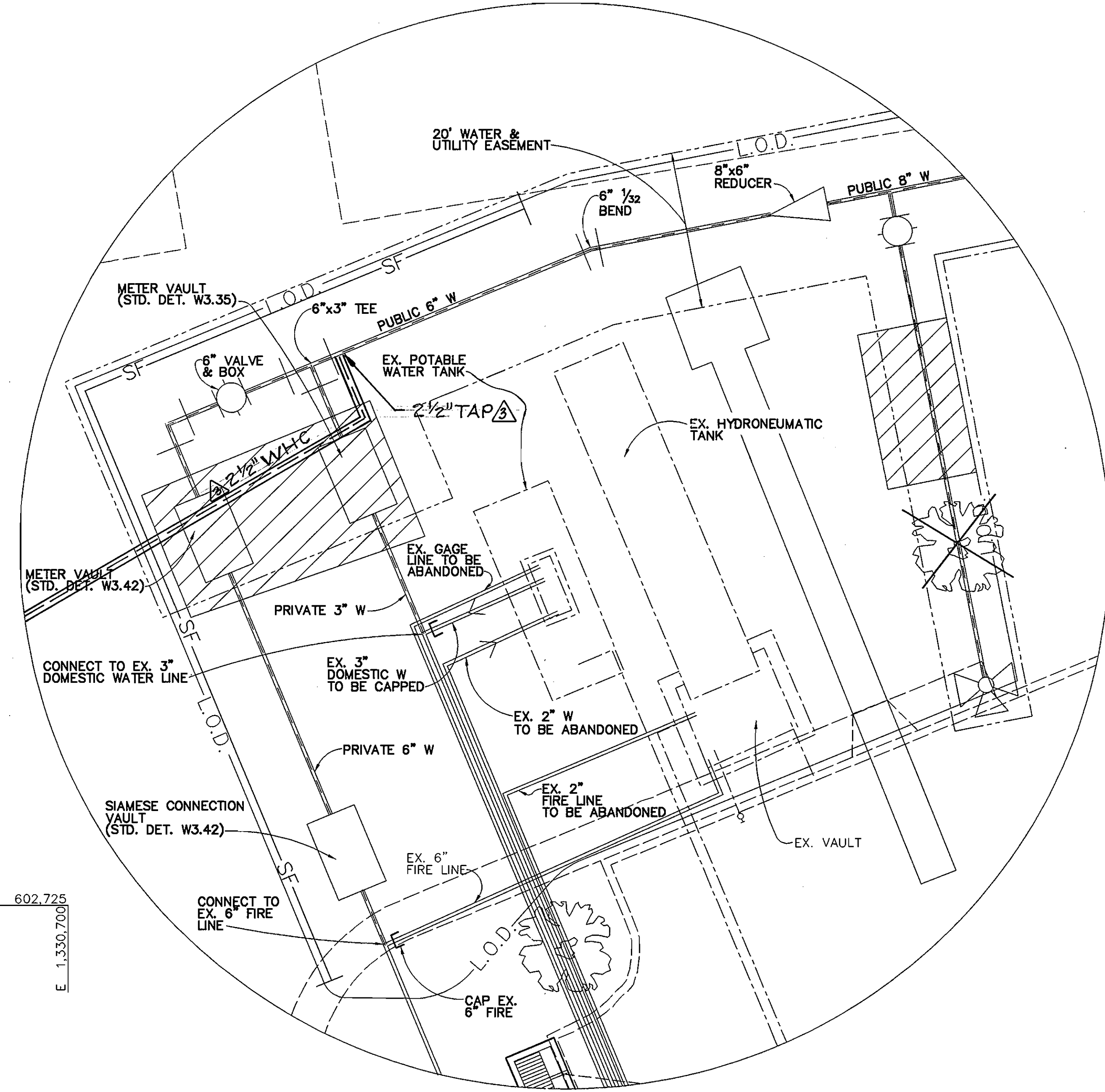
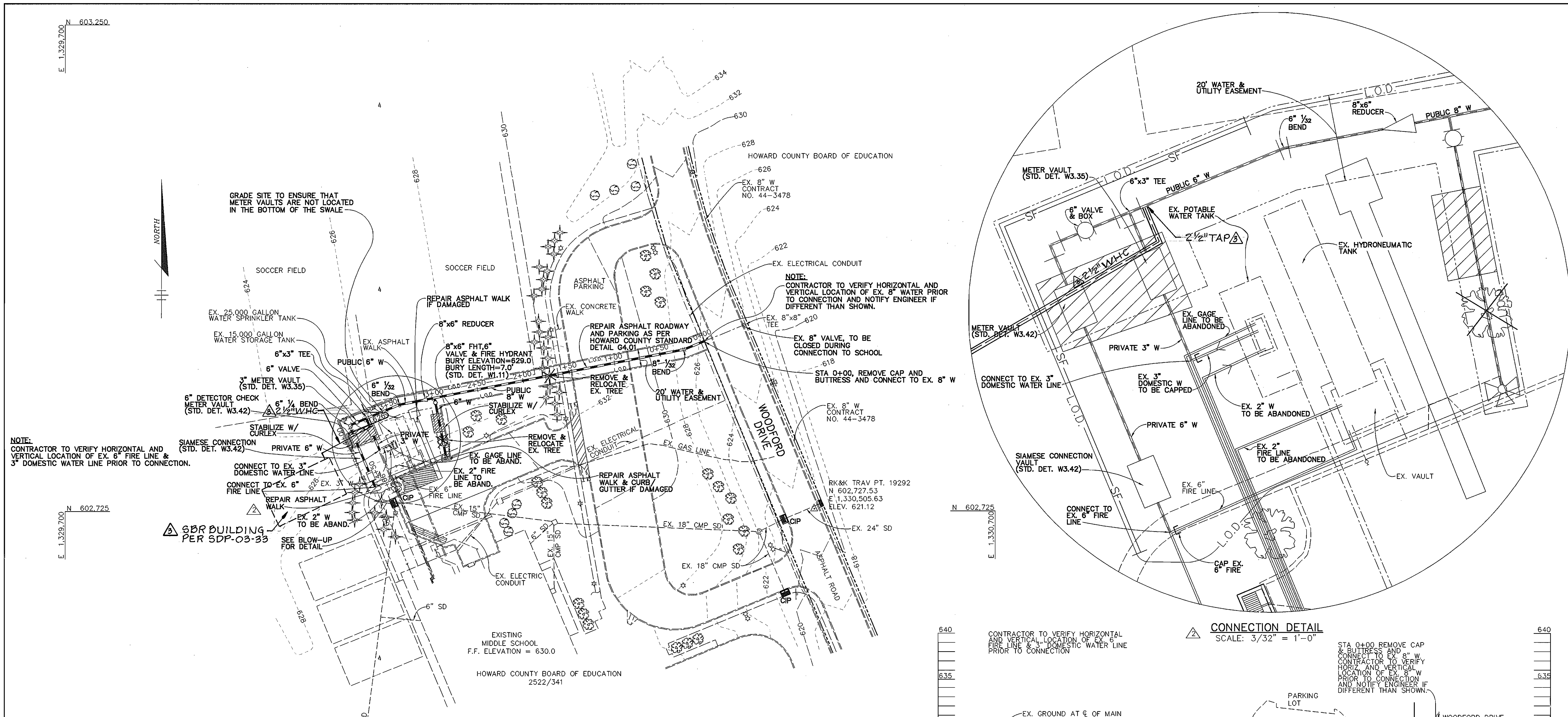
**INTER CONNECTION DETAILS**

**MOUNT VIEW MIDDLE SCHOOL  
WATER SERVICE CONNECTION**  
3RD ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
CONTRACT NO. 44-3626-D

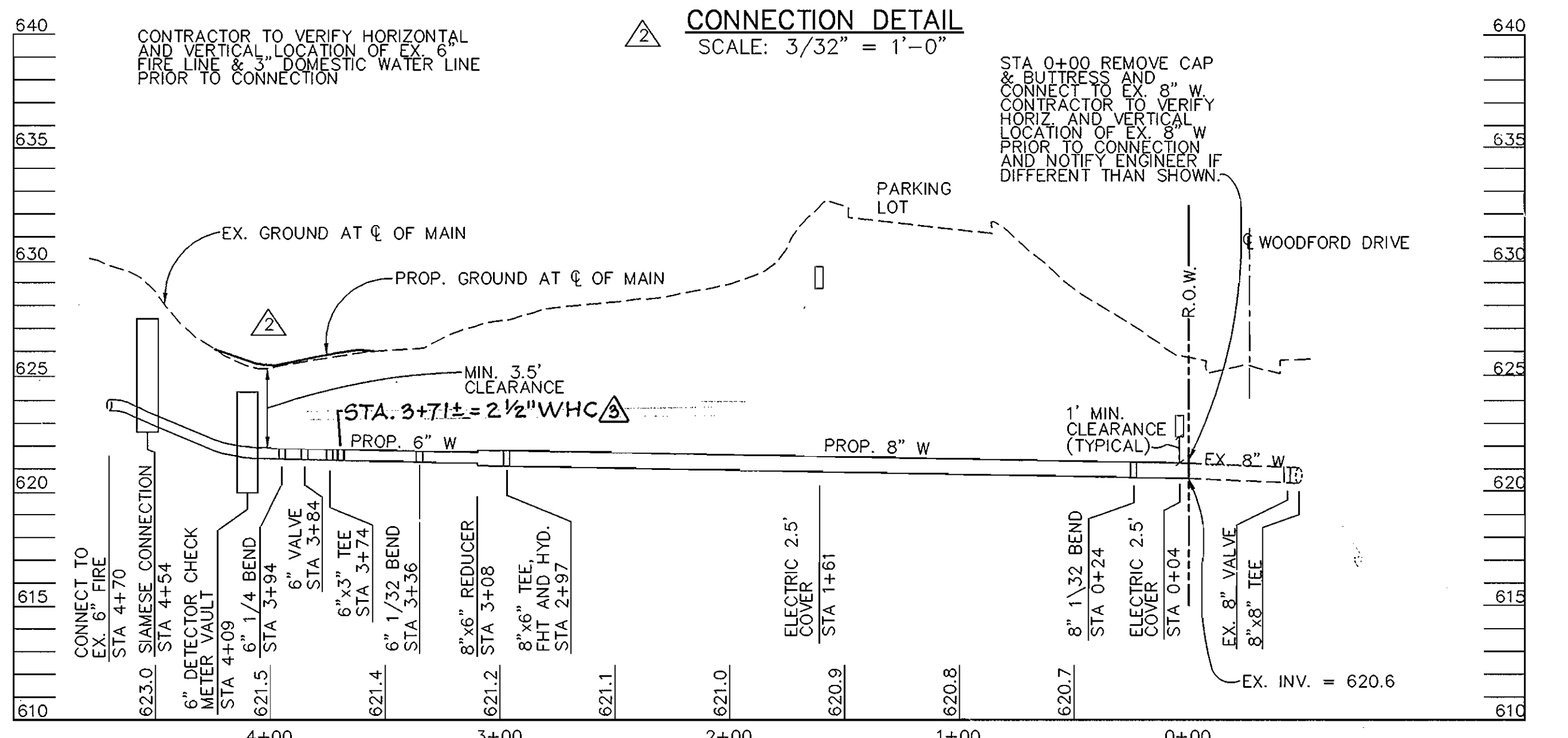
SCALE AS SHOWN  
SHEET 4 OF 4



MOUNT VIEW MIDDLE SCHOOL WATER SERVICE CONNECTION



WATER MAIN STAKEOUT TABLE			
WATER MAIN STATION	DESCRIPTION	LOCATION	
		NORTHING	EASTING
0+00	CONNECTION TO EX. 8" W	602,908.57	1,330,387.43
0+24	8" 1/32 BEND	602,899.55	1,330,365.47
2+97	8"x6" FHT	602,847.49	1,330,097.08
3+36	6" 1/32 BEND	602,840.08	1,330,059.17
3+74	6"x3" TEE	602,825.35	1,330,023.78
3+94	6" 1/4 BEND	602,817.78	1,330,005.60
4+09	6" DETECTOR CHECK METER VAULT	602,803.69	1,330,011.43
4+54	SIAMESE CONNECTION	602,763.11	1,330,028.30



Sediment control measures for this contract will be implemented in accordance with Section 219 of the Specifications and as shown on

**EP-97-15**

Review for Howard Soil Conservation District and meets technical requirements.

*Carol Simmons* 6/18/97  
NATURAL RESOURCES CONSERVATION SERVICE DATE

This plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.

*John L. Robertson* 6/18/97  
HOWARD SOIL CONSERVATION DISTRICT DATE

**NOTE:**

1. PROPOSED CONNECTIONS TO EX. 3" WATER AND EX. 6" FIRE SHALL BE MADE WITH A 3" AND 6" STRAIGHT CONNECTION, RESPECTIVELY. CONTRACTOR TO CAP ABANDONED LINES AT CONNECTION POINTS.

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*Robert Simmons* 6-11-97  
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND

*John L. Robertson* 6/17/97  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

**RIEMER MUEGGE & ASSOCIATES, INC.**  
ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING  
8818 Centre Park Drive • Suite 200 • Columbia, MD 21045  
410-997-8900 FAX: 410-997-9282  
97081/401MS/SHT1.DWG

*Frank Donaldson* #8146  
PROFESSIONAL ENGINEER

DES: J.S.C. J.S.C. MANOR WOODS OMITTED FROM CONTRACT 5/6/97  
DRN: E.L.R. CMD REVISE METER VAULTS AND PROFILE 5/30/97  
CHK: G.C.L. ADDED 2 1/2" WHC TO SBR BUILDING 4/20/05  
DATE: 4/29/97

BY NO. REVISION DATE

600' SCALE MAP NO. 9 BLOCK NO. 24

**PLAN & PROFILE**

**MOUNT VIEW MIDDLE SCHOOL WATER SERVICE CONNECTION**  
3RD ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
CONTRACT NO. 44-3626-D

SCALE AS SHOWN  
SHEET 2 OF 4