	QUANTITIES	AS - BUILT			
ITEMS	ESTIMATED	QUANTITIES	TYPE	MANUFACTURER/SUPPLIER	
Su semes	405 LF				
1 1/4" SHC	20 LF				
8" WATER	1 37 LF			<del></del>	
4" WATER	1343 LF				
3/4" WHC	50 LF				
G" WATER					
FIRE HYDRANT	1 EX				
6" YALYE	1 54				
4" YALYE	1 EA				
8"×4" REDUCER	IEA				
110° 8° 1,5 4V	1 EA				
3" BLOW OFF	1 EA			<u> </u>	
4' DIA. WANHOLE	1 EA				
8" SEWER	55 LF				

WATER & SEWER STRUCTURE SCHEDULE						
MH No.	ELEVATION	LOCATION				



LOCATION MAP SCALE : 1" = 600"

## BENCHMARKS

BENCHMARK # 1 TOP MANHOLE NO.4763

ELEV. 506.87'

BENCHMARK # 2 TOP OF NUT OF FH

ELEV. 507.41'

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH ARTICLE 15 OF THE HOWARD COUNTY DESIGN MANUAL AND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS AND ALSO AS SHOWN ON THE GRADING AND SEDIMENT CONTROL PLAN F-27 - 31

REVIEW FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT

AND MEETS TECHNICAL REQUIREMENTS. U.S. NATURAL RESOURCES CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY HOWARD COUNTY SOIL CONSERVATION

SPRINGER PROPERTY CONTRACT No. 24-3604-D SEWER MAIN EXTENSIONS HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS

GENERAL NOTES

- 1. 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.
- 2. All horizontal controls are based on Maryland State Coordinates
- 3. All vertical controls are based on U.S.G.S. data.
- 4. All pipe elevations shown are invert elevations.
- 5. 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 has made arrangement for bracing of poles as shown on the drawings. In the the event the contractor's work requires the bracing of additional poles, any cost incurred by the owner for the bracing of additional poles or damages shall be deducted from money owed the contractor. The contractor shall coordinate coordinate with the utility companies to schedule the bracing of the poles. schedule the bracing of the poles.
- 6. For details not shown on the drawings, and for materials and construction methods use Howard County Design Manual, Vol. IV Standard specifications and Detail for Construction (Latest Edition). The contractor shall have a copy of Volume IV on th job.
- 7. Where test pits have been made on existing utilities, they are noted by the symbol at at the location 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 the construction operations at his own expense.
- 8. Contractors shall notify the following utility companies or agencies at least five(5) working days before starting work shown on these plans:

531-5533 State Highway Administration BG&E Co. Contractor Services 850-4620 787-9068 BG&E Co. Under Ground Damage Control 1 800 257-7777 Miss Utility Colonial Pipeline Co. 795-1390 Howard County Department of Public Works Bureau of Utilities 313-4900

- 9. 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 damged
- 10. Contractors shall remove trees, stumps and roots along line of excavation. Payment for such removal shall be included in the unit price bid for construction included in the unit price bid for construction of the main.
- 11. All water mains to be D.I.P. Class 52 unless otherwise noted.
- 12. Tops of all water mains to have a minimum of 3 1/2' cover otherwise noted.
- 13. Valves adjacent to tees shall be strapped to tees.
- 14. All fittings shall be buttressed or anchored with concrete in accordace with the Standard Details unless otherwise provided for on the drawings.
- 15. Fire hydrants shall be set to the bury line elevations shown on the drawings. All fire hydrants shall be restrained in accordance with detail W.1-11 and W.2-13. Soil around the fire hydrant shall be compacted in accordance with Sections 1000 and 1005 of the Standard Specifications.
- 16. The contractor shall not operate any water main valves on existing water system.
- 17. All water house connections shall be for inside meter setting unless otherwise oted on plans or in specifications.
- 18. All sewer mains shall be D.I.P. unless otherwise noted.
- 19. The contractor shall provide a joint in all sewer mains within 2 ft. of exterior manhole wall.
- 20. All manholes shall be 4'-0" inside diameter unless otherwise noted.
- 21. Force mains shall be D.I.P. only
- 22. Manholes shown with 12" and 16" walls are for brick manholes only.
- 23. Manholes designated W.T. in plan and profile shall have watertight frame and covers, Standard Details G5.52. Where watertight manhole frame and cover is used, set top of frame 1" - 6" above finished grade unless otherwise noted
- 24. House(s) with the symbol "C.N.S" indicates that cellar cannot be served. cannot be served.
- 25. Construction of all public portions of the pressure sewers shall be in accordance with the "Washington Subruban Sanitary Commission General Conditions/Specifications and Standard Details" as they pertain to pressure sewers and grinder pumps unless otherwise shown.
- 26. After pressure testing and prior to placing force main into service, the system shall be filled from a potable water source under the direction of the Department of Public Works.
- 27. Refer to the Site Plan for information relating to pump details and related equipment.
- 28. All pumps will be Environment One Model GP 214-140 (DUPLEX).
- 29. Force mains shall be SDR 21 PVC. Detectable warning tape warning tape will be used for all pressure sewer mains and laterals
- 30. Pressure testing of the force main shall be in accordance with the Washington Subruban Sanitary Commission test Procedures Section 02731-15. See Sheet 2 of 2.

OWNER/DEVELOPER: KENNETH SPRINGER 5270 WATERLOO ROAD ELLICOTT CITY, MD. 21043

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

RIEMER MUEGGE & ASSOCIATES, INC. ENGINEERING . ENVIRONMENTAL SERVICES . PLANNING . SURVEYING BOID CENTRE PARK DRIVE, COLUMBIA, WARYLAND 21045 TEL. 410-997-8900 FAX 410-997-9282

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ARTHUR E. MUEGGE # 8707	DA

	DATE : 1.27.28	KAD	$\triangle$	REY. QUANTITIES & VICINITY MAP	4.6.98	
	CHECK : MLL	<del></del>				
	DRAWN : AVG					
	DESIGN : MLL					
5-64-64						

PLAN & PROFILE OF WATER & SEWER MAINS CONTRACT NO. 24 · 3604 · D 600' SCALE MAP NO. 31 BLOCK 13

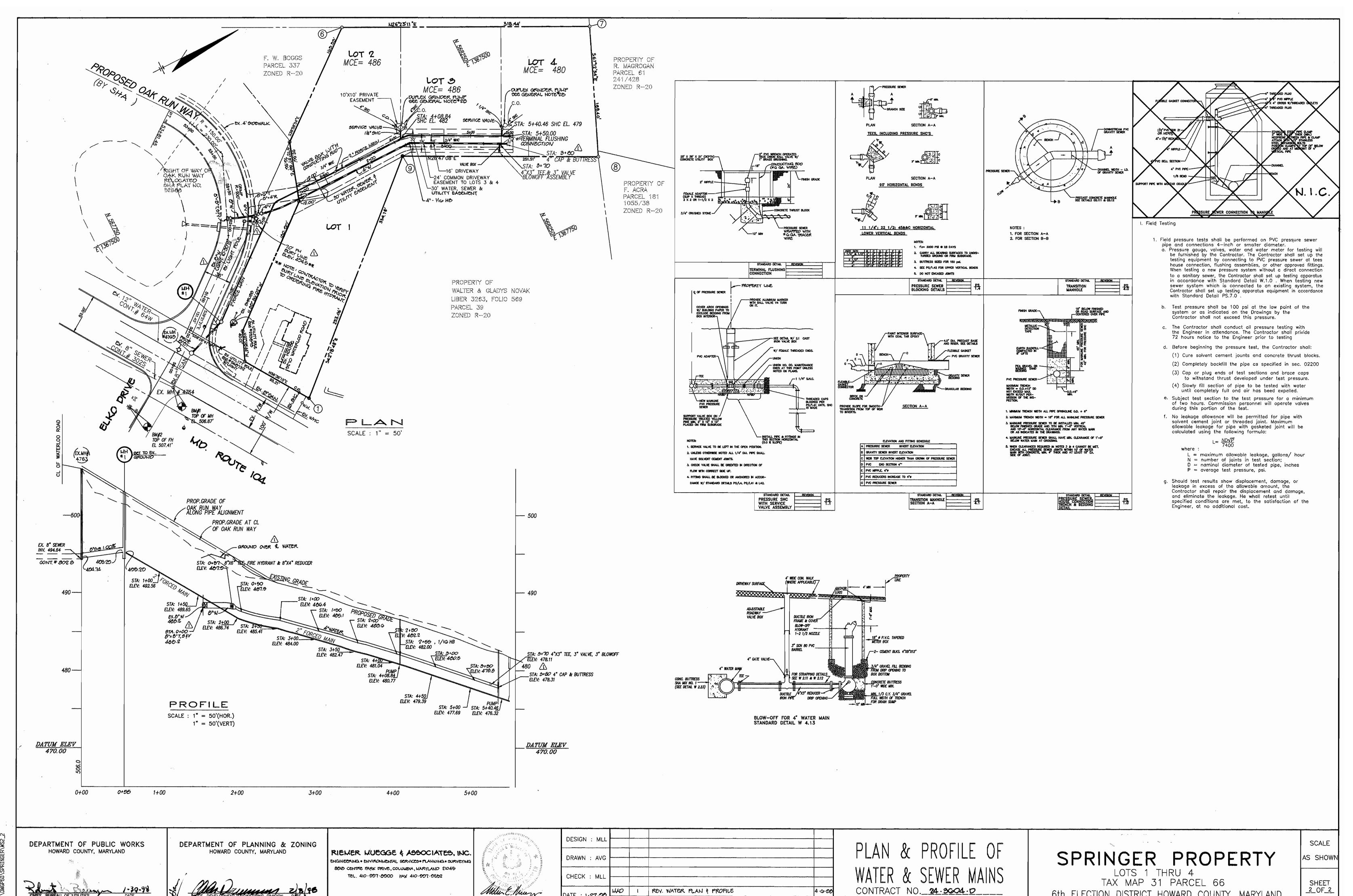
SPRINGER PROPERTY

LOTS 1 THRU 4 TAX MAP 31 PARCEL 66 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

COVER SHEET

SCALE AS SHOWN

> SHEET \_1\_OF\_2

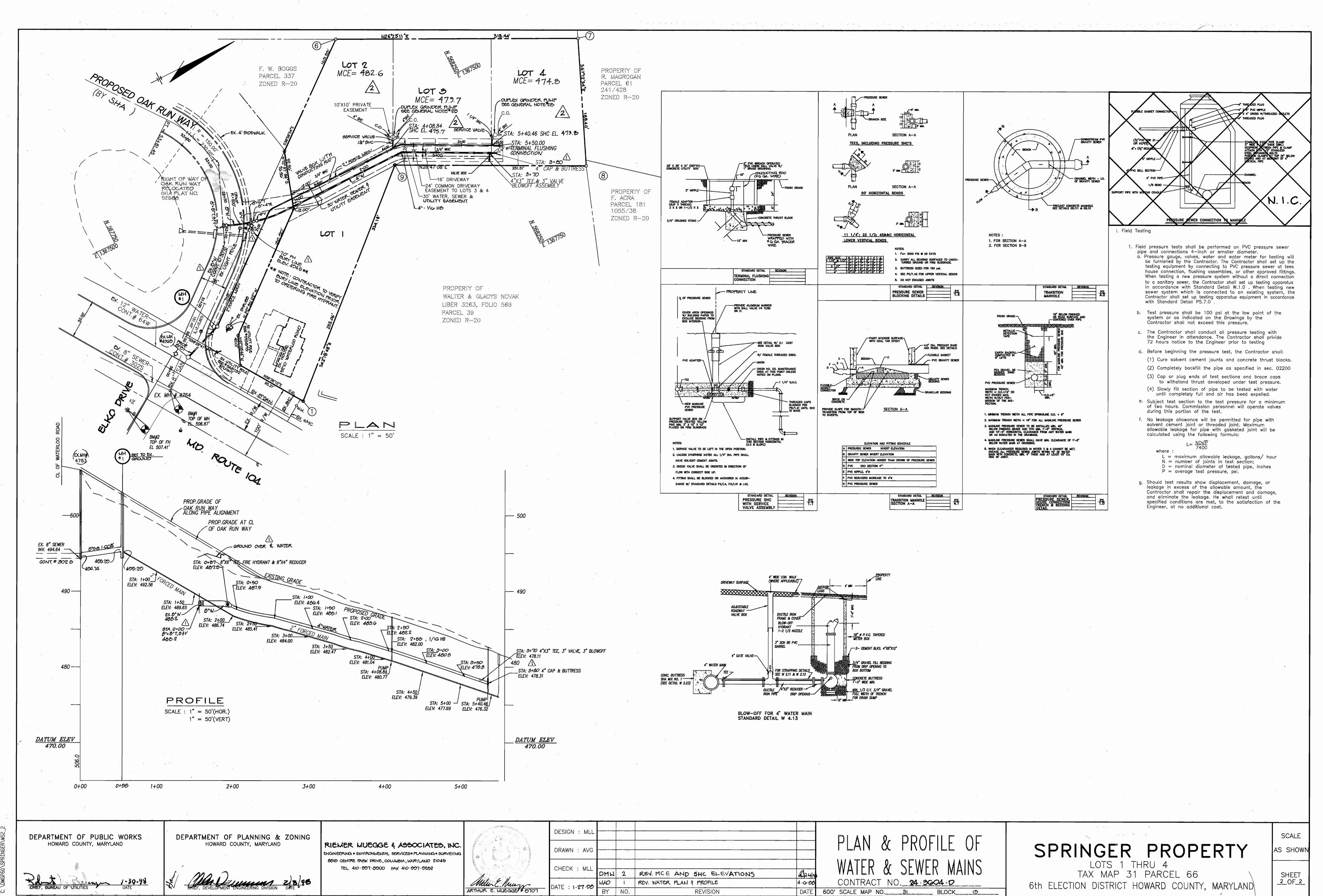


BY NO.

REVISION

600' SCALE MAP NO. 31 BLOCK 13

6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND



WGPGO\SPRING