

3333 WS/1 M.J.F. FARMS -sect.1

# WATER AND SEWER EXTENSION

## M.J.F. FARMS

### SECTION I

# CONTRACT NO. 24-3333-D 2nd ELECTION DISTRICT

QUANTITIES				
ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER / SUPPLIER
8" SEWER MAIN	897 LF			
4' SAN. MANHOLE	10			
6" S.H.C.	132 LF			
6" WATER MAIN	2046 LF			
6" WATER MAIN	43 LF			
FIRE HYDRANT	4			
1" W.H.C.	185 LF			
1 1/2" W.H.C.	740 LF			
8" VALVE	10			
6" VALVE	4			
8"x6" TEE	6			
8"x6" TEE	4			
8"x6" REF.	1			
6" PLUG & HUTTRESS	1			
6" PLUG & BUTTRESS	3			
8" SEWER (D.I.P.)	319 L.F.			

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

CHECKBOX \_\_\_\_\_

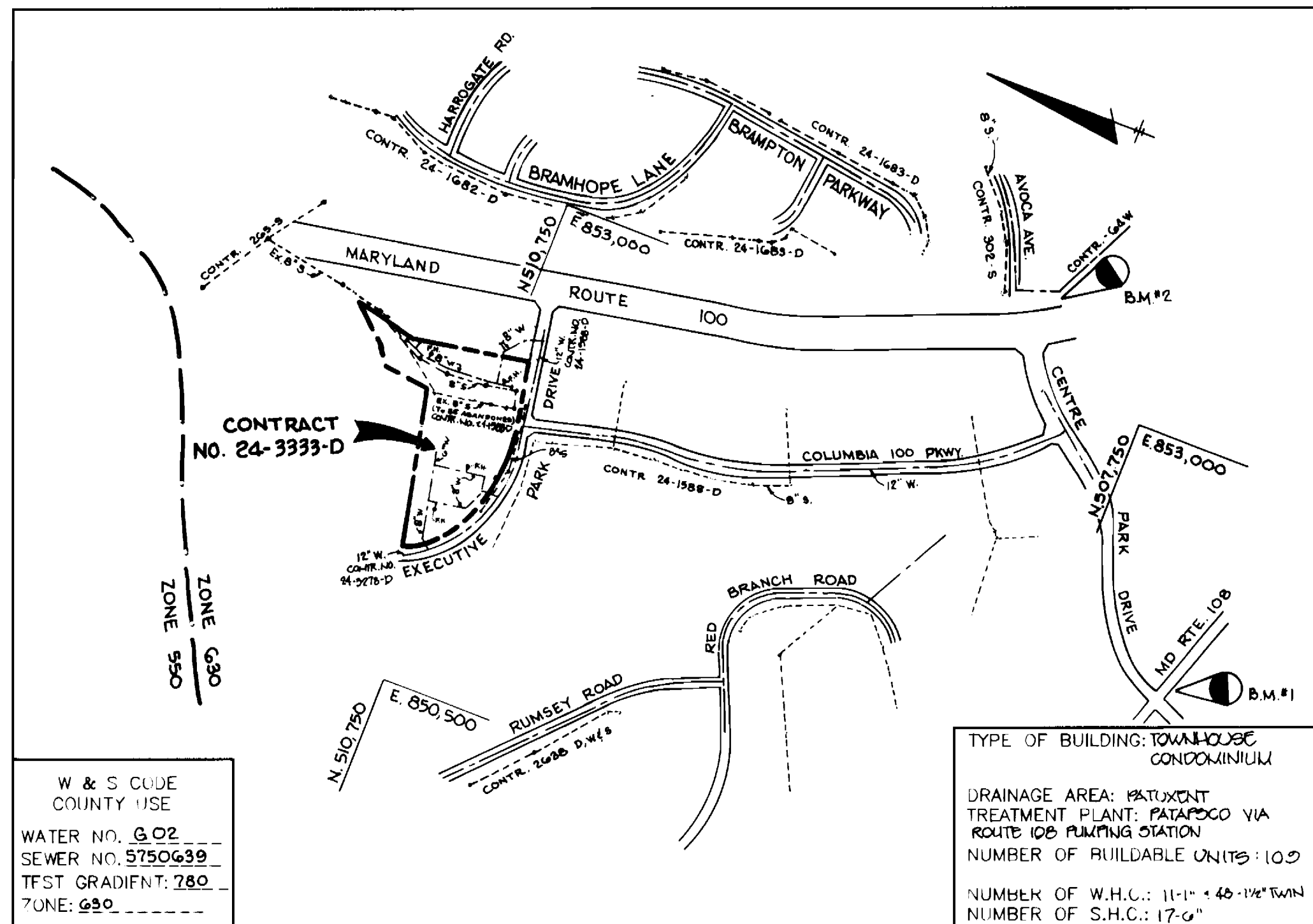
AS-BUILT DATE \_\_\_\_\_

SURVEY AND DRAFTING DIVISION \_\_\_\_\_

#### 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 Maryland State Coordinates.
- All 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 and construction methods use Howard County Design Manual, Volume IV, Standard Specifications and Detail for Construction. (Latest Edition). The contractor shall have a copy of Volume IV on the job.
- 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	787-9668
Miss Utility	1-800-257-7777
Colonial Pipeline Co.	795-1590
Bureau of Utilities, Howard County Department of Public Works	313-4900
- Trees 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.
- Tops of all water mains to have a minimum of 3'-1/2" cover unless otherwise noted.
- Valves adjacent to trees shall be strapped to trees.
- 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 strapped 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.
- All sewer mains shall be DIP, RCP, VCPX, CSPX, RCP AND P.V.C. unless otherwise noted.
- All manholes shall be 4'-0" inside diameter unless otherwise noted.
- Force mains shall be D.I.P. only.
- Manholes shown with 12" and 16" walls are for brick manholes only.
- Manholes designated W.T. in plan and profile shall have watertight frame and covers, Standard Detail G5.52. Where watertight manhole frame and cover is used, set top of frame 1'-6" above finished grade unless otherwise noted on the drawings.
- House(s) with the symbol "C.N.S." indicates that cellar cannot be served.



VICINITY MAP  
SCALE : 1"=600'

#### BENCH MARKS

- B.M. #1 ELEV. 482.29  
 HO. CO. 2743010-R  
 3/4" REBAR 0.4' BELOW SURFACE, 34.7' SOUTH  
 OF CURB ON MARYLAND ROUTE 108, 175'  
 EAST OF E. PHELPS LUCK DRIVE.
- B.M. #2 ELEV. 525.51  
 NAIL IN STONE AT PROPERTY CORNER  
 COLUMBIA 100 OFFICE, RESEARCH PARK.

Sediment control measures for this contract will be implemented in accordance with Section 219 of the Specifications and as shown on SDP-93-121

Review for Howard Soil Conservation District and meets technical requirements.  
*J. H. Wolford* / JWR DATE 6/23/94  
 HOWARD SOIL CONSERVATION SERVICE

This plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.  
*John R. Robinson* / JRR DATE 6/23/94  
 HOWARD SOIL CONSERVATION DISTRICT

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND

*James J. Chew* / JJC DATE 6/24/94  
 DIRECTOR OF PUBLIC WORKS

*Robert J. Reisinger* / RJR DATE 6-16-94  
 CHIEF, BUREAU OF UTILITIES

*Edward C. Balthasar* / ECB DATE 6/24/94  
 CHIEF, BUREAU OF ENGINEERING

*William J. ...* / ... DATE 6/24/94  
 CHIEF, LAND DEVELOPMENT

RIEMER MUEGGE & ASSOCIATES, INC.  
 Planners • Engineers • Surveyors  
 8818 Centre Park Drive • Suite 200 • Columbia, Md 21045  
 410-997-8900 FAX : 410-997-9252

JAYKANT D. PAREKH # 19148

DES. J.G.O.	
DRN. R.J.C.	
CHK. D.R.P.	
DATE: 5-10-94	BY: NO. REVISION

TITLE SHEET

600' SCALE MAP NO. 30 BLOCK NO. 16

M.J.F. FARMS, SECTION 1  
 UNITS 1-109  
 TAX MAP: 30 PARCEL: W  
 2nd ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 CONTRACT NO. 24-3333-D

SCALE AS SHOWN  
 SHEET 1 OF 4

3333 WS/2 M.J.F. FARMS -sect.1

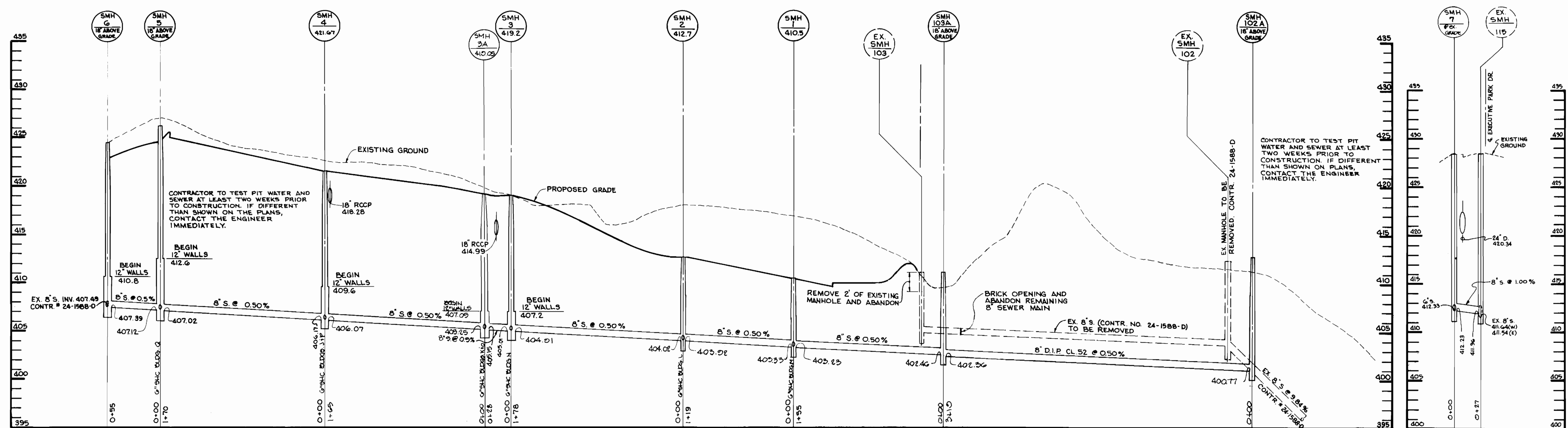


CURVE NO.	RADIUS	LENGTH	TANGENT	CHORD	B & D	DELTA
1	293.00'	32.46'	16.23'	N 23°14'58" E 32.44'	106°20'52"	
2	280.00'	35.00'	17.50'	S 9°14'41" W 35.00'	0°17'01"	
3	280.00'	38.16'	19.08'	N 36°43'40" E 38.14'	0°7'48" S4"	

**PLAN**  
SCALE: 1"=50'  
**COLUMBIA 100 PARKWAY**  
HOWARD COUNTY PUBLIC ROAD (MINOR COLLECTOR)

<p>DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND</p> <p><i>James P. Sku</i> 6/24/24 DIRECTOR OF PUBLIC WORKS DATE</p> <p><i>Robert W. Bann</i> 6-16-24 CHIEF, BUREAU OF UTILITIES DATE</p>	<p>RIEMER MUEGGE &amp; ASSOCIATES, INC. Planners • Engineers • Surveyors 8618 Centre Park Drive • Suite 200 • Columbia, Md 21045 410-997-8900 FAX: 410-997-8282</p> <p><i>C. Edward Rutter</i> 6/24/24 CHIEF, BUREAU OF ENGINEERING DATE</p> <p><i>John D. Parekh</i> CHIEF, LAND DEVELOPMENT DATE</p>		<p>DES: J.G.O.</p> <p>DRN: J.G.O.</p> <p>CHK: D.R.F.</p> <p>DATE: 5-15-24</p>	<p><b>WATER &amp; SEWER PLAN</b></p>	<p>M.J.F. FARMS, SECTION 1 UNITS 1-109 TAX MAP: 30 PARCEL: W 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. 24-3333-D</p>	<p>SCALE AS SHOWN</p> <p>SHEET 4 OF 4</p>
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3333 WS/B M.J.F. FARMS -sect.1



**SEWER PROFILE**  
SCALE: HOR. 1"=50'  
VERT. 1"=5'

**SEWER PROFILE**  
SCALE: HOR. 1"=50'  
VERT. 1"=5'

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*[Signature]* 6/14/94  
DIRECTOR OF PUBLIC WORKS DATE

*[Signature]* 6-14-94  
CHIEF, BUREAU OF UTILITIES DATE

*[Signature]* 6/14/94  
CHIEF, BUREAU OF ENGINEERING DATE

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CHIEF, LAND DEVELOPMENT DATE

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STATE OF MARYLAND  
JAYKANT D. PAREKH # 19148

DES: J.C.O.			
DRN: R.J.C.			
CHK: D.R.F.			
DATE: 5-15-94	BY: NO.	REVISION	DATE

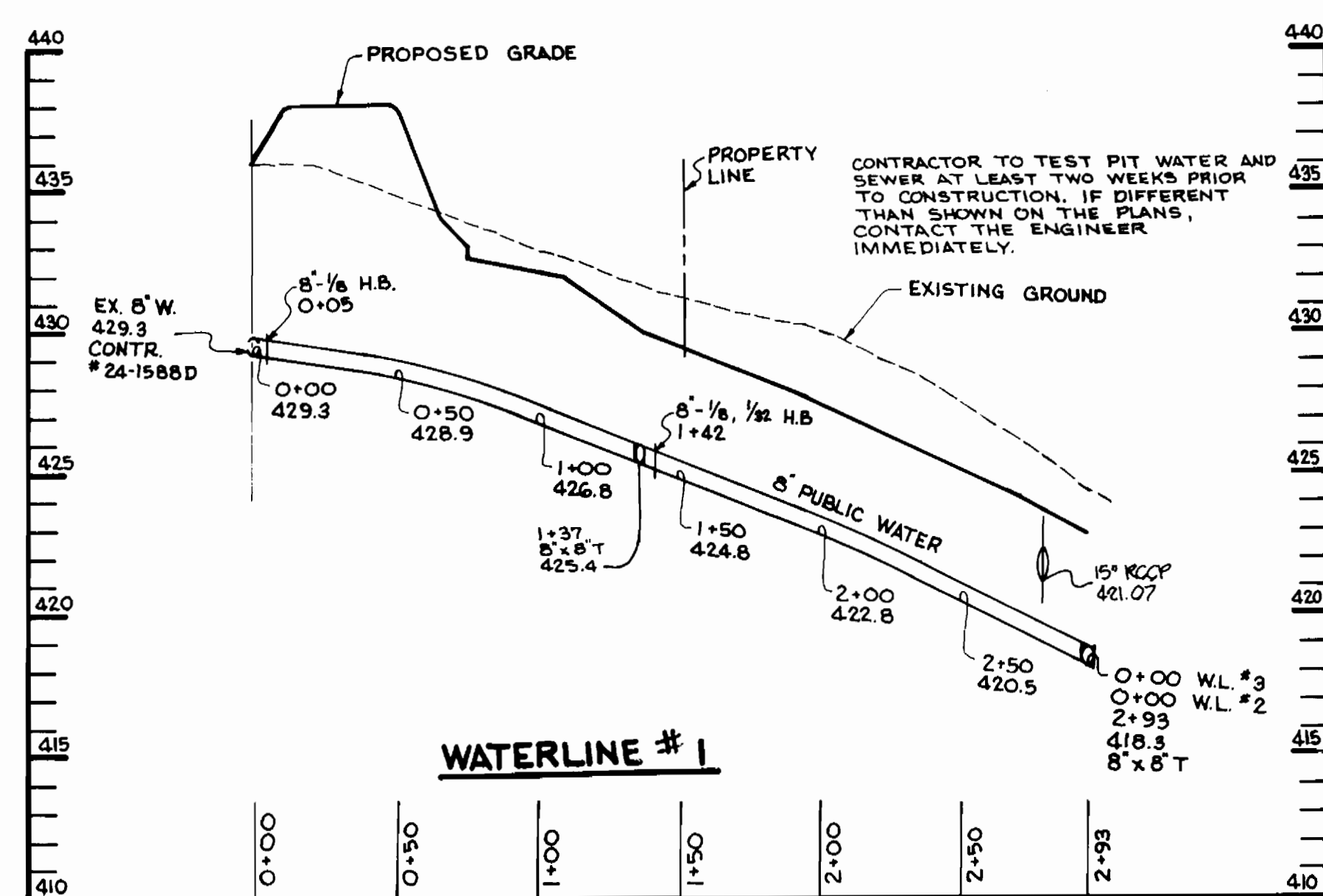
**SEWER MAIN PROFILES**

600' SCALE MAP NO. 52 BLOCK NO. 12

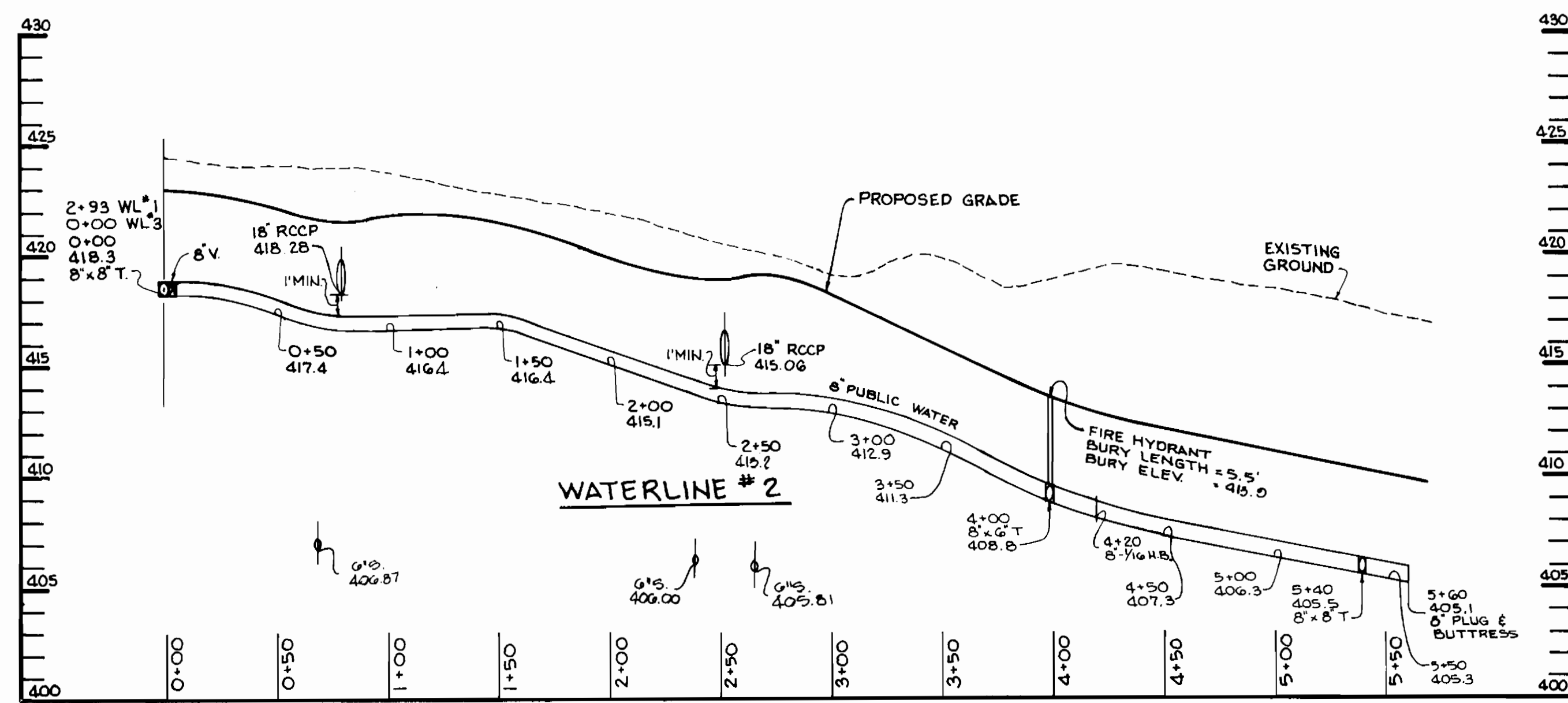
M.J.F. FARMS, SECTION 1  
UNITS 1-109  
TAX MAP: 30 PARCEL: W  
2nd ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
CONTRACT NO. 24-3333-D

SCALE AS SHOWN  
SHEET 5 OF 4

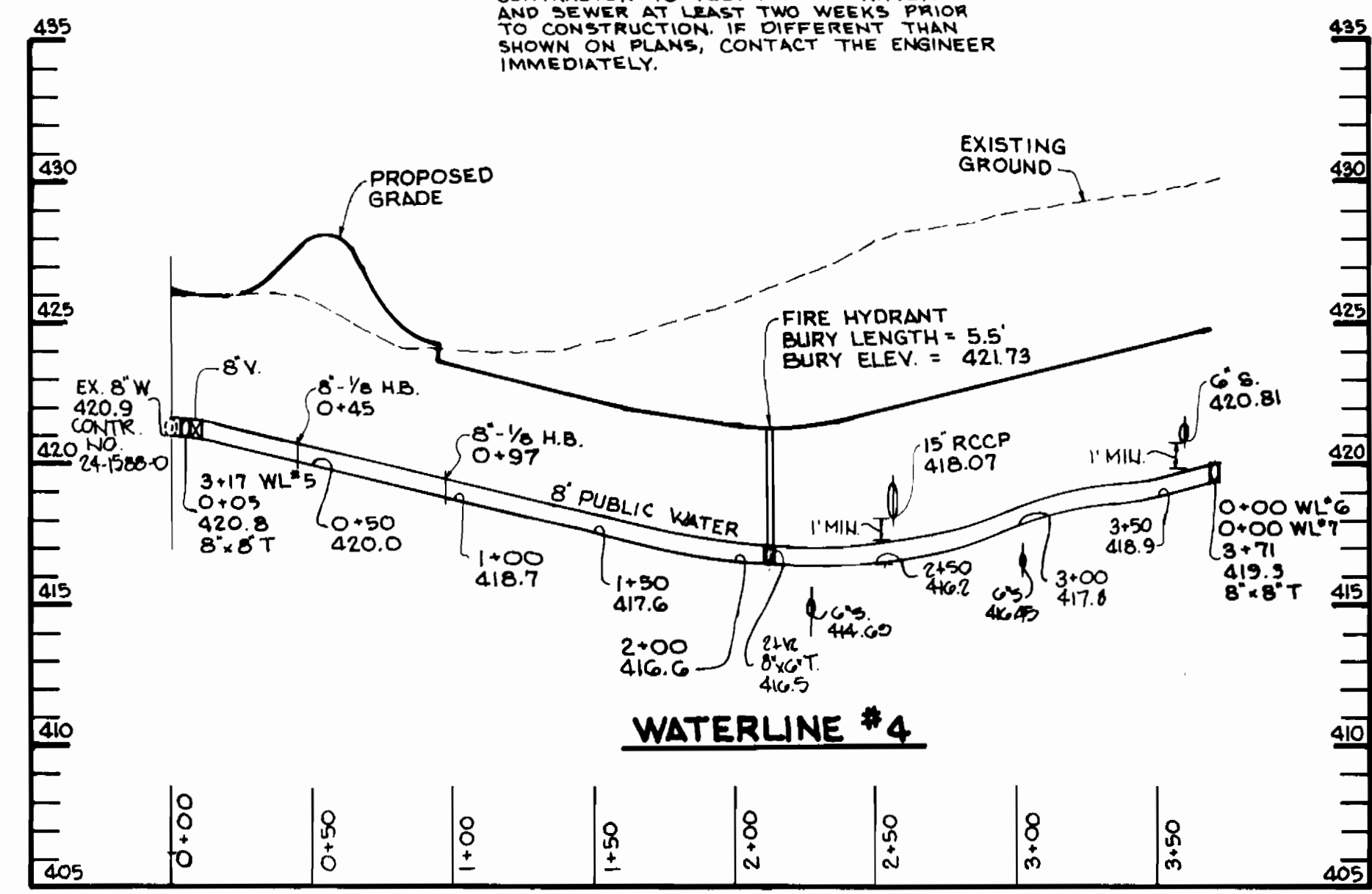
33333 WS/4 M.J.F. FARMS -sect.1



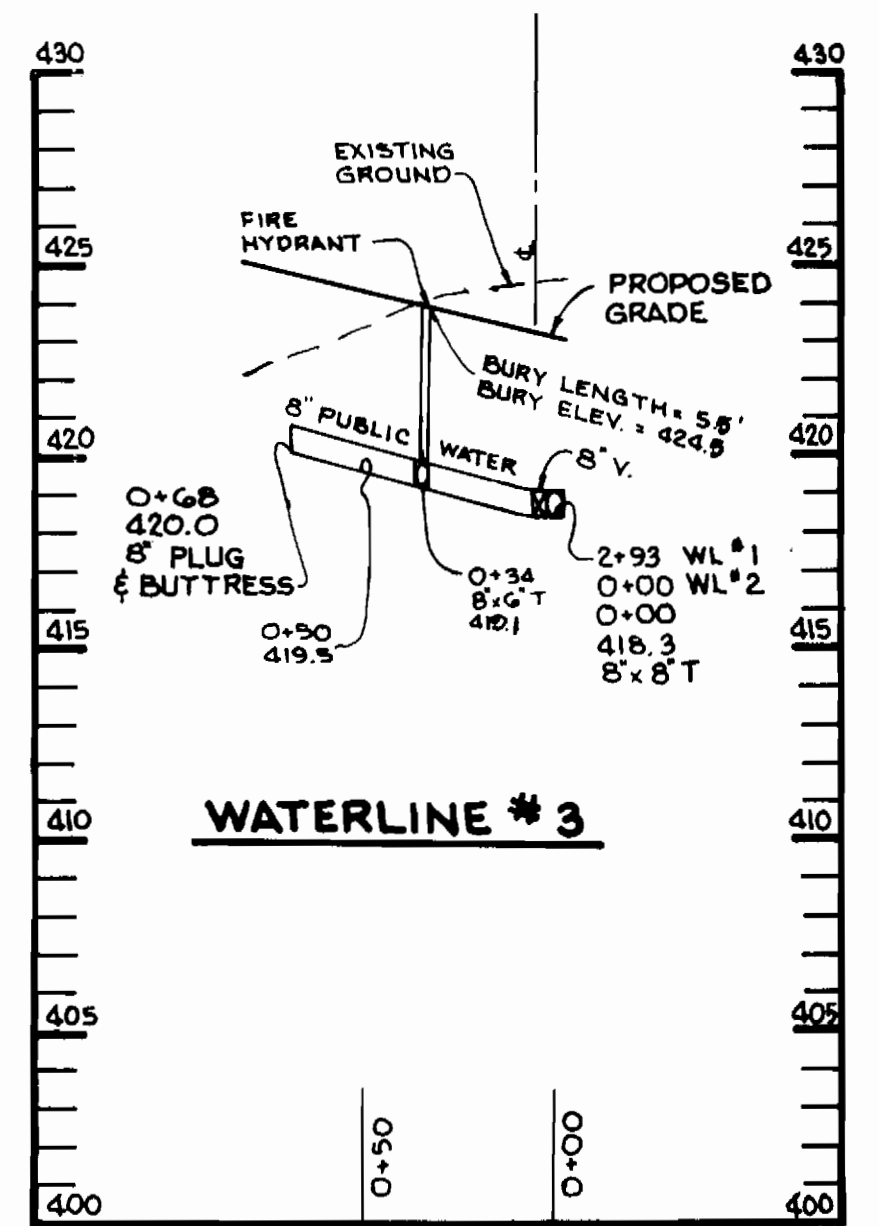
**WATER PROFILE**  
SCALE: HOR. 1"=50'  
VERT. 1"=5'



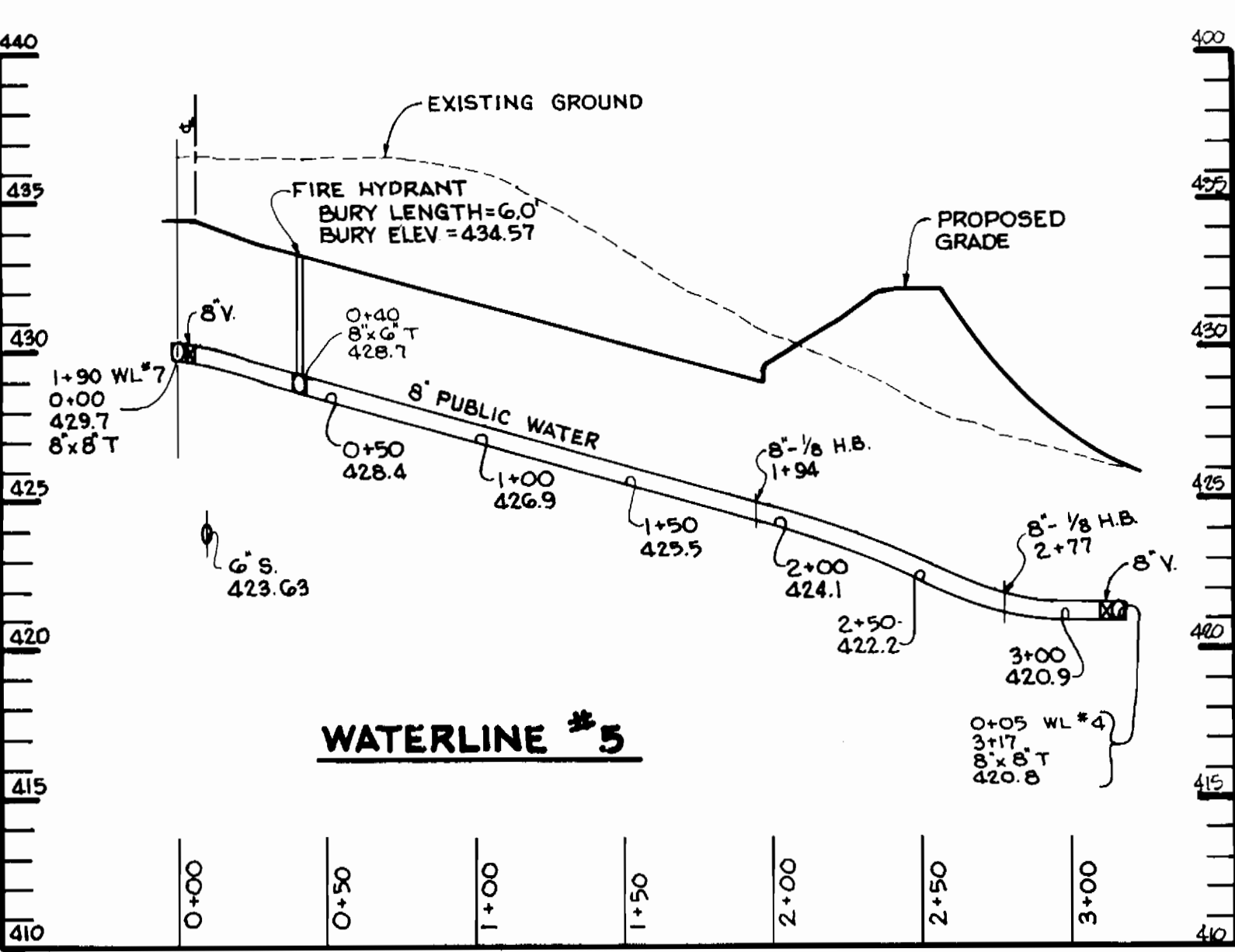
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SCALE: HOR. 1"=50'  
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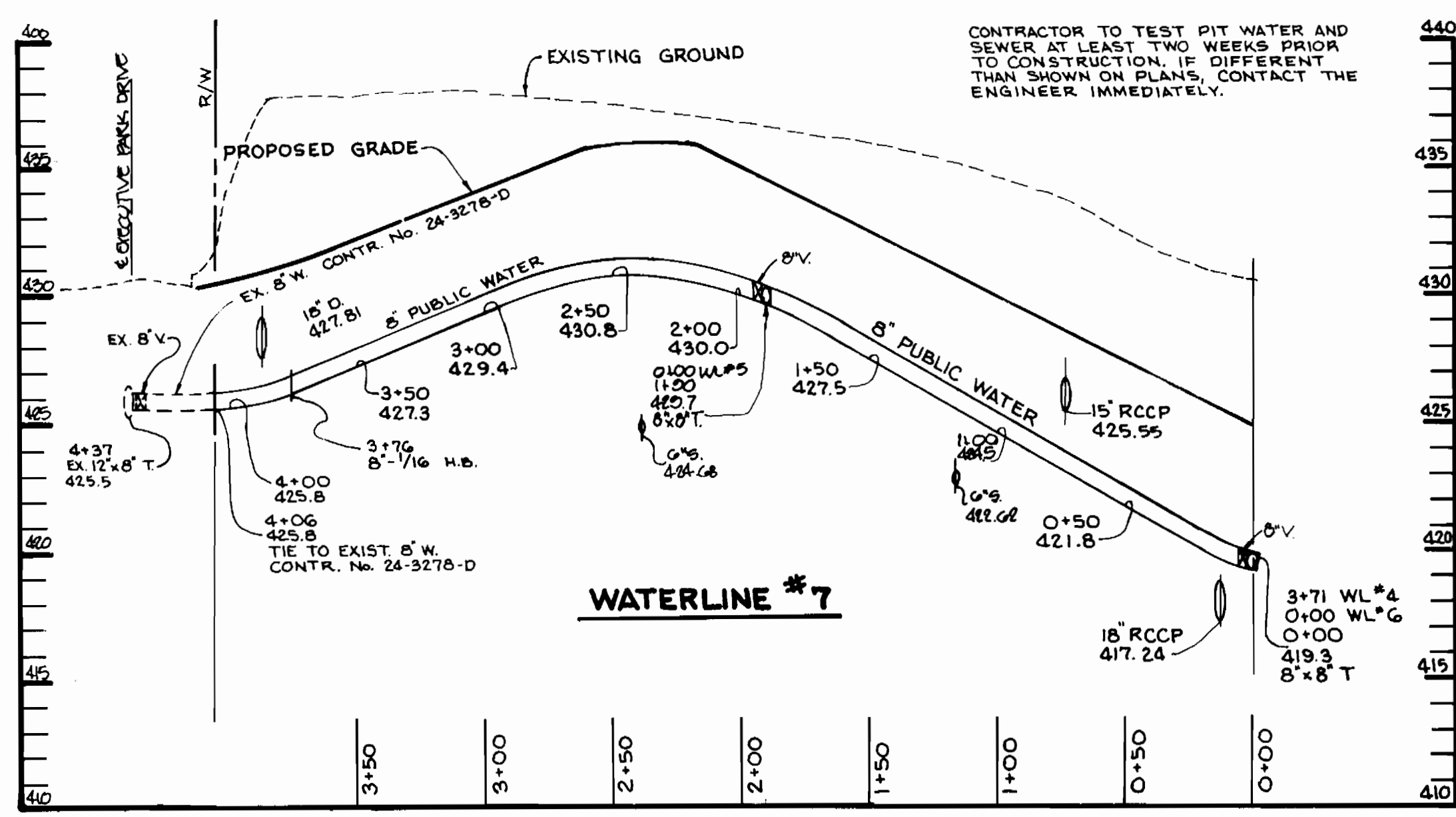
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SCALE: HOR. 1"=50'  
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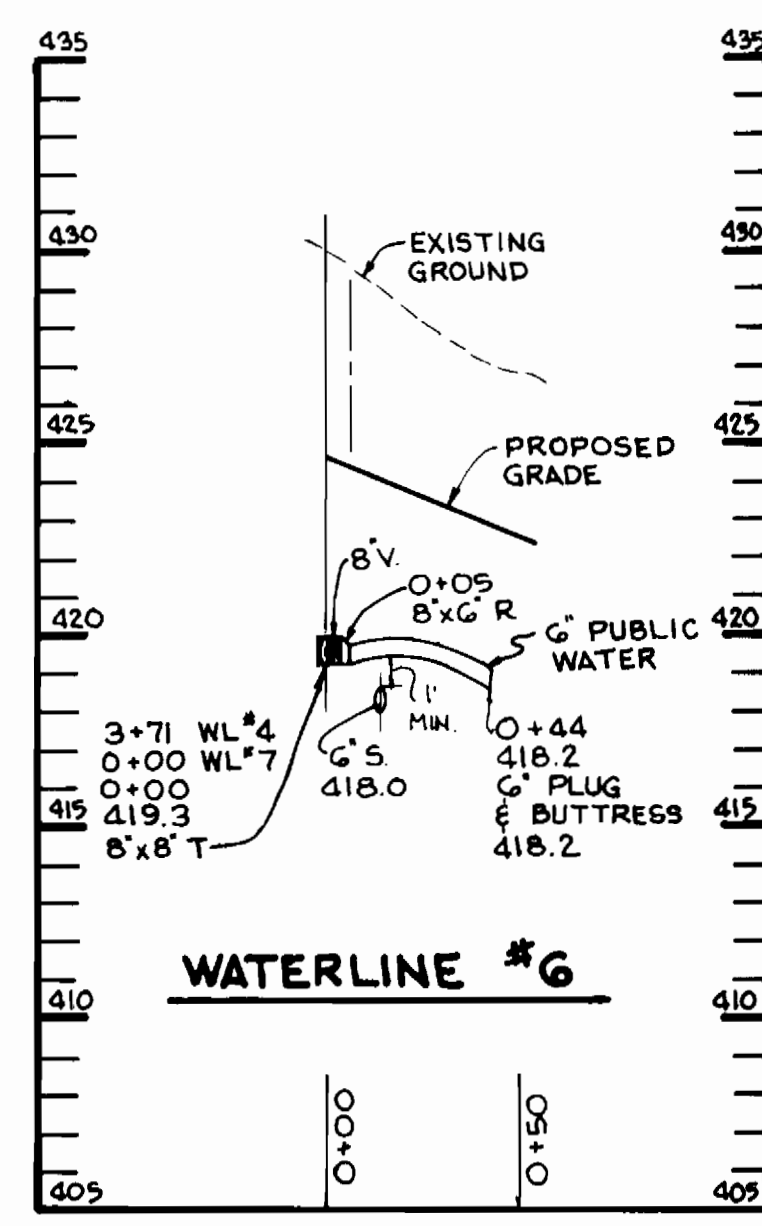
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**WATER PROFILE**  
SCALE: HOR. 1"=50'  
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**WATER PROFILE**  
SCALE: HOR. 1"=50'  
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**WATER PROFILE**  
SCALE: HOR. 1"=50'  
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DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*[Signature]* 6/24/94  
DIRECTOR OF PUBLIC WORKS DATE

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*[Signature]*  
JAYKANT D. PAREKH #19148

DES: J.C.O.  
DRN: R.J.C.  
CHK: D.K.R.  
DATE: 9-10-04

BY: ND. REVISION: DATE: 60' SCALE MAP NO. BLOCK NO.

**WATER MAIN PROFILES**

M.J.F. FARMS, SECTION 1  
UNITS 1-109  
TAX MAP: 30 PARCEL: W  
2nd ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
CONTRACT NO. 24-3333-D

SCALE AS SHOWN  
SHEET 4 OF 4