

Construction and connection to the proposed 12" water main shall be implemented in sequence, as follows. This sequence assumes all Phase I Maintenance of Traffic and sediment control devices are in place and operational prior to construction of water mains, and appurtenances.

- Construct proposed sanitary manhole 3, with 12" stubout over existing 12" sanitary main. Existing 12" main shall remain in operation. Reform channel as required per Howard County Standards.
- Construct proposed 12" sanitary main from proposed sanitary manhole 3 to manhole 3, 1+35.
- Construct proposed sanitary manhole 4, with 12" stubout, over existing 8" sanitary main as shown on plan. Reform channel as required per Howard County Standards. Manhole 4 will have an interim top elevation. Note: During Phase I Construction per the Maintenance of Traffic and Sediment Control Plan, manhole 4 top elevation shall meet existing ground.
- Construct proposed 12" sanitary main from manhole 4 to manhole 5, 0+45.
- Construct proposed sanitary manhole 6 over existing 12" main. Make connection to proposed 12" main. Reform channel as required per Howard County Standards. Remove existing 12" sanitary main where required to construct proposed manhole 6.
- Test and place proposed main in service. Brick shut existing 12" sanitary main entrance into proposed manhole 3. Remove existing 12" main from proposed manhole 3, manhole 6 and sanitary manhole 2240 prior to construction of the proposed twin 7 x 14' box culvert.
- Note: Raise proposed sanitary manhole 4 top elevation to finished grade during Phase II Construction per the Maintenance of Traffic and Sediment Control Plan.

SEQUENCE OF WATER MAIN RELOCATION BASELINE STATION 139+80 TO 144+70
SEE SHEET 2 OF 5

- Construct the 12" water main and temporarily cap and block the ends at the location shown on the plan.
- Construct the prepoured buttresses at baseline station 140+00 (station 0+20 of the proposed 12" water main) and at baseline station 144+70 (5+00 of the proposed 12" water main).
- Test and chlorinate the new main.
- Close the valves at the intersection of Centennial Lane and Burnside Drive and the three 8" valves in Burleigh Manor Subdivision located in Breconshire Drive at White Rose Way, at the same intersection in White Rose Way, and at the same intersection in Bristol Channel Drive and also at Centennial Lane, baseline station 134+35, which services Tanya Court. Open the division valve located on Tanya Court to provide temporary 550 Zone Service. Remove and relocate existing 8" valve at Centennial Lane, baseline station 140+80, offset 30' right. Cut the existing pipe and make connection with 12" sleeve and spacer as shown. Extend 8" water main to relocated valve, Centennial Lane, baseline station 140+80. Close the division valve on Tanya Court. Open all other valves and put the main back in service.
- Cap and abandon the existing 12" water main from baseline station 139+80 to 140+50. Remove existing 12" water main and appurtenances from baseline station 140+50 to 144+70 and salvage. Remove existing 12" water main as required to construct connection.

SEQUENCE OF WATER MAIN RELOCATION BASELINE STATION 150+25 TO 150+25
SEE SHEET 3 OF 5

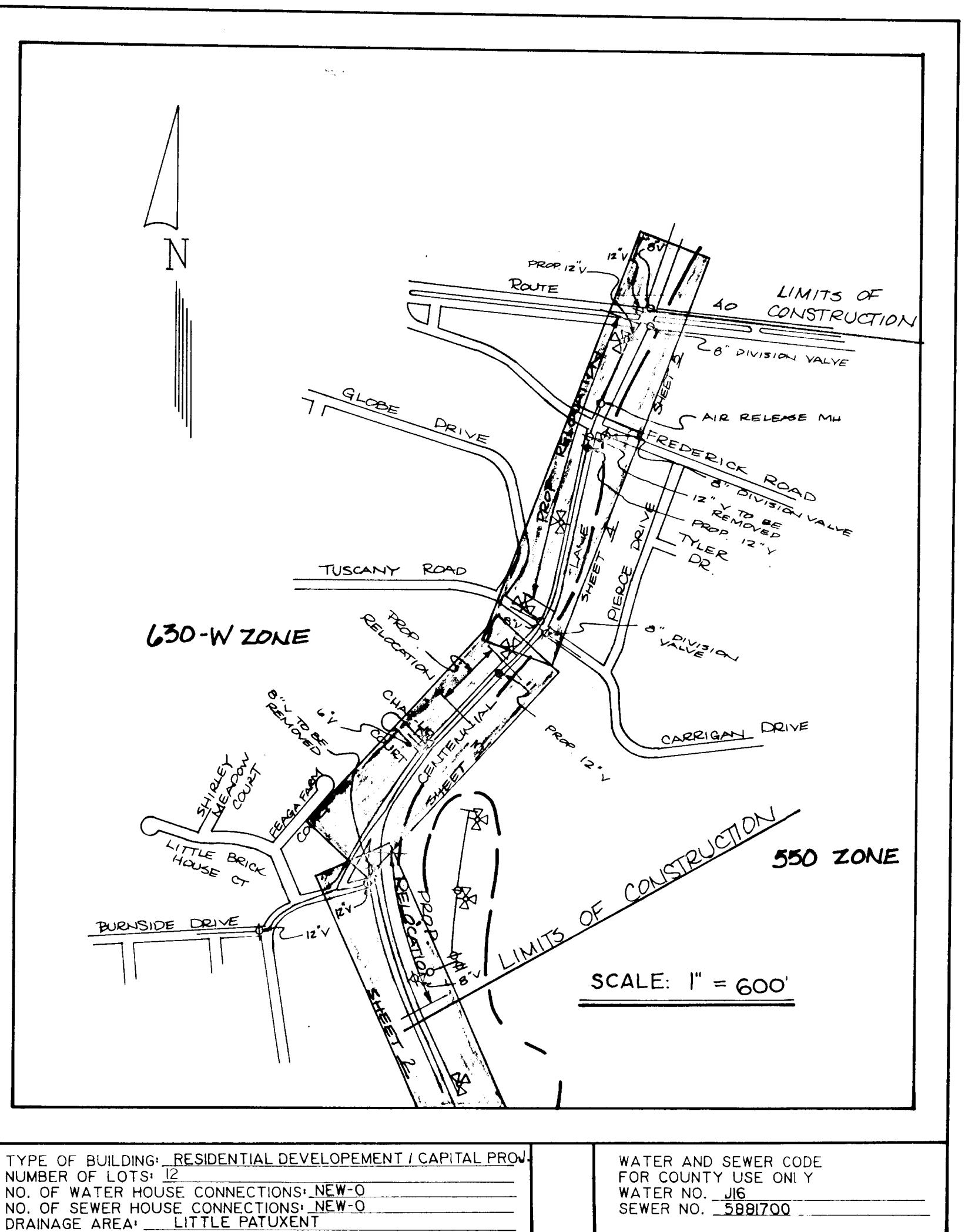
- Construct the 12" water main and temporarily cap and block the ends at the location shown on the plan.
- Construct the prepoured buttresses at the bends at baseline station 150+25 (station 0+10 of the proposed 12" water main), and at baseline station 150+05 (station 2+40 of the proposed 12" water main).
- Test and chlorinate the new main.
- Close the valves at Centennial Lane, baseline station 172+00, at the intersections of Centennial Lane and Burnside Drive, and at Tuscan Road and on Burnside Drive, 280' east of the intersection with Takoma Drive. Cut the existing pipe and make connections with 12" sleeve and spacer as shown. Remove existing 12" water main and install 4-1/8 vertical bends at baseline station 150+35. Bend water main below proposed storm drain. The existing 8" division valve located in Carrigan Drive is to remain closed. Open all other valves and put the main back in service.
- Remove the existing 12" water main and appurtenances from baseline station 155+60 to baseline station 157+60 and salvage.

SEQUENCE OF WATER MAIN RELOCATION BASELINE STATION 161+75 TO 177+80
SEE SHEET 4 OF 5 AND 5 OF 5

- Construct the 12" water main and temporarily cap and block the ends at the location shown on the plan.
- Construct the prepoured buttresses at the bend at Centennial Lane, baseline station 161+85 (station 0+25 of the proposed 12" water main).
- Test and chlorinate the new main.
- Provide temporary service to homes located on Centennial Lane between Carrigan Drive and Frederick Road. Close the 12" valve at baseline station 157+48; the 8" valve at baseline station 177+90; the two valves in the westbound lanes of U.S. Route 40 of Centennial Lane; the 8" valve in the westbound lanes of Frederick Road; on Centennial Lane; and at Tuscan Road. Cut the existing pipe and make connection with 12" sleeve and spacer as shown. Remove existing 8" x 8" tee and replace with 8" x 12" cross where shown. Remove existing 8" water main and 8" tee and replace with 8" x 12" cross where shown. Remove existing 8" water main and 8" tee and replace with 8" x 12" cross where shown. Remove existing 8" x 12" reducers where shown and replace with 8" sleeve and 2 existing 8" x 12" valves where shown and replace with 8" sleeve. Strap existing 8" valve to sleeve. Cut existing 12" water main at 8" x 12" tee and make connection with 12" sleeve and spacer as shown. Remove existing 8" water main to tee and plug unused 8" outlet as shown. Reset 2 fire hydrants as shown. Repair service connections as shown. The existing division valves, which are located in: Carrigan Drive; the westbound lane of Frederick Road and the eastbound lane of U.S. Route 40, are to remain closed. Open all other valves and put the main back in service. Remove temporary service connections and restore area to existing conditions.

- Remove the existing 8" water main and appurtenances at Centennial Lane, baseline stations 172+50 to 177+80. Cap and abandon the existing 12" water main at baseline stations 161+70 to 172+50. Remove existing 12" water main and appurtenances at baseline stations 172+50 to 177+80.

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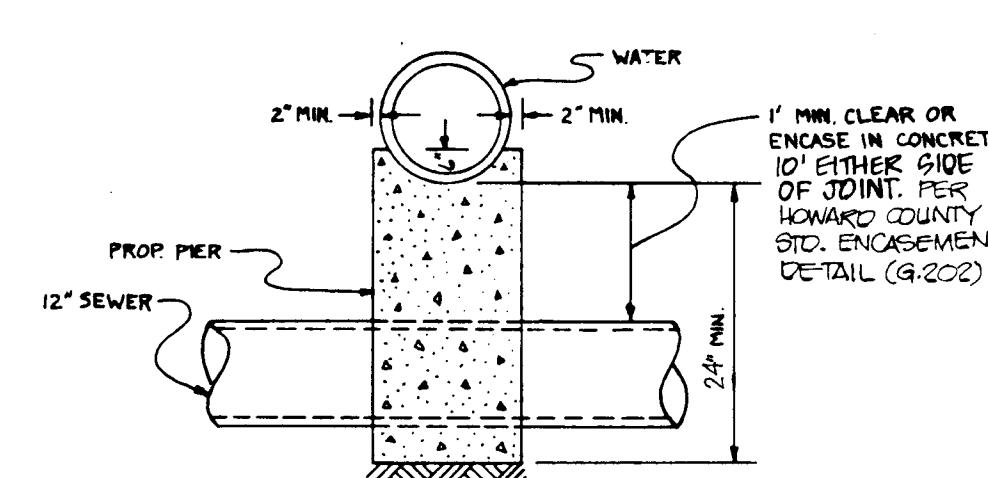
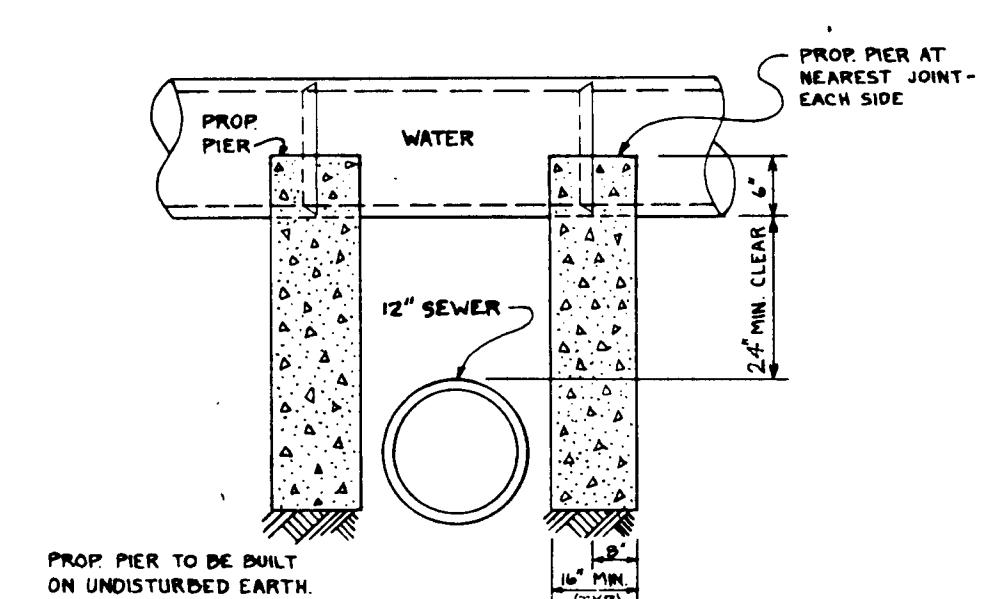
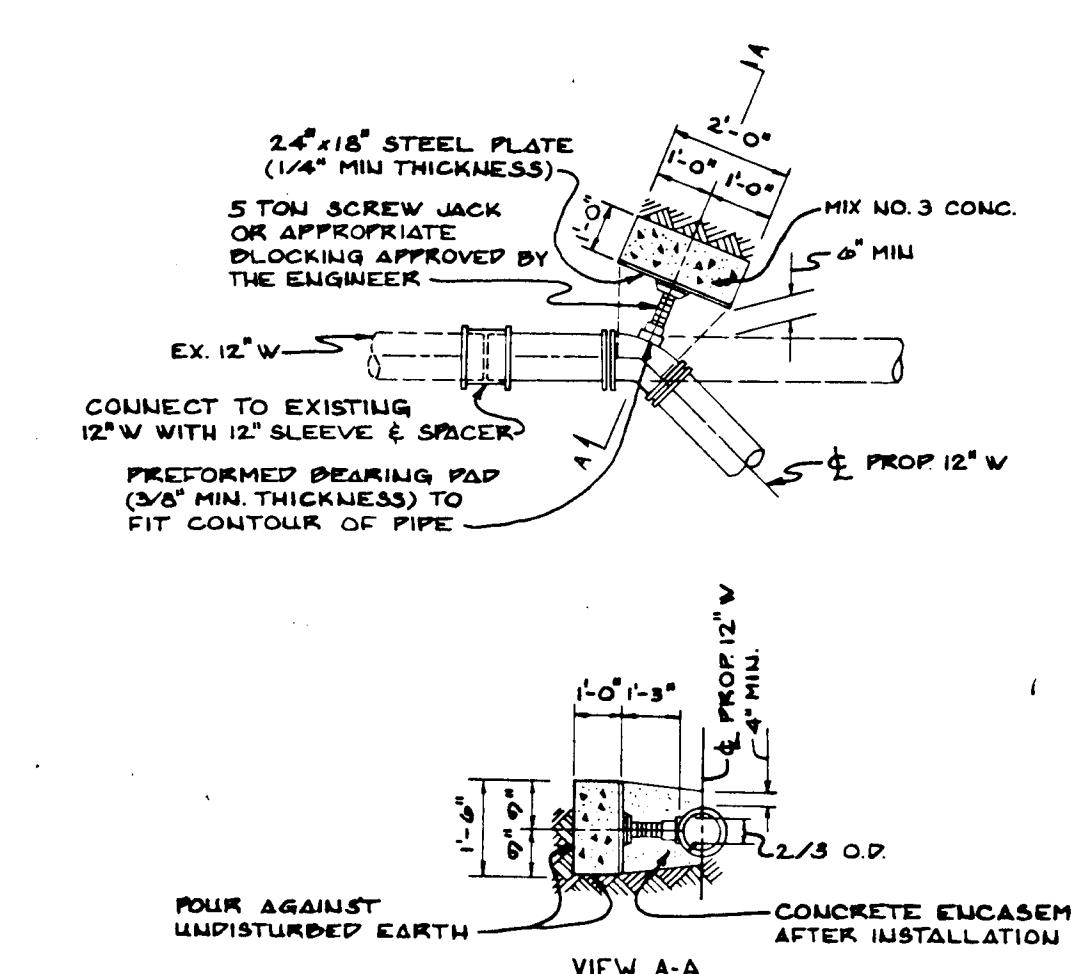
CENTENNIAL LANE WATER CAPITAL PROJECT No. W-8156 CONTRACT No. 24-1726-A

NOTE:
SEDIMENT CONTROL DETAILS SHOWN
ON SHEETS 20 THROUGH 26
OF THE J-4015-II ROAD CONSTRUCTION
DRAWING PACKAGE.

MATERIALS LIST		AS-BUILT	TYPE MAT'L	SUPPLIER
ITEM	ESTIMATED QUANTITY			
12" D.I.P.	252.1 LF.			
8" D.I.P.	40 L.F.			
6" D.I.P.	90 L.F.			
6" WHC	25 L.F.			
1" WHC	20 L.F.			
3/4" WHC	170 L.F.			
2" V	3 EA.			
8" V	1 EA.			
4" ARM				
1" AIR VACUUM RELEASE VALVES	1 EA.			
8" x 12" C	1 EA.			
8" x 12" T	2 EA.			
12" x 16" HB	2 EA.			
12" x 16" VB	12 EA.			
12" x 16" VR	8 EA.			
BUTTRESSES	5 EA.			
PREPOURED BUTTRESS				
6" x 6" TAPPING SLEEVE AND VALVE	1 EA.			

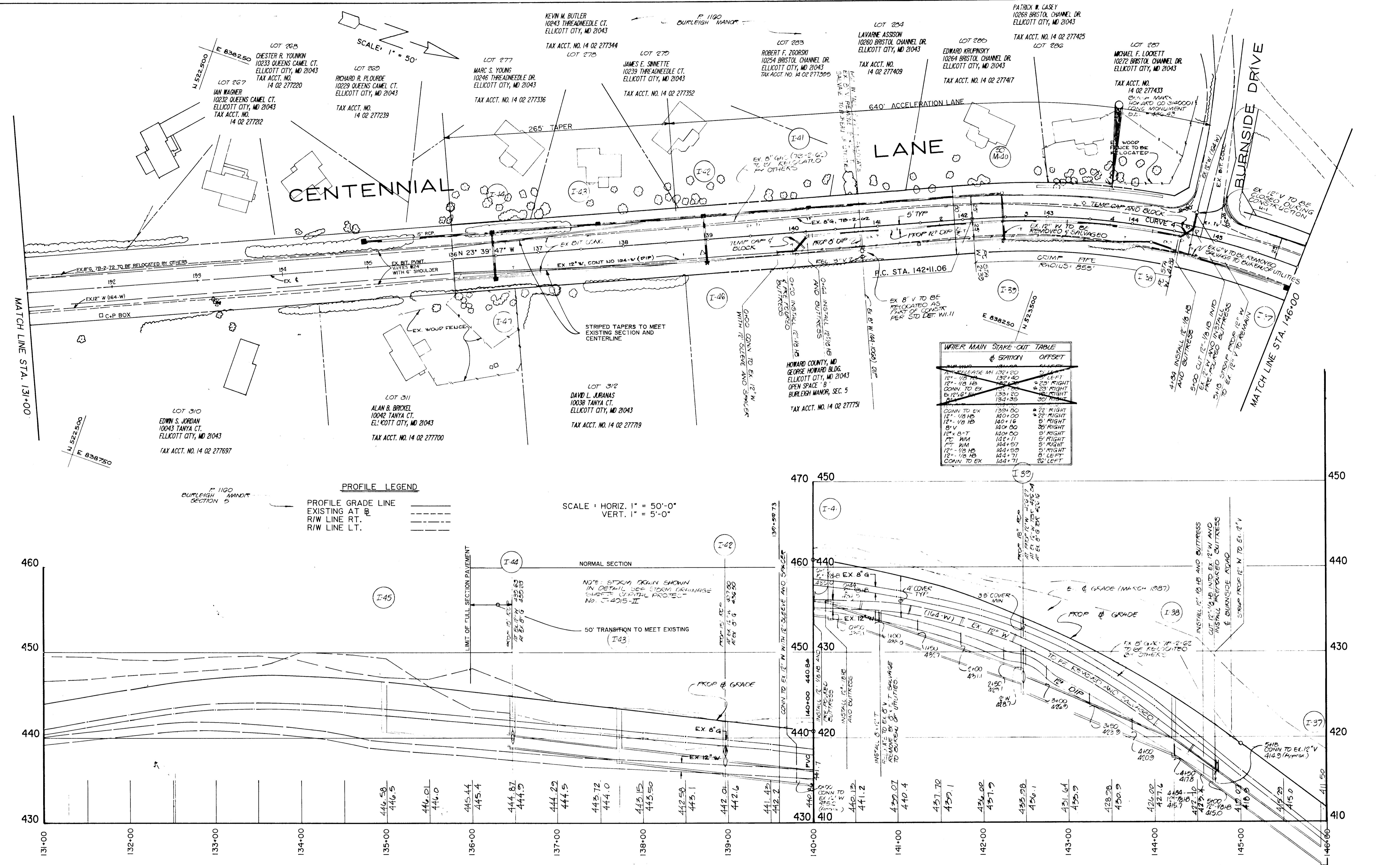
REVISED PER 100% COMPLETION

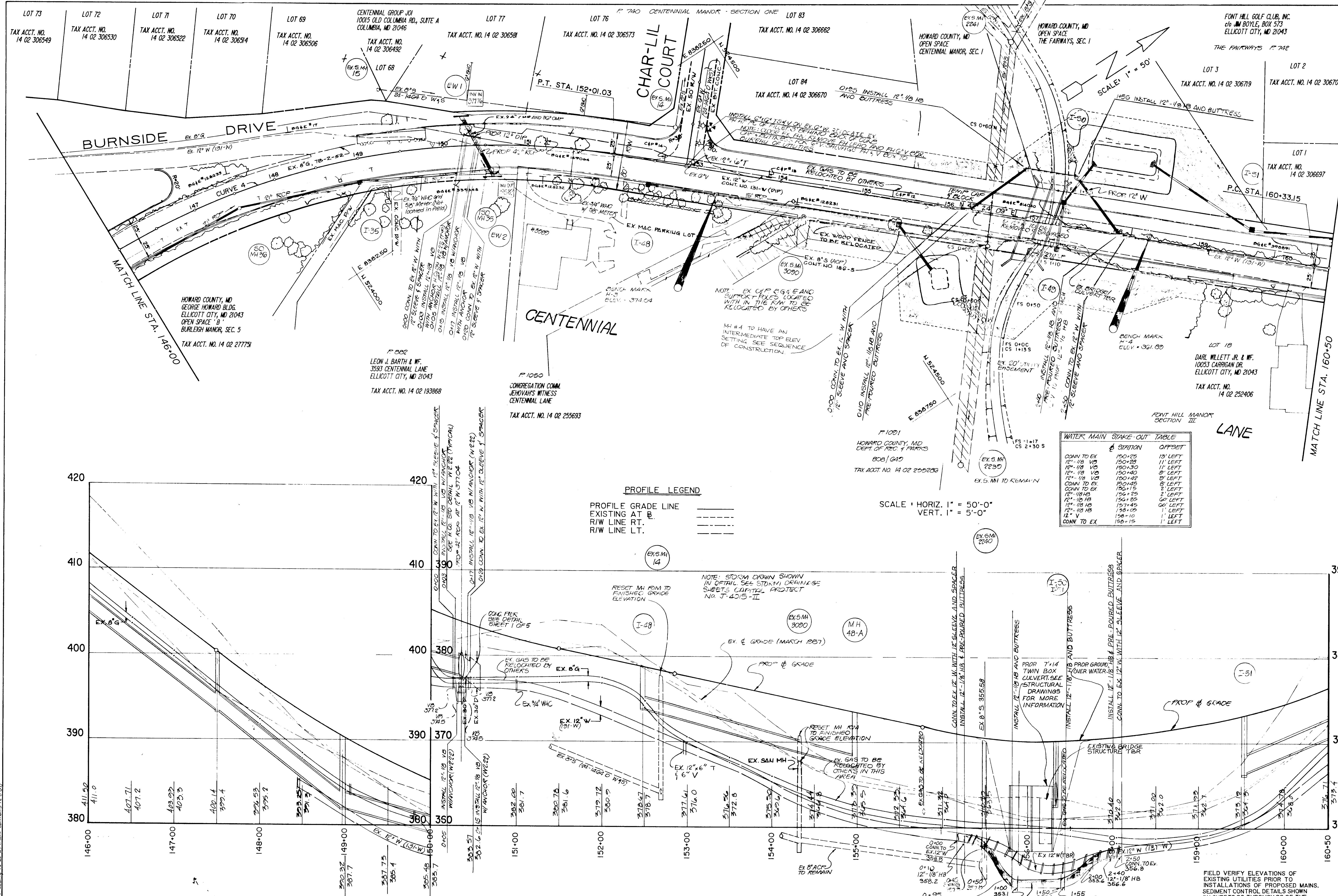
HOWARD COUNTY, MARYLAND James M. DeLoach, Jr. 1-25-91 DIRECTOR OF PUBLIC WORKS DATE	CHIEF, BUREAU OF ENGINEERING 1-23-91 Krisen E. Ray 1-23-91 DATE	MILDENBERG, MOCHI & ASSOCIATES, INC. ENGINEERS • SURVEYORS • PLANNERS 3300 North Ridge Road, Suite 235, Elliott City, Maryland 21043-3350 (301) 461-0078 D.C. Metro No. (301) 621-5768	DES: JBM/KAM DRN: STAFF CHK: JBM PROJ. #: 87001-00 DATE: 12/90 BY NO. REVISION DATE 600' SCALE MAP NO. 24 BLOCK NO.
Robert M. Beninger 11-29-90 CHIEF, BUREAU OF UTILITIES DATE	O. DeLoach 11-13-90 CHIEF, UTILITY DESIGN DIVISION DATE		



CENTENNIAL LANE
WATER AND SEWER
CAPITAL PROJECT No. W-8156
CONTRACT No. 24-1726-A
ELECTION DISTRICT No. 2
HOWARD COUNTY, MARYLAND

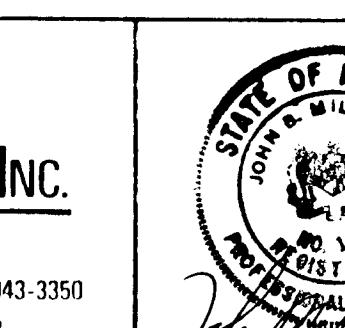
SCALE AS SHOWN
SHEET 1 OF 5





DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
James M. Miller 12-25-90
DIRECTOR OF PUBLIC WORKS DATE
1. 2nd SUBMISSION CHANGES PER CO. COMMENT 4-20-90
Robert M. Beirne 11-19-90
CHIEF, BUREAU OF UTILITIES DATE
William G. Ray 12-23-90
CHIEF, BUREAU OF ENGINEERING DATE
Og Donham 11-13-90
CHIEF, UTILITY DESIGN DIVISION DATE

MILDENBERG,
MOCHE & ASSOCIATES, INC.
ENGINEERS • SURVEYORS • PLANNERS
3300 North Ridge Road, Suite 235, Ellicott City, Maryland 21043-3350
(301) 461-0078 D.C. Metro (301) 621-5768



STATE OF MARYLAND
OFFICE OF THE SECRETARY
DEPARTMENT OF TRANSPORTATION
STATE ENGINEER
10-20-90

DES: KAM
DRN: JMS/KAM
CHK: JOM
DATE: 12/90

BY	NO.	REVISION	DATE
		600' SCALE MAP NO. 24	BLOCK NO.

WATER & SEWER RELOCATION
PLAN & PROFILE
STA. 146+00 TO STA. 160+50
CENTENNIAL LANE

CENTENNIAL LANE
STATION 136+00 TO U.S. ROUTE 40
CAPITAL PROJECT W-8156 CONTRACT NO. 24-1726-A
ELECTION DISTRICT NO. 2
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 3 OF 5

