SEQUENCE OF OPERATIONS - WATER MAIN RELOCATION

- 1. West baseline of North Chatham Road must be brought roughly to grade prior to construction of 8" water main along North Chatham Road.
- 2. Construct 8" water main along North Chatham Road including 8"x8" Tee and 8" valve to
- serve Paulskirk Drive. Temporarily cap and block the ends at the locations indicated on the plan, sheet 2 of 3.
- 3. Test and chloringte the new main.
- 4. Close valves at intersection of North Chatham Road and U.S. Rte 40, at intersection of North Chatham Road and Ramblewood Road, and at intersection of Paulskirk Drive and Ramblewood Road. (Valves to be closed by Howard County DPW.)
- 5. Make connections at Sta 0+00 and Sta 7+44 on North Chatham Road and at Sta 0+50 on
- 6. Reopen valves as listed in note 4 above. (Valves to be opened by Howard County DPW.)
- 7. Remove existing water valves as noted on the plan and deliver to Howard County Bureau of Utilities Maintenance Yard.
- 8. For portions of water main to be abandoned in place cut main at locations indicated on profile, sheet 3 of 3, and plug with concrete.

SEQUENCE OF OPERATIONS - SEWER MAIN RELOCATION

- 1. Maintain sanitary sewer flow at all times during this construction.
- 2. Verify location of proposed sanitary manhole WT1 with test pit at location indicated on plan, sheet 2 of 3.
- 3. Upon verification of proposed sanitary manhole WT1 location construct manhole over existing pipe including stub for proposed 8" DIP running from existing MH-6806.
- 4. Construct main from existing MH-6806 to tie in at proposed manhole WT1.
- 5. Complete ties of existing and proposed sanitary sewer main at manhole WT1 and MH-6806.
- 6. For portion of existing 8" ACP to be abandoned in place cut line at locations indicated on profile '8" SEWER RELOCATION - NORTH CHATHAM ROAD', sheet 3 of 3.

EST'D	A.C. D.III.T.		
	AS-BUILT	TYPE MATERIAL	SUPPLIER
3 EA.			
6 EA.			
2 EA.			
1 EA.			
2 EA.			
794 L.F.			
1 EA.			_
224 L.F.			
	-		
	6 EA. 2 EA. 1 EA. 2 EA. 2 EA. 2 EA. 2 EA. 794 L.F. 1 EA.	6 EA. 2 EA. 1 EA. 2 EA. 2 EA. 2 EA. 2 EA. 2 EA. 794 L.F. 1 EA.	6 EA. 2 EA. 1 EA. 2 EA. 2 EA. 2 EA. 2 EA. 2 EA. 1 EA. 1 EA.

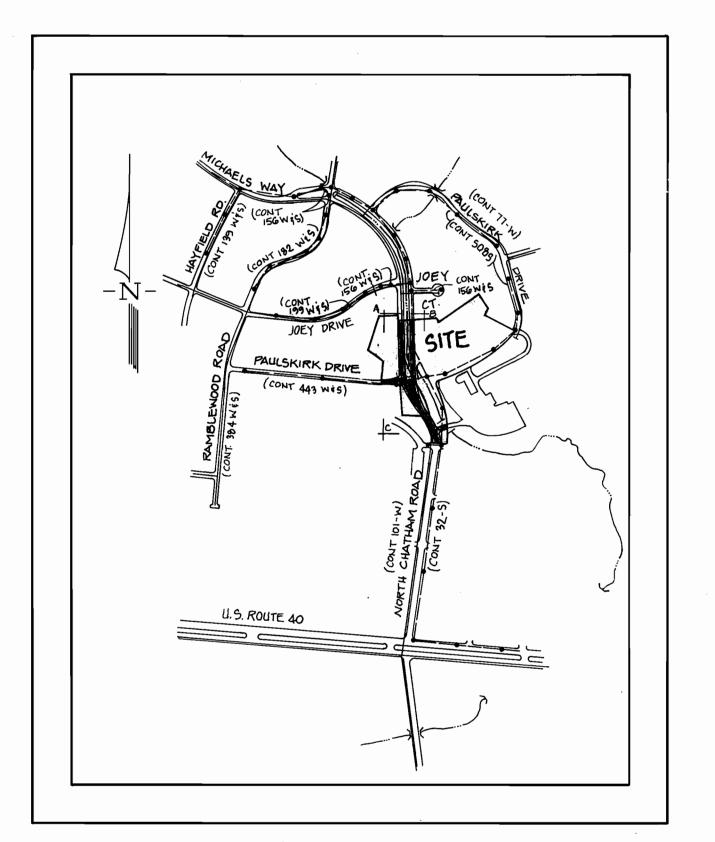
SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL AND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS AND ALSO AS SHOWN ON THE GRADING AND SEDIMENT CONTROL PLAN

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

U.S. SOLV CONSERVATION SERVICE

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

NOTE: SEDIMENT CONTROL DETAILS SHOWN ON SHEETS 9 THROUGH 11 OF THE J-4088 ROAD CONSTRUCTION DRAWING PACKAGE.



COORDINATE TABLE

E 847250

N 527250

E 847250

A N 528000

B N 528000

SCALE: 1" = 600'

CAPITAL PROJECT No. W-8156 CONTRACT NO. 14-3179 NORTH CHATHAM ROAD

WATER AND SEWER MAIN RELOCATION HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS

PLAN REFERENCE NUMBERS

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. DATUM.
- 4. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- 5. CLEAR ALL UTILITIES BY A MINIMUM OF 6".
- 6. FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS, USE HOWARD COUNTY DESIGN MANUAL, VOLUME IV. STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION. THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB.
- 7. 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 VERIFIED BY THE CONTRACTOR TO HIS OWN SATISFACTION. ANY DAMAGE TO EXISTING FACILITIES DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- 8. CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE WORK DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:

STATE HIGHWAY ADMINISTRATION: 531-5533 BALTIMORE GAS & ELECTRIC CO.-CONTRACTOR SERVICES: 850-4620 BALTIMORE GAS & ELECTIRIC CO. UNDERGROUND DAMAGE CONTROL: 859-9004 BALTIMORE GAS & ELECTRIC CO. TROUBLE SHOOTING: 298-9040 MISS UTILITY: 1-800-257-7777 COLONIAL PIPELINE COMPANY: 795-1390 BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS: 313-2366

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 DAMAGED BY THE CONTRACTOR.

C & P TELEPHONE COMPANY: 597-8585

- 10. 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.
- 11. PLACE REGULATION "MEN WORKING" AND WARNING SIGNS AS REQUIRED TO COMPLY WITH MARYLAND STATE HIGHWAY ADMINISTRATION MANUAL OF TRAFFIC CONTROL FOR HIGHWAY CONSTRUCTION & MAINTENANCE OPERATIONS.

WATER NOTES

- 1. ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
- 2. TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3-1/2' COVER UNLESS OTHERWISE NOTED.
- 3. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- 4. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- 5. 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 OF THE STANDARD SPECIFICATIONS.
- 6. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- 7. ALL D.I.P. FITTINGS SHALL BE IN ACCORDANCE WITH AWWA SPECIFICATION C-153: DUCTILE IRON COMPACT FITTINGS, 3-INCH THROUGH 12-INCH FOR WATER AND OTHER LIQUIDS.
- 8. ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTINGS, UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS. (STD. DETAIL W.3.21).
- 9. WATER MAINS AND WATER HOUSE CONNECTION LINES MUST BE PLACED SO AS TO HAVE AT LEAST ONE (1) FOOT SEPARATION FROM THE SEWER MAIN OF SEWER HOUSE CONNECTION AS THEY PASS ABOUT IT.

SEWER NOTES

- 1. MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATER-TIGHT 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.
- 2. ALL SEWER MAINS SHALL BE D.I.P OR P.V.C UNLESS
- 3. THE CONTRACTOR SHALL PROVIDED A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALL.
- 4. ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE
- 5. MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES
- 6. MANHOLES LOCATED WITHIN PROPOSED ROADWAY SHALL HAVE STANDARD HEAVY TRAFFIC MANHOLE FRAME AND COVER, STANDARD DETAIL G5.51.

No in-stream construction shall take place on this job between March 1 and June 15, inclusive, of any year.

Waterway Construction Permit No. 89-WC-1180 Corps of Engineers Permit No. 91–1167 Water Quality Certification No. 91-WQ-0325

DEPARTMENT OF PUBLIC WORKS

Robert M Berger 1-17-92 CHIEF, BUREAU OF UTILITIES DATE

(301) 461-0078 D.C. Metro No. (301) 621-5768



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	DATE: JAN. '92	BY	NO.	REVISION	DATE	
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TITLE SHEET

NORTH CHATHAM ROAD WATER & SEWER RELOCATION CAPITAL PROJECT No. W-8156 / CONTRACT No. 14-3179 ELECTION DISTRICT NO. 1

HOWARD COUNTY, MARYLAND

SCALE SHOWN SHEET

1 OF 3

