

LEGEND

Sediment Control Measures will be implemented in accordance with Article No. 15 of the Specifications & with THIS PLAN.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT.

SIGNATURE

U.S. SOIL CONSERVATION SERVICE

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

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

GEW GUTSCHICK LITTLES-WEBER, PA. ENGINEERS, PLANNERS, SURVEYORS

BURTONSVILLE, MD. 20866

(301) 421 - 4024

HOWARD

DEPARTMENT

DES: 700 CHK: OKG DATE: 1989 BY NO. REVISION

OF PUBLIC

TITLE SHEET SEWER MAIN AND PROFILE DATE 600 SCALE MAP NO. 31 BLOCK NO. 19

GINGLE FAMILY DETACHED TYPE OF BUILDING NUMBER OF SHC's NUMBER OF WHC's PATAPSCO DRAINAGE AREA

GENERAL NOTES

- I. Approximate locations 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". Clear all poles by 2'-0" minimum or tunnel as required. Any cost incurred by the contractor for tunnelling or bracing at poles shall be included in unit prices bid for construction of the main.
- 6. For details not shown on the drawings, use Howard County Standard Details.
- 7. For materials and construction methods, use Howard County Standard Specifications & Howard County Design Manual, Volume IV. The Contractor shall have a copy of Volume IV on the job.
- 8. Contractor shall locate existing utilities a minimum of two (2) weeks in advance of construction operations in the vicinity of proposed utilities, at his own expense. 9. Contractor shall notify the following utilities or agencies at least five (5) working days before starting work

shown on these plans.	
State Highway Administration 531-5	5533 Baltimore Gas & Electric Company
"Miss Utility"1-559-0	0100 Contractor Services 561-2585
Chesapeake & Potomac (C&P)	Underground Damage Control234-5621
Telephone Company725-9	9976 Trouble-shooting298-9013
Colonial Pipeline Company795-1	1390 Bureau of Utilities, Howard County992 - 2366

- 10. Trees are to be protected from damage to maximum extent. Trees located within the construction strip are not to be removed or damaged by the contractor.
- 11. Contractor shall remove trees, stumps and roots along line of excavation as directed by the Engineer Payment for such removal shall be included in the unit price bid for construction of the main.
- 12 Place regulation "Men Working" and warning signs as required to comply with Maryland State Highway Administration Manual of Traffic Control for Highway Construction and Maintenance Operations.
- -13. All water mains to be D.I.P. unless otherwise noted.
- 14. Top of all water mains to have a minimum of 3-1/21 cover unless otherwise noted
- 15. Valves adjacent to tees shall be strapped to tees.

16. Block all fittings with concrete

- 17. Bury line elevations on fire hydrants shall be set to the elevations of shall be strapped and buttressed with concrete in accordance with standard-details. Soilto be compacted in accordance with Sections 10.03 and 10.08 of the Standard Specification
- 18. All water house connections shall be for an incide mater cetting
- -19. The contractor shall not operate any water main valves on the
- 20. For all Copper Water House Connections, utilize flared type fittings only
- 21. All sewer mains shall be D.I.P. GLASS SZ ONLY.
- 22. The contractor shall provide a joint in all sewer mains within 2'-0" of exterior manhole wall.
- 23. All manholes shall be 4'-0" inside diameter, unless otherwise noted.
- 24.12" and 16" manhole wall thicknesses shown on profiles pertain to brick manholes only.
- 25. Manholes designated W.T. in plan and profile shall have watertight frames and covers. (See Standard Detail G.5.52). Where watertight manhole frame and cover is used, set top of frame 1'-6" above finished grade.(See Standard Detail G.5.41.).
- 26. House(s) with the symbol "C.N.S." indicates that cellar cannot be served.
- 27. Water main and water house connection lines must have a minimum of one foot separation from either sanitary sewer or sewer house connections as they cross. Except at crossings, water and sewer lines shall have a minimum horizontal separation of 10'.

QUANTITIES			
ITEM	ESTIMATED	AS-BUILT	MATERIAL / SUPPLIER
7'DIA. M.	1 =4.	1 EA	ATLANTIC PrecasT
		398 L.F	Griffing Pipe Co.
" O.H.C. DIP	70 L.F.	98. L.F	

ONEILL PROPERTY

LOTS ITHRU 4 19TELECTION DISTRICT CONTRACT#-10-1921-D

SHEET <u>/_of_/</u>

SCALE

AS

SHOWN

AS-BUM?

G = 4115

6 (D.I.P. OLAGO 52

PLAN SCALE

8"x4" TEE STA: 1+13

EXI.

EX.8'S.(N) INV.=412.66 (PLAN)

CONN. TO EX. MH. GO(10:1/0:19) 393.0G(PLAN)

PROFILE SCALE
HOR. I'- SO'
VERT. I''-SO'

420

0 = 4075

8"X6" TEE STA: 2+37

S-INVETOP OF DROP=9079

ا این به معنواهم می افراه مانیواهی دیورات ایندای

8"S.@1.00%(D.1.1. CL. 52)

SANITARY SEWER PROFILE

O'NEILL PROPERTY

CONTRACT NO. 10-1921-D

LOTS 1 THRU 4

COUNTY,

C=4035

8"x6" TEE STA: 3+25

EX. GROUND

OVER SEWER

TINVETOP OF DROP=403

307.00-

0"8HO.(N) UP82.0% 39720

MARYLAND

WORKS

100

G=4024

out of mH +1

SO'SEWER SUTILITY

4-18-89