2. MATERIALS FROM TRENCH EXCAVATION TO BE PLACED ON UPHILL SIDE TRENCH. 3. CONTRACTOR TO BACKFILL, COMPACT AND STABILIZE IMMEDIATELY AFTER INSTALLATION OF PIPE. NO TRENCHES WILL BE LEFT OPEN AT THE END OF EACH DAY, EXCEPT THAT PORTION WHERE

4. ANY SEDIMENT CONTROL FACILITIES ENCOUNTERED DURING PIPE CONSTRUCTION TO BE RETURNED TO ORIGINAL CONDITION IMMEDIATELY UPON COMPLETION OF THAT PORTION OF WORK.

WORK HAS STOPPED.

5. SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY STANDARD SPECIFICATION AND AS PER ROAD CONSTRUCTION PLANS.

AS-BUILT 94C TO MH2 = 26' SHC TO BGGE = 18' WHC TO MHZ = 27' TO B(365 = 22' TO LOT! WHO = 02' TO LOTISWHO =>3' WHE TO LOT! WHE =00' WHIL TO LOT! SWHIL = 04' SHC TO TVBOX = 57.5' SHC TO MHZ = 11' WHC TO TVBCX = 15.0' M-16 TO M-12 = 55

OLD

PLAN

SCALE : 1"= 50'

MONTGOMERY

M.C.E. = 408.40 3 1731

LOT 2 12,877 sq.ft.

0.2956 ocres

N44'32'57"W

0.2810 ccres

BENCH MARKS

32

33

LOT

35

M.C.E. 407.40

AND UTILITY BASEMENT &

20 PUBLIC WATER SEVER

208.56

M.C.E. 7 409.00

No.1. SQ. CUT AT TOP OF CURB END. ELEV. 413.91 No.2-NAIL SET IN 20" MAPLE. ELEV. 417.38

PAN THIS BOILEN, C

GAS BOX

MHIGSTO CHOI

TEST GRADIENT=700

WATER No.: € 04

WATER AND SEWER CODE

SEWER No.:5333400

FOR COUNTY USE ONLY

MONTGOMERY 3 (I DUAL)

DRAINAGE AREA

LPWWQMC

GENERAL NOTES

VICINITY MAP

MAP #30 BLOCK # 11

SCALE :1" = 600'

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 NAD '33, MARYLAND COORDINTE SYSTEM.

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. THE OWNER HAS CONTRACTED THE UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON THE DRAWNGS. 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 BRACING OF THE

6. FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS, USE HOWARD COUNTY DESIGN MANUAL, VOLUME FOUR, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION. THE CONTRACTOR SHALL HAVE A COPY OF VOLUME FOUR 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 LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS AT HIS OWN EXPENSE.

CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THIS PLANS :

> STATE HIGHWAY ADMINISTRATION: 531-5533 BALTIMORE GAS & ELECTRIC CO.- CONTRACTOR SERVICES: 850-4820 - UNDERGROUND DAMAGE CONTROL : 787-9088 - TROUBLE SHOOTING: 298-9001

MISS UTILITY: 1-800-257-7777 COLONIAL PIPELINE COMPANY: 795-1390 BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS: 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 DAMAGE BY

10. CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG LINE OF EXCAYATION, PAYMENT FOR SUCH REMOVAL SHALL BE 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 UNLESS OTHERWISE NOTED.

13. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.

14. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE 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 DRAWNGS. ALL FIRE HYDRANTS SHALL BE RESTRAINED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS. SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND 1005 OF THE STANDARD SPECIFICATIONS.

16. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.

17. ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING, UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.

18. WATER MAINS OR WATER HOUSE CONNECTION LINES MUST BE PLACE SO AS TO HAVE AT LEAST ONE (1) FOOT SEPARATION FROM THE SEWER MAIN OR SEWER HOUSE CONNECTION AS THEY

19. 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 DRAWNGS.

20. ALL SEWER MAINS SHALL BE D.I.P., R.C.P., V.C.P.X., C.S.P.X., R.C.C.P., AND P.V.C. UNLESS

OTHERWISE NOTED. 21. THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR

MANHOLE WALL.

22. ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.

23. MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.

24. MANHOLES LOCATED WITHIN PROPOSED ROADWAY SHALL HAVE STANDARD HEAVY TRAFFIC MANHOLE FRAME AND COVER, STANDARD DETAIL G 5.51

25. ALL D.I.P. FITTINGS SHALL BE IN ACCORDANCE WITH AWWA SPECIFICATION C-153: DUCTILE IRON COMPACT FITTINGS, 3" THROUGH 12" FOR WATER & OTHER LIQUIDS.

26. ALL EXISTING STRUCTURES TO BE REMOVED.

27. FORCE MAINS SHALL BE D.I.P. ONLY.

28. HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT THE CANNOT BE SERVED.

QUANTITIES AS-BUOLT QUANTITIES ESTIMATED QUANTITIES MANUFACTURER / SUPPLIER TYPE 37 L.F. COPPER COMBRIGHT LEE/WATER PRO IV W.H.C. 36 LF 148 L.F. COPPER 3/4" W.H.C. CAMBRIDGE LEE, WATER FRO 140 LF 343 L.F. P.V.C. JM /WATER FORC 8" SEWER 347 LF PRE-CAST ATLANTIC/ATLANTIC MAN HOLE 131 LF 1999 1 PYC JH / WATER FRO MANNE OF UTILITY CONTRACTOR, UTILITIES UNLIMITED Survey and drafting division as-built date

> VILLAGE OF LONCREACH SECT. 1 / AREA 2 MH -EXIST. GROUND 403 8"S.C 0.77% 403.31 400 INV EX INV W/S) 299.01 401.28 390

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

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

APPROVED:

F-83-106 WP-93-104 SDP-93-110

OWNER/DEVELOPER ETHAN GROSSMAN ENGINEERING 10750 HICKORY RIDGE ROAD COLUMBIA, MARYLAND 21044

> DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND.

Robert M Beinger 11-9-93

Buld Eppin CHIEF, BUREAU OF ENGINEERING Milaumon CHIEF. LAND DEVELOPMENT DIVISION

PREPARED BY : AMERICAN ENGINEERING, INC. CIVIL ENGINEERING CONSULTANTS AND LAND PLANNER

671-A MAIN STREET LAUREL, MD. 20707

BALT. (410) 830-3039 WASH. (301) 953-1221



	DES : D.C.W.	Tew	1	REV. SEWER ALICHMENT	7	17	94	ſ
	DRN : W.D.F.							
MIL	CHK : R.A.	.						
	DATE :9-18-92	BY	NO.	REVISION		DA ⁻	TÉ	-

PLAN & PROFILE WATER AND SEWER MAINS

_ BLOCK NO. _______11

the same of the second second

800'SCALE MAP NO. 36

GENERAL NOTES (CONT.)

OF HIGHWAYS, HOWARD COUNTY, AT (410) 313-2450 AT LEAST FIVE (5) WORKING DAYS BEFORE

OPEN CUT OF ANY COUNTY ROAD OR BORING!

JACKING OPERATION IN COUNTY ROADS FOR

LAYING WATER SEWER MAINS OR HOUSE

CONNECTIONS. THE APPROVAL OF THESE

DRAWINGS WILL CONSTITUTE COMPLIANCE

WITH DPW REQUIREMENTS PER 18.114(a)

29. THE CONTRACTOR SHALL NOTIFY THE BUREAU

OF THE HOWARD COUNTY CODE.

AMERICA

CONTRACT No. 24- 3292 - D 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE AS SHOWN SHEET 1 OF 1

45-BUILT 9/28/94