

J-M MFG. ATLANTIC CONC J-M MFG. HOWELL METALS CAMBRIDGE - LEE NAME OF UTILITY COUTTACTOR CONSOLIDATED CONSTRUCTION SERVICES

QUALITY MANAGEMENT CENTER; SAVAGE, MD

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.

GENERAL NOTES

VICINITY MAP

SCALE: 1"=600'

ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.

ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATUM.

WATER & SEWER CODE FOR COUNTY USE ONLY

WATER NO.: <u>EZB</u> SEWER NO.: <u>G590000</u>

WATER TEST GRADIENT: 700

TYPE OF BUILDING: SINGLE FAMILY DETACHED

NUMBER OF LOTS: 4 BUILDABLE: 4

NO. OF SEWER HOUSE CONNECTIONS: DRAINAGE AREA: MIDDLE PATUXENT TREATMENT PLANT: LITTLE PATUXENT WATER

NO. OF WATER HOUSE CONNECTIONS: 4

ALL PIPE ELEVATIONS ARE INVERT ELEVATIONS.

CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2'-0" MINIMUM OR TUNNEL AS REQUIRED.

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 (1991 AMENDMENTS) THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB SITE.

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 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.. - UNDER GROUND DAMAGE CONTROL - 787-9068 MISS UTILITY - 1-800-257-7777

COLONIAL PIPELINE CO. - 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 DAMAGED BY THE CONTRACTOR

10. CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG THE LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.

11. ALL SEWER MAINS SHALL BE D.I.P., R.C.P., C.S.P.X., R.C.C.P., V.C.P.X., OR P.V.C. UNLESS OTHERWISE NOTED.

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

13. T.B. DENOTES TEST BORING. 14. MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.

15. MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL G 5.52. 16. WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE

NOTED ON THE PLANS OR IN THE SPECIFICATIONS.

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

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

19. MANHOLES LOCATED WITHIN THE PROPOSED ROADWAY SHALL HAVE STANDARD HEAVY TRAFFIC MANHOLE FRAMES AND COVERS,

20. WATER MAINS AND WATER HOUSE CONNECTION LINES MUST BE PLACED AS TO HAVE ONE (1) FOOT SEPARATION FROM THE SEWER

MAIN OR SEWER HOUSE CONNECTION AS THEY PASS ABOUT IT. 21. ALL WATER MAINS SHALL BE D.I.P., CLASS 52 UNLESS OTHERWISE NOTED.

22. TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3-1/2' COVER UNLESS OTHERWISE NOTED. 23. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.

24. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE

PROVIDED FOR ON THE DRAWINGS. 25. FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATION SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE RESTRAINED AND

BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS (W1.11 AND W2.13). SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND 1005 OF THE STANDARD SPECIFICATIONS. 26. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.

27. ALL D.I.P. FITTINGS SHALL BE IN ACCORDANCE WITH AWWA SPECIFICATIONS C-153; DUCTILE IRON COMPACT FITTINGS, 3-INCH THROUGH 12-INCH FOR WATER AND OTHER LIQUIDS.

28. THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, . (410) 313-2450 AT LEAST FIVE WORKING DAYS BEFORE ANY 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 SECTION 18.114(a) OF THE HOWARD COUNTY CODE.

29. DUE TO THE IDVERT ELEVATIONS OF THE EX. IZ! WM IN HILLTOP LANE; THE INDICATED THIN WATER HOUSE CONNECTIONS SHALL BE I'/Z-INCH (I" WHC AFTER THE "Y" BRANCH WITH 3/4" INSIDE METER SETTINGS - STANDARD DETAIL W 3.23).

CONTRACT NO. 34 - 5409 - D CLARY'S DISCOVERY TY WATER AND SEWER EXTENSIONS HOWARD COUNTY, MARYLAND

CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
SUITE 100, 9171 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21042



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| FCC | <u>z</u> | ADD NOTES REGARDING INSTRUMENTAL HOUSE CONTRACT NOS. | 4-2596 |
| DFI | | AS-BUILT | 10/95 |
| MLM | Δ | ADD SHO'S FOR FUTURE LOTS 'B' & 'D' | 8/19 |
| BY | NO. | REVISION | DATE |
| | MJM | DFI A | DFT AS-BOILT MJM \(\Delta \) ADD SHC'S FOR FUTURE LOTS 'B' \(\cdot \) D' |

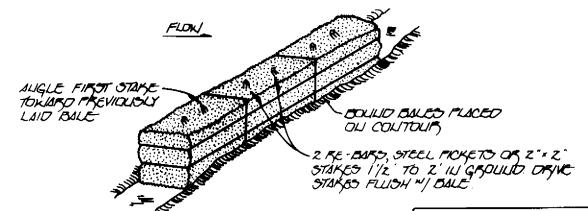
PLAN VIEW SEWER MAINS

600' SCALE MAP NO. ___35_

CLARY'S DISCOVERY IV LOTS 1-4 CONTRACT NO. 34-3409-D FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND BLOCK NO.



BEDDING DETAIL



ANCHORING DETAIL

SEE SHEET I FOR LOCATIONS OF OTRAN BALE DIKED

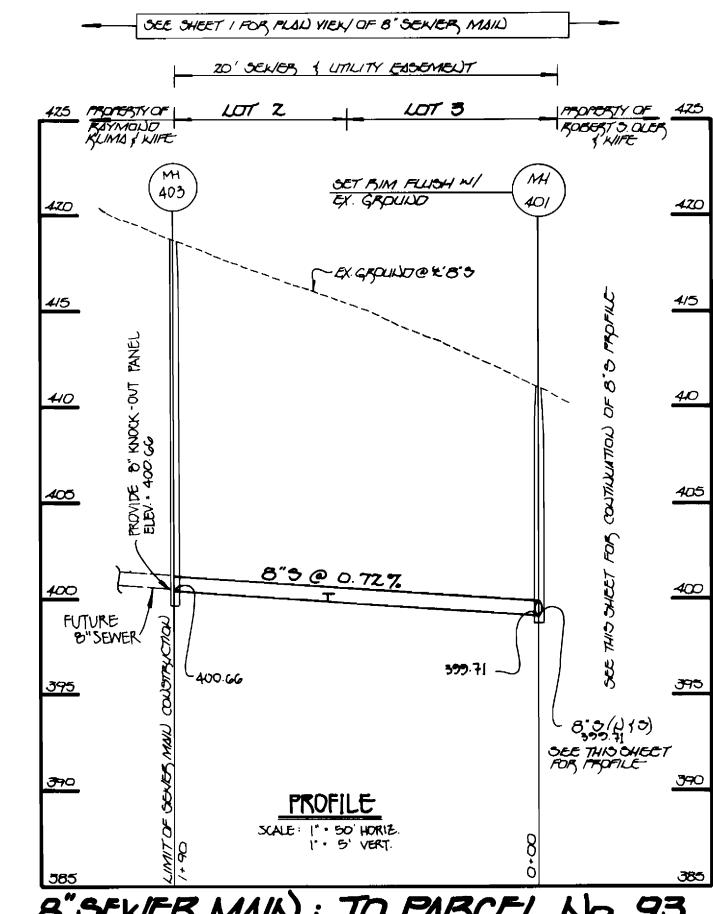
STRAW BALE DIKE

- I. BALED SHALL BE PLACED AT THE TOE OF A SLOTTE OF, ON THE CONTOURS of IN A ROW W/ EURO TIGHTLY ABUTTING THE ARVINCENT BALED.
- Z. EACH BALE SHALL BE EMBEDIOED IN THE SOIL A MILIMUM OF 4 IUCHES. } PLACED SO THE BINDINGS ARE HORIZONTAL.
- 3. BALES SHALL BE SECURELY AUCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVELI THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOKIARD THE PREVIOUSLY LAID BALE ATALI ALIGLE TO FORCE THE BALES TOGETHER, STAKES SHALL BE DRIVEN FLUCH WITH THE BALE.
- 4. INSPECTION SHALL BE FREQUENT & MEMIN OR METACEMENT SHALL BE MADE MOMETLY
- 5. BALET THALL BE FEMOVED KHELI THEY HAVE SERVED THEIR LISEFULLIEST SO AT HOT TO BLOCK OR IMPEDE STORM FLOW OR DRAILIGE.

NOTE: THE PROFILE OF THE 4" WATER MAIN) SHOWN IN PLANON SHEET I OF THIS CONTRACT IS INCLUSED ON SHEET 3 of 3; CONT. NO. 34-337G-D. THE 4" WATER MAIN & THE ASSOCIATED WATER HOUSE CONNECTIONS WERE INSTALLED AS MATOFCONT. Nb. 34-3576-10.

SEE SHEET I FOR PLAN VIEW OF 8" DEWLETS MAIN ZO' SEKIOTS & HARMEL DRIVE ZO' DEWERY { UTILITY EXCEMENT 20' SENER & UTILITY ENGEMENT CLARY 'S DISCOVERY IV PROPERTY OF: BURL W. BINKLEY PARCEL 90 LOT Z PLAT NO. 10354 CLARY'S DISCOVERY IV EX 50' B/K/ SCT MH RIM FLUSH MH W/ EX. GROUND 401 (5X.MI) CONT. No. 34-357G-D SET MH BIM FLLICH MH SET MY KIM FLUIDH (MH) W/ EX GROUND W/EX GROUND \402) EX CROUND@ £850 CH CROUNTE 410 EX GROUND @ £ 8"37 ~EX. GROUND@'&'8"S 8.5 0 0.72% 400 8°5@0.50% 4"5HC@MH) T CUMY'S DISCOVERY LOT4 401.90 EX.8"5@ 0.50% — 8"3 @ 0.50% B"5(W) 39271 SEE THIS SHEET POR PROFILE C-398.75 - 500.71 (LEV. 8"5/W) 396.90 COUT. No. 34-3376-D PROFILE REMOVE EX 8" MUG } . OCALE: HOPYE: 1" 50'

8-MAIN EXTENSION



8"SEKIER MAIN): TO PARCEL No. 93

CONTRACT NO. 34-3409-D CLARY'S DISCOVERY IV LOTS 1-4 WATER AND SEWER EXTENSIONS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

FISHER, COLLINS & CARTER, INC. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
SUITE 100, 9171 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21042
(410) 461 - 2855



| DES: | M.J.M. | | | | |
|---------------|-------------------|-----|-------------------------------------|--|-------------------------|
| DRWN: | J.M.M./ M.J.M. | | | | |
| CHK: | P.W.K. | FCC | <u>\$</u> | ADD NOTE REGARDING INSTALLATION OF 4" WATER & HOUSE MAIN CONNECTIONS | 4. 23. ₉₆ |
| DATE:02/20/95 | MTW | (1) | ADD SHC'S FOR FUTURE LOTS 'B' & 'D' | | |
| | r/20/95 | BY | NO. | REVISION | DATE |

SEWER MAINS PROFILES AND DETAILS

600' SCALE MAP NO. ____35____ BLOCK NO. ____17_

CLARY'S DISCOVERY IV LOTS | - 4

CONTRACT NO. 34 - 3409 - D FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SHOWN 2 of 2