

	HC 1	HVERT	TABULATIO	2H /2\
HOITATE		LOT	HIAME VHI	IHV.a.电
0+33 0+44 1+36 1+69	<i>,</i>	OLE 1 T 4-78 4-77 4-84 & A-85 4-86 & A-86	O MAH! IOLE 395.92 396.04 397.83 397.39	2 39G.12 39G.24 398,47 398 <i>0</i> 1
0+44 0+59 0+82 1+03 1+18 NH 4 MH 4 MH 4	, , , , , , , , , , , , , , , , , , ,	DLE 3 TO A-89 A-100 & A-101 A-90 & A-91 A-98 & A-99 A-92 A-93 & A-94 A-95 A-96 & A-97	D MAHHOLE 6 4r3.87 4c4.c2 4r4.25 4r4.46 4r4.61 4r4.73 4r4.73	1 404.79 474.52 474.47 404.96 474.83 405.79 405.35 475.81
0+15 0+51 0+80 0+95 1+24	, ,,	1 F. C. TO 1 - 88 2 - 769 4 - 768 4 - 767	0 1.1ANHO F 3 398.19 399.80 47113 401.82 403.15	398 55 401.73 402.42 403.75
EX. MA 0+60 0+80 1+04 1+24 1+48	,	6870 TO E A-83 A-82 A-81 A-80 A-79	X. MANHOLE 1 392.30 392.78 393.36 393.84 394.42	392.50 392.94 393.52 394.00 394.56
0+47 0+67 +0 +34 +54	# # #	DLE 1 TO E A-76 A-75 A-73 & A-74 A-72 A-71	X.MANHOLE 6: 396.69 397.17 397.99 398.79 399.27	871 396.81 397.29 398.19 398.95 399.39

75' A74 A75 114' Ω79 45 Ω80 61 Ω81 91 Ω82 112 Ω83 191 148 82 EXISTING POHD WATER LEVEL ELEV. = 402,091 FLOODPLAIN HOOK-UP TO _ EX.DUAL SHC PROP. F.H. STA. 1+89 = ABAHDOH W/ 0+25(5) BURY LINE ELEV. = 4.3.92 E STA. 2+09 6"VALUE 20+07(5) HELAINE HAMLET WAY & BIGHT > ω easement lihe EX.8"S H SHUT OFF INVERT-OUT (SE) OF MH WITH BRICK BULKHEAD MONTGOMERY

> PLAN SCALE : 1"=50"

VILLAGE OF LONG REACH, SECTION I AREA 9 A RESUBDIVISION OF LOTS A31 TO A66 HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS CONTRACT NO. 24-1275-D

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH ARTICLE 15 OF THESE SPECIFICATIONS AND ALSO AS SHOWN ON THE GRADING AND SEDIMENT CONTROL PLAN, F81-21C.

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

The Holin U.S. SOIL CONSERVATION SERVICE

DEPARTMENT OF PUBLIC WORKS

HOWARD COUNTY, MARYLAND a adult L CHIEF BUREAU OF ENGINEERING CHIEF, BUREAU OF UTILITIES 2 decide

CHIEF, LAND DEVELOPMENT DIVISION

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

HOWARD SOIL CONSERVATION DISTRICT

DATE

EVANS, HAGAN & HOLDEFER, INC. ENGINEERS, PLANNERS & SURVEYORS

8101 SANDY SPRING ROAD / SUITE 304 LAUREL, MD. 20707 (301) / 792-8086



PLAN

WATER AND SEWER MAINS

___ BLOCK NO. ____**__**

WATER AND SEWER EXTENSION HOWARD COUNTY, MARYLAND SCALE VILLAGE OF LONG REACH, SECTION I AREA 9

> A RESUBDIVISION OF LOTS A31 TO A66 CONTRACT NO. 24-1275-D SIXTH ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

WATER CODE EO4 SEWER CODE _5334900 TYPE OF BUILDING : TOWNHOUSE NUMBER OF LOTS: MH & SEWERLINE NO, OF WATER HOUSE CONN: F.H. 8 WATER LINE NO. OF SEWER HOUSE CONN: 35
DRAINAGE AREA: LITTLE PATUXENT GENERAL NOTES 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.

- ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
- ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATUM. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 6", CLEAR ALL POLES BY 2'-0" MINIMUM OR TUNNEL AS REQUIRED.
 ANY COST INCURRED TO THE CONTRACTOR FOR TUNNELING OR BRACING AT POLES SHALL BE INCLUDED IN UNIT PRICES BID FOR CONSTRUCTION OF THE MAIN.
- FOR DETAILS NOT SHOWN ON THE DRAWINGS, USE HOWARD COUNTY STANDARD DETAILS. FOR MATERIAL AND CONSTRUCTION METHODS, USE HOWARD COUNTY STANDARD SPECIFICATION.
- 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. CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS.
 - BALTIMORE GAS & ELECTRIC COMPANY UNDERGROUND GAS DISTRIBUTION
 - CUSTOMER SERVICE: 685-0123 BALTIMORE GAS & ELECTRIC COMPANY - UNDERGROUND ELECTRIC DISTRIBUTION
 - CUSTOMER SERVICE: 685-0123
 - ENGINEERING "DAMAGE CONTROL": 234-5621 "MISS UTILITY": 1-559-0100
 - CHESAPEAKE & POTOMAC TELEPHONE COMPANY: 725 9976
- BUREAU OF UTILITIES, HOWARD COUNTY: 992 2366 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. 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 OPERATION. 13. ALL SEWER MAINS SHALL BE C.S.P.X., P.V.C., V.C.P.X. OR A.C.P. CLASS 2400
- UNLESS OTHERWISE NOTED. CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALLS.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED. MANHOLES SHOWN WITH 12"AND 16" WALLS ARE BRICK MANHOLES ONLY.
- ALL WATER MAINS TO BE C.I.P. OR D.I.P. UNLESS OTHERWISE NOTED.
- TOP OF WATER MAINS TO HAVE A MINIMUM OF 3'-6" COVER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- 20. BLOCK ALL FITTINGS WITH CONCRETE. 21. BURY LINE ELEVATIONS ON FIRE HYDRANTS SHALL BE SET TO THE ELEVATION ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE STRAPPED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS, SOIL AROUND THE FIRE HYDRANT TO BE COMPACTED IN ACCORDANCE
- WITH SECTIONS 1003 AND 1008 OF STANDARD SPECIFICATIONS. 22. ALL WATER HOUSE CONNECTIONS SHALL BE FOR AN INSIDE METER SETTING.
- 23. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING SYSTEM,
- 24. WATER MAINS AND WATER HOUSE CONNECTION LINES MUST BE PLACED SO AS TO HAVE AT LEAST ONE (1) FOOT SEPARATION FROM THE SEWER MAIN OR SEWER HOUSE CONNECTION AS THEY PASS ABOVE IT.
- 25. MANHOLES LOCATED WITHIN PROPOSED ROADWAY SHALL HAVE STANDARD HEAVY TRAFFIC MANHOLE FRAME AND COVER STANDARD DETAIL G5.51.
- 26. MANHOLES DESIGNATED WATERTIGHT 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 I'-6"ABOVE FINISHED GRADE.
- 27. FOR ALL COPPER WATER HOUSE CONNECTIONS UTILIZE FLARED TYPE FITTINGS ONLY.

28. STANDARD PAYMENT DEPTH FOR SANITARY MANHOLES = 8'-0".

CONTRACT NO. 24-1275-D SECTION ! AREA 9

AS

SHOWN

SHEET

__OF_2_

D=Buil+ " May 3, 1985 049-06-12

