LOT 179 103' TO MH 225

LOT 180 35' TO HH 226

LET 183 63' TO MY 224

LOT 181 56 TO SHE LOT 170

54' TO MH 226

57' TO SHE LOT IT!

75' TO MH 227

BI' TO S.D. INCET LOT 183/184

THIS DEVELOPMENT IS APPROVED FOR

EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

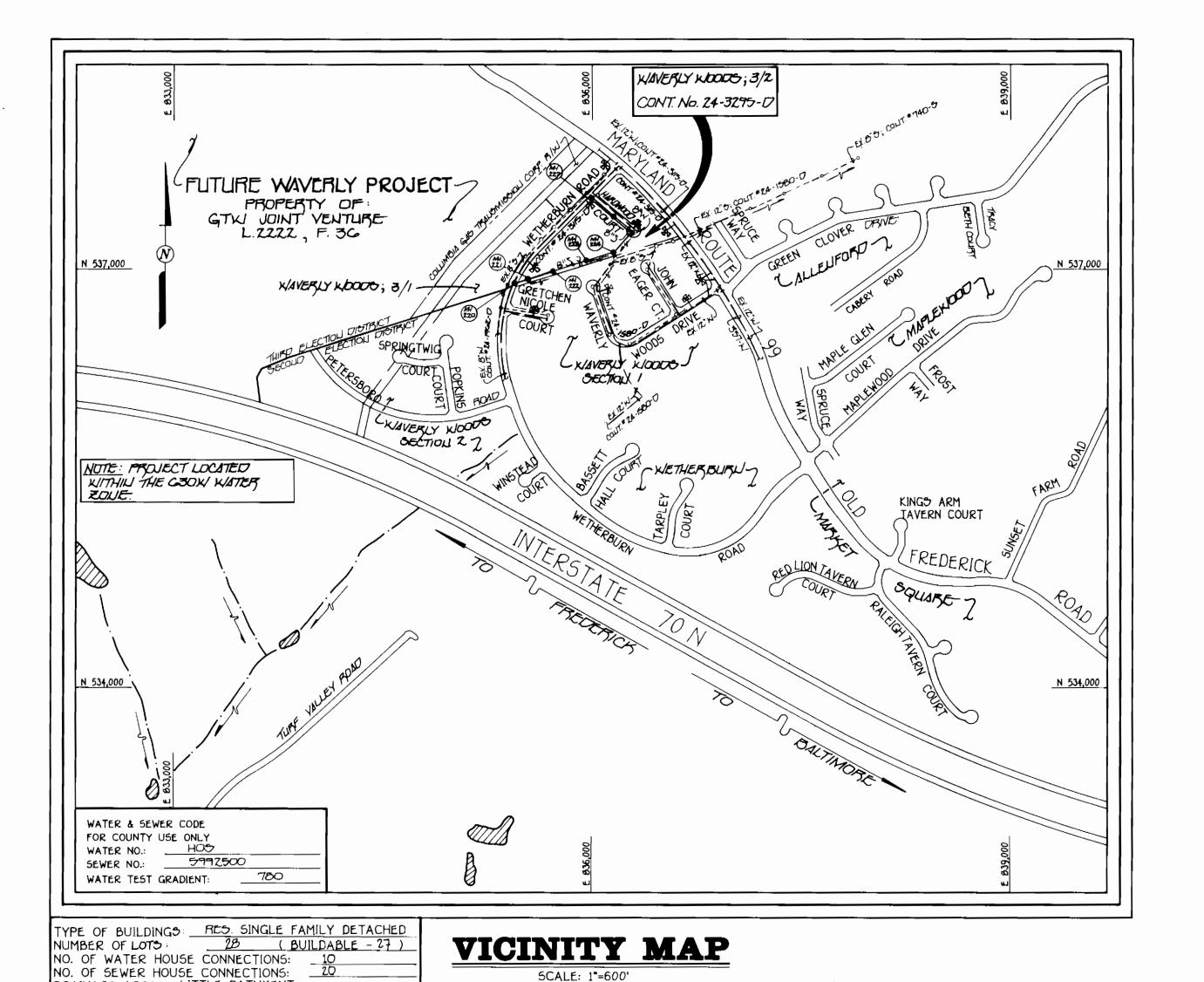
AND SEDIMENT CONTROL PLAN F 95 - 27

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

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT

		QUANTIT	IED	
ITEM	ESTIMATED	A5-BUILT		
		QUANTITIES	TYPE	SUPPLIER
B" WATER	325 L.F.	325 L.F.	CL. 52 DIP	ATLANTIC STATES
6" WATER	40 L.F.	42 L.F.	CL. 52 DIP	ATLANTIC STATES
1" WHC	337 L.F.	388 L.F.	TYPE "K" SOFT	CAMBRIDGE - LEE
1-1/2" WHC	72 L.F.	94 L.F.	TYPE "K" SOFT	CAMBRIDGE - LEE
RELOCATED 1" WHC	33 L.F	24.5 L.F.	TYPE "K" SOFT	CAMBRIDGE - LEE
FIRE HYDRAUTS	I EACH	1 EA	B84B	AMER. FLOW CONT
4" SEWER	6 <b>G</b> 7 L.F.	732 LF	SDR-35 / PVC	J-H MANUF.
8" SEWER	1,275 L.F.	1,237 LF	SDR-35/ PVC	J-M MANUF.
MANHOLES	8 EACH	8 EA	CONC. PRECAST	ATLANTIC

	SHC 's	LOCATIONS
LOT 170	102' TO MI 227 97' TO MI 226	LOT 184 96' TO S.D. INLET (LOT 183/184) 12' TO MH 223
LOT 171	30' TO MY 226 57' TO SHC NOT 180	LOT 185 88'TO H1 223 80' TO SHC LOT 186
LOT 172	46' TO FIRE HYDRANT 67' TO MH 225	LOT 186 80' TO SHC LOT 185 89' TO S.D. INLET (LOT 187)
LOT 173	14' TO FIRE HYDRANT 39' TO S.D. MI	LOT 187 41' TO S.D. INCET (REAR OF LDT) 28' TO MH 222
LOT 174	53' TO HI 225 53' TO FIRE HYDRANT	LOT 188 91' TO MY 222 69' TO SHC LOT 189
10T 175	69' TO FIRE HODRANT	LOT 189 64' TO HH 221 69' TO SHC LOT 188
LOT 176	37' TO MH 225 23' TO S.E. CORNER INCET	
LOT 177	91' TO S.D. MH (REAR OF LOT) 74' TO MH 224	
LOT 178	107' TO S.D. MH (LOT 177) 84' TO MH 224	



## **CONTRACT No.** 24-3295-D WAVERLY WOODS

SECTION AREA

## WATER AND SEWER MAIN EXTENSIONS HOWARD COUNTY, MARYLAND

LOT 172 44' TO MH 226 17' TO MY 226 39' TO FH VALYE T' TO SHC LOT 180 LOT 173 79' TO S.D. MH 20' TO MH 226 22' TO FIRE HYD. 7' TO SHC LOT 179 LOT 174 50' TO FIRE HYD. 56' TO MH 225 LOT 175 75 TO FIRE HYD 38' TO MH 225' LOT 176 79' TO FIRE HYD. 36' TO MH 225

> LOT 177 IG' TO S.W. CORNER S.D. INCET 22' TO HH 225

**GENERAL NOTES:** 

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

HAVE A COPY OF VOLUME IV ON THE JOB SITE.

BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

NOTED ON THE PLANS OR IN THE SPECIFICATIONS.

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

PROVIDED FOR ON THE DRAWINGS.

12-INCH FOR WATER AND OTHER LIQUIDS.

MAIN OR SEWER HOUSE CONNECTION AS THEY PASS ABOUT IT.

21. ALL WATER MAINS SHALL BE D.I.P., CLASS 52 UNLESS OTHERWISE NOTED.

SHOWN ON THESE PLANS:

13. T.B. DENOTES TEST BORING.

STANDARD DETAIL G5.51.

4. ALL PIPE ELEVATIONS ARE INVERT ELEVATIONS.

TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

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

2. ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.

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

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

WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL 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

8. CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK

9. TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE

15. MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL G 5.52.

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 AND COVERS,

16. WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1'- 6" ABOVE FINISHED GRADE UNLESS OTHERWISE

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

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

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

26. THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, ● (410) 313-2450 AT LEAST FIVE WORKING DAYS BEFORE

29. SINCE THE PROJECT IO WITHIN THE COOK! WATER EQUE & THE PROPOSED WATER MAIN INVEST ELEVATIONS ARE GENERALLY EQUAL TO OR GREATER THAN ELEV. 492, THE CONTRACTOR CHAIL UTILIZE I - INCH KATER HOUSE CONNECTIONS FOR SINGLE

DERVICED AND 11/2 - INCH KATER HOUSE CONNECTIONS FOR TRAIN GERVICES; REFERENCE STO. DET. X13.23.

WHC'S LOCATIONS

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

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. SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN

10. CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG THE LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE

MISS UTILITY - 1-800-257-7777 COLONIAL PIPELINE CO. - 795-1390

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.

CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR

INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.

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

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

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

22. TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3-1/2' COVER UNLESS OTHERWISE NOTED.

2G. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.

LOT 171 41' TO MH 226

ACCORDANCE WITH SECTION 1000 AND 1005 OF THE STANDARD SPECIFICATIONS.

STATE HIGHWAY ADMINISTRATION - 531-5533

BALTIMORE GAS & ELECTRIC CO.. - CONTRACTOR SERVICES - 850-4620

BALTIMORE GAS & ELECTRIC CO.. - UNDER GROUND DAMAGE CONTROL - 787-9068

BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS - 313-4900

DEPARTMENT OF PUBLIC WORKS

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 - 2<del>0</del>55



DRAINAGE AREA: <u>LITTLE PATUXENT</u>

TREATMENT PLANT: PATAPSCO WASTEWATER TREATMEN

PLANT VIA THE ROUTE 100 PUMPING STATION

DES: M.J.M. DRWN: M.S.V. CHK: P.W.K. DATE: REVISION BY NO.

TITLE SHEET

600' SCALE MAP NO. 16 & 17 BLOCK NO. TMIG: G (12; TM 17:1

WAVERLY WOODS 3" ELECTION DISTRICT HOWARD COUNTY, MARYLAND

HOWARD COUNTY, MARYLAND **SHOWN** 

30458W5LDWG

PLAN REFERENCE NUMBERS:

P94-04

F95-27

1 OF <u>3</u>

CONTRACT NO. 24-3295-D

WATER AND SEWER EXTENSIONS

WAVERLY WOODS

SECTION 3, AREA 2

LOT 178 58' TO MY 225

99' TO MH 226

