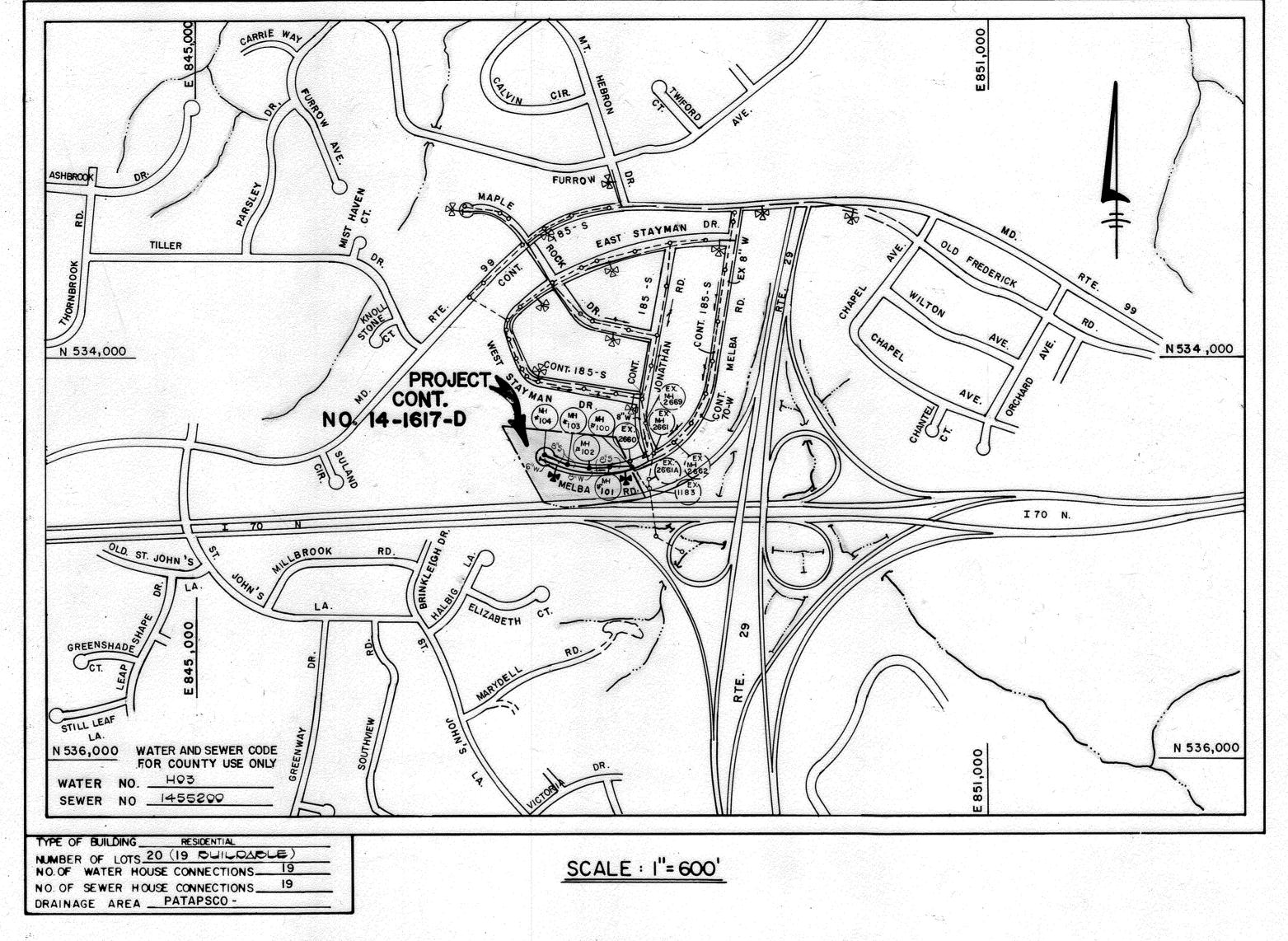
| QUANTITIES | | | | |
|-------------|--|------|--|--------------------------|
| ITEM | EST D | | AS-BUILT | SUPPLIER |
| 8"SEWER | 690 | L.F. | 579 LF. | J.M. MANUFACTURING COPP. |
| 6" SEWER | 500 | L.F. | 508 L.F | 11 0 |
| MANHOLES | 5 | E.A. | 5 <i>E</i> A. | MHANTIC CORP Prod |
| 8"WATER | 703 | L.F | 708 L.F. | CAST IFON PIPE |
| 6" WATER | 155 | L.F. | 147.5 LF | 11. 10. 10. 11. 17 |
| FIRE HYD. | 2 | EA. | 2 EA | muller Co |
| 3/4" WHC. | 175 | L.F. | 214 LF. | Howell Metals |
| ı" whc. | 185 | L.F. | 152 L.F | n H |
| 8%6"REDUCER | l. | EA. | 169 | Griffin Pipe Prod. |
| 8 VALVE | al de la compania de Compania de la compania de la compa | EA. | en e | muller Co. |



CONTRACT NO. 14-1671-D ORCHARD VIEW

WATER AND SEWER MAIN EXTENSIONS HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL AND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS AND ALSO AS SHOWN ON THE GRADING AND SEDIMENT CONTROL PLAN F 88-235

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

US SOIL CONSERVATION SERVICE

THIS DEVEL OPMENT PLAN IS APPROVED FOR

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

APPROVE

Styphn L- John 9/21/88
HOWARD SOIL CONSERVATION DISTRICT BATE

PLAN REFERENCE NUMBERS
P 87-72
F 88-235

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS

DATE

Pole IN Berry 9-23-88

CHIEF, LAND DEVELOPMENT DIVISION

9-27-88

OHIEF, BUREAU OF ENGINEERING DATE

9/27/88

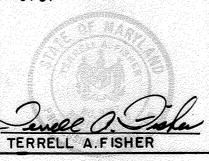
CHIEF, LAND DEVELOPMENT DIVISION DATE

FISHER, COLLINS AND CARTER, INC.

CONSULTING ENGINEERS AND LAND SURVEYORS

8388 COURT AVENUE

ELLICOTT CITY, MARYLAND 21043



DES: T. A. F.

DRN: S. B.

CHK: P. W. K.

DATE: 4/20/88 BY NO REVISION

TITLE SHEET

DATE 600'SCALE MAP NO 17 BLOCK NO. 16 8 17

GENERAL NOTES

- 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 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".
- 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. THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV 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 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

DALTIMORE GAS & ELECTRIC CO.-CONTRACTOR SERVICES. 650 - 4020

BALTIMORE GAS & ELECTRIC CO. UNDERGROUND DAMAGE CONTROL: 859-9004

BALTIMORE GAS & ELECTRIC CO. TROUBLE SHOOTING: 298-9001
MISS UTILITY: 1-559-0100
COLONIAL PIPELINE COMPANY: 795-1390
BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS 992-2366
C&P. TELEPHONE COMPANY: 1-800-257-7777

- 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 LINE OF EXCAVATION. 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 DRAWINGS. ALL FIRE HYDRANTS SHALL BE STRAPPED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS. SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1003 AND 1008 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 SPECFICATIONS. (STD. DETAIL W.3.21).
- 18. 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 ABOUT IT.
- 19. MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATER-TIGHT 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 DRAWINGS.
- 20. ALL SEWER MAINS SHALL BE C.S.P.X., R.C.S.P., V.C.P.X., A.C.P. CLASS 2400 OR 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 G5.51.

 25. ALL D.I.R FITTINGS SHALL BE IN ACCORDANCE WITH AWWA

 SPECIFICATION C-153: DUCTILE IRON COMPACT FITTINGS,

CONTRACT NO. 14-1671-D
ORCHARD VIEW
WATER AND SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

ORCHARD VIEW

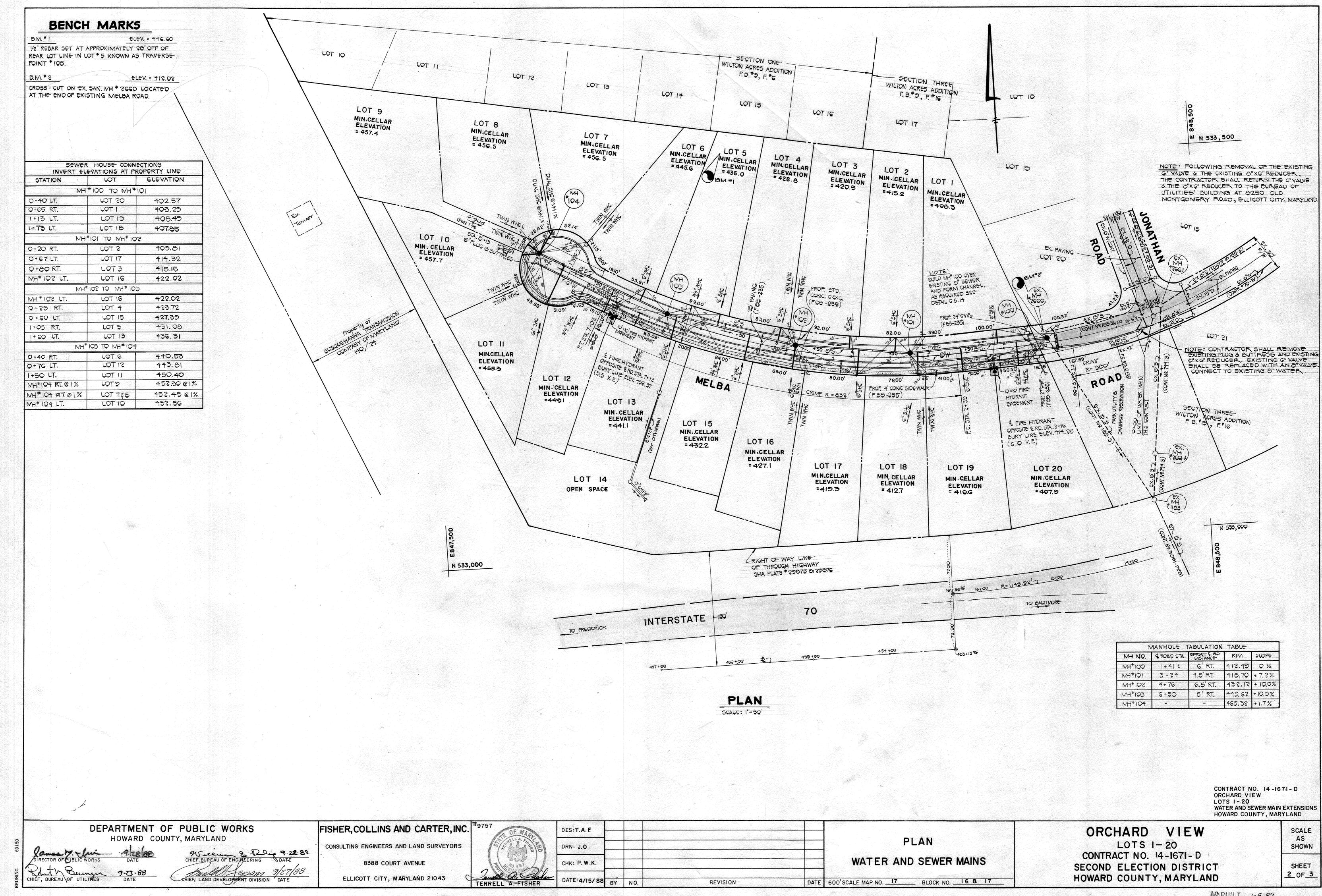
CONTRACT NO. 14-1671-D
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HOWARD COUNTY, MARYLAND

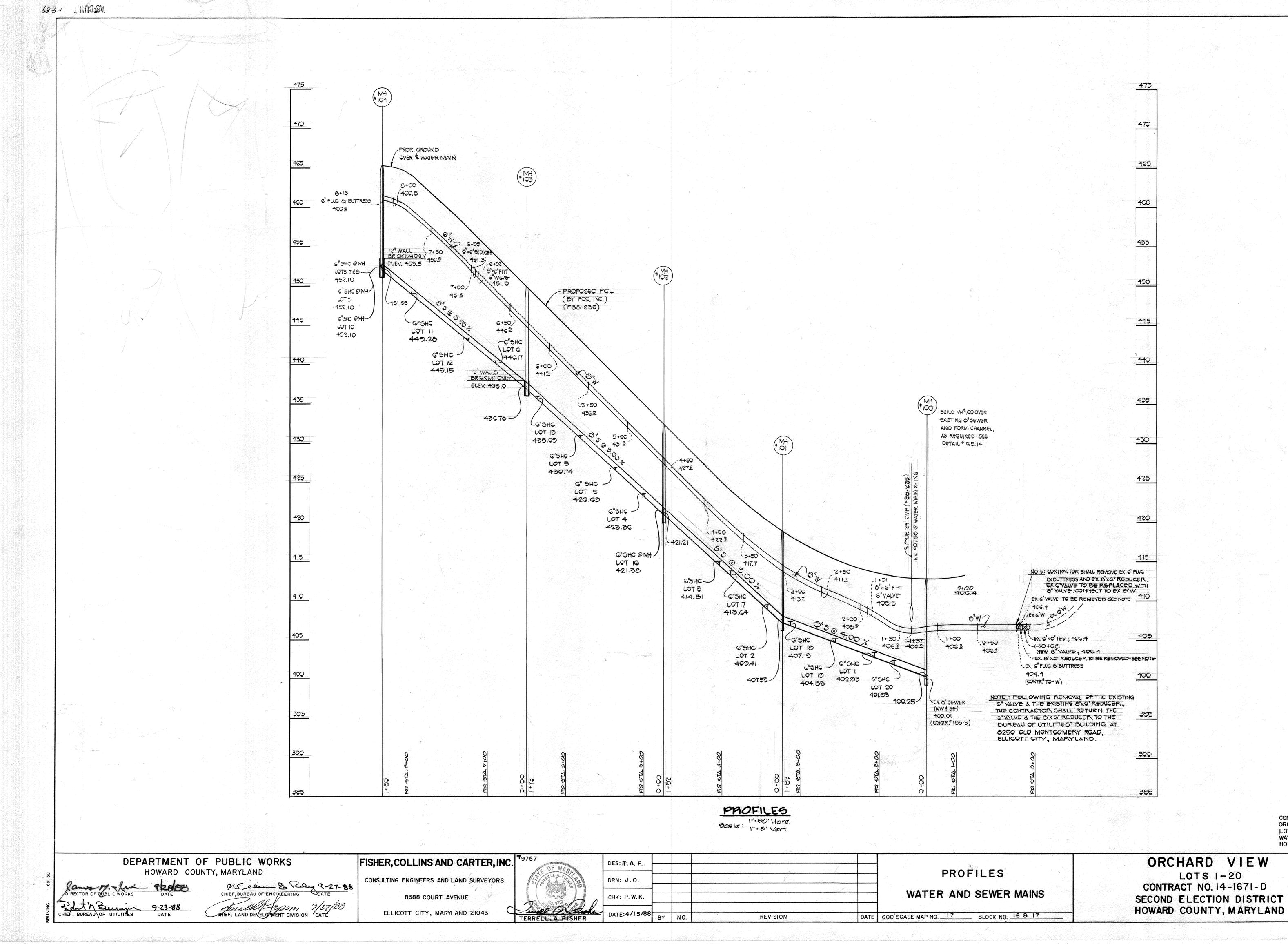
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1 OF 3





CONTRACT NO.14-1671-D
ORCHARD VIEW
LOTS 1-20
WATER AND SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

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SHEET <u>3</u> OF <u>3</u>