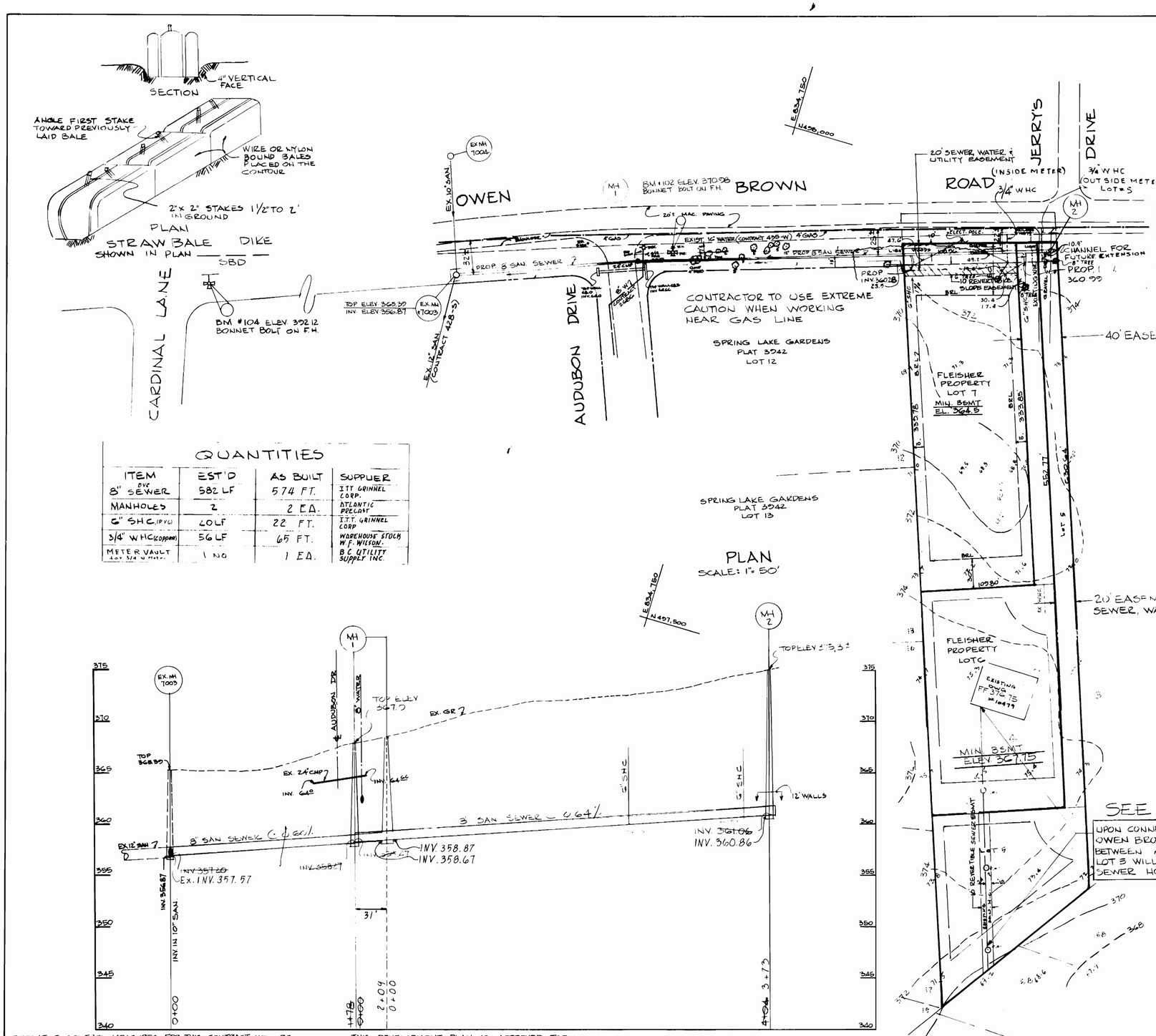
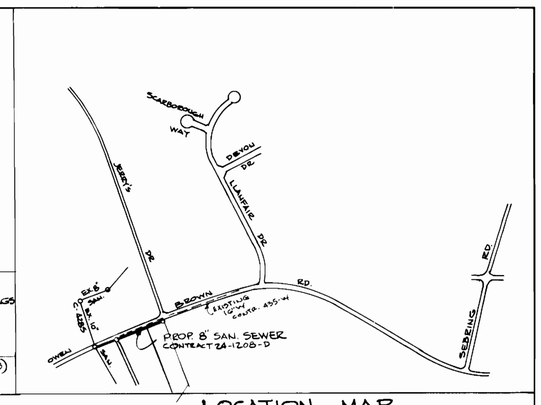


NUMBER OF UNITS 3
TYPE OF BUILDINGS - SINGLE FAMILY DWLGS
NUMBER OF WATER HOUSE CONNECTIONS 2
NUMBER OF SEWER HOUSE CONNECTIONS 2
DRAINAGE AREA - SAVAGE
SEWER CODE 5324500, (5324600 FOR LOT 5)
WATER CODE E-30



LOCATION MAP
SCALE: 1" = 600'

QUANTITIES

ITEM	EST'D	AS BUILT	SUPPLIER
8" DIA. SEWER	582 LF	574 FT.	ITT GRINNEL CORP.
MANHOLES	2	2 EA.	ATLANTIC PRECAST
6" SHC (PVC)	40 LF	22 FT.	I.T.T. GRINNEL CORP
3/4" W HC (COPPER)	56 LF	65 FT.	WAREHOUSE STOCK W.F. WILSON
METER VAULT FOR 3/4" W METER	1 NO	1 EA.	B.C. UTILITY SUPPLY INC.

GENERAL NOTES

1. ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
2. ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATUM.
3. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
4. 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.
5. FOR DETAILS NOT SHOWN ON THE DRAWINGS USE HOWARD COUNTY STANDARD DETAILS.
6. FOR MATERIAL AND CONSTRUCTION METHODS USE HOWARD COUNTY STANDARD SPECIFICATIONS.
7. 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.
8. CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
   BALTIMORE GAS & ELECTRIC CO. - UNDERGROUND GAS DISTRIBUTION
   CUSTOMER SERVICE: 685-0123
   BALTIMORE GAS & ELECTRIC CO. - UNDERGROUND ELECTRIC DISTRIBUTION
   CUSTOMER SERVICE: 685-0123
   ENGINEERING "DAMAGE CONTROL" 234-5621
   "MISS UTILITY": 1-550-0100
   CHESAPEAKE & POTOMAC TELEPHONE COMPANY: 725-5976
   BUREAU OF UTILITIES OF HOWARD COUNTY: 992-2366 - COLONIAL PIPELINE CO. 781-6641
9. 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.
10. 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.
11. PLACE REGULATION "MEN WORKING" AND WORKING SIGNS AS REQUIRED TO COMPLY WITH MARYLAND STATE HIGHWAY ADMINISTRATION MANUAL OF TRAFFIC CONTROL FOR HIGHWAY CONSTRUCTION AND MAINTENANCE OPERATIONS.
12. ALL SEWER MAINS SHALL BE C.S.P.X., R.C.S.P., P.V.C., V.C.P.X., OR A.C.P. CLASS 2400 UNLESS OTHERWISE NOTED.
13. CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALLS.
14. ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER, UNLESS OTHERWISE NOTED.
15. MANHOLES SHOWN WITH 12" AND 16" WALLS ARE BRICK MANHOLES ONLY.
16. MANHOLES LOCATED WITHIN PROPOSED ROADWAY SHALL HAVE STANDARD HEAVY TRAFFIC MANHOLE FRAME AND COVER, STANDARD DETAIL G 5.51.
17. MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL G 5.52. WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE.
18. EXISTING SANITARY SEWER HOUSE CONNECTION TO LOT 6 TO BE DISCONNECTED & USED FOR LOT 5. LOT 6 TO HAVE NEW CONNECTION TO OWEN BROWN ROAD.
19. 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.
20. ALL WATER MAINS TO BE C.I.P. OR D.I.P. UNLESS OTHERWISE NOTED.
21. TOP OF WATER MAINS TO HAVE A MINIMUM OF 3'-6" COVER UNLESS OTHERWISE NOTED.
22. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
23. BLOCK ALL FITTINGS WITH CONCRETE.
24. BURY LINE ELEVATIONS ON FIRE HYDRANTS SHALL BE SET TO THE 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 TO BE COMPACTED IN ACCORDANCE WITH SECTIONS ~~37.07~~ 1003 AND ~~37.08~~ 1008 OF THE STANDARD SPECIFICATIONS.
25. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING SYSTEM.
26. 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 THE PASS ABOUT IT.
27. FOR ALL COPPER WATER HOUSE CONNECTIONS, UTILIZE FLARED TYPE FITTINGS ONLY.

PROFILE
SCALE: HOR. 1" = 50' VERT. 1" = 5'

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH ARTICLE 15 OF THESE SPECIFICATIONS. REVIEW FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

U.S. SOIL CONSERVATION SERVICE — DATE 5-8-84

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

HOWARD SOIL CONSERVATION DISTRICT — DATE 5-8-84

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS — DATE 5-10-84
CHIEF, BUREAU OF ENGINEERING — DATE 5/7/84
CHIEF, BUREAU OF UTILITIES — DATE 5-9-84
CHIEF, LAND DEVELOPMENT DIVISION — DATE 5-7-84

ENGINEER:
HUDKINS ASSOCIATES INC
SUITE 101 SHELL BUILDING
200 E. JOPPA ROAD
TOWSON MARYLAND 21204

STATE OF MARYLAND — ARTHUR E. LEONARD — NO. 11428 — REGISTERED PROFESSIONAL ENGINEER
ARTHUR E. LEONARD — DATE 3/28/84

DES: E.J.M.
DRN: E.J.M.
CHK: W.P.
DATE: 11-12-83

BY	NO.	REVISION	DATE

PLAN & PROFILE OF 8" SAN. SEWER EXTENSION

600' SCALE MAP NO. 25 BLOCK NO.

EDWIN BASSLER SOUTH SECTION
FLEISHER PROPERTY LOTS 5 THRU 7
CONTRACT 24-1208D
5TH ELECTION DIST.
HOWARD COUNTY MARYLAND
APRIL 25, 1984

SCALE AS SHOWN

SHEET 1 OF 1

Arthur E. Leonard 1984

AS-BUILT NOVEMBER 13, 1984