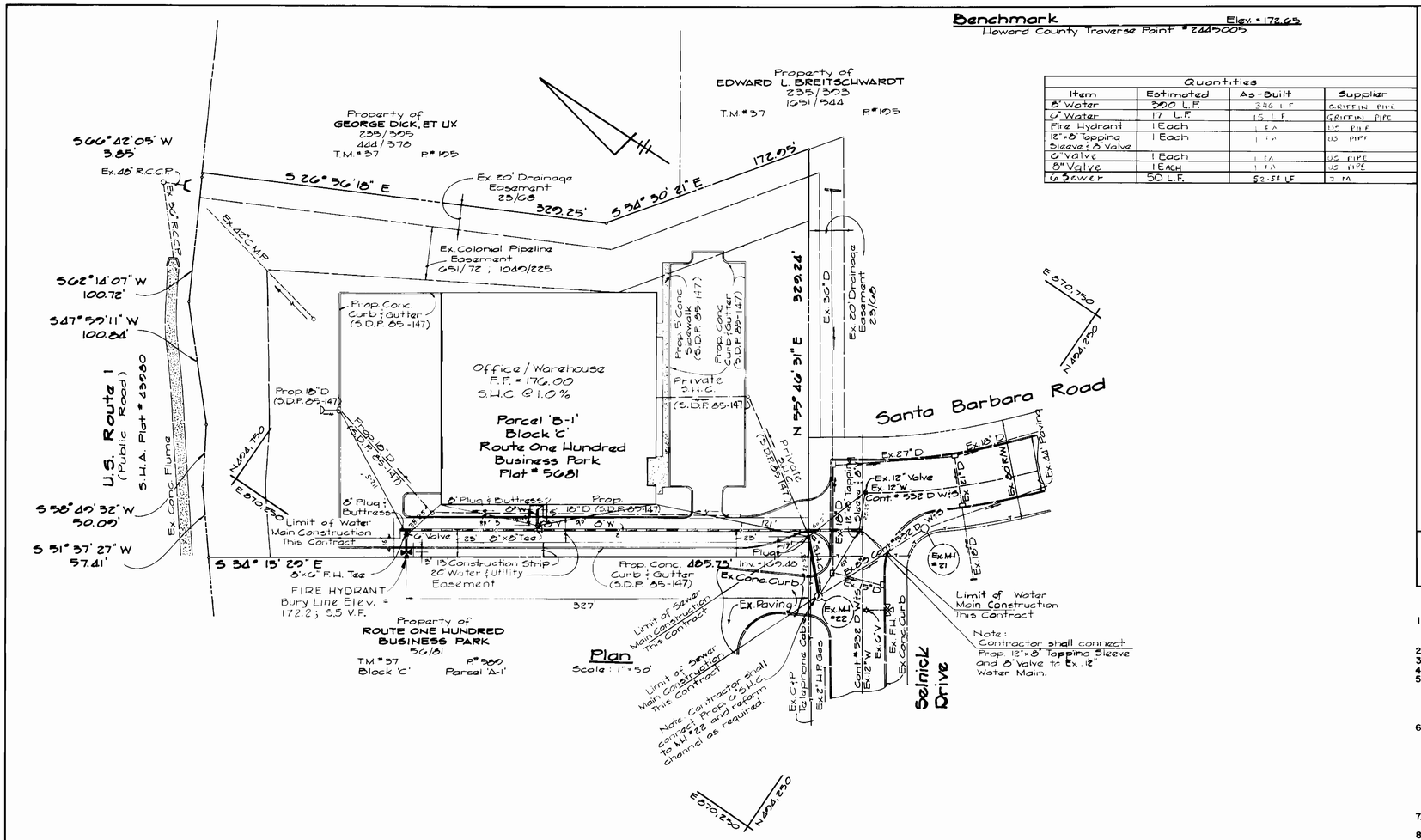
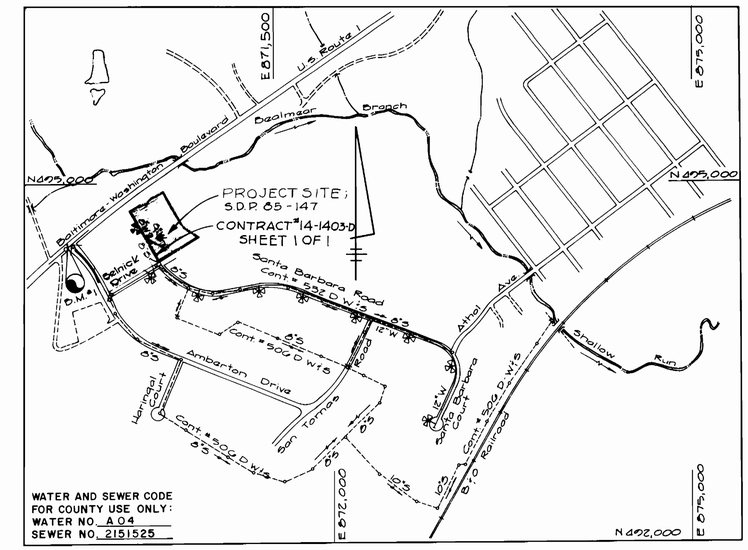
Benchmark Elev. = 172.63
Howard County Traverse Point # 2445005.



Plan
Scale: 1" = 50'

Quantities			
Item	Estimated	As-Built	Supplier
8" Water	390 L.F.	346 L.F.	GRIFFIN PIPE
6" Water	17 L.F.	15 L.F.	GRIFFIN PIPE
Fire Hydrant	1 Each	1 EA	US PIPE
12"x8" Tapping Sleeve & 8" Valve	1 Each	1 EA	US PIPE
6" Valve	1 Each	1 EA	US PIPE
8" Valve	1 EACH	1 EA	US PIPE
6" Sewer	50 L.F.	52.58 LF	N/A



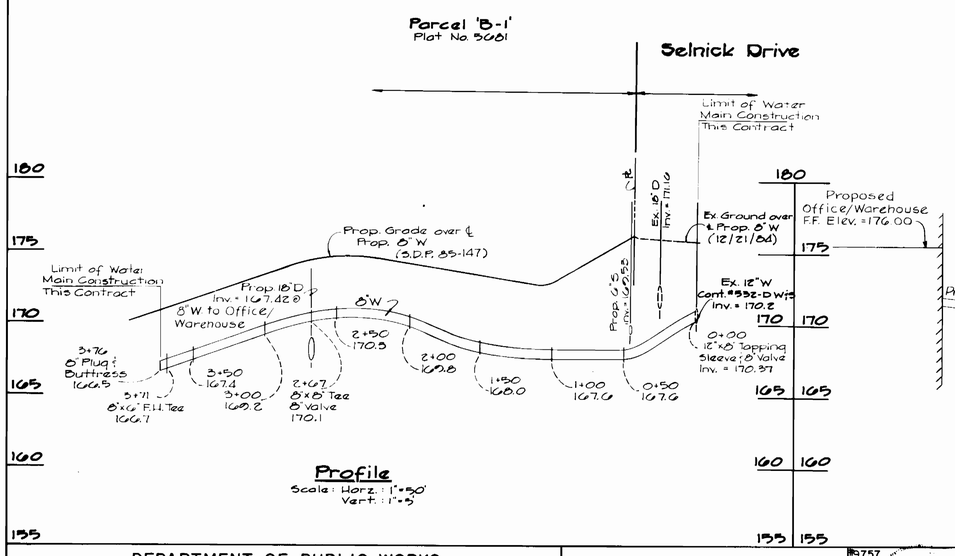
WATER AND SEWER CODE
FOR COUNTY USE ONLY:
WATER NO. A04
SEWER NO. 2151525

TYPE OF BUILDINGS: COMMERCIAL
NUMBER OF LOTS 1
NO. OF WATER HOUSE CONNECTIONS 1
NO. OF SEWER HOUSE CONNECTIONS 1
DRAINAGE AREA PATAPSCO

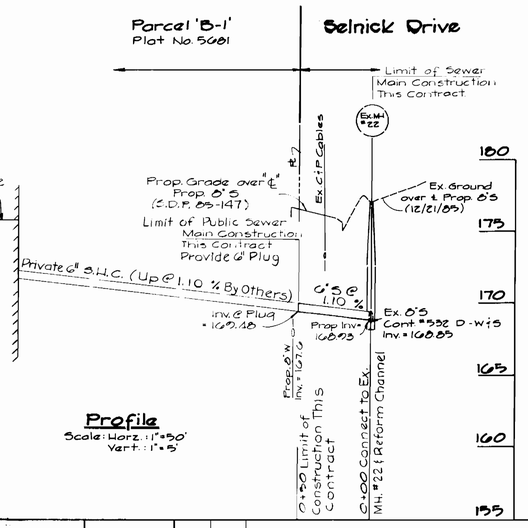
VICINITY MAP
SCALE: 1" = 600'

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'. CLEAR ALL POLES BY 2'-0" MINIMUM OR TUNNEL AS REQUIRED. THE OWNER HAS CONTACTED THE UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON THE DRAWINGS. IN THE EVENT THE CONTRACTOR'S WORK REQUIRES THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR THE BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONEY OWED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
6. 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 - CONTRACTOR SERVICES 850-4620
   BALTIMORE GAS & ELECTRIC COMPANY - UNDER GROUND DAMAGE CONTROL 859-9004
   BALTIMORE GAS & ELECTRIC COMPANY - TROUBLE SHOOTING 298-9001
   "MISS UTILITY" 1-559-0100
   CHESAPEAKE & POTOMAC TELEPHONE COMPANY 1-800-257-7777
   BUREAU OF UTILITIES - HOWARD COUNTY 992-2366
7. 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.
8. 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.
9. 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 OPERATIONS.
10. 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.
11. CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALLS.
12. ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER, UNLESS OTHERWISE NOTED.
13. MANHOLES SHOWN WITH 12" AND 16" WALLS ARE BRICK MANHOLES ONLY.
14. ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
15. TOP OF WATER MAINS TO HAVE A MINIMUM OF 3'-6" COVER UNLESS OTHERWISE NOTED.
16. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
17. 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 SECTION 1003 AND 1008 OF THE STANDARD SPECIFICATIONS.
18. ALL WATER HOUSE CONNECTIONS SHALL BE FOR AN INSIDE METER SETTING.
19. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING SYSTEM.
20. 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.
21. MANHOLES LOCATED WITHIN PROPOSED ROADWAY SHALL HAVE STANDARD HEAVY TRAFFIC MANHOLE FRAME AND COVER, STD. DETAIL G 5.51.
22. 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 UNLESS OTHERWISE NOTED ON THE DRAWINGS.
23. FOR ALL COPPER WATER HOUSE CONNECTIONS, UTILIZE FLARED TYPE FITTINGS ONLY.
24. 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.
25. 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 LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATION AT HIS OWN EXPENSE.
26. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS PROVIDED FOR ON THE DRAWINGS.



Profile
Scale: Horz. 1" = 50'
Vert. 1" = 5'



Profile
Scale: Horz. 1" = 50'
Vert. 1" = 5'

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 SDP 85-147

Reviewed for Howard Soil Conservation District and meets Technical Requirements.

U.S. Soil Conservation District — Date 3-27-87

This Development Plan is approved for erosion and sediment control by Howard Soil Conservation District.
Approved:
Howard Soil Conservation District — Date 3/27/87

REFERENCE NUMBER:
S.D.P. 85-147

CONTRACT NO. 14-1403-D
ROUTE ONE HUNDRED BUSINESS PARK; PARCEL 'B-1'
WATER AND SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS — DATE
CHIEF, BUREAU OF ENGINEERING — DATE 4-3-87
CHIEF, BUREAU OF UTILITIES — DATE 4-3-87
CHIEF, LAND DEVELOPMENT — DATE

FISHER, COLLINS AND CARTER, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
8388 COURT AVENUE
ELLICOTT CITY, MARYLAND 21043

#9757
TERRELL A. FISHER — DATE

DES: D.E.V.
DRN: D.E.V.
CHK: T.A.F.
DATE: 4/2/85

BY	NO.	REVISION	DATE

PLAN & PROFILES
WATER AND SEWER MAINS

600' SCALE MAP NO. 37 BLOCK NO.

PARCEL 'B-1' (BLOCK 'C')
ROUTE ONE HUNDRED BUSINESS PARK
WATER AND SEWER MAIN EXTENSIONS
CONTRACT NO. 14-1403-D
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN

SHEET 1 OF 1

9/4/87 AS BUILT

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