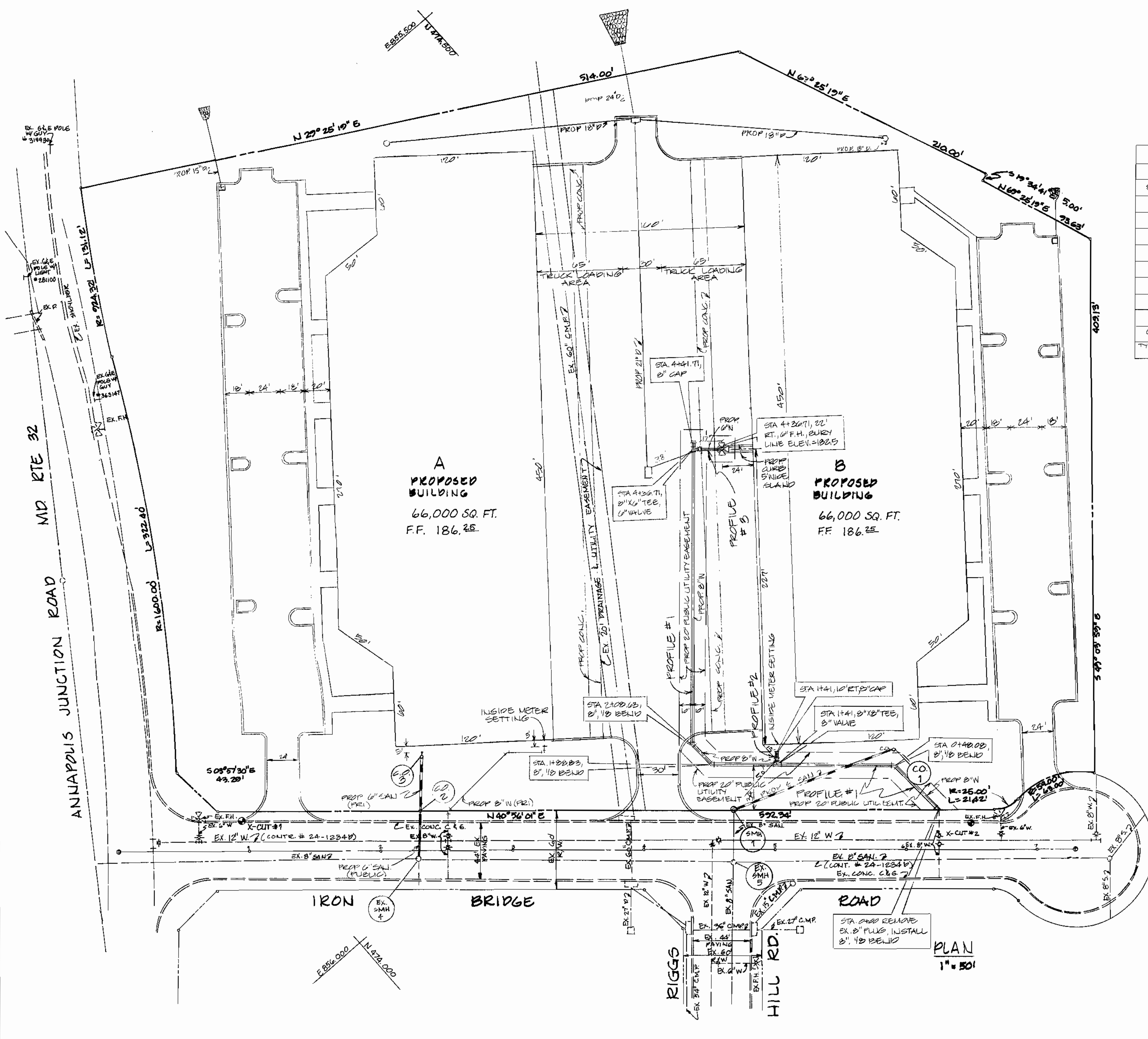
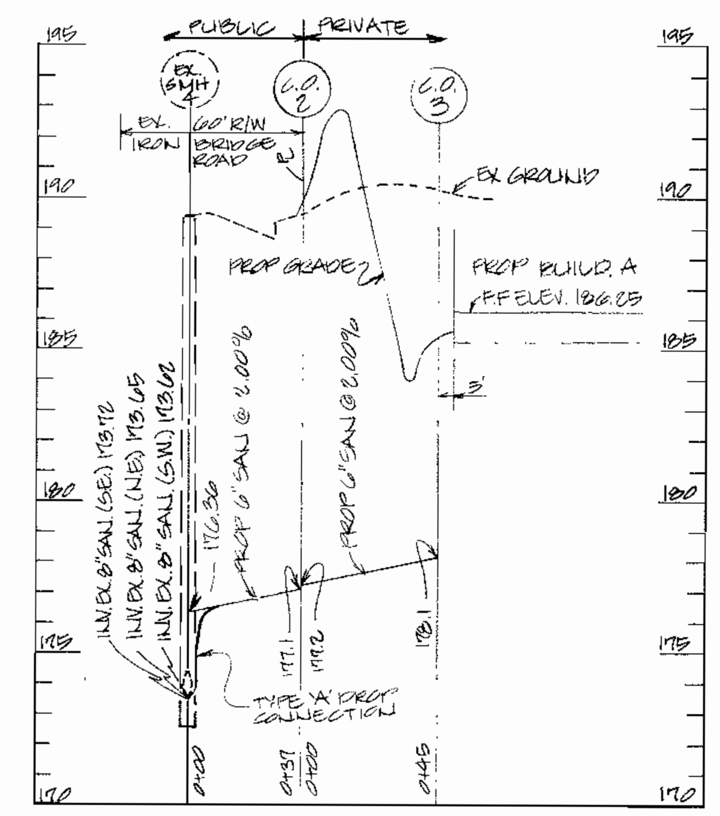


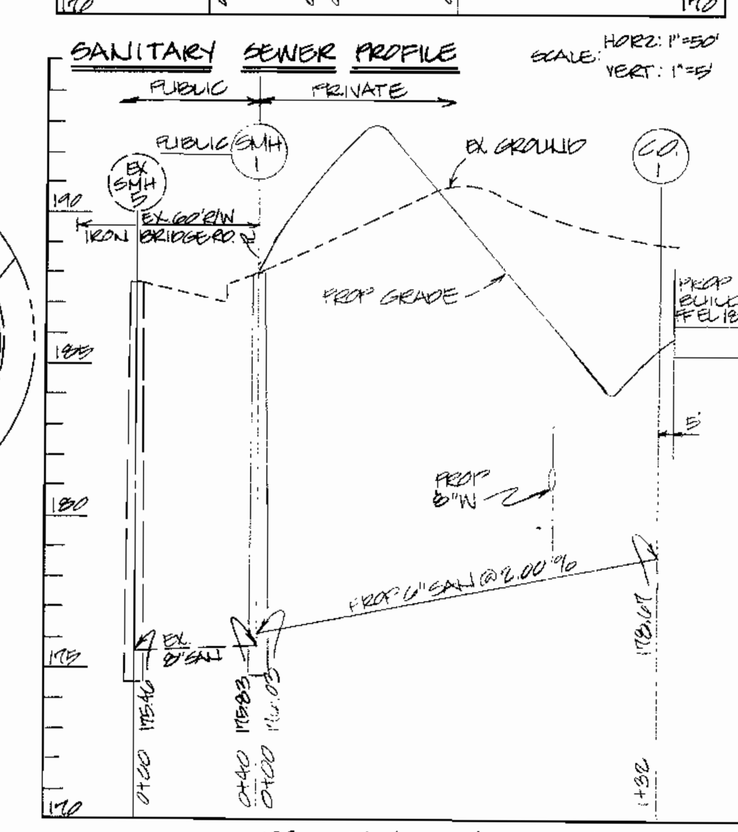
QUANTITIES

ITEM	ESTIMATED	AS-BUILT	MATERIAL / SUPPLIER
8", 1/8 HORZ. BEND	4	4	A & P WATER & SEWER INC. ATLANTIC STATES CAST IRON
8" X 8" TEE	1	1	A & P WATER AND SEWER UNION FOUNDRY
8" X 6" TEE	1	1	" "
8" VALVE	1	1	A & P WATER AND SEWER MUELLER CO.
6" F.H. VALVE	1	1	A & P WATER AND SEWER UNION FOUNDRY
6" F.H.	1	1	A & P WATER AND SEWER MUELLER
8" CAP	1		A & P WATER AND SEWER UNION FOUNDRY
8" D.I.P.	452'	452'	CL 52 A & P WATER AND SEWER ATLANTIC STATES CAST IRON
6" D.I.P.	22'	22'	CL 52 A & P WATER AND SEWER ATLANTIC STATES CAST IRON
6" SEWER HOUSE CONN.	37'	37'	SDR-35 A & P WATER AND SEWER CERTAIN TEED PRODUCTS CORP.
TYPE 'A' DROP MANHOLE	1	1	"



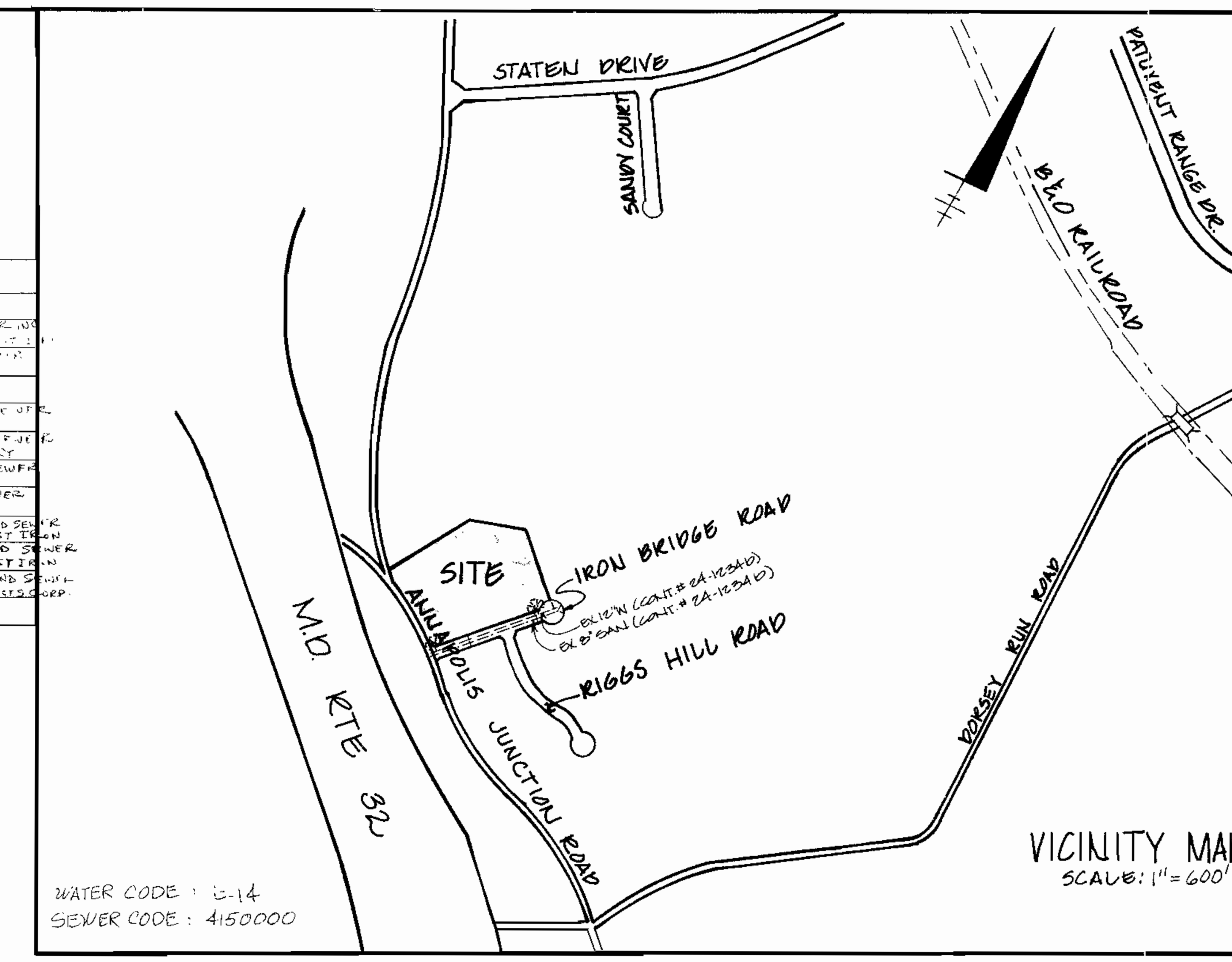
SANITARY SEWER PROFILE

SCALE: HORZ: 1"=50' VERT: 1"=5'



SANITARY SEWER PROFILE

SCALE: HORZ: 1"=50' VERT: 1"=5'



WATER CODE : E-14
SEWER CODE : 4150000

VICINITY MAP
SCALE: 1" = 600'

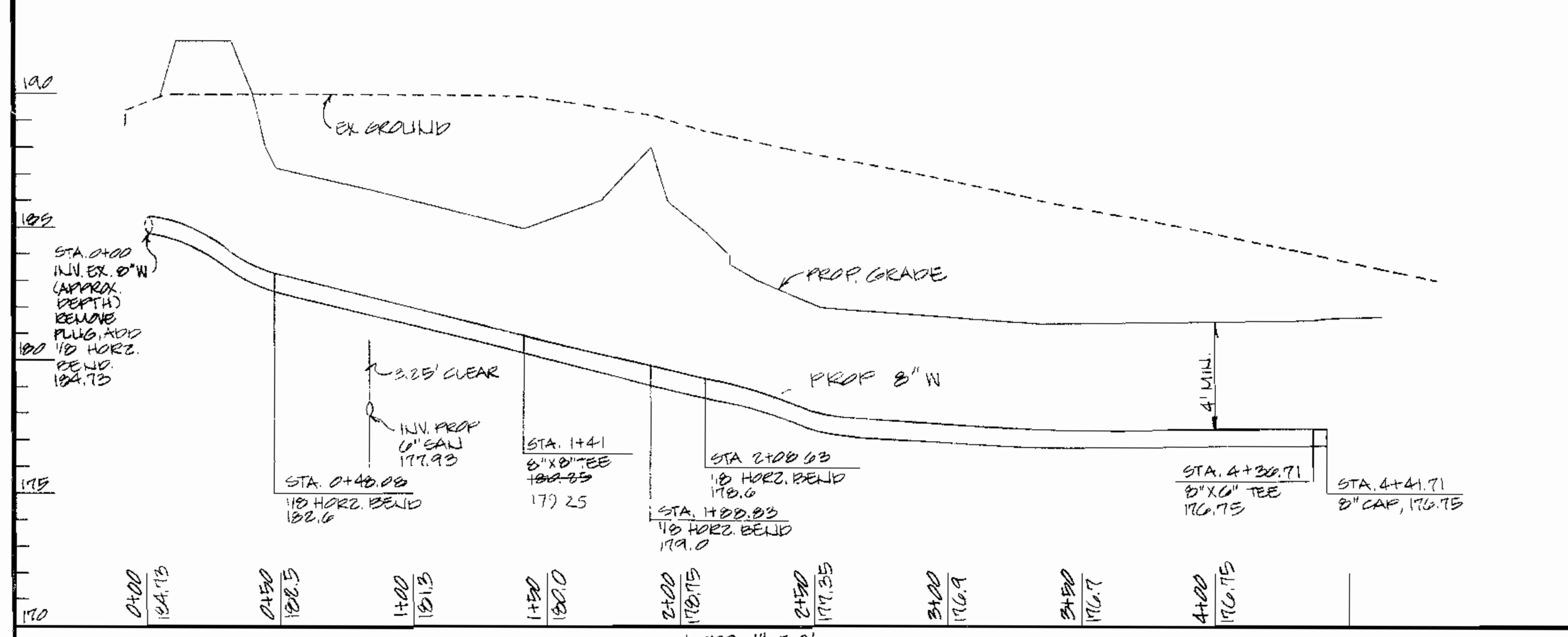
TYPE OF BUILDING: 2 OFFICE / WAREHOUSE
NUMBER OF LOTS : 1
NUMBER OF WATER H.C. : 2
NUMBER OF SEWER H.C. : 2
DRAINAGE AREA: LITTLE PATUXENT

BENCH MARKS

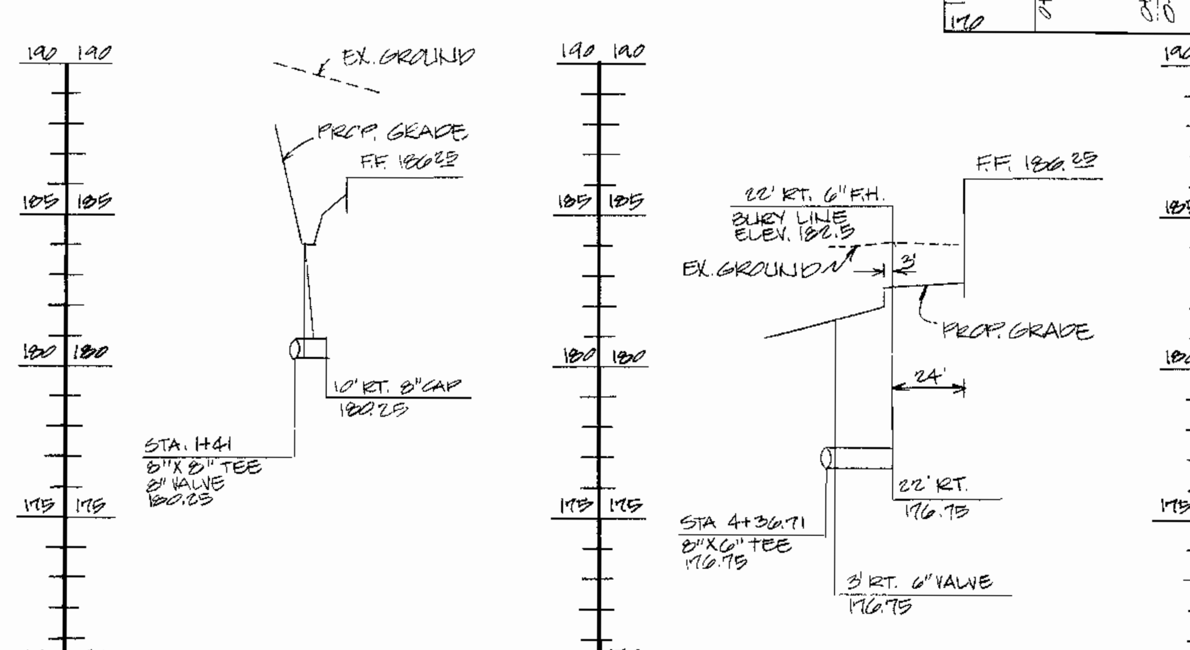
X-CUT #1 ELEV. 191.22 N 473,993.70 E 855,870.99
X-CUT IN CONC. CURB N.W. SIDE IRON BRIDGE RD. 65' ± FROM MD. RTE 32.

X-CUT #2 ELEV. 189.73 N 474,413.70 E 856,235.55
X-CUT IN CONC. CURB N.W. SIDE IRON BRIDGE ROAD 620' ± FROM MD. RTE. 32

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 IMMEDIATLY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
2. ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
3. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
4. CLEAR ALL UTILITIES BY A MINIMUM 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 THE UNIT PRICES BID FOR CONSTRUCTION OF THE MAIN.
5. 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.
6. CONTRACTOR SHALL LOCATE EXISTING UTILITIES A MINIMUM OF TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS IN THE VICINITY OF PROPOSED UTILITIES AT HIS OWN EXPENSE.
7. CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK ON THESE PLANS. STATE HIGHWAY ADMINISTRATION - 531-5533; BALTO. GAS & ELECT CO. CONT SERVICES - 561-2585, BALTO GAS & ELECTRIC CO - UNDERGROUND DAMAGE CONTROL - 234-5661, BALTO. GAS & ELECTRIC CO - TROUBLE SHOOTING 298-9013, MISS UTILITY 1-559-0100; COLONIAL PIPELINE CO. 795-1390. BUREAU OF UTILITIES, HOWARD CO. DEPT OF PUBLIC WORKS - 992-2366.
8. 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.
9. 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.
10. ALL WATER MAINS TO BE D.I.P. UNLESS OTHERWISE NOTED.
11. TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 4' COVER UNLESS OTHERWISE NOTED.
12. VALVE ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
13. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED ON THE DRAWINGS.
14. FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS TO BE SET 3' (THREE) BEHIND PROPOSED FACE OF CURB UNLESS NOTED OTHERWISE. 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 OF THE STANDARD SPECIFICATIONS.
15. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEMS.
16. ALL WATER HOUSE CONNECTIONS, INSIDE METER SETTING UNLESS OTHERWISE SHOWN.
17. ALL WATER HOUSE CONNECTIONS SHALL COMPLY WITH HOWARD CO. STD. 3.21 AS SHOWN ON ARTICLE 40 SPECIAL PROVISIONS.
18. MINIMUM CRIMP RADIUS WILL BE AS SPECIFIED BY PIPE MANUFACTURER.
19. PLACE REGULATION 'MEN WORKING' AND 'WARNING' SIGNS AS REQUIRED TO COMPLY WITH THE MD STATE HIGHWAY ADMINISTRATIONS MANUAL FOR HIGHWAY CONSTRUCTION AND MAINTENANCE OPERATIONS.
20. ALL SEWER MAINS SHALL BE C.S.P.V., R.C.S.P., V.C.P.V., A.C.P. CLASS 2400 OR P.V.C. UNLESS OTHERWISE NOTED.
21. THE CONTRACTOR SHALL PROVIDE A JOINT IN A SEWER MAIN 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 BRICK MANHOLES ONLY.
24. MANHOLES DESIGNATED W.T. IN THE PLAN & PROFILE SHALL HAVE WATER TIGHT FRAME & COVERS, STANDARD DETAIL G-552. WHERE WATER TIGHT MANHOLE FRAME & COVER IS USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
25. HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.



WATER PROFILE #1 SCALE: HORZ 1"=50' VERT. 1"=5'



WATER PROFILE #2 SCALE: HORZ=1"=50' VERT: 1"=5'

WATER PROFILE #3 SCALE: HORZ: 1"=50' VERT: 1"=5'

THE DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT: APPROVED
11/29/85
HOWARD SOIL CONSERVATION DISTRICT DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS
11/26/85
U.S. SOIL CONSERVATION SERVICE DATE

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH ARTICLE 15 OF THE STANDARD SPECIFICATION & S.D.P. 86-40

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS 12-4-85 DATE
CHIEF, BUREAU OF UTILITIES Robert M Beringer 12-2-85 DATE
CHIEF, BUREAU OF ENGINEERING 12-4-85 DATE
CHIEF, LAND DEVELOPMENT DIV. 12-3-85 DATE

ENGINEER
GEORGE W. STEPHENS, JR. AND ASSOCIATES
303 ALLEGHENY AVENUE
TOWSON, MARYLAND 21204
825-8120

10/10/85

DESIGNED: C.A.H.
DRAWN: D.A.L./C.A.H.
CHECKED: P.R.C.
P.N. 5281

BY	NO.	REVISION	DATE

PLAN AND PROFILE FOR PROPOSED WATER MAIN
CONTRACT NO: 24-1426-D
600' SCALE MAP NO. 13 48 BLOCK NO. ____

PROPOSED OFFICE & WAREHOUSE
CORRIDOR NORTH, PARCEL B.
HOWARD COUNTY, MD.
OCTOBER 10, 1985

SCALE AS SHOWN
SHEET NO. 1 OF 1

AS-BUILT
JUNE 19, 1986