SEEDING NOTES

TEMPORARY SEEDING

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

SOIL AMENDMENTS: APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQ.FT.)

SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU NOVEMBER 15, SEED WITH 2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS./1000 SQ.FT.). FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS. PER ACRE OF WEEPING LOVEGRASS (.07 LBS. 1000 SQ.FT.). FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOD.

MULCHING: APPLY 1 TO 2 TONS PER ACRE (70 TO 90 LBS. 1000 SQ.FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GAL. PER ACRE (5 GAL. 1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES, 8 FT. OR HIGHER, USE 348 GAL. PER ACRE (8 GAL./1000 SQ.FT.) FOR ANCHORING.

REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

PERMANENT SEEDING

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAZING DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USING ONE OF THE FOLLOWING SCHEDULES:

1. PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS. 1000 SQ.FT.) AND 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS. 1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE 38-0-0 UREAFORM FERTILIZER (9 LBS. 1000 SQ.FT.)
2. ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS. 1000 SQ.FT.) AND 1000 LBS. PER ACRE 10-10-10 FERTILIZER (23 LBS. 1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.

SEEDING - FOR THE PERIODS MARCH 1 THRU APRIL [illegible] AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS. PER ACRE (1.4 [illegible] SQ.FT. OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS. KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS. PER ACRE (.05 LBS. 1000 SQ.FT. OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY: OPTION (1) 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOD, OPTION (3) SEED WITH 60 LBS./ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.

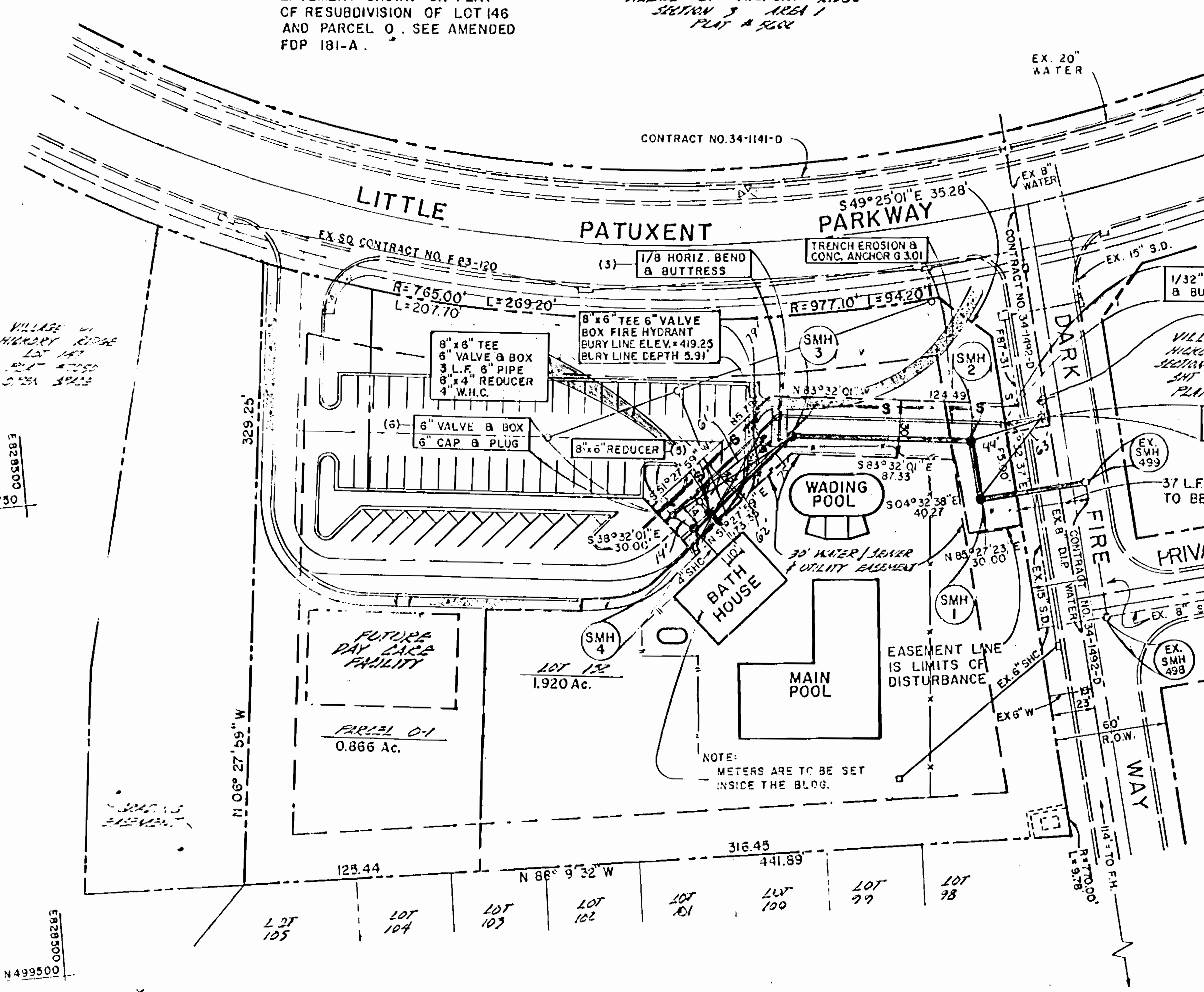
MULCHING - APPLY 1 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ.FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL./1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FT. OR HIGHER, USE 348 GALS. PER ACRE (8 GAL. 1000 SQ.FT.) FOR ANCHORING.

MAINTENANCE - INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

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 GRID COORDINATES.
3. ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATUM.
4. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS NOTED OTHERWISE.
5. CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2'-0" MINIMUM OR TUNNEL AS REQUIRED.
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. 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 OPERATIONS AT HIS OWN 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 - 361-2585
   - BALTIMORE GAS & ELECTRIC CO. - UNDERGROUND DAMAGE CONTROL - 234-5621
   - BALTIMORE GAS & ELECTRIC CO. - TROUBLE SHOOTING - 298-5013
   - MISS UTILITY - 1-539-0100
   - COLONIAL PIPELINE CO. - 795-1390
   - BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS 992-2366
9. TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIPS ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
10. CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG LINE OF EXCAVATION.
11. ALL SEWER MAINS SHALL BE 8" D.I.P. CL. 52 UNLESS OTHERWISE NOTED.
12. THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" EXTERIOR MANHOLE WALL.
13. ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
14. STRAW BALE DIKE AND SILT FENCE ARE INTERCHANGEABLE.

NOTE: 30' WATER, SEWER & UTILITY EASEMENT SHOWN ON PLAT OF RESUBDIVISION OF LOT 146 AND PARCEL O. SEE AMENDED FDP 181-A.

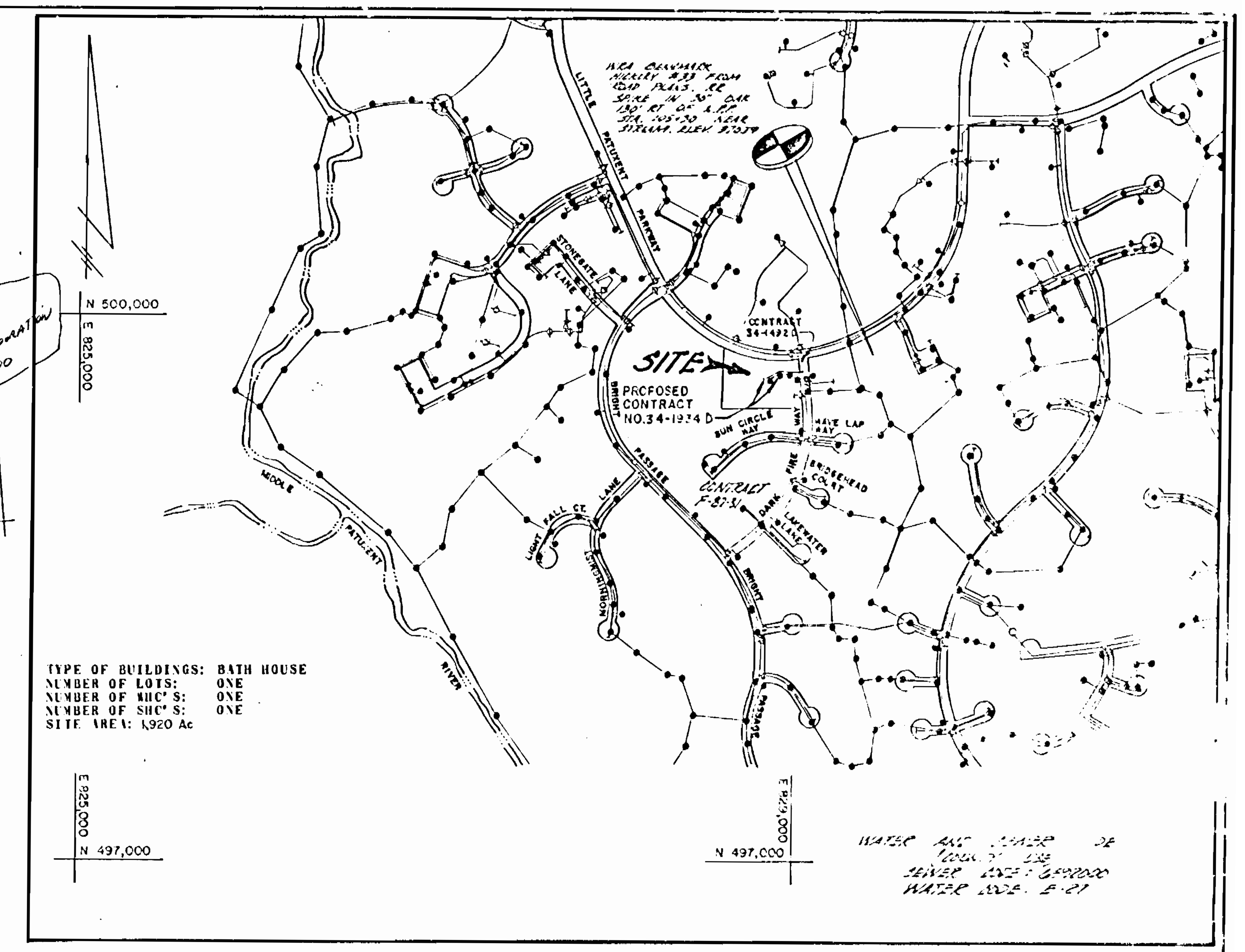


PLAN

SCALE: 1"= 50'

STRUCTURE SCHEDULE									
SANITARY									
MANHOLE NO.	NORTHING	EASTING	INV. IN	INV. OUT	RIM ELEV.	VERT DEPTH	TYPE	CROSS SLOPE	STD. DETAIL NO.
EX. M.H. 499	499713.7223	829064.0393	389.65	389.13	395.68	6.55	STD	2%	G5.11
1	499709.1789	829007.2212	390.37	390.27	405.90	15.83	STD	50%	G5.11
2	499741.2637	829004.6714	397.50	391.91	404.00	12.09	DROP	50%	S1.32
3	499752.1756	828909.3973	404.41	404.21	419.00	14.79	STD	25%	G5.11
4	499708.8823	828854.0355	408.41	408.21	419.30	11.09	STD	2%	G5.11

WATER					
FITTING NO.	NORTHING	EASTING	DESCRIPTION	LOCATION	STD. DETAIL NO.
1	499750.9416	829047.0 84	8" TAPPING SLEEVE & VALVE	EX. 8" WATER	W 2.23
2	499749.1159	829024.1660	11 1/4° (1/32) BEND	PROPERTY LINE	W 2.21
3	499763.8156	828899.7869	45° (1/8) BEND	OPPOSITE SMH 3	W 2.21
4	499754.8055	828889.2266	8"x6" TEE	FIRE HYDRANT	W 1.11
5	499722.7928	828849.0295	8"x6" REDUCER	SMH 4	
6	499713.6040	828837.4914	6" CAP & PLUG	SMH 4	

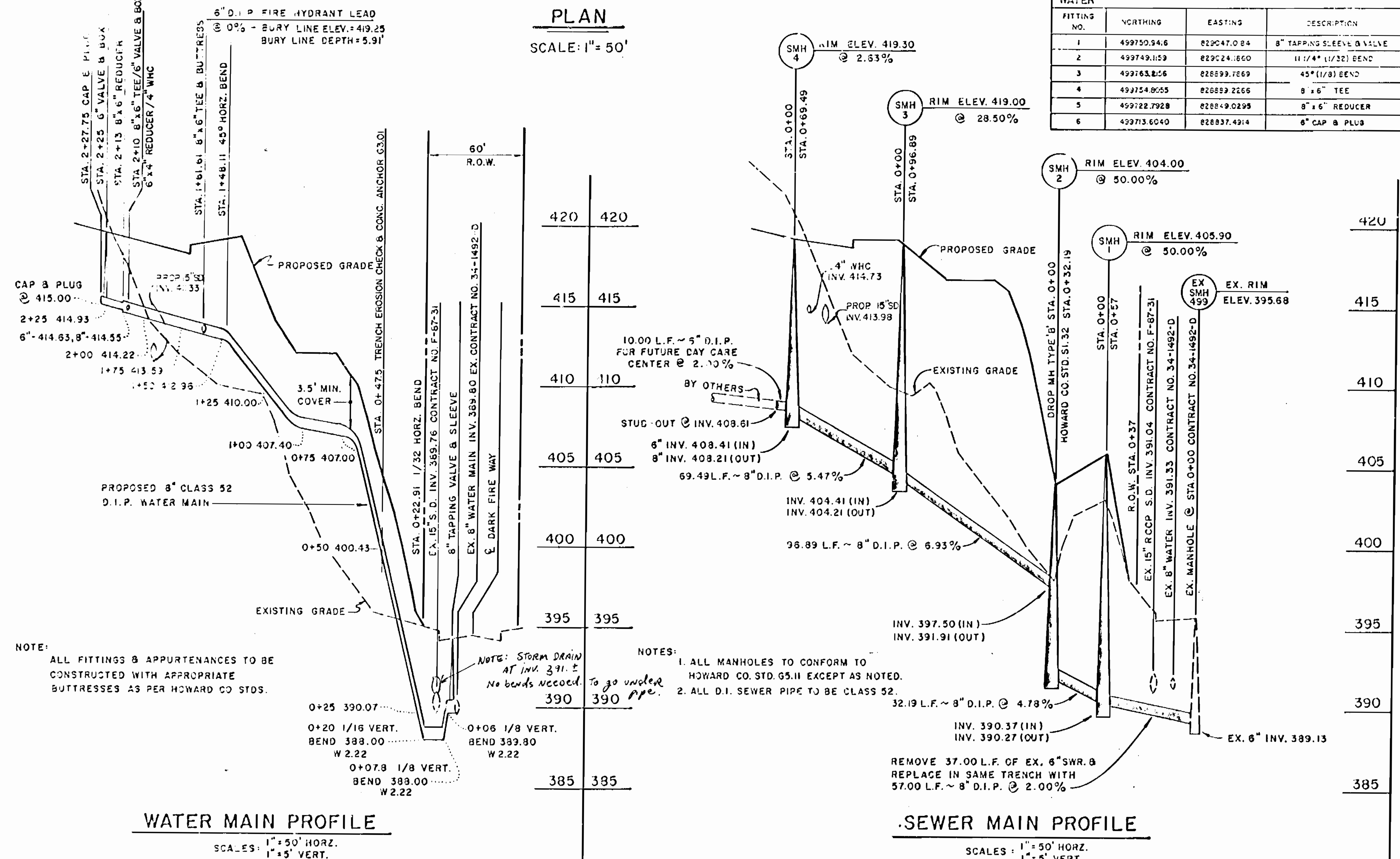


TYPE OF BUILDINGS: BATH HOUSE
NUMBER OF LOTS: ONE
NUMBER OF WHC'S: ONE
NUMBER OF SHC'S: ONE
SITE AREA: 1.920 Ac

WATER AND SEWER OF COUNTY USE SEWER CODE: G590000 WATER CODE: E-21

VICINITY MAP

SCALE: 1"=600'

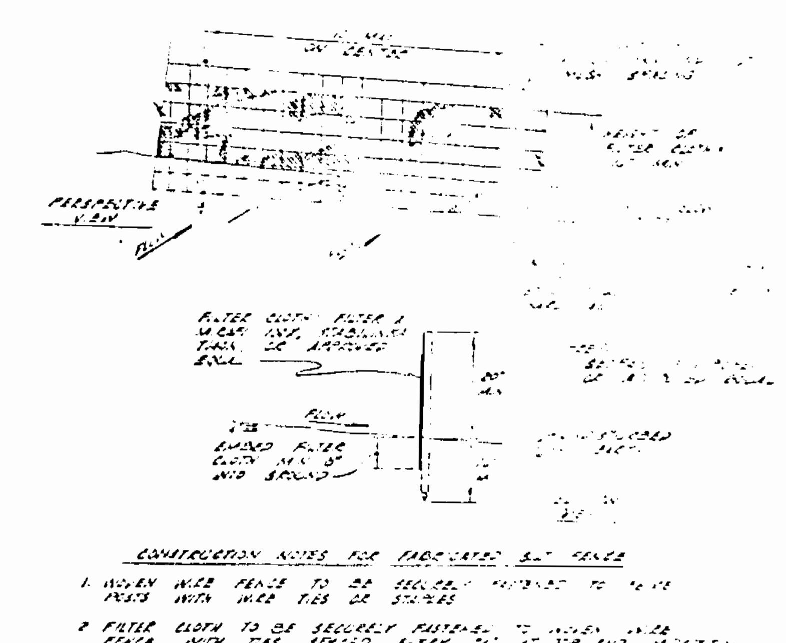


WATER MAIN PROFILE

SCALES: 1"=50' HORZ. 1"=5' VERT.

SEWER MAIN PROFILE

SCALES: 1"=50' HORZ. 1"=5' VERT.



CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

1. WOVEN WIRE FENCE TO BE SECURELY FASTENED TO FENCE POSTS WITH WIRE TIES OR STAPLES
2. FILTER CLOTH TO BE SECURELY FASTENED TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6" AND FOLDED
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE
5. STANDARD SYMBOL: —S—S—

SILT FENCE

NO SCALE

SEQUENCE OF UTILITY CONSTRUCTION

1. STAKE OUT LIMITS OF EASEMENT AND UTILITIES.
2. INSTALL SILT FENCE.
3. DIG NO MORE TRENCH THAN CAN BE BACKFILLED AND STABILIZED AT THE END OF EACH WORK DAY. SEE TEMPORARY SEEDING NOTES. EXCAVATED MATERIAL TO BE PLACED ON HIGH SIDE OF TRENCH.
4. WATER AND SEWER TO BE BUILT SEPARATELY. REMOVE EXISTING 6" STUB AT EXISTING SANITARY MANHOLE 499.
5. INSTALL SANITARY MANHOLE 1 TRENCH AND PIPE REMAINDER OF SANITARY SYSTEM.
6. AFTER TEMPORARY STABILIZATION OF SANITARY SEWER, INSTALL 8" TAPPING SLEEVE AND VALVE.
7. TRENCH AND PIPE REMAINDER OF WATER LINE USING APPROPRIATE BUTTRESSES AND STRAPPING AS DESCRIBED IN HOWARD COUNTY STANDARD DETAILS.
8. STABILIZE AREA PER TEMPORARY SEEDING NOTES. PERMANENT STABILIZATION TO BE ACCOMPLISHED AS [illegible] SITE WORK. REMOVE SILT FENCE.

QUANITIES BOX

ITEM	ESTIMATED	AS-BUILT	MATERIAL/SUPPLIER
SEWER MANHOLE	NO.: 4	4	Dewey Bro. / BRS
8" SEWER	256 L.F.	240 LF	Atlantic Co / A&P
6" SEWER	28 L.F.	18	" "
4" WHC	13 LF	20 LF.	ATLANTIC / A&P SUPPLY
8" VALVE	NO: 1	1	Tyler Pipe / A&P Supply
6" VALVE (EXCLUDING F.H. VALVES)	NO.: 1	1	Tyler Pipe / A&P
FIRE HYDRANTS	NO.: 1	1	Mueller / A&P
8" TAPPING SLEEVE & VALVE	NO: 1	1	Mueller
8" WATER	213' LF	213	ATLANTIC Co / A&P
6" WATER	20' LF	21	" "
3" WHC	26' LF		

DATE	NO.	REVISION DESCRIPTION
4/14/89	1.	OMITTED SHEET 2 & ADDED PROFILES TO THIS SHEET.
3/15/90	2	REV. WATER LINE TO BATH HOUSE M.C.R.

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH ARTICLE 15 OF THE STANDARD SPECIFICATIONS

FINAL PLAT 181-A, F89-140 SDP 89-125

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT
SIGNATURE [signature] DATE 5-9-89
U.S. SOIL CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY HOWARD COUNTY CONSERVATION DISTRICT
APPROVED
HOWARD S.C.D. Stephen [signature] DATE 5/9/89

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

[signature] 5/5/89 — DIRECTOR OF PUBLIC WORKS — DATE
[signature] 5/10/89 — CHIEF-BUREAU OF ENGINEERING — DATE
Robert M. Beringer 5-6-89 — CHIEF-BUREAU OF UTILITIES — DATE
[signature] — CHIEF-LAND DEVELOPMENT DIVISION — DATE

CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS · PLANNERS
TOWSON, MARYLAND 21204

CONTRACT NO. 34-1934-D

VILLAGE OF HICKORY RIDGE
COLUMBIA TOWN CENTER — SECTION 3 AREA 13 LOT 152
5th ELECTION DISTRICT — HOWARD COUNTY, MD.

DRAWING NO. 1 OF 1

SCALE AS SHOWN

5/2/89 Date

John Henrich
Prof. Engineer No. 14920

1/19/90